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**Hydrologic Data
for
Experimental Agricultural
Watersheds
in the United States
1968**

Miscellaneous Publication No. 1330

Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE
In Cooperation With
State Agricultural Experiment Stations

1968-17-900

U.S. GOVERNMENT PRINTING OFFICE

**Hydrologic Data
for
Experimental Agricultural
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in the United States
1968**

Compiled by

JAMES B. BURFORD

and

JOHN M. CLARK

Hydrologic Data Laboratory, Northeastern Region

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U.S. DEPARTMENT OF AGRICULTURE
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PREFACE

This publication presents annual basic data on monthly precipitation and runoff; annual maximum discharges and volumes of runoff; daily precipitation and discharge amounts, and daily air temperature for some areas; and selected runoff events, with associated data on rainfall, land use, and antecedent conditions for agricultural watersheds where research was in progress during 1968. It is a continuation of processing and releasing hydrologic data of general interest collected cooperatively with other agencies.

Throughout the watershed studies the State agricultural experiment stations have collaborated in selecting, planning, and conducting these studies. In several studies the U.S. Geological Survey and State and local agencies, such as State water boards and highway departments of local drainage and conservation districts, have assisted in the work. The classification and correlation of soils and evaluation

of other watershed characteristics in the descriptions have been based mostly on field surveys by the U.S. Soil Conservation Service.

These data were collected originally for specific research objectives, which are still in progress or have been attained. In addition, they can serve many other purposes. This publication provides information for other government agencies, university staff members, graduate students, private engineers, and others who need detailed, factual information concerning agricultural watersheds. High-quality hydrologic data such as these have historic value in addition to providing a basis for research and design and evaluation of projects and programs for conservation and development of the Nation's water resources.

Although the data on which this publication is based were collected in 1968, the findings are still valid and are used for further research on agricultural watersheds.

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The decimal system of paging is used to index the watershed data. Pages are numbered at the bottom according to location and watershed number, and the data for each watershed are given on one or more pages. For example, page 10.1-1 is location 10 (Watkinsville, Ga.), Watershed 1 (W-1 at Watkinsville), and page 1 of the data for that watershed. For convenience in finding items listed in table 3, pages are also numbered consecutively at the top.

Table 3 is a list of continuing or new watersheds by State, locality, assigned location number, and land resource area, with number of watershed units and selected runoff events reported for 1968 in this publication. Table 4 includes similar data on discontinued watersheds.

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968

This is the 12th publication in the Agricultural Research Service (ARS) series on hydrologic data. The first three are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 11 publications, previously published records and general descriptions can be readily found and consulted.

This publication contains selected hydrologic data for 1968 and earlier years for some watersheds. It includes data on monthly precipitation and runoff, annual maximum discharge and volume of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 174 watersheds; daily precipitation for 153 watersheds; mean daily discharge for 157 watersheds; daily maximum and minimum air temperatures for 16 watersheds; and detailed information on 1 or more selected typical storm events for 116 watersheds.

Information on selected storm events includes (1) tabular data for antecedent rainfall and runoff; (2) data on rainfall intensity and runoff for the event and on accumulated depth of rainfall and runoff; (3) description of watershed conditions at the time of the selected events; and (4) plottings of runoff hydrographs and rainfall histograms.

For newly established watersheds, descriptions of watershed physical characteristics, instrumentation, graphs, maps, land management, and recommended area of application of the results are also given. Revised or updated maps of some watersheds for which data have previously been published are included.

Previous publications in this series resulted from the cooperative efforts of several ARS watershed research projects and the editing staff in Beltsville, Md. Hydrologic data were summarized, arranged according to standardized formats, recorded on preprinted data

sheets, and submitted to the editing office for final review, assemblage, and publication.

The Hydrologic Data Laboratory designed and developed a computer-oriented system to produce camera copy sheets for this publication. Hydrologic data submitted by several research projects in digitized form and recorded on computer media are accepted by the system. The required data analyses and summaries are performed and the tables and plottings are provided within and by the system. Narrative information is incorporated into the system as upper and lower case alphameric data using computer-compatible word-processing equipment. The format of the previous eight publications has been retained where practical in this publication, which is the first of the computer-produced references.

PUBLICATIONS OF EARLIER DATA

Historical hydrologic data on the experimental agricultural watersheds, both terminated and active, have been previously summarized in three looseleaf publications (reprints in bound volumes) by ARS. They are described in the following summaries. Beginning with the hydrologic data for 1956 through 1967, the types of data previously published separately in these three volumes were combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 1226, and 1262. These eight publications are listed in table 1 as references 4-11. These reference numbers have been assigned to simplify citations to them in this and future publications. All 11 publications have been recorded on 16-mm microfilm. Copies can be made available for the cost of the film processing.

Reference 1.—MONTHLY PRECIPITATION AND RUNOFF FOR SMALL AGRICULTURAL WATERSHEDS IN THE UNITED STATES. Soil and Water Conservation Research Branch, 691 pages, 1957. (Includes physical descriptions and land use of

TABLE 1.—Description of references 4–12 of “Hydrologic Data for Experimental Agricultural Watersheds in the United States”

Reference	For calendar year (19—)	Miscellaneous Publication No.	Year published (19—)	Total pages	Number of watersheds for which indicated data are given				
					Monthly precipitation and runoff	Annual maximum discharge and runoff for selected time intervals	Selected runoff events	New watersheds	Daily precipitation, discharge, and temperature (max.-min.)
4.....	56–59	945	63	672	157	142	134	45
5.....	60–61	994	65	496	160	145	133	24
6.....	62	1070	68	447	164	155	136	13	50
7.....	63	1164	70	465	168	156	142	9	57
8.....	64	1194	71	460	163	163	143	8	57
9.....	65	1216	72	568	189	178	122	22	60
10.....	66	1226	72	399	198	185	106	11	60
11.....	67	1262	73	634	216	204	174	26	62
12.....	68	1330	76	546	174	174	116	1	174

334 experimental agricultural watersheds at 60 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1955.)

Reference 2.—ANNUAL MAXIMUM FLOWS FROM SMALL AGRICULTURAL WATERSHEDS IN THE UNITED STATES. Soil and Water Conservation Research Division, 330 pages, 1958. (Includes records from 322 watersheds at 59 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1957.)

Reference 3.—SELECTED RUNOFF EVENTS FOR SMALL AGRICULTURAL WATERSHEDS IN THE UNITED STATES. Soil and Water Conservation Research Division, 374 pages, 1960. (Includes a sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, watershed conditions for each event, including the 30-day antecedent rainfall and runoff, and tabular as well as graphic data on each storm.)

Copies of these three publications have been furnished to the Soil Conservation Service and other Federal, State, and local government agencies. They have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals when requested, and similar foreign institutions and individuals when requested.

Table 2 lists in which of the 12 references data are included for each watershed. This information also has been recorded on 16-mm microfilm.

Table 3 summarizes where data for each watershed can be found in this 12th publication.

Table 4 lists the watershed units where studies were discontinued in 1967.

FORM OF DATA PRESENTATION

The data in this publication are presented for each watershed in the following order: (1) Watershed description, if not previously published; (2) monthly precipitation and runoff; (3) average monthly precipitation and runoff for period of record; (4) annual maximum flows; (5) daily temperature extremes, daily precipitation, and discharge for some watersheds; (6) selected runoff events; (7) graphs of selected runoff events; and (8) watershed maps, if not previously published or if revised.

Continuing Watersheds

For current watersheds for which the descriptive information has been published in references 1 and 4–11, the tabular data begin at the top of the first page. On each page at the top center is a sequential page number and the decimal paging system is shown at the bottom.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)			Rev. No. 3/	Index to information in reference ^{4/}											
	Town	State			B	E	No.		01	02	03	04	05	06	07	08	09	10	11	12
01001	Arnot Forest	NY	W-1	17.9	41	47		01	02											
01002	Arnot Forest	NY	W-4	17.9	41	47		01	02											
02002	Cohocton	NY	W-II	13.8	38	45		01	02	03										
02003	Cohocton	NY	W-III	24.2	38	45		01	02	03										
04001	Freehold	NJ	W-I	17.5	38	43		01	02	03										
04002	Freehold	NJ	W-II	32.9	38	55		01	02	03										
04003	Freehold	NJ	W-III	51.8	38	43		01	02											
05001	College Park	MD	W-1	8.22	39	54		01	02	03										
05002	College Park	MD	W-2	7.44	39	54		01	02	03										
05003	College Park	MD	W-3	5.02	39	55		01	02											
05004	College Park	MD	W-4	5.03	39	55		01	02											
05005	College Park	MD	W-5	4.07	39	54		01	02											
05006	College Park	MD	W-6	3.53	40	62	06	01	02	03	04	05	06							
05007	College Park	MD	W-7	3.52	40	62	06	01	02	03	04	05	06							
05008	College Park	MD	W-8	2.43	40	55		01	02	03										
05009	College Park	MD	W-9	12.05	40	55		01	02	03										
05010	College Park	MD	W-10	3.04	43	54		01	02											
06001	Hagerstown	MD	W-I	46.3	38	47		01	02											
06002	Hagerstown	MD	W-II	80.8	38	47		01	02	03										
07001	Auburn	AL	W-I	27.0	45	47		01	02											
08001	Vero Beach	FL	W-1	49,915.	51	73	06	01	02	03	04	05	06	07	08	09	10	11		
08002	Vero Beach	FL	W-2	63,100.	55		06	01	02		04	05	06	07	08	09	10	11		
08003	Vero Beach	FL	W-3	10,000.	55		06	01	02		04	05	06	07	08	09	10	11		
08004	Vero Beach	FL	W-4	3,968.	59	73						06	07	08	09	10	11			
09001	Americus	GA	W-I	22.8	38	43		01	02											
09002	Americus	GA	W-II	42.8	38	42		01	02											
09003	Americus	GA	W-III	32.0	38	42		01	02											
09004	Americus	GA	W-IV	59.2	38	43		01	02	03										
10001	Watkinsville	GA	W-1	19.2	39		07	01	02		04	05	06	07	08			12		
11001	High Point	NC	W.F.D.R.	21,100.	23	53		01	02	03	04									
11002	High Point	NC	M.C.	10,300.	34	41		01	02		04									
11003	High Point	NC	U.R.	7,230.	34	41		01	02		04									
12001	Statesville	NC	C-8	5.12	33	38		01	02											
12002	Statesville	NC	W-23	6.00	33	38		01	02											
13001	Blacksburg	VA	W-II	5.44	39	51		01	02											
13002	Blacksburg	VA	W-III	19.3	39	67		01	02	03	04	05	06	07	08	09	10	11		
13003	Blacksburg	VA	W-IV	3.49	51	67		01	02		04	05	06	07	08	09	10	11		
13004	Blacksburg	VA	W-V	6.08	52	67		01	02		04	05	06	07	08	09	10	11		
13005	Blacksburg	VA	W-VI	7.70	51	67		01	02		04	05	06	07	08	09	10	11		
13006	Blacksburg	VA	T.C.	3,054.	57	69					04	05	06	07	08	09	10	11	12	
13007	Blacksburg	VA	C.C.	786.	57							05	06	07	08	09	10	11	12	
13008	Blacksburg	VA	B.C.	893.	57		08				04	05	06	07	08	09	10	11	12	
13009	Blacksburg	VA	P.C.	182.	58	69	08					05	06	07	08	09	10	11	12	
13010	Blacksburg	VA	L.W.C.	1,471.	58	74	08					05	06	07	08	09	10	11	12	
13011	Blacksburg	VA	R.R.B.	555.	58		08					05	06	07	08	09	10	11	12	
13012	Blacksburg	VA	P.M.B.	192.	58	69	08					05	06	07	08	09	10	11	12	
13013	Blacksburg	VA	C.R.	2,023.	59	69	10					05	06	07	08	09	10	11	12	
13014	Blacksburg	VA	F.C.	389.	60	69	08					05	06	07	08	09	10	11	12	
13015	Blacksburg	VA	C.B.	1,058.	60		08					05	06	07	08	09	10	11	12	
14001	Chatham	VA	W-I	13.3	38	48		01	02											
14002	Chatham	VA	W-II	16.1	38	48		01	02											
14003	Chatham	VA	W-III	17.1	38	48		01	02	03										
15001	Staunton	VA	W-I	390.	48	55		01	02	03										
15002	Staunton	VA	W-II	2,430.	48	55		01	02											
15003	Staunton	VA	W-III	6,144.	48	55		01	02		04									

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
25001	McCredie	MO	S.R.W.	153.	41	63	07	01	02		04	05	06	07	08	09	10	11	12
25002	McCredie	MO	No. 2	44.3	51	63	07	01	02		04	05	06	07					
26001	Coshocton	OH	102	1.26	37	46	06	01	02		04	05	06	07	08	09	10	11	12
26002	Coshocton	OH	104	1.33	37	46		01	02		04								
26003	Coshocton	OH	129	2.71	38	72	06	01	02		04	05	06	07	08	09	10	11	12
26004	Coshocton	OH	135	2.69	38	70	06	01	02		04	05	06	07	08	09	10	11	12
26005	Coshocton	OH	130	1.63	38	72	06	01	02		04	05	06	07	08	09	10	11	12
26006	Coshocton	OH	107	2.59	38	46		01	02		04								
26007	Coshocton	OH	131	2.21	38	70	06	01	02		04	05	06	07	08	09	10	11	12
26008	Coshocton	OH	132	0.59	48	70	06	01	02		04	05	06	07	08	09	10	11	12
26009	Coshocton	OH	134	0.92	38	47		01	02		04								
26010	Coshocton	OH	123	1.37	39		06	01	02		04	05	06	07	08	09	10	11	12
26011	Coshocton	OH	115	1.61	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26012	Coshocton	OH	127	1.65	49	71	06	01	02		04	05	06	07	08	09	10	11	12
26013	Coshocton	OH	109	1.69	38		06	01	02		04	05	06	07	08	09	10	11	12
26014	Coshocton	OH	103	0.65	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26015	Coshocton	OH	110	1.27	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26016	Coshocton	OH	113	1.45	39	73	06	01	02		04	05	06	07	08	09	10	11	12
26017	Coshocton	OH	118	1.96	40	73	06	01	02		04	05	06	07	08	09	10	11	12
26018	Coshocton	OH	111	1.18	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26019	Coshocton	OH	121	1.42	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26020	Coshocton	OH	106	1.56	39	72	06	01	02		04	05	06	07	08	09	10	11	12
26021	Coshocton	OH	188	2.05	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26022	Coshocton	OH	124	2.07	39	47		01	02		04								
26023	Coshocton	OH	185	7.40	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26024	Coshocton	OH	187	7.20	41	71	06	01	02		04	05	06	07	08	09	10	11	12
26025	Coshocton	OH	192	7.59	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26026	Coshocton	OH	172	43.6	39	72	06	01	02		04	05	06	07	08	09	10	11	
26027	Coshocton	OH	169	29.0	40	71	06	01	02		04	05	06	07	08	09	10	11	12
26028	Coshocton	OH	177	75.6	40	71	06	01	02		04	05	06	07	08	09	10	11	12
26029	Coshocton	OH	183	74.2	38	63	06	01	02	03	04	05	06	07					
26030	Coshocton	OH	196	303.	37		06	01	02	03	04	05	06	07	08	09	10	11	12
26031	Coshocton	OH	10	122.	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26032	Coshocton	OH	5	349.	40	71	06	01	02		04	05	06	07	08	09	10	11	12
26033	Coshocton	OH	92	920.	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26034	Coshocton	OH	94	1,520.	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26035	Coshocton	OH	95	2,570.	39	72	06	01	02		04	05	06	07	08	09	10	11	12
26036	Coshocton	OH	97	4,580.	37	71	06	01	02	03	04	05	06	07	08	09	10	11	12
26037	Coshocton	OH	994	17,500.	36	71	06	01	02		04	05	06	07	08	09	10	11	
26038	Coshocton	OH	174	52.8	60		06				05	06	07	08	09	10	11	12	
26039	Coshocton	OH	194	187.	60		06				05	06	07	08	09	10	11	12	
26040	Coshocton	OH	182	69.6	64	71										10	11	12	
27001	Hamilton	OH	W-1	187.	38	44		01	02	03									
27002	Hamilton	OH	W-II	16.2	38	44		01	02										
27003	Hamilton	OH	W-III	28.8	38	44		01	02										
27004	Hamilton	OH	W-IV	20.3	38	44		01	02										
28001	Zanesville	OH	C.W.	2.55	34	45		01	02										
28002	Zanesville	OH	P.W.	3.57	34	45		01	02										
28003	Zanesville	OH	W.W.	2.23	34	45		01	02										
29001	Colby	WI	W-1	345.	49	66		01	02	03	04	05	06	07	08	09	10		
30001	Coon Valley	WI	No. 1	49,400.	34	40		01	02										
30002	Coon Valley	WI	No. 2	49,344.	34	40		01	02										
31001	Fennimore	WI	W-1	330.	38	67	07	01	02	03	04	05	06	07	08	09	10	11	
31002	Fennimore	WI	W-2	22.8	38	67	07	01	02	03	04	05	06	07	08	09	10	11	
31003	Fennimore	WI	W-3	52.5	38	67	07	01	02		04	05	06	07	08	09	10	11	
31004	Fennimore	WI	W-4	171.	38	67	07	01	02	03	04	05	06	07	08	09	10	11	

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No. 3/	Index to information in reference ^{4/}														
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12			
32001	La Crosse	WI	U.P.W.	2.41	33	55		01	02													
32002	La Crosse	WI	U.C.W.	2.24	33	46		01	02													
32003	La Crosse	WI	C.W.	2.71	37	63	07	01	02		04	05	06	07								
32004	La Crosse	WI	C.W.A.	3.06	52	63	07	01	02		04	05	06	07								
32005	La Crosse	WI	E-3	1.01	33	42		01	02													
32006	La Crosse	WI	A-4	2.21	33	54		01	02													
33001	Bentonville	AR	W-1	10.03	38	43		01	02													
33002	Bentonville	AR	W-2	9.34	38	47		01	02													
33003	Bentonville	AR	W-3	14.25	38	47		01	02													
33004	Bentonville	AR	W-4	24.	39	47		01	02													
33005	Bentonville	AR	W-5	19.4	38	47		01	02	03												
33006	Bentonville	AR	W-6	10.75	39	47		01	02													
34001	Cherokee	OK	W-1	2.23	42	60		01	02		04											
34002	Cherokee	OK	W-2	4.82	42	60		01	02		04											
34003	Cherokee	OK	W-3	8.30	42	60		01	02		04											
34004	Cherokee	OK	W-4	4.35	42	60		01	02		04											
34005	Cherokee	OK	W-5	7.85	42	60		01	02		04											
34006	Cherokee	OK	W-6	1.75	42	60		01	02		04											
34007	Cherokee	OK	W-7	1.99	42	60		01	02		04											
34008	Cherokee	OK	W-8	4.72	41	60		01	02		04											
34009	Cherokee	OK	W-9	8.50	42	60		01	02	03	04											
34010	Cherokee	OK	W-10	1.68	60	67						05	06	07	08	09	10	11				
34011	Cherokee	OK	W-11	2.12	60	67						05	06	07	08	09	10	11				
34012	Cherokee	OK	W-12	1.68	60	67						05	06	07	08	09	10	11				
34013	Cherokee	OK	W-13	1.99	60	67						05	06	07	08	09	10	11				
34014	Cherokee	OK	W-14	2.16	60	67						05	06	07	08	09	10	11				
34015	Cherokee	OK	W-15	2.15	60	67						05	06	07	08	09	10	11				
35001	Guthrie	OK	W-1	33.40	32	53		01	02													
35002	Guthrie	OK	W-2	3.21	31	51		01	02													
35003	Guthrie	OK	W-3	3.13	30	51		01	02													
35004	Guthrie	OK	W-4	5.62	31	53		01	02													
35005	Guthrie	OK	W-5	5.28	31	47		01	02													
35006	Guthrie	OK	W-I	2.50	37	53		01	02													
35007	Guthrie	OK	W-II	5.09	42	55		01	02													
35008	Guthrie	OK	W-III	9.09	42	53		01	02													
35009	Guthrie	OK	W-IV	13.4	42	53		01	02													
35010	Guthrie	OK	W-V	15.7	42	53		01	02													
35011	Guthrie	OK	W-VI	94.8	42	55		01	02	03												
36001	Muskogee	OK	W-I	14.5	39	47		01	02													
36002	Muskogee	OK	W-II	65.4	39	45		01	02													
36003	Muskogee	OK	W-IV	24.9	38	47		01	02													
37001	Stillwater	OK	W-1	16.7	51	72	05	01	02		04	05	06	07	08	09	10	11	12			
37002	Stillwater	OK	W-3	92.	51	72		01	02	03	04	05	06	07	08	09	10	11	12			
37003	Stillwater	OK	W-4	206.	51	72		01	02		04	05	06	07	08	09	10	11	12			
38001	Garland	TX	W-I	25.	38	47		01	02													
38002	Garland	TX	W-III	10.4	38	47		01	02													
38003	Garland	TX	W-IV	16.2	39	47		01	02													
39001	Spur	TX	W-1	11.53	27	45		01	02													
39002	Spur	TX	W-2	9.39	27	45		01	02													
39003	Spur	TX	W-3	11.71	27	44		01	02													
39004	Spur	TX	W-5	5.81	27	45		01	02													
39005	Spur	TX	W-6	6.04	27	45		01	02													
39006	Spur	TX	W-11	8.70	30	45		01	02													
39007	Spur	TX	W-12	8.41	30	45		01	02													
39008	Spur	TX	W-14	8.53	30	45		01	02													
39009	Spur	TX	W-15	8.50	30	45		01	02													

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. No.	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
40001	Tyler	TX	W-2	9.15	43	44		01	02	03									
40002	Tyler	TX	W-3	7.94	32	42		01	02										
40003	Tyler	TX	W-4	5.75	31	42		01	02										
40004	Tyler	TX	W-5	1.73	32	42		01	02										
41001	Vega	TX	W-1	129.	38	43		01	02										
41002	Vega	TX	W-2	95.9	38	43		01	02	03									
42001	Riesel	TX	A	42.	38	43		01	02										
42002	Riesel	TX	C	579.	38		08	01	02		04	05	06	07	08	09	10	11	12
42003	Riesel	TX	D	1,110.	37		08	01	02	03	04	05	06	07	08	09	10	11	12
42004	Riesel	TX	G	4,380.	38		08	01	02		04	05	06	07	08	09	10	11	12
42005	Riesel	TX	J	5,860.	37	43		01	02	03									
42006	Riesel	TX	W-1	176.	37		08	01	02	03	04	05	06	07	08	09	10	11	12
42007	Riesel	TX	W-2	130.	37		08	01	02		04	05	06	07	08	09	10	11	12
42008	Riesel	TX	W-6	42.3	39		08	01	02		04	05	06	07	08	09	10	11	12
42009	Riesel	TX	W-8	40.4	38	43		01	02										
42010	Riesel	TX	W-10	19.7	38		08	01	02		04	05	06	07	08	09	10	11	12
42011	Riesel	TX	Y	309.	37		08	01	02		04	05	06	07	08	09	10	11	12
42012	Riesel	TX	Y-2	132.	39		08	01	02		04	05	06	07	08	09	10	11	12
42013	Riesel	TX	Y-4	79.9	39		08	01	02		04	05	06	07	08	09	10	11	12
42014	Riesel	TX	Y-6	20.9	39		08	01	02		04	05	06	07	08	09	10	11	12
42015	Riesel	TX	Y-7	40.	39		08	01	02		04	05	06	07	08	09	10	11	12
42016	Riesel	TX	Y-8	20.8	39		08	01	02		04	05	06	07	08	09	10	11	12
42017	Riesel	TX	Y-10	21.0	38		08	01	02		04	05	06	07	08	09	10	11	12
42018	Riesel	TX	SW-2	2.7	38	43		01	02										
42019	Riesel	TX	SW-3	3.09	39	43		01	02										
42020	Riesel	TX	SW-5	3.09	38	43		01	02										
42021	Riesel	TX	SW-6	3.04	38	43		01	02										
42022	Riesel	TX	SW-7	3.15	38	43		01	02										
42023	Riesel	TX	SW-11	3.23	38			01	02										
42024	Riesel	TX	SW-12	2.97	38		08	01	02		04	05	06	07	08	09	10	11	12
42025	Riesel	TX	SW-13	3.19	38	43		01	02										
42026	Riesel	TX	SW-14	3.02	39	43		01	02										
42027	Riesel	TX	SW-16	3.17	37	43		01	02										
42028	Riesel	TX	SW-17	2.99	39		08	01	02		04	05	06	07	08	09	10	11	12
42029	Riesel	TX	SW-18	3.04	38	43		01	02										
42030	Riesel	TX	Z	310.	39	43		01	02										
42031	Riesel	TX	P-1	.24	38		08				05	06	07	08	09	10	11	12	
42032	Riesel	TX	P-2	.24	38		08				05	06	07	08	09	10	11	12	
42033	Riesel	TX	P-3	.24	38		08				05	06	07	08	09	10	11	12	
42034	Riesel	TX	P-4	.24	38		08				05	06	07	08	09	10	11	12	
43001	Hays	KS	6L	2.85	34	38		01	02										
43002	Hays	KS	AG	1.61	32	47		01	02										
44001	Hastings	NE	W-3	481.	38	67	06	01	02	03	04	05	06	07	08	09	10	11	
44002	Hastings	NE	W-5	411.	39	61		01	02		04	05							
44003	Hastings	NE	W-8	2,086.	39	67	06	01	02	03	04	05	06	07	08	09	10	11	
44004	Hastings	NE	W-11	3,490.	39	67	06	01	02		04	05	06	07	08	09	10	11	
44005	Hastings	NE	1-H	3.62	39	67	06	01	02		04	05	06	07	08	09	10	11	
44006	Hastings	NE	2-H	3.40	39	67	06	01	02		04	05	06	07	08	09	10	11	
44007	Hastings	NE	3-H	3.95	39	67	06	01	02		04	05	06	07	08	09	10	11	
44008	Hastings	NE	4-H	3.84	39	67	06	01	02		04	05	06	07	08	09	10	11	
44009	Hastings	NE	5-H	3.93	39	67	06	01	02		04	05	06	07	08	09	10	11	
44010	Hastings	NE	6-H	4.16	39	67	06	01	02		04	05	06	07	08	09	10	11	
44011	Hastings	NE	7-H	4.15	39	67	06	01	02		04	05	06	07	08	09	10	11	
44012	Hastings	NE	8-H	3.93	39	67	06	01	02		04	05	06	07	08	09	10	11	
44013	Hastings	NE	9-H	3.78	39	54		01	02										
44014	Hastings	NE	10-H	3.98	39	54		01	02										
44015	Hastings	NE	11-H	3.85	39	54		01	02										

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--) B E 2/ 3/	Rev. ref. No.	Index to information in reference ^{4/}												
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	
65002	Newell	SD	W-2	115.	58	73				04	05	06	07	08	09	10	11	12	
65003	Newell	SD	W-3	90.	58	61				04	05								
65004	Newell	SD	W-4	105.	58	61				04	05								
65005	Newell	SD	W-5	46.	58	73				04	05	06	07	08	09	10	11	12	
65006	Newell	SD	W-6	30.	58	61				04	05								
65007	Newell	SD	W-7	160.	58	73	05			04	05	06	07	08	09	10	11	12	
65008	Newell	SD	W-8	160.	58	61				04	05								
65009	Newell	SD	W-9	815.	58	61				04	05								
65010	Newell	SD	W-10	280.	58	61				04	05								
65011	Newell	SD	W-11	160.	58	61				04	05								
65012	Newell	SD	W-12	90.	58	73	05			04	05	06	07	08	09	10	11	12	
65013	Newell	SD	W-13	160.	58	73				04	05	06	07	08	09	10	11	12	
65014	Newell	SD	W-14	35.	58	73	05			04	05	06	07	08	09	10	11	12	
65015	Newell	SD	W-15	115.	58	73	05			04	05	06	07	08	09	10	11	12	
65016	Newell	SD	W-16	13,000.	58	61	05			04	05								
66001	Moorefield	WV	W-1	8.57	58	67	06			04	05	06	07	08	09	10	11		
66002	Moorefield	WV	W-2	10.06	58	67	06			04	05	06	07	08	09	10	11		
66004	Moorefield	WV	W-4	6.32	58	67	06			04	05	06	07	08	09	10	11		
66005	Moorefield	WV	W-5	9.55	58	67	06			04	05	06	07	08	09	10	11		
67001	N. Danville	VT	W-1	10,610.	58					04	05	06	07	08			11	12	
67002	N. Danville	VT	W-2	146.	58					04	05	06	07	08			11	12	
67003	N. Danville	VT	W-3	2,067.	60						05	06	07	08			11	12	
67004	N. Danville	VT	W-4	10,752.	60												11	12	
67005	N. Danville	VT	W-5	27,469.	60						05	06	07	08			11	12	
68001	Reynolds	ID	W-1	57,700.	63								07	08	09	10	11	12	
68002	Reynolds	ID	W-2	8,990.	65										09	10	11	12	
68003	Reynolds	ID	W-3	7,846.	66											10	11	12	
68004	Reynolds	ID	W-4	13,453.	67												11	12	
68011	Reynolds	ID	W-11	306.	67												11	12	
68012	Reynolds	ID	W-12	205.	67												11	12	
68013	Reynolds	ID	W-13	100.	66											10	11	12	
68014	Reynolds	ID	W-14	33.	67												11	12	
69001	Chickasha	OK	100	2,340,000.	61							06	07	08	09	10	11	12	
69002	Chickasha	OK	200	273,000.	61							06	07	08	09	10	11	12	
69004	Chickasha	OK	400	112,910.	61	68						06	07	08	09	10			
69005	Chickasha	OK	500	43,840.	64								08	09	10	11	12		
69006	Chickasha	OK	600	243,050.	63	71							07	08	09	10	11	12	
69007	Chickasha	OK	700	50,830.	61							06	07	08	09	10	11	12	
69008	Chickasha	OK	611	4,845.	61	74						06	07	08	09				
69009	Chickasha	OK	612	563.	61	74						06	07	08	09	10	11	12	
69010	Chickasha	OK	111	16,640.	61							06	07	08	09	10	11	12	
69011	Chickasha	OK	131	25,660.	61							06	07	08	09	10	11	12	
69012	Chickasha	OK	411	34,180.	61	74						06	07	08	09	10	11	12	
69013	Chickasha	OK	511	38,910.	61							06	07	08	09	10	11	12	
69014	Chickasha	OK	110	25,150.	63								07	08	09	10	11	12	
69015	Chickasha	OK	522	132,930.	63	73							07	08	09	10	11	12	
69016	Chickasha	OK	512	22,780.	63								07	08	09	10	11	12	
69017	Chickasha	OK	621	21,310.	63	73								07	08	09	10	11	12
69018	Chickasha	OK	121	128,960.	63	74								07	08	09	10	11	12
69019	Chickasha	OK	513	12,314.	65										09	10	11	12	
69020	Chickasha	OK	514	7,225.	67												11		
69021	Chickasha	OK	5141	4,064.	67												11		
69022	Chickasha	OK	5142	360.	67	74											11		
69023	Chickasha	OK	5143	485.	67	74											11		
69024	Chickasha	OK	5144	1,456.	67												11		
69025	Chickasha	OK	5145	253.	67												11		
69026	Chickasha	OK	5146	762.	67												11		

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)	Rev. ref. No.	Index to information in reference ^{4/}																
	Town	State					B	E	No.	01	02	03	04	05	06	07	08	09	10	11	12		
69027	Chickasha	OK	311	15,206.	67													11	12				
69030	Chickasha	OK	C-1	17.8	65												09	10	11	12			
69031	Chickasha	OK	C-2	38.1	62													09	10	11	12		
69032	Chickasha	OK	C-3	44.3	65													09	10	11	12		
69033	Chickasha	OK	C-4	29.9	65													09	10	11	12		
69034	Chickasha	OK	C-5	12.8	65													09	10	11	12		
69035	Chickasha	OK	C-6	13.0	65													09	10	11	12		
69036	Chickasha	OK	C-7	26.5	65													09	10	11	12		
69037	Chickasha	OK	C-8	27.3	65													09	10	11	12		
69038	Chickasha	OK	R-1	17.8	62	74												09	10	11	12		
69039	Chickasha	OK	R-2	24.1	62	74												09	10	11	12		
69040	Chickasha	OK	R-3	25.8	62	74												09	10	11	12		
69041	Chickasha	OK	R-4	18.1	62	74												09	10	11	12		
69042	Chickasha	OK	R-5	23.7	66														10	11	12		
69043	Chickasha	OK	R-6	27.2	66														10	11	12		
69044	Chickasha	OK	R-7	19.2	66														10	11	12		
69045	Chickasha	OK	R-8	18.5	66														10	11	12		
70001	Sonora	TX	W-14	30,720.	61	73															11	12	
70002	Sonora	TX	S-9	1,774.	61	73															11	12	
70003	Sonora	TX	S-10	5,392.	61	73															11	12	
70004	Sonora	TX	S-11	10,787.	61	73															11	12	
70005	Sonora	TX	S-12	2,801.	61	73															11	12	
70006	Sonora	TX	S-13	686.	61	73															11	12	
70007	Sonora	TX	W-1	10.2	63																11	12	
70008	Sonora	TX	W-2	8.6	65																11	12	
70009	Sonora	TX	W-3	6.7	65																11	12	
70010	Sonora	TX	W-4	4.5	66																11	12	
70011	Sonora	TX	W-5	7.2	66																11	12	
70012	Sonora	TX	W-6	6.9	66																11	12	
70013	Sonora	TX	W-7	12.2	65	73															11	12	
71001	Treynor	IA	W-1	74.5	64														08	09	10	11	12
71002	Treynor	IA	W-2	82.8	64														08	09	10	11	12
71003	Treynor	IA	W-3	107.	64														08	09	10	11	12
71004	Treynor	IA	W-4	150.	64														08	09	10	11	12
71005	Treynor	IA	W-5	389.	63	74													08	09	10	11	12
72001	Cottonwood	SD	H-2	2.13	63	73														09	10	11	12
72002	Cottonwood	SD	L-2	2.38	63	73														09	10	11	12
72005	Cottonwood	SD	M-1	2.35	63	73														09	10	11	12
73002	Fort Staunton	NM	7302	32.2	66																10		
75001	Ahoskie	NC	W-A1	36,480.	64	74														09	10	11	12
75002	Ahoskie	NC	W-A2	15,360.	64	74														09	10	11	12
75003	Ahoskie	NC	W-A3	2,368.	64	74														09	10	11	12
75004	Ahoskie	NC	W-A4	1,664.	64	74														09	10	11	12

^{1/} For description of references 1-12, see pp. 1-2 and table 1.^{2/} B = year (19--) record began; E = year (19--) record ended.^{3/} Reference in which additional or revised watershed information has been included.^{4/} For explanation of reference numbers, see pp. 1-2 and table 1.

The geographic location associated with each study, usually a city and State, and the local name and number of the watershed are recorded at the top of the first page for each watershed. This identification is followed by detailed information on the geographic location and the size of the watershed.

In the space to the right of the first table title, MONTHLY PRECIPITATION AND RUNOFF (inches), the location and watershed number (or designation) are given.

In the table for the current *calendar* year, the *precipitation* (P) in inches is given in the monthly columns and the yearly total in the last column, headed *annual*. In the line below, the corresponding *runoff* (Q) in inches is similarly given for each month and the total for the year. For some watersheds, data are included for years previous to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

In the second table, entitled ANNUAL MAXIMUM DISCHARGES (inches per hour) and ANNUAL MAXIMUM VOLUME OF RUNOFF (inches) FOR SELECTED TIME INTERVALS, data are also given for the *calendar* year listed in the first column. Under the *maximum discharge* heading, the date column shows the month and day that the instantaneous peak in inches per hour occurred. In computing this rate, corrections were made, where needed, for any significant pondage above the runoff-measuring device. Under the *maximum volume* heading, the date refers to the month and day on which the interval began; for example, if the interval began August 30 at 2359, the entry in the date column would be 8-30. The depths for *1 hour to 8 days* are the annual maximum values recorded, without regard to entire clock hours or days; thus, if the 6-hour interval began at 1332, the interval would end exactly 6 hours later at 1932. The volume given is in inches of average depth over the watershed for each of the seven selected time intervals (1, 2, 6, and 12 hours, and 1, 2, and 8 days). In the last section of the table, the maximum discharges and depths for the various periods are given under MAXIMUM FOR PERIOD OF RECORD.

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) a statement as to the location (publication) where the most recent map may be found; (3) a statement pertaining to the length of precipitation and runoff records; and (4) location of the nearest long-term U.S. Weather Bureau precipitation station together with the record length.

For some watersheds, tables of DAILY AIR TEMPERATURE (maximum and minimum in degrees Fahrenheit), DAILY PRECIPITATION (inches), and MEAN DAILY DISCHARGE (cfs) are next, with explanation of the data in footnotes at the end of each table. The multiplier to convert mean daily discharge in cubic feet per second to inches per day is given as the first note to the mean daily discharge table. Cooperating agencies are located at the bottom of the first page for each watershed just above the index page number.

If no daily tables are given, the tabular data for SELECTED RUNOFF EVENTS begin in the remaining space on the first page and are carried forward on continuation sheets (or pages) until completed. In general, the SELECTED RUNOFF EVENTS were those in which runoff was produced by a relatively uniform rainfall excess of short duration. The information for each event includes tabulation of (1) *antecedent* rainfall and runoff that occurred on the day of the event prior to the beginning of the event; (2) rainfall *intensities* and *accumulated amounts* for the event; (3) runoff *rates* and *accumulated amounts* for the event; and (4) specific *watershed conditions* at the time of the event.

Simple graphs of rainfall and runoff rates are shown for all events on pages following the tabular data. Maps follow the graphs unless previously published in references 3-11 or unless shown herein on the map of another watershed.

In the Notes at the bottom of the first page for runoff events, the multiplier to convert runoff rates in cubic feet per second to inches per hour is given. The notes on continuation pages contain the statement on the multiplier and similar explanations of the data on each page.

New Watersheds

For the watershed installed in recent years and not reported previously, the presentation begins with the watershed description in the upper part of the first page. The explanations and definitions on which the description is based are given in the next section.

The first line, centered at the top of the sheet, indicates the *project location*, which is the nearest city or town, and the number or name of the watershed used locally. The descriptive material is then given under the 12 major topics listed generally down the left side of the sheet: *Location, Area, Slopes, Soils, Erosion, Land Capability, Geology, Surface Drainage, Character of Flow, Instrumentation, Watershed Conditions, and Generally Represents.*

After this description, the tabular data are summarized in the first two tables and notes are included as previously described for Continuing Watersheds. The tabular data for daily air temperature, precipitation, and discharge, if presented, precede the tabular data for SELECTED RUNOFF EVENTS. The rest of the material of the series for the particular watershed follows in the same order as previously indicated.

WATERSHED DESCRIPTIONS

The following definitions and explanations were used in describing watershed location, watershed characteristics, instrumentation, land management, and recommended area of application of the hydrologic data.

LOCATION gives county and State, distance and direction of the runoff gaging station from the nearest city or town, and the major river basin in which it lies. When two or more basins are involved, the tributary or subbasin is mentioned first, followed by the major basin.

AREA of watershed is given in acres if less than 640 acres, and in both acres and square miles (in parentheses) if more than 1 square mile. If areas are revised, additional values are included with notes on date of change.

SLOPES are given in terms of the ranges commonly used in survey work in the locality. The percentages of the watershed lying in each slope class are listed. As an example, 8% is in 0-2% class means that 8 percent of the watershed area has slopes ranging from 0 to 2 percent.

SOILS are described briefly, according to definitions from the U.S. Department of Agriculture SOIL SURVEY MANUAL, Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

Soil texture refers to the relative proportions of the various size groups (or separates) of individual soil grains in a mass of soil. Specifically it refers to the proportions of clay, silt, and sand less than 2 mm in diameter. The various classes of texture in order of increasing percentages of the smaller size groups are (1) sand, (2) loamy sand, (3) sandy loam, (4) loam, (5) silt loam, (6) silt, (7) sandy clay loam, (8) clay loam, (9) silty clay loam, (10) sandy clay, (11) silty clay, and (12) clay. In some of the descriptions the broader classification of coarse, moderately coarse, medium, moderately fine, and fine has been used—the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure *grade*, or the durability of the aggregates when subjected to disturbance, is described as *structureless, weak, moderate, or strong*. For some soils the structureless grade is described as *massive*, if coherent, or *single grain*, if noncoherent. The *size* of the aggregates is reported as *very fine, fine, medium, coarse, or very coarse*. Structure *shape* is given as being *platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb*.

Permeability is the quality of a soil that enables it to transmit water or air. This quality is indicated by the terms *very slow, slow, moderately slow, moderate, moderately rapid, rapid, or very rapid*.

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers and by the height of the water table, either permanent or perched, in relation to the water added to the

soil. *Internal drainage* is described as *none*, *very slow*, *slow*, *medium*, *rapid*, or *very rapid*.

Soils may be grouped into *soil drainage* classes, based on observations and inferences used to obtain classes of *runoff*, *soil permeability*, and *internal soil drainage*. These classes are given in some soils descriptions to identify *internal drainage*. They are *very poorly drained*, *poorly drained*, *imperfectly* or *somewhat poorly drained*, *moderately well drained*, *well drained*, *somewhat excessively drained*, or *excessively drained*.

Erosion conditions on the watershed are described according to the following classification for water and wind erosion, also briefed from Agriculture Handbook 18. The percentage of the watershed in the following erosion classes is given.

Class 1.—The soil has a few rills or places with thin A horizons that give evidence of accelerated erosion, but not to an extent to alter greatly the thickness and character of the A horizon. Except for soils having very thin A horizons (less than 8 inches), the surface soil consists entirely of A horizon throughout nearly all the delineated areas. Up to about 25 percent of the original A horizon, or original plowed layer in soils with thin A horizons, has been removed from most of the area. This class also includes the areas with no erosion.

Class 2.—The soil has been eroded to the extent that ordinary tillage implements reach through the remaining A horizon or well below the depth of the original plowed layer in soils with thin A horizons. Generally the plowed layer consists of a mixture of the original A horizon and the underlying horizons. Mapped areas of eroded soil usually have patches in which the plowed layer consists entirely of the original A horizon, and others in which it consists entirely of underlying horizons. Shallow gullies may be present. Approximately 25 to 75 percent of the original A horizon or surface soil may have been lost from most of the area.

Class 3.—The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included

within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. More than about 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

Class 4.—The land has been eroded until it has an intricate pattern of moderately deep or deep gullies. Soil profiles have been destroyed except in small areas between the gullies. Such land is not useful for crops in its present condition. Reclamation for crop production or for improved pasture is difficult, but may be practicable if other characteristics of the soil are favorable and erosion can be controlled.

Class +.—Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingebiel and Montgomery in U.S. Department of Agriculture LAND-CAPABILITY CLASSIFICATION, Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. The following classes I–IV are suitable for cultivation and other uses, whereas classes V–VIII are not suitable for cultivation.

Class I.—Very good land for cultivation; nearly level and productive; not subject to erosion; needs only ordinary good farming methods.

Class II.—Good land for cultivation; mostly gently sloping; not more than moderately subject to erosion; some land may be rather wet; can be farmed safely with easily applied practices.

Class III.—Moderately good land for cultivation; mostly moderately sloping; some areas too wet or too dry; can be farmed safely with practical conservation measures, carefully applied; usually a combination of two or more measures is needed.

Class IV.—Fairly good land, suitable for occasional cultivation; generally strongly sloping; often shallow or very sandy; often found in dry climate.

Class V.—Land very well suited for grazing or forestry; requires good range or woodland management.

Class VI.—Land well suited for grazing or forestry; steeply sloping land, or stony or shallow soil; eroded, droughty, or wet land; requires careful management.

Class VII.—Land fairly well suited for grazing or forestry; severely limited in use by such factors as very steep slope, shallow or droughty soil, wetness, severe erosion, or excessive salinity; requires very careful management.

Class VIII.—Land not suitable for cultivation, grazing, or forestry; may be useful for wildlife, recreation, or protection of water supplies.

GEOLOGY of the one new watershed is reported herein. The parts of the watershed occupied by various geological formations or series are briefly described, together with strike and dip of the strata, thickness, and relative position, when known. Faults, perched water tables, outcrops, if present, and other details relating to the movement of water within the drainage area or affecting the hydrology of the watershed are described.

SURFACE DRAINAGE refers to the ease with which excess water flows from the watershed area. The length of the principal waterway is the distance from the gaging station to the most remote point on the watershed boundary, measured along the flood plain of the watercourse.

CHARACTER OF FLOW describes the flow of the principal watercourse with respect to permanence and space. The following definitions are from Meinzer's OUTLINE OF GROUND-WATER HYDROLOGY, U.S. Geological Survey Water-Supply Paper 494, published in 1923.

As to permanence, streams may be divided into perennial, intermittent, and ephemeral streams.

A *perennial stream*, or stretch of a stream, flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces usually stand lower than the water table in the localities through which they flow.

Intermittent streams may be divided, with respect to their water source, into spring-fed intermittent streams and surface-fed intermittent streams. They also flow in direct response to precipitation.

A *spring-fed intermittent stream*, or stretch of a stream, flows only at certain times when it receives water from springs. The intermittent

character of streams of this type is generally caused by fluctuations of the water table, whereby the stream channels stand part of the time below and part of the time above the water table. This is the ordinary type of intermittent stream,

A *surface-fed intermittent stream*, or stretch of a stream, flows during protracted periods when it receives water from some surface source, generally the gradual and long-continued melting of snow in a mountainous or other cold tributary area. The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during at least 1 month.

An *ephemeral stream*, or stretch of a stream, flows only in direct response to precipitation. It receives no water from springs and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously for as long as 1 month.

With respect to continuity in space, streams may be divided into continuous and interrupted streams. An *interrupted stream* contains (1) perennial stretches with intervening, intermittent, or ephemeral stretches or (2) intermittent stretches with intervening ephemeral stretches. These two classes of interrupted streams are designated, respectively, *perennial interrupted streams* and *intermittent interrupted streams*. A *continuous stream* does not have interruptions in space. It may be perennial, intermittent, or ephemeral, but it does not habitually have wet and dry stretches.

INSTRUMENTATION describes the type of runoff control or measuring device, number and type of precipitation gages, type of charts used, and snow courses, if employed.

WATERSHED CONDITIONS describes the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a significant relationship to the hydrology of the watershed are mentioned.

GENERALLY REPRESENTS gives the broad area of application for which the data of the specific watershed are recommended. The land resource areas named are those delineated on the map titled "Location of Experimental Agricultural Watersheds of the Agricultural Research Service," on pages 20 and 21. Solid circles show the approximate locations of the continuing or new watersheds; open circles show approximate locations of the discontinued studies. For a few studies the circles indicate the locations of the project headquarters instead of the watershed locations. A larger index map with more detail is included in reference 4.

For some studies there is an apparent contradiction between the watershed location on the maps and the descriptive information under Generally Represents. This is caused by the small scale of maps; it is difficult to show many small local variations in boundaries of the land resources areas. The descriptive statements, instead of the map location, should be the guide to the application of the data.

STANDARD SYMBOLS FOR TABULAR DATA

The following capital letters have been used as standard symbols throughout this publication to designate specific items or meanings:

<i>Symbol</i>	<i>Meaning</i>
E	— value is estimated or partially estimated.
H	— precipitation in form of hail.
L	— precipitation in form of sleet or freezing rain.
M	— mixed precipitation in form of rain, snow, and sleet.
N	— precipitation in form of rain and snow.
P	— monthly or annual precipitation in inches.
Q	— monthly or annual runoff in inches.
RG	— rain gage, generally followed by gage number.
S	— precipitation in form of snow.
STA AV (or AVG)	— station average for period of record.
T	— trace, indicates that the value is not large enough to round to the lowest significant digit. In some arrays a trace value is indicated by all zeros, with more than one zero located to the right of the decimal.

Time-of-day symbols or designations *a*, *p*, *m*, and *n* used in previous publications through

1961 have been discontinued, and military time (0001-2400) has been substituted in publications since then. Unless stated otherwise, time used in tables is eastern, central, mountain, or Pacific standard, whichever applies to the given location.

PERSONNEL RESPONSIBLE FOR COMPILATION

At each research location many individuals have contributed to the planning and establishment of the watersheds and the collection, compilation, and analysis of the data. Some of those who made substantial contributions to the success of the research work behind this report are—

<i>Name</i>	<i>Location</i>
Aurelius P. Barnett	10
James B. Burford, Jan C. Carr, Vernon O. Shanholtz	13
Jan C. Carr, J. B. Urban	16
Larry A. Kramer, Marion Mazzocco, Keith E. Saxton	21, 25, 71
Lloyd L. Harrold	26
Wendell R. Gwinn, William O. Ree, Francis L. Wimberly	37
Clarence W. Richardson, Dee Allen Wright	42
Orfelio Garcia, Leonard J. Lane	45, 47, 63, 64, 73
Gerald R. Bolton, William A. Champion, Robert Darden, Farris E. Dendy, Robert B. Wilson	62
Clayton L. Hanson, Armine R. Kuhlman	65, 72
Rodger DeAngelis, Douglas Grant	67
John M. Clark, Roger L. Engleman, Walter J. Rawls	68
Donn, G. DeCoursey, Monroe A. Hartman, Arlin D. Nicks, Edd D. Rhoades, Russel R. Schoof, Oscar D. Workman	69
Dee Allen Wright	70
Rebecca B. Slack, Thomas K. Woody, Paul Yates	75

ADDITIONAL PUBLICATIONS BY LOCATION

In references 1 and 4-11 (see pp. 1 and 2), citations to other publications that present watershed data and interpretations of results in various journals, bulletins, and periodicals are given at the end of the introductions for many of the locations. Following is a listing of publi-

cations that have resulted from related work through 1968 at the various locations. Several publications pertaining to the overall program of hydrology that do not apply to a specific location are included at the end of this listing under General References.

17. *Edwardsville, Illinois*
HOLTAN, H. N., and MINSHALL, N. E.
1968. PLOT SAMPLES OF WATERSHED HYDROLOGY. U.S. Dept. Agr. ARS 41-133, 206 pp.
26. *Coshocton, Ohio*
BENTZ, W. W., and AMERMAN, C. R.
1968. A TIPPING BUCKET DEVICE FOR MEASURING VERY LOW FLOWS. Agr. Engin. Instrument News Sect. 49 (12): 750-751, illus.
1968. INEXPENSIVE AUTOMATIC COVER FOR RAIN GAGE. U.S. Dept. Agr. ARS 41-146, 6 pp., illus.
- MUSTONEN, S. E., and MCGUINNESS, J. L.
1968. ESTIMATING EVAPOTRANSPIRATION IN A HUMID REGION. U.S. Dept. Agr. Tech. Bul. 1389, 123 pp., illus.
42. *Riesel, Texas*
KNISEL, W. G., JR., BAIRD, R. W., and RICHARDSON, C. W.
1968. LOW-COST WEIR FOR BASE FLOW SEPARATION. Civ. Engin. 38 (12): 60-61, illus.
- WILLIAMS, J. R.
1968. RUNOFF HYDROGRAPHS FROM SMALL TEXAS BLACKLANDS WATERSHEDS. U.S. Dept. Agr. ARS 41-143, 24 pp., illus.
44. *Hastings, Nebraska*
DRAGOUN, J. F., and KUHLMAN, A. R.
1968. EFFECT OF PASTURE MANAGEMENT PRACTICES ON RUNOFF. Soil and Water Conserv. Jour. 23 (2): 55-57, illus.
62. *Oxford, Mississippi*
CARTER, C. E., DOTY, C. W., and CARROLL, B. R.
1968. RUNOFF AND EROSION CHARACTERISTICS OF THE BROWN LOAM SOILS. Agr. Engin. 49 (5): 296.
- DENDY, F. E.
1968. SEDIMENTATION IN THE NATION'S RESERVOIRS. Soil and Water Conserv. Jour. 23 (4): 135-137, illus.
- HAPP, S. C.
1968. VALLEY SEDIMENTATION IN NORTH-CENTRAL MISSISSIPPI. Third Miss. Water Resources Res. Inst. Conf. Proc. 1968, 8 pp., illus.
- MCHENERY, J. R.
1968. USE OF TRACER TECHNIQUE IN SOIL EROSION RESEARCH. Amer. Soc. Agr. Engin. Trans. 11 (5): 619-625, illus.
- MURPHREE, C. E., BOLTON, C. G., MCHENERY, J. R., and PARSONS, D. A.
1968. FIELD TEST OF AN X-RAY SEDIMENT-CONCENTRATION GAGE. Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 94 (HY 2): 515-528, illus.
63. *Tombstone, Arizona*
LIBBY, FRED.
1968. AN AUTOMATIC BEDLOAD SEDIMENT SAMPLER. Agr. Engin., Instrument News Sect. 49 (9): 524-525, illus.
- OSBORN, H. B.
1968. PERSISTENCE OF SUMMER RAINY AND DROUGHT PERIODS ON A SEMIARID RANGELAND WATERSHED. Internatl. Assoc. Sci. Hydrol. Bul. XIII: 14-19, illus.
- and HICKOK, R. B.
1968. VARIABILITY OF RAINFALL AFFECTING RUNOFF FROM A SEMIARID RANGELAND WATERSHED. Water Resources Res. 4 (1): 199-203.
64. *Santa Rosa, New Mexico*
DRISSEL, J. C., and OSBORN, H. B.
1968. VARIABILITY OF RAINFALL PRODUCING RUNOFF FROM A SEMIARID RANGELAND WATERSHED, ALAMOGORDO CREEK, NEW MEXICO. Hydrol. Jour. 6 (2): 194-201.
67. *North Danville, Vermont*
JOHNSON, M. L., and ANDERSON, ERIC.
1968. THE COOPERATIVE SNOW HYDROLOGY PROJECT—ESSA WEATHER BUREAU AND ARS SLEEPERS RIVER WATERSHED. East. Snow Conf. Proc. 1968, pp. 13-23, illus.
69. *Chickasha, Oklahoma*
BLANCHARD, B. J., and DECOURSEY, D. G.
1968. A TECHNIQUE FOR MEASURING RAPIDLY CHANGING STREAMFLOW. U.S. Dept. Agr. ARS 41-145, 7 pp., illus.
- HARTMAN, M. A.
1968. UPSTREAM FLOOD CONTROL EFFECTS ON RIVER BASIN HYDROLOGY. Agr. Engin. 49 (2): 80-81, illus.
- SCHOOF, R. R., and CROW, F. R.
1968. DISCUSSION: "ARE INDIVIDUAL CURRENT-METER RATINGS NECESSARY." Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 94 (HY 6): 1596-1601, illus.
- SEELY, E. H., NICKS, A. D., and others.
1968. ELECTRONIC DATA PROCESSING SYSTEM FOR STREAMFLOW. Amer. Water Resources Conf. Proc. 4 (4): 54-63, illus.
71. *Treynor, Iowa*
PIEST, R. F., and SPOMER, R. G.
1968. SHEET AND GULLY EROSION IN THE MISSOURI VALLEY LOESSIAL REGION. Amer. Soc. Agr. Engin. Trans. 11 (6): 850-853, illus.
- SAXTON, K. E., and SPOMER, R. G.
1968. EFFECTS OF CONSERVATION ON THE HYDROLOGY OF LOESSIAL WATERSHEDS. Amer. Soc. Agr. Engin. Trans. 11 (6): 848-849, 853, illus.

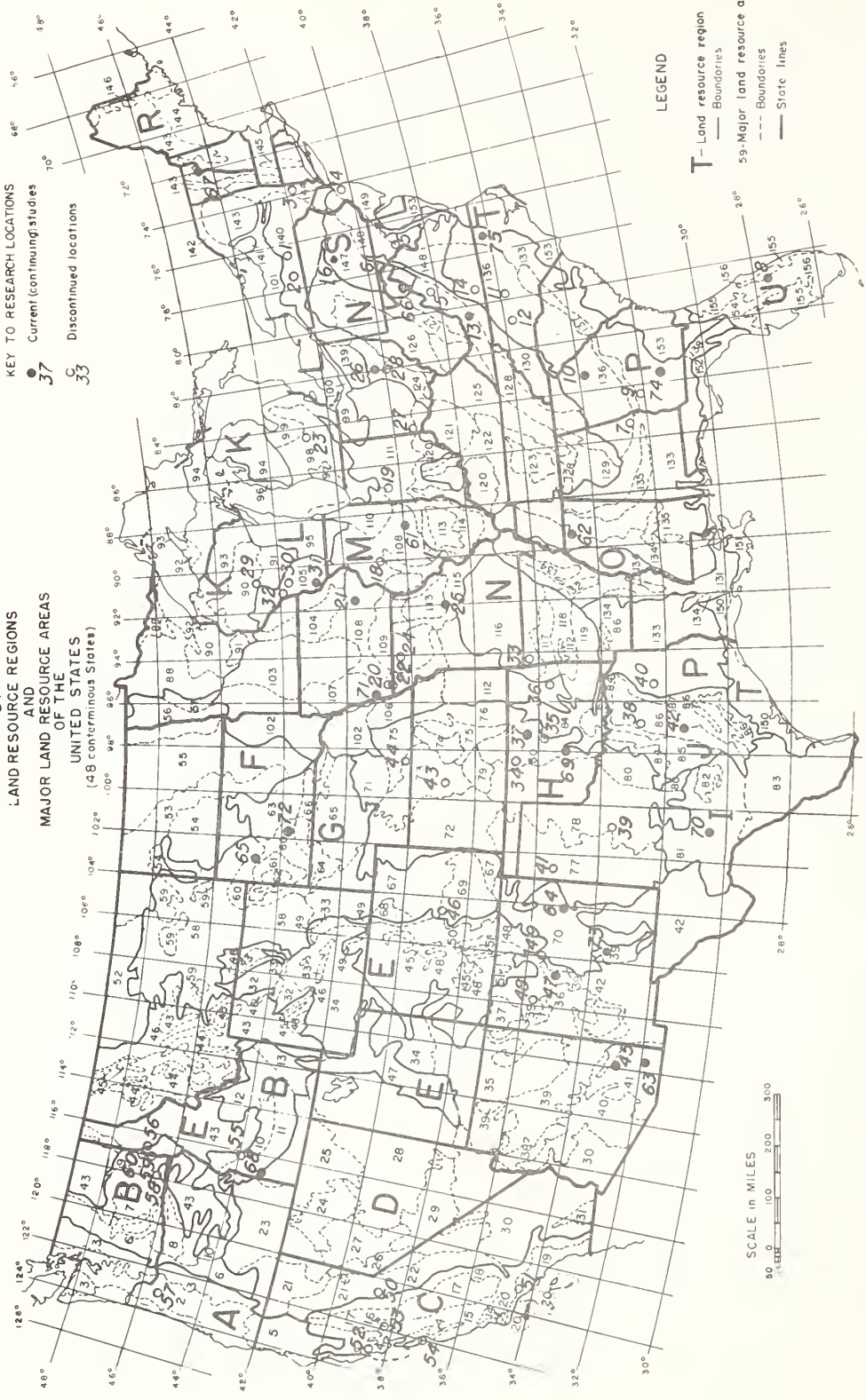
General References

- BORNSTEIN, JOSEPH, and BENOIT, G. R.
1968. SOIL DRAINAGE—KEY TO BETTER FARMING. *Vt. Farm and Home Sci.* 10 (2): 9–10, illus.
- BRAKENSIEK, D. L., and ONSTAD, C. A.
1968. THE SYNTHESIS OF DISTRIBUTED INPUTS FOR HYDROGRAPH PREDICTIONS. *Water Resources Res.* 4 (1): 79–85, illus.
- CHERY, D. L., Jr.
1968. THE ASSISTANCE OF DIGITAL COMPUTERS IN HYDROLOGIC RESEARCH AND ITS CONSEQUENCES. *Internatl. Assoc. Sci. Hydrol. Symp. on Use of Analog and Digital Computers in Hydrol. Proc.* 1968, pp. 198–202.
- COX, M. B.
1968. CONSERVATION BENCH TERRACES IN KANSAS. *Amer. Soc. Agr. Engin. Trans.* 11 (3): 387–388, illus.
- DECOURSEY, D. G.
1968. APPLICATIONS OF COMPUTER TECHNOLOGY TO HYDROLOGIC MODEL BUILDING. *Internatl. Assoc. Sci. Hydrol. Symp. on Use of Analog and Digital Computers in Hydrol. Proc.* 1968, pp. 233–239, illus.
- DEDRICK, A. R.
1968. ANALYZING EROSION AND RUNOFF DATA BY COMPUTER. *Agr. Engin.* 49 (8): 465.
- DORNHELM, R. B., and WOOLHISER, D. A.
1968. DIGITAL SIMULATION OF ESTUARINE WATER QUALITY. *Water Resources Res.* 4 (6): 1317–1328, illus.
- ENLAND, C. B., and ONSTAD, C. A.
1968. ISOLATION AND CHARACTERIZATION OF HYDROLOGIC RESPONSE UNITS WITHIN AGRICULTURAL WATERSHEDS. *Water Resources Res.* 4 (1): 73–77, illus.
- GLYMPH, L. M., and CARLSON, C. W.
1968. CLEANING UP OUR RIVERS AND LAKES. *Agr. Engin.* 49 (10): 590, 607.
- HEINEMANN, H. G.
1968. SOLVING SEDIMENTATION PROBLEMS IN AGRICULTURAL WATERSHEDS. *Soil Conserv. Soc. Amer. Proc.* 22, 7 pp., illus.
- HOLTAN, H. N., ENGLAND, C. B., LAWLESS, G. P., and SCHUMAKER, G. A.
1968. MOISTURE-TENSION DATA FOR SELECTED SOILS ON EXPERIMENTAL WATERSHEDS. *U.S. Dept. Agr. ARS 41–144*, 609 pp.
- HOWE, C. C., and HOUGHTON, R. J.
1968. THE TWIN-PROBE SNOW DENSITY GAGE. *East. Snow Conf. Proc.* 1968, pp. 61–72, illus.
- JAMIESON, D. G., and ONSTAD, C. A.
1968. COMMENTS ON PAPER "LINEAR ANALYSIS OF HYDROGRAPHS" BY W. D. MITCHELL (SYMPOSIUM ON ANALYTICAL METHODS IN HYDROLOGY). *Water Resources Res.* 4 (4): 844–845.
- NIXON, P. R., and LAWLESS, G. P.
1968. ADVECTIVE INFLUENCES ON THE REDUCTION OF EVAPOTRANSPIRATION IN A COASTAL ENVIRONMENT. *Water Resources Res.* 4 (1): 39–46, illus.
- ONSTAD, C. A., and BRAKENSIEK, D. L.
1968. WATERSHED SIMULATION BY STREAM PATH ANALOGY. *Water Resources Res.* 4 (5): 965–971, illus.
- OVERTON, D. E.
1968. A LEAST-SQUARES HYDROGRAPH ANALYSIS OF COMPLEX STORMS ON SMALL AGRICULTURAL WATERSHEDS. *Water Resources Res.* 4 (5): 955–963, illus.
- RAUSCH, D. L., and HEINEMANN, H. G.
1968. RESERVOIR SEDIMENTATION SURVEY METHODS. *Mo. Agr. Expt. Sta. Res. Bul.* 939, 20 pp., illus.
- ROSA, J. M.
1968. WATER-YIELD MAPS FOR IDAHO. *U.S. Dept. Agr. ARS 41–141*, 15 pp., illus.
- SAXTON, K. E., and LENZ, A. T.
1968. ANTECEDENT RETENTION INDEXES PREDICT SOIL MOISTURE. (Digest) *Amer. Soc. Civ. Engin. Trans.* 133: 607–608.
- SCHOOF, R. R., and CROW, F. R.
1968. PRECISE DISCHARGE MEASUREMENTS FOR HYDROLOGIC RESEARCH. *Amer. Soc. Agr. Engin. Trans.* 11 (4): 458–460, 467, illus.
- SIGNOR, D. C., and HAUSER, V. L.
1968. ARTIFICIAL GROUND WATER RECHARGE THROUGH BASINS IN THE TEXAS HIGH PLAINS. *Tex. Agr. Expt. Sta. Misc. Pub.* 895, 8 pp., illus.
- SPANGLER, D. P., and LIBBY, F. J.
1968. APPLICATION OF THE GRAVITY SURVEY METHOD TO WATERSHED HYDROLOGY. *Ground Water* 6 (6): 21–26, illus.
- TIMMONS, D. R., and HOLT, R. F.
1968. SOIL WATER RECHARGE DURING THE DORMANT PERIOD IN THE NORTHWEST CORN BELT. *Soil and Water Conserv. Jour.* 23 (5): 177–180, illus.
- WALKER, K. C., and WADLEIGH, C. H.
1968. WATER POLLUTION FROM LAND RUNOFF. *Plant Food Rev.* 14 (1): 2–4, illus.
- WILLIS, J. C.
1968. A LAG-DEVIATION METHOD FOR ANALYZING CHANNEL BED FORMS. *Water Resources Res.* 4 (6): 1329–1334, illus.
- WOOLHISER, D. A., and LIGGETT, J. A.
1968. DISCUSSION: "A SOLUTION TO THE SURFACE RUNOFF PROBLEM." *Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour.* 94 (HY 6): 1578–1582.
- YATES, Paul, and STEPHENS, J. C.
1968. WATERSHED RESEARCH IN THE SOUTH-EAST. *In Hydrol. in Water Resources Mangt. Conf. Proc., Clemson Univ. Council Hydrol. Rpt.* 4: 54–76, illus.

UNITED STATES INDEX MAP AND RELATED DATA

[Pages 20 through 22]

LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE AGRICULTURAL RESEARCH SERVICE (1968)
 BY
 LAND RESOURCE REGIONS
 AND
 MAJOR LAND RESOURCE AREAS
 OF THE
 UNITED STATES
 (48 conterminous States)



U.S. Department of Agriculture

Land Resource Area delineations as determined by the Soil Conservation Service

LEGEND FOR LAND RESOURCE REGIONS AND MAJOR LAND RESOURCE AREAS
(of the 48 conterminous States)

<p>A</p> <p>NORTHWESTERN FOREST, FORAGE, AND SPECIALTY CROP REGION</p> <ol style="list-style-type: none"> Northern Pacific Coast Range and Valleys Willamette and Puget Sound Valleys Olympic and Western Slope Cascade Mountains California Coastal Redwood Belt Siskiyou-Trinity Area 	<p>F</p> <p>NORTHERN GREAT PLAINS SPRING WHEAT REGION</p> <ol style="list-style-type: none"> Brown Glaciated Plain Dark Brown Glaciated Plain Rolling Soft Shale Plain Black Glaciated Plains Red River Valley of the North Western Minnesota Forest-Prairie Transition 	<p>G</p> <p>WESTERN GREAT PLAINS RANGE AND IRRIGATED REGION</p> <ol style="list-style-type: none"> Northern Rolling High Plains Northern Shrub Steppe High Plains Black Hills Foothills and Badlands Black Hills Foothills Rolling Pierre Shale Plains Mixed Sandy and Silty Tableland Nebraska Sand Hills Dakota-Nebraska Eroded Tableland Central High Plains Irrigated Upper Platte River Valley Upper Arkansas Valley Rolling Plains Pecos-Canadian Plains and Valleys 	<p>H</p> <p>CENTRAL GREAT PLAINS WINTER WHEAT AND RANGE REGION</p> <ol style="list-style-type: none"> Central Nebraska Loess Hills Central High Tableland Rolling Plains and Braks Central Kansas Sandstone Hills Central Loess Plains Bluestem Hills Southern High Plains Central Rolling Red Plains Great Bend Sand Plains Central Rolling Red Prairies 	<p>I</p> <p>SOUTHWESTERN PLATEAUS AND PLAINS, RANGE AND COTTON REGION</p> <ol style="list-style-type: none"> Edwards Plateau Rio Grande Plain 	<p>B</p> <p>NORTHWESTERN WHEAT AND RANGE REGION</p> <ol style="list-style-type: none"> Eastern Slope Cascade Mountains Columbia Basin Columbia Plateau Palouse and Nez-Perce Prairies Upper Snake River Lava Plains and Hills Snake River Plains Lost River Valleys and Mountains Eastern Idaho Plateaus 	<p>O</p> <p>MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION</p> <ol style="list-style-type: none"> Southern Mississippi Valley Alluvium Eastern Arkansas Prairies 	<p>P</p> <p>SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION</p> <ol style="list-style-type: none"> (See J Above) Southern Coastal Plain Southern Mississippi Valley Silty Uplands Alabama and Mississippi Blackland Prairies Southern Piedmont Carolina and Georgia Sandhills North Central Florida Ridge 	<p>J</p> <p>SOUTHWESTERN PRAIRIES, COTTON, AND FORAGE REGION</p> <ol style="list-style-type: none"> Gross Timbers Grand Prairie Texas Blackland Prairie Texas Claypan Area 	<p>D</p> <p>WESTERN RANGE AND IRRIGATED REGION</p> <ol style="list-style-type: none"> Klamath and Shasta Valleys and Basins Sierra Nevada Range Humboldt High Plateau Humboldt Area Owyhee High Plateau Capitan Plateau Fall-Lovelock Area Great Salt Lake Area Southern Nevada Basin and Range Sonoran Basin and Range Imperial Valley Northern Intermountain Desertic Basins Semiarid Rocky Mountains Central Desertic Basins, Mountains and Plateaus (See E below) Colorado and Green River Plateaus New Mexico and Arizona Plateaus and Mesas San Juan River Valley Plateau Blair, Hager, and Cerbat Mountains Arizona and New Mexico Mountains Central Arizona Basin and Range Southeastern Arizona Basin and Range Southern Desertic Basins, Plains and Mountains 	<p>C</p> <p>CALIFORNIA SUBTROPICAL FRUIT, TRUCK AND SPECIALTY CROP REGION</p> <ol style="list-style-type: none"> Central California Valleys Central California Coast Range California Delta Sacramento and San Joaquin Valleys Sierra Nevada Foothills Southern California Coastal Plain Southern California Mountains 	<p>S</p> <p>NORTHERN ATLANTIC SLOPE TRUCK, FRUIT, AND POULTRY REGION</p> <ol style="list-style-type: none"> Northern Appalachian Ridges and Valleys Northern Piedmont Northern Coastal Plain 	<p>R</p> <p>NORTHEASTERN FORAGE AND FOREST REGION</p> <ol style="list-style-type: none"> Eastern Ohio Till Plain Glaciated Allegheny Plateau and Catskill Mountains York-Potomac Plateau Lawrence-Champlain Plain Northeastern Mountains New England and Eastern New York Upland Connecticut Valley Footloot Area 	<p>K</p> <p>NORTHERN LAKE STATES FOREST AND FORAGE REGION</p> <ol style="list-style-type: none"> Northern Minnesota Swamps and Lakes Minnesota Rockland Hills Central Wisconsin and Minnesota Thin Loess and Till Wisconsin and Minnesota Sandy Outwash Superior Lake Plain Northern Michigan and Wisconsin Stony, Sandy and Rocky Prairies Northern Michigan Sandy Drift 	<p>E</p> <p>ROCKY MOUNTAIN RANGE AND FOREST REGION</p> <ol style="list-style-type: none"> Northern Rocky Mountains Northern Rocky Mountain Valleys Alpine Meadows and Rockland Northern Rocky Mountain Foothills Kaasath and Uinta Mountains Southern Rocky Mountains San Juan Basin Plateau San Luis Valley High Intermountain Valleys 	<p>N</p> <p>EAST AND CENTRAL GENERAL FARMING AND FOREST REGION</p> <ol style="list-style-type: none"> (See M Above) Ozark Highland Boston Mountains Arkansas Valley and Ridges Ohio-Indiana Sandstone and Shale Hills and Valleys Kentucky and Indiana Sandstone and Shale Hills and Valleys Bluegrass Plateau Highland Ridges and Pennsylvania Nashville Basin Western Allegheny Plateau Cumberland Plateau and Mountains Central Allegheny Plateau Central Allegheny Plateau and Mountains Eastern Allegheny Plateau and Mountains Southern Appalachian Ridges and Valleys Sand Mountain Blue Ridge 	<p>U</p> <p>FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION</p> <ol style="list-style-type: none"> South Central Florida Ridge Southern Florida Flatwoods Florida Everglades and Associated Areas 	<p>T</p> <p>ATLANTIC AND GULF COAST LOWLANDS, FOREST AND TRUCK CROP REGION</p> <ol style="list-style-type: none"> Gulf Coast Prairies Gulf Coast Marsh Coastal Forests Atlantic Coast Flatwoods 	<p>L</p> <p>LAKE STATES FRUIT, TRUCK, AND DAIRY REGION</p> <ol style="list-style-type: none"> Southeastern Wisconsin Drift Plain Western Michigan Fruit Belt Southwestern Michigan Fruit and Truck Belt Southern Michigan Drift Plain Erie-Huron Lake Plain Erie Fruit and Truck Area Ontario-Mohawk Plain 	<p>M</p> <p>CENTRAL FEED GRAINS AND LIVESTOCK REGION</p> <ol style="list-style-type: none"> Loess, Till, and Sandy Prairies Central Iowa and Minnesota Till Prairies Eastern Iowa and Minnesota Till Prairies
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Compiled by Morris E. Austin
Information from SCS, State, and other Offices

Table 3. Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1968 and included in this publication

State	Locality	Assigned location number	Major land resource area ^{1/}	Watershed units	Events reported	Pages
Arizona.....	Tombstone.....	63	D-41	10	18	281-325
Georgia.....	Watkinsville.....	10	P-136	1	3	24-29
Idaho.....	Reynolds.....	68	D-23, D-25	8	7	360-392
Iowa.....	Iowa City.....	21	M-108	1	0	79-80
	Treynor.....	71	M-107	5	4	508-522
Mississippi....	Oxford.....	62	P-133, P-134	2/12	12	245-260
Missouri.....	McCredie.....	25	M-113	1	1	61-84
New Mexico.....	Albuquerque.....	47	D-42	3	3	234-244
	Santa Rosa.....	64	G-70	1	1	326-330
North Carolina	Anoskie.....	75	P-133	4	4	531-542
Ohio.....	Coshocton.....	26	N-124	3/33	0	65-150
Oklahoma.....	Cnickasha.....	69	H-78, H-80, J-84	33	29	393-474
	Stillwater.....	37	H-80	3	4	151-160
Pennsylvania...	Klingerstown.....	16	S-147	1	1	70-76
South Dakota...	Hewell.....	65	G-58, G-59, G-60	7	0	331-344
	Cottonwood.....	72	G-60	3	2	523-530
Texas.....	Riesel (Waco).....	42	J-86	20	20	161-233
	Sonora.....	70	I-81	13	10	475-507
Vermont.....	North Danville.....	67	R-144	5	5	345-359
Virginia.....	Blacksburg.....	13	N-128, S-147, N-130, P-136, S-148	4/10	10	30-69

^{1/} See location map (p.20) and legend (p.21).

^{2/} 3 watersheds (Oxford, Miss.) discontinued Sept. 1968.

^{3/} 1 watershed (Coshocton, Ohio) discontinued Jan. 1968 and 1 not reported for 1968.

^{4/} 4 watersheds (Blacksburg, Va.) discontinued Jan. 1968.

Table 4. watersheds, listed by State and locality, where observations were discontinued during 1967^{1/}

State	Locality	Major land resource area ^{2/}	Number	Discontinued watershed units	
				Record period (19--)	Assigned location and watershed number
Mississippi....	Oxford.....	P-133, P-134	3	58-67	62.13-62.15
Nebraska.....	Hastings.....	H-71, H-73, H-74	12	39-67	44.1, 44.3-44.12, 44.22
			3	62-67	44.26, 44.27, 44.29
Ohio.....	Coshocton....	N-124	1	36-67	26.26, ^{3/} 26.37
Oklahoma.....	Cherokee.....	H-80	6	60-67	34.10-34.15
Virginia.....	Blacksburg...	N-138, S-147	1	40-67	13.2
			3	52-67	13.3, 13.4, 13.5
West Virginia...	Moorefield...	N-128, S-147	4	58-67	66.1, 66.2, 66.4, 66.5
Wisconsin.....	Fennimore....	M-105	4	38-67	31.1-31.4

^{1/} For discontinued watershed studies prior to 1967, see tables in previous publications.

^{2/} See location map (p. 20) and legend (p. 21).

^{3/} Data obtained but not reported in 1968.

**WATERSHED DATA BY LOCATION NUMBER
AND
DECIMAL PAGING**

[10.001-1 TO 75.004-3, A TOTAL OF 519 DATA SHEETS]

For location by States and Land Resource Areas
and Regions, see U.S. Index Map, page 20.

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

LOCATION: Oconee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Oconee River Basin.

AREA: 19.20 acres

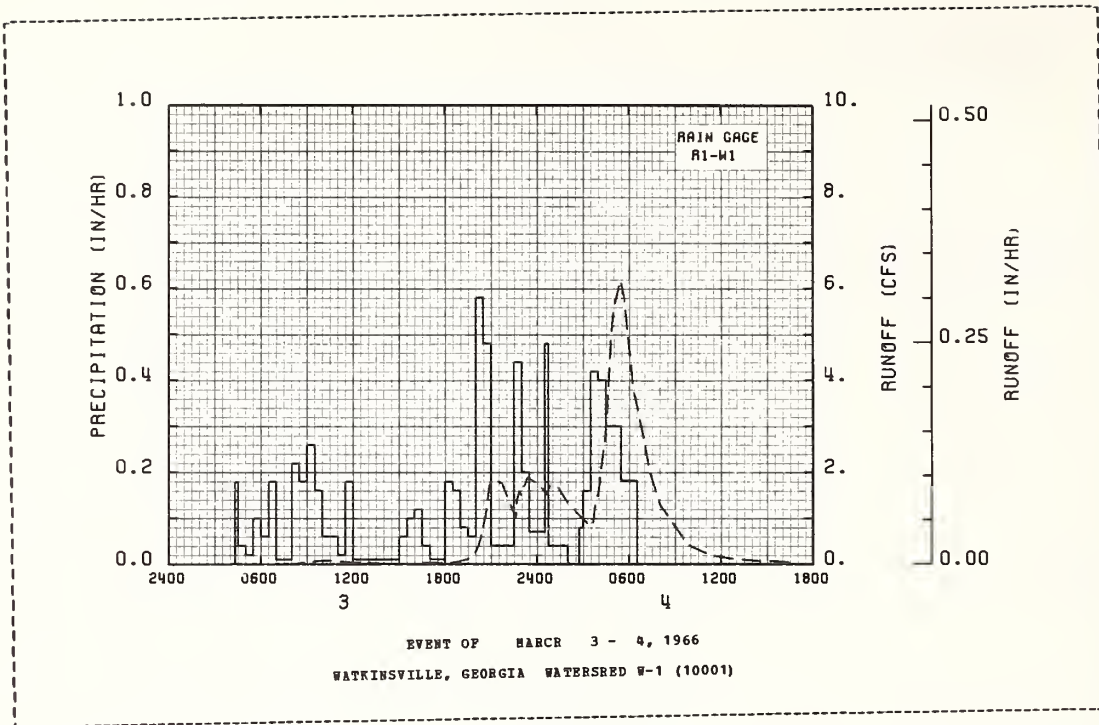
MONTHLY PRECIPITATION AND RDNROFF (inches)													WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1965	P	1.89	4.96	5.59	3.16	1.72	4.65	4.91	0.95	3.06	2.87	1.20	1.18	36.14
	Q	0.001	0.030	0.080	0.001	0.0	0.001	0.001	0.0	0.001	0.001	0.0	0.0	0.116
1966	P	6.95	7.45	4.18	4.57	8.78	2.87	1.82	2.13	2.50	3.96	3.55	4.41	53.17
	Q	0.210	1.210	1.460	0.070	2.110	0.001	0.0	0.0	0.0	0.001	0.0	0.080	5.082
1967	P	4.27	4.42	2.63	4.03	4.78	6.26	7.34	5.59	1.43	3.68	6.64	6.06	57.13
	Q	0.100	0.050	0.070	0.010	0.0	0.510	0.020	0.200	0.0	0.001	0.690	0.450	2.101
1968	P	4.62	1.33	4.18	5.22	4.61	2.64	4.67	3.56	3.33	3.15	5.47	5.04	47.82
	Q	0.440	0.0	0.140	0.001	0.001	0.0	0.001	0.0	0.001	0.0	0.030	0.060	0.674
STA AV	P	4.80	4.76	5.91	4.52	3.84	3.84	5.17	3.75	3.00	2.82	3.64	4.58	50.64
	Q	0.474	0.415	0.638	0.475	0.409	0.242	0.423	0.352	0.026	0.069	0.327	0.253	4.103

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RDNROFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	18ours				24ours				Maximum Volume for Selected Time Interval						
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1965	3-17	0.040	3-17	0.010	3-17	0.020	3-17	0.050	3-17	0.050	3-17	0.050	3-17	0.050	3-17	0.050
1966	5-27	0.670	5-27	0.570	5-27	0.970	5-27	1.600	5-27	1.670	5-27	2.130	5-27	2.170	5-27	2.170
1967	11-24	0.210	11-24	0.210	11-24	0.380	11-24	0.660	11-24	0.690	11-24	0.690	11-24	0.800	11-24	0.800
1968	1-10	0.050	1-10	0.060	1-10	0.090	1-10	0.220	1-10	0.220	1-10	0.230	1-9	0.380	1-4	0.380
MAXIMUMS FOR PERIOD OF RECORD																
	4-25	2.710	6-26	1.840	6-26	2.540	6-26	3.480	6-26	3.740	6-26	3.780	11-26	5.680	11-22	6.640
	1945		1963		1963		1963		1963		1963		1948		1948	

NOTES: Watershed conditions: 1965: Excellent coastal bermudagrass pasture; overseeded previous fall with rye. Moderately grazed with beef cattle, Feb.-Mar. (846 cow-days); heavily grazed, June-Nov. (4,624 cow-days). Oversown with rye in November. Fertilized with 500 lb/ac 5-10-15 in May, 79 lb/ac N applied Mar. and Aug. 1966: Excellent coastal bermudagrass cover, with fair to good grass pasture for grazing, with rye in spring. Grazed Mar.-Nov. (6,153 cow-days), with no hay cut. 60 lb/ac N applied in Feb. and Aug., no complete fertilizer applied this year. 1967: Excellent coastal bermudagrass pasture grazed by beef cattle. Grazed April 12-17 and May 1-12 (637 cow-days). Grazed Sept. 22-Oct. 23 (1200 cow-days). Rye harvest: June 23, 1.8 tons/ac; Aug. 8, 1.2 tons/ac; Sept. 18, 0.8 tons/ac. Fertilizer Apr. 7, 619 lb/ac 10-10-10; 52 lb/ac N applied June 29 and 33 lb/ac N applied Aug. 14. 1968: Excellent coastal bermudagrass pasture grazed by beef cattle; Jan. 29-Feb. 3 (159 cow-days); Mar. 29-Apr. 9 (312 cow-days); Aug. 25-Sept. 22 (754 cow-days) and Oct. 21-Nov. 4 (375 cow-days). Fertilized: Apr. 16, 233 lb/ac 33.5-0-0 nitrate broadcast; June 5, 361 lb/ac 15-0-15 fertilizer broadcast. June 1, harvested 1.7 tons/acre hay, and July 26, 2.0 tons/acre hay. For topographic map of watershed, see Hydrologic Data for Experimental Watersheds in the United States; 1956-59, DSDA Misc. Pub. 945, p. 10.1-8. P and Q records began Sept. 1, 1939. For long-time mean precipitation, see U. S. Weather Bureau records at Athens, Ga. (1885-1939) and Southern Piedmont Conservation Research Center (1940 to date).

1966			SELECTED RUNOFF EVENT										WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)		
ANTECEDENT CONDITIONS			RAINFALL						RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.					
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF MARCH 3 - 4, 1966															
3- 3	RG R1-W1 0.0	0.0	3- 3	RG R1-W1 420	0.0	0.0	3- 3	814	0.0	0.0					
				430	0.1800	0.03		830	0.03	0.0002					
				500	0.0400	0.05		845	0.04	0.0005					
				530	0.0200	0.06		900	0.04	0.0009					
				600	0.1000	0.11		914	0.04	0.0013					
WATERSHED CONDITIONS: Complete cover of coastal bermudagrass just beginning good early spring growth.															
				630	0.0600	0.14		934	0.07	0.0021					
				700	0.1800	0.23		956	0.08	0.0036					
				800	0.0100	0.24		1033	0.07	0.0058					
				830	0.2200	0.35		1155	0.03	0.0084					
				900	0.1800	0.44		1218	0.04	0.0090					
				930	0.2600	0.57		1355	0.0	0.0109					
				1000	0.1600	0.65		1445	0.0	0.0109					
				1100	0.0600	0.71		1557	0.01	0.0110					
				1130	0.0200	0.72		1636	0.03	0.0115					
				1200	0.1800	0.81		1703	0.04	0.0122					
				1500	0.0100	0.84		1730	0.02	0.0127					
				1530	0.0600	0.87		1814	0.02	0.0133					
				1600	0.1000	0.92		1837	0.04	0.0138					
				1630	0.1200	0.98		1901	0.08	0.0149					
				1700	0.0400	1.00		1928	0.12	0.0170					
				1800	0.0100	1.01		1946	0.17	0.0191					
				1830	0.1800	1.10		1954	0.21	0.0204					
				1900	0.1600	1.18		2011	0.42	0.0248					
				1930	0.0800	1.22		2020	0.59	0.0287					
				2000	0.0600	1.25		2040	1.09	0.0431					
				2030	0.5800	1.54		2053	1.71	0.0589					
				2100	0.4800	1.78		2107	1.86	0.0804					
				2230	0.0400	1.84		2137	1.76	0.1257					
				2300	0.4400	2.06		2144	1.77	0.1363					
				2330	0.2000	2.16		2214	1.31	0.1760					
			3- 4	30	0.1400	2.23		2237	1.02	0.1989					
				45	0.4800	2.35		2241	1.37	0.2030					
				200	0.0400	2.40		2251	1.61	0.2158					
				245	0.0	2.40		2258	1.51	0.2252					
				300	0.0800	2.42		2311	1.71	0.2432					
				330	0.1600	2.50		2313	1.73	0.2462					
				400	0.4200	2.71		2323	1.89	0.2618					
				430	0.4000	2.91	3- 4	10	1.71	0.3349					
				530	0.3000	3.21		39	1.51	0.3739					
				633	0.1810	3.40		50	1.71	0.3891					
								118	1.71	0.4303					
								142	1.49	0.4633					
								203	1.31	0.4885					
								256	0.99	0.5407					
								328	0.83	0.5656					
								339	0.87	0.5736					
								348	1.29	0.5822					
								359	1.51	0.5954					
								426	2.66	0.6437					
								435	3.24	0.6665					
								449	4.78	0.7146					
								459	5.50	0.7588					
								527	6.18	0.9014					
								541	5.89	0.9742					
								619	3.80	1.1342					
								636	3.34	1.1864					
								725	1.96	1.2980					
								802	1.28	1.3494					
								949	0.44	1.4232					
								1010	0.36	1.4304					
								1110	0.21	1.4450					
								1156	0.15	1.4520					
								1256	0.10	1.4581					
								1434	0.06	1.4641					
								1500	0.06	1.4653					
								1550	0.05	1.4675					
								1625	0.04	1.4688					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.051653.



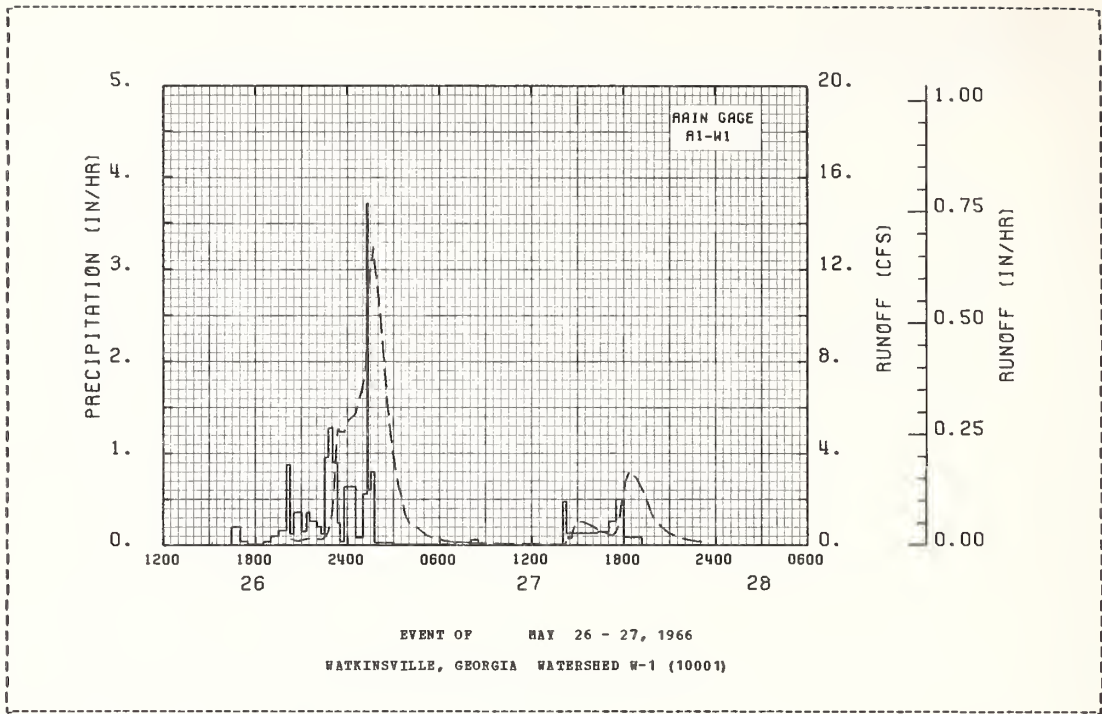
1966 SELECTED RDNFF EVENT WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)											
ANTECEDENT CONDITIONS			RAINFALL				RDNFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 26 - 27, 1966											
5-26	RG R1-W1 1.01	0.000	5-26	RG R1-W1 1627	0.0	0.0	5-26	1917	0.0	0.0	
				1700	0.2000	0.11		1958	0.05	0.0004	
				1730	0.0400	0.13		2005	0.10	0.0007	
				1830	0.0100	0.14		2010	0.15	0.0012	
				1900	0.0400	0.16		2019	0.27	0.0027	
				1930	0.1000	0.21		2033	0.20	0.0055	
				2000	0.1600	0.29		2045	0.19	0.0075	
				2015	0.8800	0.51		2106	0.26	0.0114	
				2030	0.1200	0.54		2128	0.31	0.0166	
				2100	0.3600	0.72		2154	0.27	0.0229	
				2120	0.1500	0.77		2225	0.29	0.0303	
				2130	0.3600	0.83		2245	0.63	0.0363	
				2200	0.2600	0.96		2256	1.14	0.0448	
				2215	0.2000	1.01		2300	1.65	0.0496	
				2230	0.1200	1.04		2307	2.59	0.0623	
				2245	0.9600	1.28		2317	4.38	0.0912	
				2300	1.2800	1.60		2319	4.73	0.0990	
				2320	0.9000	1.90		2323	5.10	0.1159	
				2330	0.2400	1.94		2329	4.93	0.1418	
				2345	0.0400	1.95		2347	4.92	0.2181	
			5-27	30	0.9600	2.43		2350	5.05	0.2310	
				100	0.0800	2.47	5-27	3	5.46	0.2898	
				115	0.5600	2.61		30	5.75	0.4155	
				120	3.7200	2.92		55	6.79	0.5479	
				130	0.6000	3.02		111	7.65	0.6453	
				145	0.8000	3.22		114	8.41	0.6660	
				300	0.0240	3.25		123	11.41	0.7439	
				530	0.0040	3.26		134	12.30	0.8561	
				700	0.0067	3.27		140	13.01	0.9214	
				800	0.0300	3.30		150	11.90	1.0285	
				830	0.0600	3.33		159	11.02	1.1173	
				1400	0.0	3.33		210	9.80	1.2159	
				1415	0.4800	3.45		223	7.89	1.3148	
				1615	0.1300	3.71		235	6.24	1.3877	
				1700	0.1467	3.82		248	4.84	1.4496	

WATERSHED CONDITIONS:
Good grazed coastal bermuda-grass complete cover.

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.051653.

1966			SELECTED RUNOFF EVENT			WATKINSVILLE, GEORGIA			WATERSHED #1 (10001)		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 26 - 27, 1966 (CONTINUED)											
5-27			1730		0.2600	3.95	5-27	302	3.67	1.5008	
			1800		0.5000	4.20		317	2.70	1.5418	
			1910		0.0857	4.30		335	1.88	1.5772	
								345	1.31	1.5909	
								410	0.79	1.6133	
								428	0.79	1.6254	
								508	0.43	1.6462	
								542	0.28	1.6565	
								610	0.21	1.6623	
								655	0.13	1.6686	
								805	0.08	1.6744	
								826	0.09	1.6758	
								915	0.07	1.6791	
								1115	0.04	1.6844	
								1215	0.03	1.6859	
								1330	0.01	1.6869	
								1410	0.02	1.6872	
								1413	0.15	1.6874	
								1417	0.35	1.6882	
								1420	0.46	1.6892	
								1423	0.29	1.6901	
								1427	0.37	1.6912	
								1434	0.31	1.6932	
								1441	0.64	1.6961	
								1453	1.02	1.7049	
								1520	1.02	1.7284	
								1525	0.97	1.7326	
								1559	0.80	1.7579	
								1630	0.58	1.7758	
								1706	0.45	1.7922	
								1719	0.44	1.7971	
								1734	0.74	1.8041	
								1740	0.97	1.8085	
								1748	1.57	1.8171	
								1753	1.99	1.8247	
								1806	2.78	1.8516	
								1823	3.24	1.8966	
								1838	3.04	1.9371	
								1852	2.88	1.9728	
								1911	2.46	2.0164	
								1953	1.26	2.0816	
								2028	0.78	2.1113	
								2059	0.51	2.1285	
								2129	0.36	2.1397	
								2203	0.24	2.1483	
								2234	0.18	2.1538	
								2317	0.12	2.1591	

NOTES: To convert runoff in CFS to IB/HR, multiply by 0.051653.



1967 SELECTED RUNOFF EVENT WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

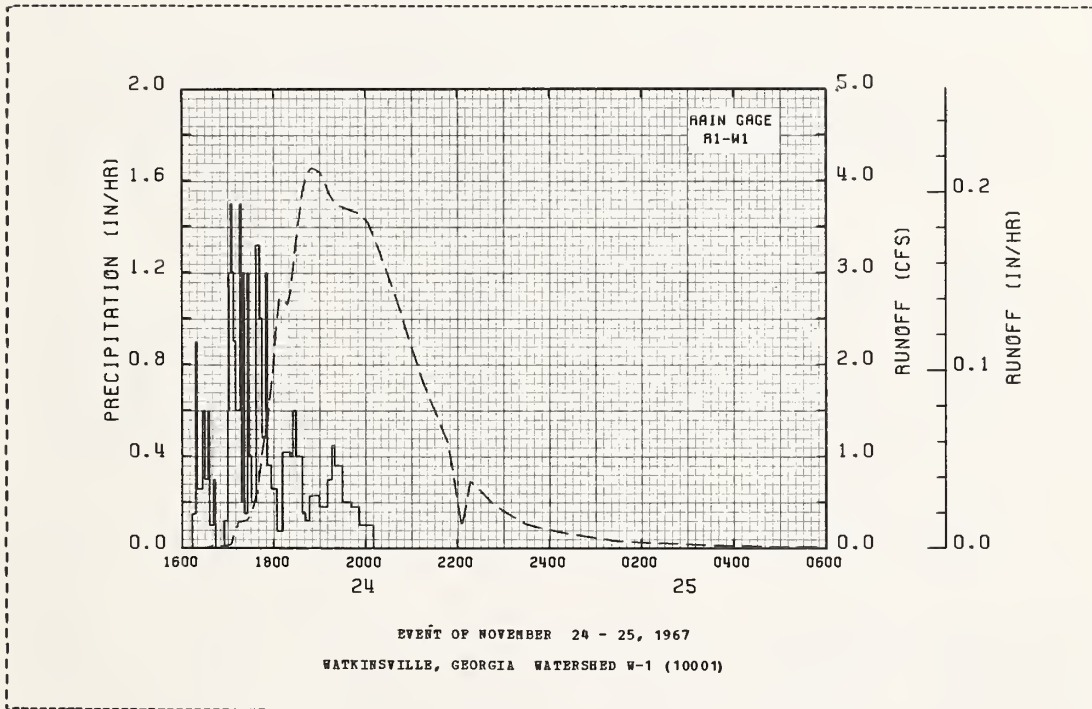
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 24 - 25, 1967										
11-24	RG R1-W1 0.59	0.005	11-24	RG R1-W1	0.0	0.0	11-24	1629	0.0	0.0
				1614	0.0	0.0		1640	0.03	0.0001
				1618	0.1500	0.01		1653	0.02	0.0003
				1620	0.9000	0.04		1705	0.05	0.0006
				1627	0.2571	0.07		1707	0.12	0.0007
				1630	0.6000	0.10				
				1634	0.3000	0.12		1711	0.18	0.0012
				1636	0.6000	0.14		1714	0.29	0.0018
				1642	0.1000	0.15		1725	0.31	0.0045
				1644	0.3000	0.16		1731	0.38	0.0063
				1655	0.0	0.16		1739	0.63	0.0097
				1700	0.1200	0.17		1745	1.02	0.0139
				1702	0.6000	0.19		1748	1.19	0.0167
				1704	1.2000	0.23		1752	1.38	0.0211
				1706	1.5000	0.28		1800	1.96	0.0326
				1708	1.2000	0.32		1804	2.43	0.0401
				1710	0.9000	0.35		1808	2.72	0.0490
				1716	0.6000	0.41		1812	2.72	0.0583
				1718	1.5000	0.46		1818	2.65	0.0721
				1721	0.2000	0.47		1822	2.78	0.0814
				1722	1.2000	0.49		1830	3.35	0.1025
				1726	0.1500	0.50		1839	3.91	0.1306
				1727	1.2000	0.52		1844	4.06	0.1477
				1728	1.2003	0.54		1850	4.14	0.1689
				1731	0.4000	0.56		1902	4.08	0.2113
				1737	0.2000	0.58		1914	3.84	0.2522
				1742	1.3200	0.69		1922	3.73	0.2782
				1745	1.0000	0.74		1953	3.63	0.3762
				1750	0.4800	0.78		2004	3.53	0.4100
				1752	1.2000	0.82		2020	3.20	0.4563
				1757	0.3600	0.85		2044	2.63	0.5164
				1804	0.2571	0.88		2057	2.27	0.5437
				1812	0.0750	0.89		2116	1.79	0.5768
				1822	0.4200	0.96		2148	1.15	0.6171
				1825	0.4000	0.98		2206	0.22	0.6326
				1829	0.6000	1.02		2217	0.73	0.6401

WATERSHED CONDITIONS:
Dormant coastal bermuda-
grass good cover.

NOTES: To convert runoff in CFS in IN/HR, multiply by 0.051653.

1967 SELECTED RUNOFF EVENT			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 24 - 25, 1967 (CONTINUED)											
			11-24	1838	0.4000	1.08	11-24	2246	0.49	0.6553	
				1842	0.1500	1.09		2304	0.38	0.6619	
				1847	0.1200	1.10		2324	0.28	0.6675	
				1900	0.2300	1.15		2329	0.26	0.6686	
				1910	0.1800	1.18		2351	0.21	0.6729	
				1916	0.3000	1.21	11-25	9	0.18	0.6758	
				1920	0.4500	1.24		29	0.15	0.6785	
				1930	0.3600	1.30		50	0.12	0.6808	
				1942	0.2000	1.34		130	0.07	0.6839	
				1952	0.1800	1.37		200	0.06	0.6855	
				2010	0.1000	1.40		300	0.04	0.6877	
								322	0.03	0.6883	
								405	0.02	0.6891	
								455	0.01	0.6896	
								556	0.01	0.6899	
								626	0.01	0.6900	

NOTES: To convert runoff in CFS in IN/HR, multiply by 0.051653.



BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)

LOCATION: Pulaski Co., Va.; 3.5 mi. W. of Dublin, Va., Peak Creek, New River.

AREA: 3054.00 acres 4.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)	
		Jau	Feh	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.77	0.43	3.64	3.65	4.53	1.20	5.09	5.48	1.11	4.29	1.78	1.18	35.16
	O	0.224	0.389	0.286	0.300	0.262	0.263	0.294	0.291	0.103	0.115	0.086	0.072	2.685
STA AV	P	2.26	2.77	3.44	2.80	3.53	2.18	3.31	4.05	3.47	2.83	2.38	2.77	35.78
	O	0.366	0.372	0.617	0.636	0.497	0.297	0.199	0.217	0.128	0.129	0.117	0.208	3.781

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Discharge Rate	Maximum Volume for Selected Time Interval														
		1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.								
1968	7-13	0.074	7-13	0.042	7-13	0.066	7-13	0.088	7-13	0.096	7-13	0.101	7-13	0.110	1-30	0.196
MAXIMUMS FOR PERIOD OF RECORD																
	5-17	0.120	5-17	0.100	5-17	0.180	5-17	0.300	5-17	0.340	5-17	0.380	5-17	0.470	3-30	1.090
	1958		1958		1958		1958		1958		1958		1958		1960	

NOTES: Watershed conditions: Pasture, usually good cover of bluegrass and other native grasses and clovers, 56%; corn, 10%; hay, 24%; farm woods, 5%; idle, 4%; roads, 1%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 13.6-5. Precipitation Thiessen weighted from rain gages R-1, R-2, and R-3. STA AV determined from continuous records from June 1957 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Radford, Virginia.

1968 DAILY PRECIPITATION (inches)													BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)	
Day	Jau	Feh	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.20	0.19	0.27E	0.0	0.0	0.14E	0.0	0.0	0.30E		
2	0.0	0.04E	0.0	0.00	0.0	0.18	0.73	0.45	0.0	0.0	0.0	0.0		
3	0.17E	0.0	0.0	0.53E	0.0	0.0	0.01E	0.44	0.0	0.13	0.0	0.16E		
4	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.03	0.07E		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.11M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.69	0.06	0.0		
7	0.02M	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.08	0.24	0.0		
8	0.0	0.0	0.0	0.19E	0.0	0.21	0.0	0.03	0.0	0.0	0.0	0.0		
9	0.12E	0.0	0.0	0.0	0.0	0.18	0.0	0.31	0.01	0.0	0.20M	0.0		
10	0.19E	0.0	0.34	0.24E	0.17	0.02	0.0	0.07	0.83	0.0	0.12M	0.0		
11	0.12E	0.0	0.26	0.01E	0.01	0.0	1.13	1.34	0.0	0.0	0.23S	0.0		
12	0.09E	0.0	1.27	0.0	0.08	0.0	0.04	0.0	0.0	0.0	0.45S	0.0		
13	1.61E	0.0	0.01	0.0	0.0	0.0	1.36	0.03	0.0	0.26E	0.0	0.0		
14	0.13E	0.0	0.0	0.42	0.79	0.0	0.0	0.22E	0.0	0.0	0.0	0.02E		
15	0.0	0.0	0.0	0.04	0.0	0.0	0.09E	0.41E	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.69	0.0	0.08	0.00	0.0	0.22E	0.0	0.37	0.0	0.0		
17	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.16E	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.64	0.30E	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.85	0.0	2.03	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.14	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.62		
23	0.00M	0.0	0.22	0.94E	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0		
24	0.18E	0.0	0.0	0.16E	0.45E	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.26E	0.05	0.83	0.0	0.08E	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.10	1.68E	0.0	0.69	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.01E	0.0	0.0		
29	0.0	0.39M	0.0	0.81E	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.02	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		2.77	0.43	3.64	3.65	4.53	1.20	5.09	5.48	1.11	4.29	1.78	1.18	
STA AV		2.26	2.77	3.44	2.80	3.53	2.18	3.31	4.05	3.47	2.83	2.38	2.77	

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period June 1957 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) ELACKSBURG, VIRGINIA TEORNE CREEK WATERSBED (13006)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.323	3.133	0.556	1.488	1.026	1.650	0.726	0.636	0.540	0.325	0.331	0.327
2	0.317	3.895	0.905	1.431	1.022	1.671	1.088	0.695	0.562	0.337	0.317	0.377
3	0.363	3.916	0.761	1.812	0.972	1.646	0.910	1.015	0.509	0.368	0.317	0.321
4	0.613	3.353	0.793	1.665	0.948	1.419	0.767	9.117	0.491	0.387	0.326	0.379
5	0.604	3.031	0.752	1.614	0.888	1.381	0.757	1.552	0.516	0.336	0.315	0.329
6	0.549	2.758	0.759	1.489	0.862	1.350	0.730	0.979	0.509	0.365	0.317	0.351
7	0.480	2.544	0.759	1.443	0.871	1.305	0.672	0.907	0.471	0.476	0.382	0.283
8	0.428	2.278	0.759	1.542	0.827	1.319	0.678	0.859	0.476	0.384	0.342	0.288
9	0.479	2.024	0.759	1.467	0.842	1.391	0.565	0.849	0.476	0.364	0.324	0.275
10	0.503	1.727	0.853	1.536	0.866	1.282	0.578	0.775	0.688	0.389	0.358	0.263
11	0.486	1.620	0.750	1.491	0.918	1.215	1.676	2.758	0.470	0.345	0.348	0.271
12	0.803	1.483	1.972	1.314	0.901	1.216	0.743	1.123	0.473	0.343	0.410	0.279
13	0.906	1.318	1.776	1.306	0.818	1.143	11.511	0.985	0.476	0.512	0.380	0.335
14	0.677	1.366	1.307	1.291	1.077	1.099	2.510	1.064	0.453	0.357	0.388	0.300
15	0.660	1.310	1.152	1.241	1.050	1.121	1.049	0.998	0.431	0.316	0.471	0.249
16	0.588	1.228	1.489	1.209	0.911	1.049	0.949	1.226	0.394	0.324	0.465	0.200
17	0.650	1.088	1.718	1.134	0.818	1.001	0.867	0.951	0.397	0.411	0.421	0.245
18	0.701	1.577	1.535	1.036	0.827	1.055	0.843	0.868	0.397	0.398	0.549	0.251
19	0.691	1.021	1.582	0.986	0.802	0.988	0.819	1.108	0.403	2.753	0.494	0.274
20	0.633	1.042	1.559	1.034	0.791	0.914	0.765	1.268	0.427	0.769	0.404	0.277
21	0.724	1.036	1.471	0.994	0.727	0.909	0.723	0.854	0.396	0.510	0.403	0.257
22	1.024	0.945	1.431	0.947	0.686	0.889	0.697	0.812	0.389	0.493	0.390	0.406
23	1.903	0.939	1.598	1.196	0.664	0.905	0.698	0.786	0.338	0.475	0.356	0.315
24	1.756	0.974	1.419	1.405	0.799	0.884	0.688	0.791	0.357	0.460	0.357	0.246
25	1.609	0.934	1.290	1.025	0.730	0.901	0.625	0.704	0.357	0.430	0.333	0.237
26	1.435	0.827	1.196	0.990	0.717	0.875	0.724	0.635	0.385	0.395	0.317	0.243
27	1.369	0.879	1.193	0.992	4.348	0.863	1.499	0.642	0.378	0.397	0.317	0.281
28	1.302	0.938	1.123	0.991	1.434	0.770	0.744	0.594	0.357	0.377	0.318	0.466
29	1.442	0.736	1.124	1.328	1.532	0.763	0.696	0.575	0.357	0.357	0.306	0.300
30	1.911		1.109	1.147	2.355	0.747	0.696	0.576	0.341	0.348	0.299	0.314
31	2.778		1.289		1.702		0.691	0.576		0.336		0.316
MEAN	0.9261	1.7215	1.1850	1.2848	1.0849	1.1239	1.2156	1.2025	0.4405	0.4761	0.3685	0.2986
INCEES	0.224	0.389	0.286	0.300	0.262	0.263	0.294	0.291	0.103	0.115	0.086	0.072
STA AV	0.366	0.372	0.617	0.636	0.497	0.297	0.199	0.217	0.128	0.129	0.117	0.208

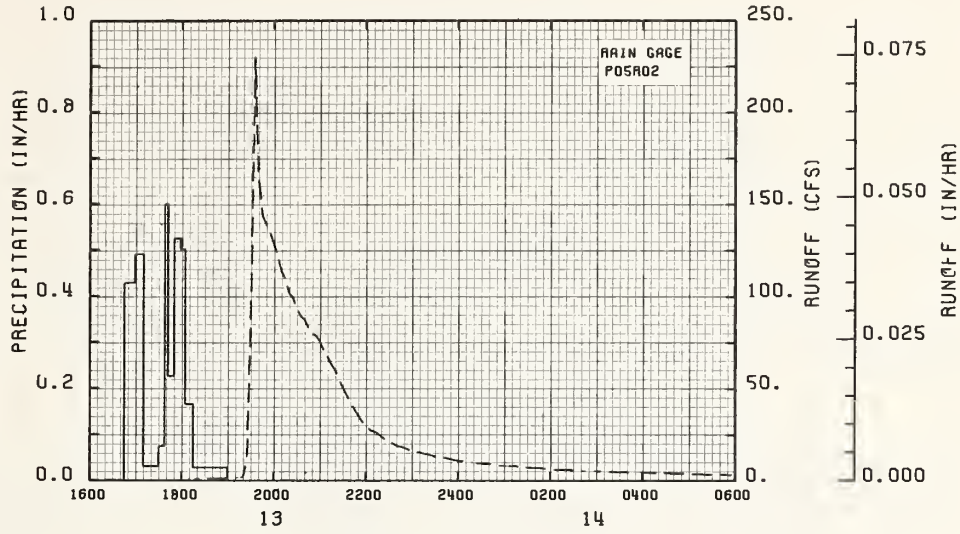
NOTES: To convert CFS to IN/DAY, multiply by 0.0077928. STA AV based on record period June 1957 through 1968.

1968 SELECTED RUNOFF EVENT ELACKSBURG, VIRGINIA TEORNE CREEK WATERSBED (13006)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 13 - 14, 1968												
7-13	RG P05R02	0.004	7-13	1645	0.0	0.0	7-13	1810	0.74	0.0		
				1659	0.4286	0.10		1820	1.04	0.0		
				1710	0.4907	0.19		1830	1.14	0.0001		
				1730	0.0300	0.20		1845	1.05	0.0002		
				1738	0.0750	0.21		1900	1.29	0.0003		
WATERSBED CONDITIONS:												
Pasture mostly a mixture of												
native grasses 6 to 8 in.												
high, fair to good cover 56%;												
hay, good cover, 24%; corn,												
4 to 5 ft. high, 10%; idle,												
good cover of weeds and												
grasses, 4%; woods, mostly												
hardwood, 5%; paved roads,												
1%.												
				1742	0.5997	0.25		1910	1.47	0.0004		
				1750	0.2251	0.28		1920	2.10	0.0005		
				1758	0.5247	0.35		1925	13.11	0.0007		
				1804	0.5000	0.40		1930	92.56	0.0022		
				1815	0.1637	0.43		1935	229.89	0.0065		
				1900	0.0267	0.45		1940	162.07	0.0117		
								1945	143.10	0.0160		
								1955	133.46	0.0234		
								2005	121.15	0.0303		
								2010	112.42	0.0334		
								2015	108.64	0.0365		
								2020	100.99	0.0393		
								2025	98.35	0.0420		
								2030	92.38	0.0447		
								2035	88.62	0.0471		
								2040	86.60	0.0494		
								2045	82.54	0.0518		
								2050	78.86	0.0539		
								2055	77.85	0.0560		
								2100	74.85	0.0581		
								2105	70.30	0.0600		
								2110	66.35	0.0618		
								2115	62.46	0.0636		
								2120	59.38	0.0652		
								2125	54.14	0.0667		
								2130	49.71	0.0681		
								2135	46.09	0.0694		
								2140	41.33	0.0706		
								2145	38.22	0.0717		
								2150	35.01	0.0727		

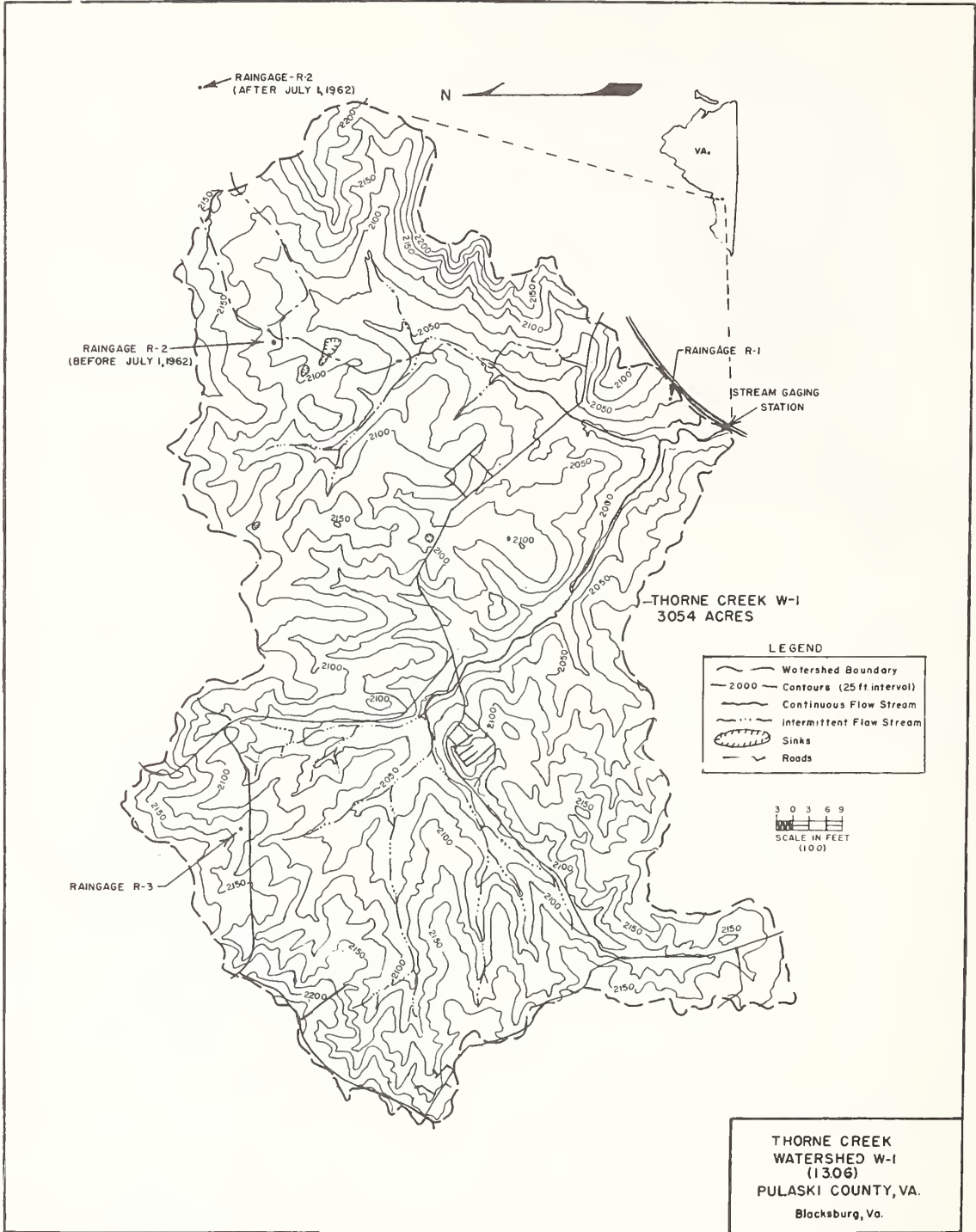
NOTES: To convert CFS to IN/HR, multiply by 0.0003247.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA TBOBNE CREEK WATERSBED (13006)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 13 - 14, 1968 (CONTINUED)										
							7-13	2155	31.51	0.0736
								2200	29.86	0.0745
								2205	27.25	0.0753
								2210	25.95	0.0760
								2215	25.14	0.0767
								2220	23.47	0.0773
								2225	21.99	0.0779
								2230	21.07	0.0785
								2235	19.86	0.0790
								2240	18.26	0.0795
								2245	18.09	0.0800
								2250	17.18	0.0805
								2255	16.40	0.0809
								2300	15.88	0.0814
								2310	14.63	0.0822
								2315	14.15	0.0826
								2325	13.34	0.0833
								2330	12.53	0.0837
								2340	12.33	0.0844
								2350	11.29	0.0850
							7-14	2400	10.35	0.0856
								5	10.35	0.0859
								15	9.72	0.0864
								25	9.10	0.0869
								35	8.83	0.0874
								45	8.55	0.0879
								55	7.75	0.0883
								105	7.51	0.0887
								115	7.51	0.0891
								125	6.98	0.0895
								135	6.46	0.0899
								145	6.50	0.0903
								155	6.03	0.0906
								205	5.62	0.0909
								215	5.65	0.0912
								225	5.44	0.0915
								235	5.23	0.0918
								245	5.01	0.0921
								255	4.80	0.0924
								305	4.67	0.0927
								320	4.50	0.0931
								330	4.33	0.0933
								345	4.24	0.0936
								400	4.07	0.0939
								415	3.83	0.0942
								425	3.66	0.0944
								440	3.57	0.0947
								455	3.40	0.0950
								510	3.23	0.0953
								525	3.06	0.0956
								540	2.94	0.0958
								555	2.85	0.0960
								615	2.75	0.0963
								635	2.62	0.0966
								655	2.50	0.0969
								715	2.37	0.0972
								735	2.28	0.0975
								805	2.18	0.0979
								835	2.05	0.0982
								905	1.94	0.0985
								945	1.87	0.0989
								1030	1.78	0.0993
								1120	1.69	0.0998
								1205	1.61	0.1002

NOTES: To convert CFS to IN/HR, multiply by 0.0003247.



EVENT OF JULY 13 - 14, 1968
 BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)



BLACKSBORG, VIRGINIA CRAB CREEK WATERSHED (13007)

LOCATION: Montgomery County, Va., 2 mi. W. of Christiansburg, Va., New River.

AREA: 786.00 acres 1.23 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													BLACKSBORG, VIRGINIA CRAB CREEK WATERSHED (13007)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	2.46	0.36	3.14	3.36	2.73	3.71	3.28	3.61	1.05	4.41	2.26	1.70	32.07	
1968 Q	0.531	0.605	0.621	0.384	0.257	0.204	0.141	0.151	0.094	0.146	0.203	0.165	3.502	
STA AV P	2.26	2.59	3.22	2.72	3.08	2.43	3.55	3.57	2.98	2.71	2.32	2.74	34.17	
STA AV Q	0.703	0.746	1.147	0.853	0.569	0.291	0.258	0.306	0.219	0.241	0.246	0.445	6.024	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968 3-12	0.008	3-12	0.008	3-12	0.016	3-12	0.041	3-12	0.062	3-12	0.086	1-31	0.155	1-29	0.413	
1966 8-21	0.230	1967 3-13	0.150	1967 3-13	0.230	1967 3-13	0.360	1960 4-3	0.420	1960 4-3	0.520	1960 4-3	0.730	1960 3-27	1.760	

NOTES: Watershed conditions: Cultivated, alfalfa and other hay crops, 28%; corn, 10%; permanent pasture, usually good cover of native bluegrass combined with other grasses and clovers, 43%; farm woods predominately hard wood, 13%; idle, 5%; roads, 1%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, DSDA Misc. Pub. 1194, p. 13.7-5. Precipitation Thiessen weighted from rain gauges R-1, R-2, R-3, and R-4. Station average precipitation determined from record period from August 1957 through 1968. For long-time precipitation records, see D.S. Weather Bureau records for Blacksburg, Virginia.

1968 DAILY AIR TEMPERATURE (degrees F)													BLACKSBORG, VIRGINIA CRAB CREEK WATERSHED (13007)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	29 19	37 33	27 16	56 44	74 46	77 41	90 61	82 62	62 51	77 44	72 44	31 26		
2	29 16	48 33	49 25	50 30	75 44	71 56	89 63	80 62	76 51	75 47	70 47	56 31		
3	43 22	43 28	28 17	51 36	76 52	74 57	68 56	78 62	80 47	68 48	69 43	44 36		
4	41 13	44 26	45 21	61 48	68 49	78 54	74 52	82 60	76 52	50 32	52 43	40 26		
5	28 9	50 20	55 28	56 35	60 38	78 51	73 54	88 61	75 60	55 24	55 46	37 25		
6	34 19	48 20	41 30	57 35	57 34	80 51	78 52	88 65	74 51	69 35	51 47	38 21		
7	33 9	44 21	51 26	64 40	62 38	76 54	81 51	88 64	76 46	62 44	53 41	31 18		
8	24 9	39 22	60 26	64 50	67 44	72 64	79 59	86 63	73 48	62 41	41 32	21 6		
9	31 16	34 19	69 38	60 50	69 47	73 64	75 55	83 64	69 53	56 48	36 29	25 12		
10	31 20	20 9	60 44	53 43	74 52	82 64	77 59	81 63	76 55	56 49	34 28	27 12		
11	22 9	21 9	62 44	55 35	69 55	80 62	69 60	67 57	64 49	71 50	33 28	36 8		
12	22 9	28 9	44 33	67 31	75 61	72 61	76 60	70 54	65 46	73 56	30 27	52 17		
13	30 16	20 10	43 18	72 41	80 57	67 52	82 62	79 56	71 41	75 52	32 25	53 38		
14	31 23	42 12	42 12	74 50	61 48	78 42	82 63	79 62	74 44	68 46	46 24	43 17		
15	30 22	34 22	52 28	50 36	81 48	84 51	85 60	81 64	75 46	65 55	56 36	20 11		
16	32 17	42 21	51 41	63 33	76 59	85 56	83 60	82 64	70 51	61 56	58 42	29 10		
17	41 12	37 14	52 39	62 42	68 53	75 57	84 62	86 66	72 53	70 59	54 45	41 19		
18	48 18	26 10	61 39	75 52	70 52	64 53	82 62	88 65	60 50	64 60	56 30	49 26		
19	44 21	38 13	74 37	73 53	69 47	79 55	80 60	92 62	69 52	64 44	34 22	58 38		
20	47 27	40 18	78 45	70 49	59 46	74 50	81 57	90 63	76 52	62 41	25 20	50 30		
21	50 37	18 9	77 52	77 52	58 40	76 44	84 53	87 68	77 48	66 43	41 17	48 25		
22	47 30	26 9	72 45	72 54	67 38	82 56	86 62	91 64	78 49	69 39	57 36	36 32		
23	44 25	36 10	45 20	57 48	71 53	86 60	86 61	88 67	84 47	64 44	59 28	44 22		
24	25 17	41 17	45 21	61 39	77 50	83 61	85 59	90 65	83 50	60 40	53 33	26 18		
25	34 16	32 18	56 29	58 37	64 57	83 62	83 62	86 62	81 50	46 32	45 31	26 14		
26	43 16	42 12	66 35	64 38	64 58	84 60	79 63	69 49	72 53	39 31	54 28	30 18		
27	51 17	43 17	72 39	61 40	63 48	73 52	76 63	68 45	72 45	59 28	51 34	52 27		
28	53 32	42 22	68 47	60 39	61 46	67 46	80 60	70 43	72 42	49 33	61 46	59 34		
29	60 28	33 17	74 48	47 42	71 49	85 49	76 57	70 42	72 44	37 32	57 34	34 23		
30	51 34		70 53	64 39	60 50	91 59	72 61	69 42	74 47	48 26	39 28	40 20		
31	45 34		69 50		64 50		80 63	69 47		64 25		40 25		
AV.	37 19	36 17	56 33	61 42	68 48	77 54	79 59	80 59	73 49	61 42	49 33	39 22		
MEAN	28.8	26.7	45.3	52.0	58.4	66.3	69.5	70.0	61.2	51.8	41.5	30.7		
STA AV	39 22	39 21	53 31	61 41	69 49	77 55	80 60	79 59	70 50	61 39	50 32	42 25		

NOTES: Temperature data obtained at the R-3 rain gage location. Station average is average for 4 yr period (1965-68).

1968 DAILY PRECIPITATION (inches)												
BLACKSBURG, VIRGINIA						CRAB CREEK WATERSHED (13007)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.22	0.10E	0.31	0.0	0.0	0.13E	0.0	0.0	0.27E
2	0.0	0.0	0.0	0.02	0.0	0.43	0.02E	0.63	0.0	0.0	0.0	0.01
3	0.27	0.0	0.0	0.48	0.0	0.01E	0.03E	0.13	0.0	0.12E	0.0	0.0
4	0.05	0.0	0.0	0.00	0.07E	0.0	0.0	0.28	0.0	0.0	0.23E	0.14E
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
6	0.08M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64E	0.02E	0.0
7	0.01M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.43E	0.0
8	0.0	0.0	0.0	0.08	0.0	0.64E	0.0	0.0	0.0	0.0	0.0	0.0
9	0.01M	0.01E	0.0	0.0	0.0	0.41	0.0	0.74	0.0	0.0	0.18M	0.0
10	0.08M	0.01E	0.28E	0.04E	0.09E	0.10	0.0	0.09	0.80	0.0	0.24M	0.0
11	0.14M	0.0	0.13	0.0	0.01	0.0	1.10	0.79	0.0	0.0	0.30S	0.0
12	0.0	0.0	1.25	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.32S	0.0
13	1.43M	0.0	0.02E	0.0	0.0	0.0	0.04E	0.0	0.0	0.00	0.0	0.08E
14	0.17M	0.0	0.0	0.01	0.62E	0.0	0.08E	0.11	0.0	0.0	0.0	0.04E
15	0.00	0.0	0.0	0.17	0.0	0.0	0.0	0.32	0.0	0.01E	0.0	0.0
16	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.03	0.0	0.14	0.00	0.0
17	0.0	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.09	0.10	0.0
18	0.0	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.0	1.03	0.35	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	2.30E	0.00	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.08M	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0	0.65
23	0.06M	0.0	0.32M	0.60	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.14M	0.0	0.0	0.42	0.07	0.62	0.0	0.0	0.0	0.05E	0.08E	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.19	0.93	0.35	0.0	0.11	0.0	0.0	0.0
27	0.0	0.0	0.0	0.16E	0.96	0.14	0.47	0.0	0.0	0.0	0.0	0.00
28	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.50
29	0.0	0.34M	0.0	1.04E	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.46	0.36	3.14	3.36	2.73	3.71	3.28	3.61	1.05	4.41	2.26	1.70
STA AV	2.26	2.59	3.22	2.72	3.08	2.43	3.55	3.57	2.98	2.71	2.32	2.74

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, R-3, and R-4. STA AV based on record period August 1957 through 1968.

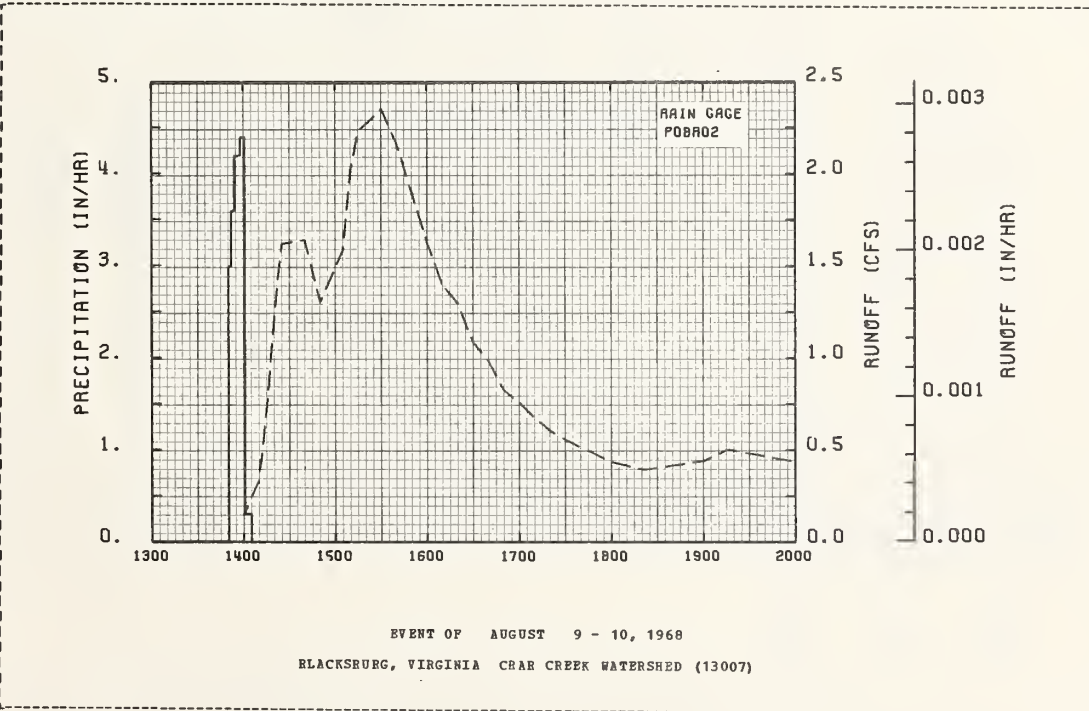
1968 MEAN DAILY DISCHARGE (cfs)												
BLACKSBURG, VIRGINIA						CRAB CREEK WATERSHED (13007)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.222	2.356	0.310	0.630	0.427	0.210	0.160	0.126	0.115	0.090	0.109	0.149
2	0.218	2.786	0.336	0.435	0.404	0.300	0.160	0.194	0.109	0.090	0.109	0.219
3	0.374	1.761	0.345	0.711	0.344	0.370	0.160	0.178	0.109	0.093	0.109	0.159
4	0.949	1.200	0.297	0.610	0.344	0.222	0.168	0.174	0.109	0.089	0.120	0.197
5	0.596	0.947	0.307	0.553	0.325	0.216	0.160	0.165	0.109	0.090	0.120	0.236
6	0.469	0.852	0.324	0.497	0.291	0.191	0.160	0.128	0.109	0.100	0.112	0.222
7	0.459	0.755	0.306	0.468	0.253	0.191	0.155	0.126	0.108	0.142	0.177	0.128
8	0.421	0.728	0.299	0.448	0.253	0.219	0.143	0.127	0.113	0.090	0.145	0.128
9	0.326	0.622	0.309	0.482	0.253	0.410	0.129	0.375	0.109	0.090	0.121	0.128
10	0.344	0.595	0.466	0.450	0.253	0.302	0.128	0.207	0.162	0.090	0.160	0.128
11	0.321	0.495	0.411	0.430	0.276	0.247	0.257	0.443	0.144	0.090	0.163	0.128
12	0.299	0.472	2.000	0.390	0.267	0.219	0.153	0.222	0.109	0.090	0.210	0.128
13	0.310	0.421	1.620	0.390	0.251	0.191	0.129	0.157	0.109	0.095	0.191	0.132
14	0.368	0.448	0.779	0.390	0.329	0.186	0.146	0.143	0.109	0.109	0.219	0.150
15	0.299	0.470	0.725	0.437	0.329	0.174	0.128	0.166	0.109	0.109	0.358	0.112
16	0.288	0.472	1.054	0.343	0.253	0.171	0.128	0.179	0.101	0.110	0.402	0.291
17	0.253	0.507	1.828	0.253	0.241	0.171	0.126	0.152	0.090	0.125	0.379	0.170
18	0.253	0.497	1.003	0.260	0.230	0.192	0.125	0.128	0.090	0.150	0.674	0.128
19	0.270	0.419	0.816	0.288	0.222	0.186	0.129	0.156	0.098	1.294	0.466	0.128
20	0.271	0.375	0.733	0.253	0.217	0.172	0.125	0.179	0.090	0.285	0.327	0.121
21	0.649	0.369	0.673	0.249	0.200	0.160	0.117	0.127	0.090	0.171	0.253	0.113
22	0.622	0.348	0.614	0.233	0.191	0.160	0.172	0.126	0.090	0.128	0.247	0.216
23	0.847	0.307	0.911	0.257	0.191	0.160	0.163	0.125	0.090	0.128	0.211	0.226
24	1.006	0.307	0.622	0.633	0.191	0.223	0.126	0.117	0.090	0.128	0.218	0.198
25	0.772	0.296	0.595	0.310	0.191	0.227	0.158	0.109	0.090	0.127	0.237	0.203
26	0.642	0.284	0.531	0.253	0.193	0.357	0.132	0.107	0.093	0.114	0.191	0.160
27	0.560	0.299	0.498	0.275	0.467	0.335	0.269	0.110	0.100	0.122	0.191	0.151
28	0.581	0.299	0.489	0.279	0.281	0.214	0.151	0.108	0.090	0.119	0.191	0.350
29	0.738	0.296	0.435	0.804	0.250	0.186	0.128	0.109	0.090	0.126	0.171	0.266
30	1.257	0.0	0.435	0.666	0.319	0.169	0.128	0.110	0.090	0.109	0.128	0.191
31	2.557	0.0	0.452	0.0	0.235	0.0	0.128	0.109	0.0	0.109	0.0	0.196
MEAN	0.5659	0.6891	0.6620	0.4227	0.2733	0.2243	0.1497	0.1608	0.1040	0.1550	0.2237	0.1761
INCHES	0.531	0.605	0.621	0.384	0.257	0.204	0.141	0.151	0.094	0.146	0.203	0.165
STA AV	0.703	0.746	1.147	0.853	0.569	0.291	0.258	0.306	0.219	0.241	0.246	0.445

NOTES: To convert CFS to IN/DAY, multiply by 0.030281. STA AV based on record period August 1957 through 1968.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CRAR CREEK WATERSHED (13007)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 9 - 10, 1968										
8-9	0.0	0.002	8-9	1350	0.0	0.0	8-9	1400	0.15	0.0
				1352	3.0000	0.10		1410	0.34	0.0001
				1354	3.6000	0.22		1415	0.72	0.0002
				1358	4.2000	0.50		1420	1.22	0.0003
				1401	4.4000	0.72		1425	1.62	0.0004
				1405	0.3003	0.74		1440	1.64	0.0009
								1450	1.30	0.0012
								1505	1.59	0.0017
								1510	2.02	0.0019
								1515	2.23	0.0021
								1530	2.35	0.0028
								1540	2.16	0.0033
								1550	1.89	0.0037
								1600	1.62	0.0041
								1610	1.39	0.0044
								1620	1.29	0.0047
								1630	1.08	0.0050
								1640	0.98	0.0052
								1650	0.82	0.0054
								1700	0.75	0.0056
								1710	0.67	0.0057
								1720	0.60	0.0058
								1730	0.55	0.0059
								1745	0.49	0.0061
								1800	0.43	0.0062
								1820	0.39	0.0064
								1900	0.44	0.0068
								1915	0.50	0.0069
								2000	0.43	0.0073
								2050	0.39	0.0077
								2145	0.34	0.0081
								2250	0.34	0.0086
								2400	0.29	0.0091
							8-10	25	0.25	0.0092
								320	0.25	0.0101
								745	0.22	0.0114
								1455	0.19	0.0133

WATERSHED CONDITIONS:
 Permanent pasture, blue grass combined with other native grasses and clover, good cover, 43%; corn, 8 to 10 ft. high, full tassel, some grass and weed undergrowth, fair cover, 10%; alfalfa and other hay, good cover, 28%; idle with weeds, grasses, and vines, good cover, 5%; farm woods predominately hard wood, 13%; paved roads, 1%.

NOTES: To convert CFS to IN/HR, multiply by 0.0012617.



BLACKSBURG, VIRGINIA BROSR CREEK WATERSBED (13008)

LOCATION: Floyd County, Va.; 1 mi. W. of Terrys Fork, Va. Little River, New River.

AREA: 893.00 acres 1.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														BLACKSBURG, VIRGINIA BROSR CREEK WATERSBED (13008)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.43	0.39	2.66	3.94	2.79	2.82	3.64	2.79	0.75	6.76	2.26	1.58	33.81															
	Q	1.533	1.173	1.619	1.407	1.160	0.940	0.706	0.619	0.332	1.286	1.156	0.964	12.893															
STA AV	P	2.31	2.86	3.22	2.95	3.43	2.21	3.79	3.77	3.57	3.07	2.50	2.83	36.52															
	Q	1.667	1.907	2.365	1.873	1.560	0.958	0.910	0.886	1.109	1.216	1.224	1.538	17.213															
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		10-19	0.071	10-19	0.069	10-19	0.129	10-19	0.277	10-19	0.442	10-18	0.570	10-18	0.669	10-17	0.859												
MAXIMUMS FOR PERIOD OF RECORD																													
		9-30	1.160	9-30	0.620	9-30	0.910	9-30	1.620	9-30	2.170	9-29	2.590	9-29	2.810	9-29	3.230												
		1959		1959		1959		1959		1959		1959		1959		1959													

NOTES: Watershed conditions: Permanent pasture, usually a fair cover of native grasses, 33%; farm woods, a mixture of hardwoods and conifers, 34%; corn, 4%; hay, 20%; idle land, 7%; roads, 2%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.8-5. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from August 1957 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Blacksburg, Virginia.

1968 DAILY PRECIPITATION (inches)														BLACKSBURG, VIRGINIA BROSR CREEK WATERSBED (13008)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.43	0.10E	0.16E	0.0	0.0	0.12	0.0	0.0	0.29		1	0.0	0.0	0.0	0.43	0.10E	0.16E	0.0	0.0	0.12	0.0	0.0	0.29	
2	0.0	0.05	0.01	0.05	0.0	0.19E	0.60	0.61	0.0	0.0	0.0	0.04		2	0.0	0.05	0.01	0.05	0.0	0.19E	0.60	0.61	0.0	0.0	0.0	0.04	
3	0.32	0.0	0.0	0.49	0.0	0.24	0.18	0.01	0.0	0.27	0.0	0.01		3	0.32	0.0	0.0	0.49	0.0	0.24	0.18	0.01	0.0	0.27	0.0	0.01	
4	0.07	0.0	0.0	0.19	0.0	0.0	0.0	0.61	0.0	0.0	0.08	0.07		4	0.07	0.0	0.0	0.19	0.0	0.0	0.0	0.61	0.0	0.0	0.08	0.07	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.01	0.0		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.01	0.0	
6	0.08H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.36	0.10	0.0		6	0.08H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.36	0.10	0.0	
7	0.04H	0.0	0.0	0.0	0.0	0.00	0.0	0.08	0.0	0.16	0.11	0.0		7	0.04H	0.0	0.0	0.0	0.0	0.00	0.0	0.08	0.0	0.16	0.11	0.0	
8	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	0.0		8	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.10H	0.0	0.0	0.0	0.0	0.20E	0.0	0.02	0.0	0.0	0.28H	0.0		9	0.10H	0.0	0.0	0.0	0.0	0.20E	0.0	0.02	0.0	0.0	0.28H	0.0	
10	0.11H	0.0	0.30E	0.23	0.18E	0.19	0.0	0.0	0.27	0.0	0.35H	0.0		10	0.11H	0.0	0.30E	0.23	0.18E	0.19	0.0	0.0	0.27	0.0	0.35H	0.0	
11	0.15H	0.0	0.17	0.0	0.03E	0.0	0.06	0.60	0.0	0.0	0.36S	0.0		11	0.15H	0.0	0.17	0.0	0.03E	0.0	0.06	0.60	0.0	0.0	0.36S	0.0	
12	0.0	0.0	0.84	0.0	0.0	0.0	0.02	0.0	0.0	0.10	0.45S	0.0		12	0.0	0.0	0.84	0.0	0.0	0.0	0.02	0.0	0.0	0.10	0.45S	0.0	
13	2.23H	0.0	0.0	0.0	0.0	0.0	0.79	0.03	0.0	0.06E	0.0	0.10E		13	2.23H	0.0	0.0	0.0	0.0	0.0	0.79	0.03	0.0	0.06E	0.0	0.10E	
14	0.12H	0.0	0.0	0.0	0.76E	0.0	0.14E	0.53	0.0	0.0	0.04E	0.0		14	0.12H	0.0	0.0	0.0	0.76E	0.0	0.14E	0.53	0.0	0.0	0.04E	0.0	
15	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0		15	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.72E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.02	0.0		16	0.0	0.0	0.72E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.02	0.0	
17	0.0	0.0	0.02E	0.0	0.0	0.28	0.0	0.0	0.0	0.39	0.05	0.0		17	0.0	0.0	0.02E	0.0	0.0	0.28	0.0	0.0	0.0	0.39	0.05	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	1.96E	0.31	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	1.96E	0.31	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	2.92E	0.0	0.0		19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	2.92E	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.16	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.51		22	0.0	0.0	0.16	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.51	
23	0.07H	0.0	0.32	0.32	0.02E	0.0	0.04	0.0	0.0	0.0	0.0	0.10		23	0.07H	0.0	0.32	0.32	0.02E	0.0	0.04	0.0	0.0	0.0	0.0	0.10	
24	0.14H	0.0	0.0	0.42	0.06E	0.0	0.0	0.0	0.0	0.23	0.13	0.0		24	0.14H	0.0	0.0	0.42	0.06E	0.0	0.0	0.0	0.0	0.23	0.13	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.30E	0.42	0.58	0.0	0.26	0.0	0.0	0.0		26	0.0	0.0	0.0	0.0	0.30E	0.42	0.58	0.0	0.26	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.22E	1.10E	0.0	0.08	0.0	0.0	0.0	0.0	0.0		27	0.0	0.0	0.0	0.22E	1.10E	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.43		28	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.43	
29	0.0	0.34H	0.0	1.41	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		29	0.0	0.34H	0.0	1.41	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.12	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0		31	0.0	0.0	0.12	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	
TOTAL		3.43	0.39	2.66	3.94	2.79	2.82	3.64	2.79	0.75	6.76	2.26	1.58	TOTAL		3.43	0.39	2.66	3.94	2.79	2.82	3.64	2.79	0.75	6.76	2.26	1.58
STA AV		2.31	2.86	3.22	2.95	3.43	2.21	3.79	3.77	3.57	3.07	2.50	2.83	STA AV		2.31	2.86	3.22	2.95	3.43	2.21	3.79	3.77	3.57	3.07	2.50	2.83

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period August 1957 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.021	3.721	1.509	2.317	2.080	1.155	0.597	0.603	0.504	0.355	0.847	1.260
2	1.013	5.230	1.625	1.439	1.747	1.263	1.160	1.404	0.490	0.354	0.847	1.505
3	2.196	3.189	1.365	2.777	1.448	1.984	1.297	0.952	0.426	0.504	0.847	1.177
4	3.842	2.330	1.483	2.297	1.503	1.106	0.972	1.930	0.431	0.496	0.912	1.330
5	1.677	2.004	1.390	2.181	1.322	0.985	0.793	1.046	0.502	0.455	0.967	1.103
6	1.605	1.793	1.333	1.756	1.235	0.935	0.693	0.717	0.513	0.530	0.950	0.985
7	1.494	1.652	1.428	1.577	1.226	0.901	0.639	0.637	0.419	0.864	1.193	0.983
8	1.178	1.492	1.529	1.523	1.167	2.642	0.665	0.631	0.410	0.559	0.958	0.908
9	1.058	1.397	1.813	1.401	1.127	3.204	0.622	0.609	0.412	0.520	0.908	0.853
10	1.180	1.255	2.656	1.736	1.239	2.062	0.631	0.593	0.609	0.526	1.190	0.854
11	1.111	1.129	2.037	1.483	1.337	1.628	0.725	1.466	0.503	0.514	1.181	0.832
12	1.070	1.108	5.675	1.337	1.213	1.285	0.708	0.866	0.442	0.542	1.423	0.947
13	1.205	1.013	3.144	1.277	1.097	1.125	1.959	0.711	0.402	0.616	1.370	1.173
14	1.343	1.027	1.851	1.234	2.442	0.996	1.350	1.509	0.389	0.572	1.619	1.372
15	1.208	1.160	1.658	1.564	1.581	0.917	0.751	1.172	0.371	0.550	2.650	0.934
16	1.136	1.165	3.439	1.236	1.240	0.864	0.653	1.026	0.388	0.670	4.311	1.145
17	1.103	1.161	3.926	1.193	1.136	1.264	0.610	0.741	0.358	1.338	2.568	0.779
18	1.136	1.075	2.261	1.192	1.117	1.162	0.730	0.625	0.371	3.799	3.331	0.939
19	1.200	1.080	1.875	1.166	1.040	1.011	0.663	0.588	0.398	20.855	1.926	1.119
20	1.269	1.134	1.714	1.142	1.007	0.866	0.568	0.577	0.380	2.355	1.496	1.044
21	2.093	1.030	1.612	1.106	0.998	0.781	0.518	0.527	0.346	1.389	1.348	0.937
22	2.148	0.957	1.524	1.095	0.965	0.770	0.569	0.494	0.339	1.158	1.272	1.756
23	3.569	0.952	2.526	1.291	0.964	0.744	0.797	0.474	0.323	1.049	1.227	1.822
24	2.519	0.985	1.705	2.416	0.981	0.752	0.551	0.456	0.318	1.089	1.314	1.081
25	1.691	0.987	1.583	1.280	1.018	0.774	1.551	0.428	0.313	1.226	1.259	0.929
26	1.391	0.971	1.421	1.163	1.093	0.989	1.208	0.413	0.451	0.965	1.132	0.908
27	1.320	1.004	1.357	1.455	4.486	1.008	1.741	0.426	0.475	0.926	1.104	1.046
28	1.683	1.055	1.338	1.325	1.654	0.773	0.805	0.385	0.414	0.937	1.133	2.542
29	2.789	0.936	1.319	6.336	1.467	0.685	0.669	0.400	0.382	0.847	1.065	1.379
30	5.202		1.312	3.496	1.424	0.635	0.647	0.399	0.379	0.847	1.010	1.156
31	5.071		1.332		1.171		0.644	0.401		0.847		1.355
MEAN	1.8551	1.5169	1.9593	1.7596	1.4041	1.1755	0.8543	0.7486	0.4152	1.5565	1.4451	1.1661
INCHES	1.533	1.173	1.619	1.407	1.160	0.940	0.706	0.619	0.332	1.286	1.156	0.964
STA AV	1.667	1.907	2.365	1.873	1.560	0.958	0.910	0.886	1.109	1.216	1.224	1.538

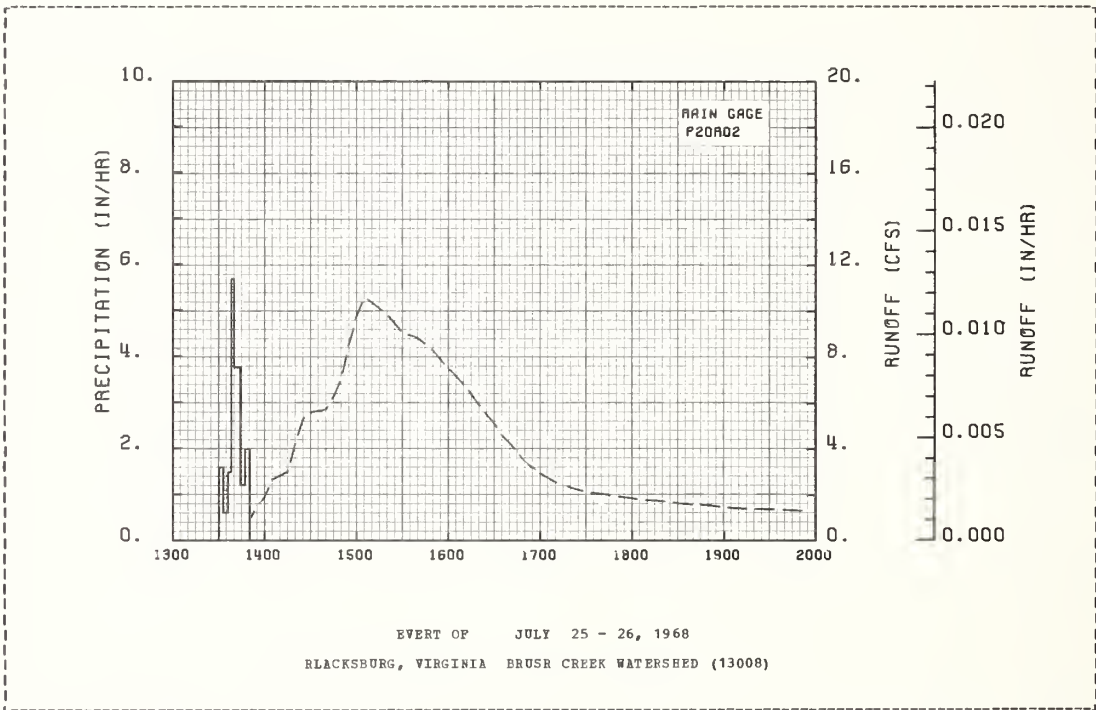
NOTES: To convert CFS to IN/DAY, multiply by 0.026652. STA AV based on record period August 1957 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 25 - 26, 1968												
7-25	RG P20R02 0.0	0.009	7-25	RG P20H02	0.0	0.0	7-25	1350	0.94	0.0		
				1333	1.6000	0.08		1355	1.48	0.0001		
				1336	0.6000	0.11		1400	1.95	0.0003		
				1338	1.5000	0.16		1405	2.69	0.0005		
				1340	5.6999	0.35		1415	3.04	0.0010		
WATERSHED CONDITIONS:				1344	3.7500	0.60		1420	4.25	0.0013		
Permanent pasture of native				1347	1.2000	0.66		1425	5.32	0.0017		
grasses, good cover, 33%;				1350	2.0000	0.76		1430	5.59	0.0022		
woods, mixture of pine and								1440	5.73	0.0032		
hardwood with considerable								1445	6.27	0.0038		
undergrowth, good cover,												
34%; hay, 20%; corn, 4%;								1450	7.11	0.0044		
idle land, 7%; roads, 2%.								1455	8.56	0.0051		
								1500	9.79	0.0060		
								1505	10.58	0.0069		
								1520	9.80	0.0097		
								1530	9.02	0.0115		
								1540	8.78	0.0131		
								1550	8.22	0.0147		
								1600	7.46	0.0162		
								1610	6.78	0.0175		
								1615	6.33	0.0181		
								1620	5.89	0.0187		
								1625	5.46	0.0192		
								1630	5.07	0.0197		
								1635	4.54	0.0201		
								1640	4.23	0.0205		
								1645	3.84	0.0209		
								1650	3.39	0.0212		
								1655	3.15	0.0215		
								1700	2.90	0.0218		
								1710	2.52	0.0223		
								1720	2.29	0.0227		
								1730	2.10	0.0231		
								1740	2.01	0.0235		
								1750	1.91	0.0239		

NOTES: To convert CFS to IN/HR, multiply by 0.0011105.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 25 - 26, 1968 (CONTINUED)										
							7-25	1800	1.81	0.0242
								1815	1.71	0.0247
								1830	1.61	0.0252
								1850	1.51	0.0258
								1905	1.41	0.0262
								1930	1.34	0.0268
								1955	1.27	0.0274
								2035	1.20	0.0283
								2130	1.13	0.0295
								2310	1.06	0.0315
							7-26	2400	0.99	0.0325
								220	0.99	0.0351
								840	0.92	0.0418

NOTES: To convert CFS to IN/HR, multiply by 0.0011105.



BLACKSBDRG, VIRGINIA POWELLS CREEK WATERSHED (13009)

LOCATION: Halifax County, Va., on Ronte No. 58, 1.1 mi. east of the Halifax-Pittsylvania County Line, Dan River.

AREA: 182.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													BLACKSBDRG, VIRGINIA POWELLS CREEK WATERSHED (13009)																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.12	0.72	3.20	2.55	4.25	3.82	2.29	1.44	1.48	1.76	4.14	1.97	30.75															
	0	1.489	0.355	3.271	0.329	0.509	0.540	0.127	0.102	0.091	0.161	0.323	0.300	7.595															
STA AV	P	3.03	3.13	3.35	2.91	3.87	2.67	4.14	4.28	2.53	2.95	2.62	3.07	38.54															
	Q	1.681	1.850	2.161	1.203	0.828	0.349	0.502	0.537	0.272	0.642	0.629	1.155	11.809															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval																					
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		3-12	0.171	3-12	0.159	3-12	0.296	3-12	0.650	3-12	0.944	3-12	1.085	3-12	1.161	3-12	2.255												
MAXIMUMS FOR PERIOD OF RECORD																													
		7-11	2.290	7-11	1.610	7-11	1.920	7-11	2.070	7-11	2.100	7-11	2.170	12-28	2.250	3-5	3.410												
		1965		1965		1965		1965		1965		1965		1958		1963													

NOTES: Watershed conditions: Farm woods, predominantly hardwood, 17%; pasture, native grass mixture, usually good to excellent cover, 55%; small grain, 1%; corn, 6%; hay, 20%; idle, 1%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, DSDA Misc. Pub. 1194, p. 13.9-5. Precipitation Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from January 1958 thru 1968. For long-time precipitation records, see U.S. Weather Bureau records at Danville Bridge St., Virginia.

1968 DAILY PRECIPITATION (inches)													BLACKSBDRG, VIRGINIA POWELLS CREEK WATERSHED (13009)														
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	1	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.37			
2	0.0	0.29	0.0	0.0	0.0	0.55	0.0	0.96	0.24E	0.0	0.0	0.04	2	0.0	0.29	0.0	0.0	0.0	0.0	0.55	0.0	0.96	0.24E	0.04			
3	0.16	0.0	0.0	0.57	0.0	0.76	0.15E	0.0	0.0	0.0	0.0	0.03	3	0.16	0.0	0.0	0.57	0.0	0.76	0.15E	0.0	0.0	0.0	0.03			
4	0.14	0.0	0.0	0.09	0.31	0.0	0.22E	0.04	0.0	0.0	0.08	0.12	4	0.14	0.0	0.0	0.09	0.31	0.0	0.22E	0.04	0.0	0.08	0.12			
5	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.02	0.03	0.0	0.0	0.0	5	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.02	0.03	0.0	0.0			
6	0.41H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.06E	0.06	0.0	6	0.41H	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.06E	0.06	0.0			
7	0.03H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30E	0.22	0.02E	7	0.03H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30E	0.22	0.02E			
8	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0			
9	0.03H	0.0	0.0	0.0	0.0	0.11	0.06E	0.03E	0.0	0.0	0.46H	0.0	9	0.03H	0.0	0.0	0.0	0.0	0.11	0.06E	0.03E	0.0	0.0	0.46H			
10	0.72H	0.0	0.13	0.01	0.06	0.0	0.0	0.01E	0.0	0.0	0.45H	0.0	10	0.72H	0.0	0.13	0.01	0.06	0.0	0.0	0.01E	0.0	0.0	0.45H			
11	0.08H	0.0	0.06	0.01	0.0	0.26	0.0	0.05E	0.0	0.0	0.43S	0.0	11	0.08H	0.0	0.06	0.01	0.0	0.26	0.0	0.05E	0.0	0.0	0.43S			
12	0.07H	0.0	1.78	0.0	0.31	0.0	0.07E	0.0	0.0	0.12	1.30S	0.0	12	0.07H	0.0	1.78	0.0	0.31	0.0	0.07E	0.0	0.12	1.30S	0.0			
13	1.16H	0.0	0.03	0.0	0.0	0.0	0.24E	0.0	0.0	0.13	0.0	0.0	13	1.16H	0.0	0.03	0.0	0.0	0.0	0.24E	0.0	0.13	0.0	0.0			
14	0.10H	0.0	0.0	0.0	0.38	0.0	0.46E	0.07E	0.0	0.0	0.0	0.44	14	0.10H	0.0	0.0	0.0	0.38	0.0	0.46E	0.07E	0.0	0.0	0.0	0.44		
15	0.0	0.0	0.0	0.17	0.01	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.17	0.01	0.0	0.0	0.02E	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.46	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.07	0.0	16	0.0	0.0	0.46	0.0	0.0	0.02	0.0	0.0	0.0	0.07	0.0	0.0		
17	0.0	0.0	0.13	0.0	0.0	1.36	0.0	0.0	0.0	0.0	0.18	0.0	17	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.03E	0.19	0.0	0.0	0.0	0.46	0.77	0.0	18	0.0	0.0	0.0	0.0	0.03E	0.19	0.0	0.0	0.0	0.46	0.77	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.25	0.0	0.56	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.03	0.25	0.0	0.56	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	22	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71		
23	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.18H	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.04	0.12	0.0	24	0.18H	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.04	0.12	0.0	0.0		
25	0.03H	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	25	0.03H	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.25	0.14E	0.42	0.0	0.96	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.25	0.14E	0.42	0.0	0.96	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	2.85	0.01E	0.30	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	2.85	0.01E	0.30	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.10	0.0	0.24E	28	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.0	0.0	0.24E		
29	0.0	0.42H	0.0	0.48L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.42H	0.0	0.48L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.01E	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.01E	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		3.12	0.72	3.20	2.55	4.25	3.82	2.29	1.44	1.48	1.76	4.14	1.97	TOTAL		3.12	0.72	3.20	2.55	4.25	3.82	2.29	1.44	1.48	1.76	4.14	1.97
STA AV		3.03	3.13	3.35	2.91	3.87	2.67	4.14	4.28	2.53	2.95	2.62	3.07	STA AV		3.03	3.13	3.35	2.91	3.87	2.67	4.14	4.28	2.53	2.95	2.62	3.07

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period January 1958 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.161	0.142	0.092	0.208	0.047	0.033	0.032	0.027	0.017	0.031	0.035	0.062
2	0.121	0.303	0.072	0.096	0.035	0.180	0.028	0.089	0.025	0.030	0.035	0.095
3	0.139	0.189	0.061	0.171	0.031	1.493	0.033	0.043	0.018	0.032	0.031	0.053
4	0.310	0.139	0.061	0.109	0.032	0.100	0.042	0.032	0.019	0.030	0.038	0.048
5	0.121	0.119	0.060	0.225	0.039	0.072	0.034	0.033	0.019	0.030	0.042	0.046
6	0.400	0.114	0.060	0.125	0.026	0.062	0.032	0.030	0.026	0.037	0.036	0.048
7	0.324	0.111	0.060	0.092	0.026	0.063	0.029	0.027	0.021	0.045	0.055	0.045
8	0.120	0.105	0.055	0.080	0.026	0.110	0.028	0.026	0.019	0.033	0.042	0.045
9	0.111	0.099	0.050	0.076	0.026	0.105	0.030	0.026	0.018	0.031	0.047	0.045
10	0.122	0.090	0.051	0.068	0.026	0.099	0.033	0.025	0.020	0.034	0.131	0.045
11	0.122	0.078	0.055	0.076	0.027	0.089	0.035	0.031	0.018	0.038	0.059	0.041
12	0.111	0.068	7.791	0.062	0.052	0.075	0.034	0.027	0.018	0.042	0.555	0.044
13	1.329	0.073	1.079	0.061	0.042	0.054	0.041	0.025	0.016	0.042	0.085	0.053
14	2.285	0.068	0.307	0.058	0.059	0.046	0.033	0.023	0.019	0.042	0.054	0.130
15	0.558	0.075	0.283	0.072	0.053	0.043	0.030	0.022	0.019	0.041	0.053	0.062
16	0.279	0.073	1.405	0.053	0.040	0.043	0.024	0.026	0.018	0.042	0.052	0.050
17	0.254	0.073	5.503	0.052	0.031	0.512	0.024	0.020	0.015	0.046	0.054	0.045
18	0.523	0.064	0.652	0.053	0.035	0.318	0.025	0.018	0.017	0.063	0.404	0.047
19	0.797	0.057	0.309	0.052	0.033	0.111	0.027	0.027	0.017	0.092	0.092	0.053
20	0.683	0.068	0.237	0.053	0.031	0.078	0.024	0.021	0.020	0.050	0.061	0.053
21	0.470	0.072	0.181	0.049	0.029	0.058	0.022	0.018	0.022	0.036	0.055	0.045
22	0.261	0.056	0.162	0.045	0.024	0.052	0.023	0.019	0.020	0.034	0.053	0.177
23	0.238	0.056	2.947	0.048	0.024	0.050	0.022	0.018	0.020	0.035	0.047	0.188
24	0.217	0.057	0.860	0.162	0.024	0.045	0.024	0.018	0.023	0.036	0.048	0.072
25	0.193	0.057	0.567	0.058	0.026	0.046	0.049	0.016	0.020	0.041	0.057	0.060
26	0.211	0.057	0.553	0.049	0.026	0.039	0.040	0.014	0.088	0.036	0.048	0.056
27	0.245	0.057	0.467	0.045	2.636	0.041	0.047	0.014	0.028	0.035	0.055	0.061
28	0.212	0.068	0.233	0.045	0.199	0.033	0.037	0.015	0.034	0.040	0.050	0.130
29	0.165	0.126	0.317	0.095	0.094	0.036	0.030	0.015	0.031	0.035	0.047	0.070
30	0.149		0.283	0.077	0.055	0.043	0.027	0.016	0.028	0.035	0.045	0.057
31	0.156		0.202		0.039		0.027	0.015		0.035		0.267
MEAN	0.3673	0.0936	0.8069	0.0838	0.1255	0.1376	0.0312	0.0251	0.0231	0.0397	0.0822	0.0739
INCHES	1.489	0.355	3.271	0.329	0.509	0.540	0.127	0.102	0.091	0.161	0.323	0.300
STA AV	1.681	1.850	2.161	1.203	0.828	0.349	0.502	0.537	0.272	0.642	0.629	1.155

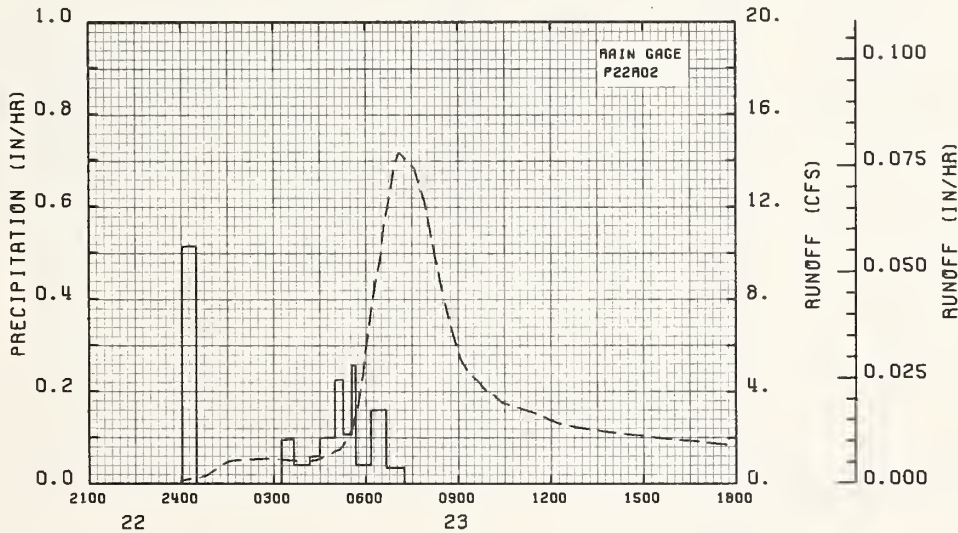
NOTES: To convert CPS to IN/DAY, multiply by 0.130776. STA AV based on record period January 1958 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 22 - 23, 1968												
3-23	RG P22R02		3-23	2	0.0	0.0	3-22	2400	0.15	0.0		
3-22	0.0	0.021		30	0.5142	0.24	3-23	10	0.20	0.0002		
				315	0.0	0.24		20	0.22	0.0004		
				340	0.0960	0.28		35	0.26	0.0007		
				410	0.0400	0.30		40	0.33	0.0008		
WATERSHED CONDITIONS:				430	0.0600	0.32		50	0.40	0.0011		
Farm woods, predominantly				500	0.1000	0.37		55	0.48	0.0013		
hardwood, 17%; pasture,				516	0.2250	0.43		105	0.62	0.0018		
native grass mixture, usually				533	0.1059	0.46		115	0.73	0.0024		
good to excellent cover, 55%;				540	0.2571	0.49		120	0.85	0.0028		
small grain, 1%; corn, 6%;												
hay, 20%; idle, 1%.				610	0.0400	0.51		130	0.97	0.0036		
				640	0.1600	0.59		140	1.03	0.0045		
				715	0.0343	0.61		245	1.09	0.0108		
								320	1.02	0.0142		
								355	0.96	0.0174		
								420	1.03	0.0197		
								430	1.10	0.0207		
								440	1.18	0.0217		
								450	1.27	0.0228		
								500	1.43	0.0240		
								510	1.52	0.0253		
								520	1.83	0.0268		
								525	2.03	0.0277		
								530	2.26	0.0287		
								535	2.51	0.0298		
								540	2.99	0.0310		
								545	3.35	0.0324		
								550	4.13	0.0341		
								555	4.73	0.0361		
								600	5.80	0.0385		
								605	6.55	0.0413		
								610	7.41	0.0445		
								620	8.82	0.0519		
								630	9.89	0.0604		
								635	11.06	0.0652		

NOTES: To convert CPS to IN/HR, multiply by 0.0054491.

1968 SELECTED RDNOFF EVENT			BLACKSBDRG, VIRGINIA POWELLS CREEK WATERSHED (13009)							
ANTECEDENT CONDITIONS			RAINFALL				RDNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 22 - 23, 1968 (CONTINUED)										
							3-23	645	12.22	0.0758
								655	13.63	0.0875
								705	14.33	0.1002
								735	13.61	0.1383
								745	12.90	0.1503
								755	12.18	0.1617
								805	11.00	0.1722
								815	9.83	0.1817
								825	8.77	0.1901
								835	7.83	0.1976
								845	6.88	0.2043
								855	6.11	0.2102
								905	5.35	0.2154
								915	4.97	0.2201
								925	4.67	0.2245
								940	4.38	0.2307
								950	4.08	0.2345
								1010	3.78	0.2416
								1025	3.48	0.2465
								1050	3.30	0.2542
								1115	3.12	0.2615
								1140	2.94	0.2684
								1155	2.76	0.2723
								1215	2.58	0.2771
								1240	2.46	0.2828
								1310	2.34	0.2893
								1345	2.23	0.2966
								1430	2.11	0.3055
								1515	1.99	0.3139
								1600	1.89	0.3218
								1645	1.80	0.3293
								1725	1.70	0.3356
								1800	1.60	0.3408
								1835	1.50	0.3457
								1930	1.42	0.3530
								2035	1.34	0.3611

NOTES: To convert CFS to IN/RR, multiply by 0.0054491.



EVENT OF MARCH 22 - 23, 1968
BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)

BLACKSHURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)

LOCATION: Halifax County, Va., 3.5 mi. SW of Tuberville, Va., Winns Creek, Dan River.

AREA: 1471.00 acres 2.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													BLACKSHURG, VIRGINIA		LITTLE WINNS CREEK WATERSHED (13010)		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1968	P 3.74	0.71	3.52	2.53	4.73	3.29	3.98	0.98	1.03	2.46	3.80	2.40	33.17				
	Q 1.150	0.445	1.049	0.522	0.752	0.558	0.295	0.162	0.094	0.172	0.298	0.310	5.807				
STA AV	P 3.25	3.30	3.34	2.93	3.71	3.03	3.94	4.33	2.76	3.08	2.54	3.09	39.29				
	Q 1.005	1.250	1.332	0.993	0.877	0.587	0.472	0.560	0.372	0.634	0.518	0.555	9.155				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	3-12	0.058	3-12	0.054	3-12	0.098	3-12	0.252	3-12	0.333	3-12	0.396	3-12	0.451	3-12	0.673

MAXIMUMS FOR PERIOD OF RECORD																
	10-10	1-120	10-10	0.710	10-10	1.030	10-10	1.410	10-10	1.510	10-10	1.580	10-10	1.620	10-10	1.910
	1959		1959		1959		1959		1959		1959		1959		1959	

NOTES: Watershed conditions: Farm woods, mixture of hardwoods and conifers, with pine predominating, 58%; small grain 3%; corn, 5%; tobacco, 3%; alfalfa and other hay crops, 6%; soy beans, 1%; pasture, native grass mixture, usually fair cover, 8%; idle, 16%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13. 10-8. Precipitation: Thiessen weighted from H-1, R-2, and R-3. Station averages determined from continuous records from Jan. 1958 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Halifax (1 mile N), Virginia.

1968	DAILY PRECIPITATION (inches)												BLACKSHURG, VIRGINIA		LITTLE WINNS CREEK WATERSHED (13010)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.03N	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35				
2	0.0	0.30	0.0	0.0	0.0	0.80	0.0	0.67E	0.06E	0.0	0.0	0.06				
3	0.20	0.0	0.0	0.59E	0.00	0.68	0.10	0.0	0.0	0.0	0.0	0.15				
4	0.14	0.0	0.0	0.15	0.11	0.0	0.22	0.04E	0.0	0.0	0.0	0.12				
5	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0				
6	0.38M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.02	0.0	0.0				
7	0.05M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.14	0.01				
8	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.04M	0.0	0.0	0.0	0.0	0.06E	0.10	0.0	0.0	0.0	0.54M	0.0				
10	0.84M	0.0	0.12	0.0	0.10	0.0	0.0	0.0	0.16	0.0	0.52M	0.0				
11	0.14M	0.0	0.04	0.0	0.0	0.0	0.13	0.08E	0.0	0.0	0.37S	0.0				
12	0.11M	0.0	2.11	0.0	0.29	0.0	0.01	0.0	0.07E	0.0	1.25S	0.0				
13	1.39M	0.0	0.03	0.0	0.0	0.0	1.73	0.0	0.0	0.0	0.0	0.0				
14	0.10M	0.0	0.0	0.0	0.46	0.0	0.56	0.08	0.0	0.0	0.0	0.39				
15	0.0	0.0	0.0	0.13E	0.01	0.0	0.0	0.12	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.43	0.0	0.0	0.26	0.0	0.0	0.0	0.36	0.04E	0.0				
17	0.0	0.0	0.21	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.16	0.0				
18	0.0	0.0	0.0	0.0	0.05E	0.23	0.0	0.0	0.0	0.48	0.56	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	1.21	0.0	0.0				
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76				
23	0.0	0.0	0.42	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.23M	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.06E	0.11	0.0	0.0				
25	0.08M	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.33	0.01	0.01	0.0	0.74	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	3.34	0.07	0.50	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.02	0.0	0.62				
29	0.0	0.41M	0.0	0.42E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.04	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.0	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0				
TOTAL	3.74	0.71	3.52	2.53	4.73	3.29	3.98	0.98	1.03	2.46	3.80	2.40				
STA AV	3.25	3.30	3.34	2.93	3.71	3.03	3.94	4.33	2.76	3.08	2.54	3.09				

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period January 1958 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.314	1.226	0.859	1.033	0.841	0.919	0.472	0.439	0.217	0.215	0.383	0.498
2	1.139	1.416	0.794	0.959	0.815	2.409	0.467	0.631	0.247	0.210	0.377	0.663
3	1.089	1.424	0.763	1.353	0.778	7.989	0.482	0.656	0.192	0.189	0.398	0.556
4	1.480	1.222	0.733	1.221	0.768	1.850	0.630	0.439	0.185	0.181	0.391	0.612
5	1.126	1.134	0.758	1.735	0.807	1.246	0.569	0.414	0.179	0.202	0.417	0.513
6	1.241	1.113	0.757	1.756	0.735	1.023	0.514	0.400	0.208	0.221	0.388	0.500
7	1.686	1.079	0.738	1.388	0.730	0.975	0.484	0.367	0.219	0.333	0.453	0.500
8	1.175	1.063	0.721	1.288	0.710	1.237	0.464	0.347	0.177	0.256	0.417	0.496
9	1.085	0.994	0.758	1.172	0.706	1.096	0.472	0.342	0.174	0.257	0.444	0.468
10	1.131	0.998	0.770	1.113	0.721	0.976	0.513	0.331	0.235	0.264	1.063	0.459
11	1.151	0.897	0.732	1.077	0.726	0.878	0.566	0.381	0.214	0.281	0.522	0.452
12	0.984	0.918	22.362	1.020	0.812	0.855	0.557	0.396	0.177	0.301	2.868	0.459
13	8.141	0.837	5.230	1.013	0.696	0.769	2.633	0.347	0.176	0.286	0.870	0.502
14	14.844	0.881	2.212	0.974	0.808	0.711	0.769	0.351	0.168	0.321	0.630	0.664
15	4.089	0.911	1.737	1.017	0.837	0.698	0.561	0.397	0.166	0.317	0.545	0.500
16	2.253	0.878	1.623	0.941	0.721	0.669	0.499	0.318	0.163	0.528	0.530	0.468
17	1.752	0.862	4.709	0.894	0.695	1.550	0.494	0.307	0.148	0.418	0.506	0.480
18	1.623	0.807	2.270	0.925	0.675	1.179	0.490	0.281	0.164	0.472	1.047	0.462
19	1.902	0.816	1.697	0.874	0.643	0.849	0.484	0.270	0.174	0.993	0.772	0.477
20	2.237	0.842	1.496	0.881	0.621	0.743	0.472	0.270	0.154	0.463	0.578	0.497
21	2.848	0.811	1.319	0.855	0.609	0.678	0.445	0.251	0.152	0.316	0.499	0.472
22	2.518	0.787	1.219	0.871	0.592	0.658	0.424	0.235	0.141	0.314	0.500	0.646
23	2.197	0.768	1.666	0.833	0.579	0.641	0.396	0.234	0.135	0.346	0.470	1.044
24	2.093	0.777	1.288	1.507	0.557	0.610	0.383	0.228	0.134	0.361	0.517	0.661
25	1.595	0.777	1.195	0.984	0.561	0.592	0.529	0.210	0.128	0.371	0.511	0.583
26	1.371	0.768	1.143	0.883	0.607	0.571	0.727	0.198	0.482	0.339	0.459	0.531
27	1.350	0.786	1.086	0.854	20.981	0.576	0.870	0.198	0.275	0.344	0.480	0.551
28	1.466	0.783	1.075	0.829	3.210	0.526	0.525	0.197	0.208	0.386	0.466	1.565
29	1.461	0.948	1.059	0.979	1.677	0.521	0.449	0.198	0.207	0.379	0.484	0.925
30	1.385		1.020	1.004	1.213	0.506	0.433	0.192	0.214	0.379	0.459	0.734
31	1.321		1.027		1.015		0.473	0.199		0.379		1.234
MEAN	2.2918	0.9491	2.0908	1.0744	1.4983	1.1499	0.5887	0.3234	0.1937	0.3427	0.6149	0.6183
INCHES	1.150	0.445	1.049	0.522	0.752	0.558	0.295	0.162	0.094	0.172	0.298	0.310
STA AV	1.005	1.250	1.332	0.993	0.877	0.587	0.472	0.560	0.372	0.634	0.518	0.555

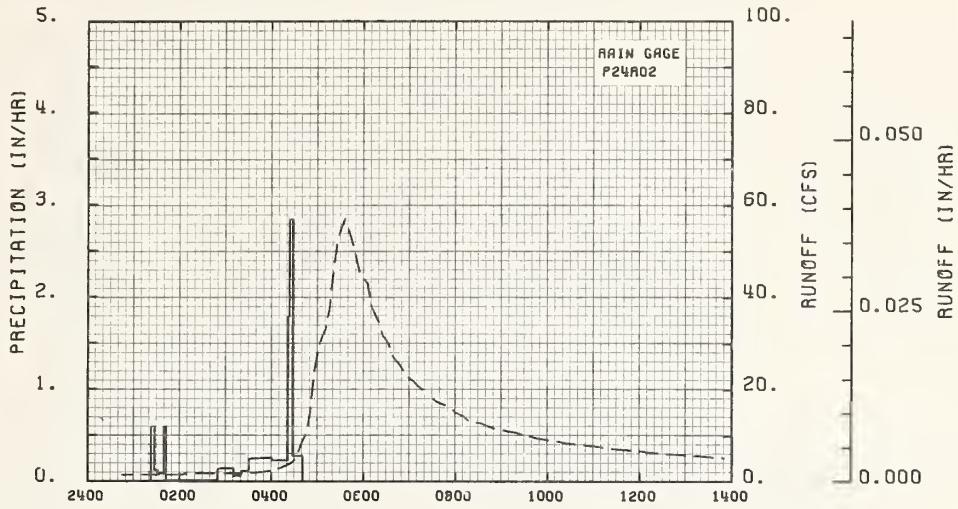
NOTES: To convert CPS to IN/DAY, multiply by 0.016178. STA AV based on record period January 1958 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 3, 1968												
6-3	RG P24R02 0.0	0.001	6-3	RG P24R02 122	0.0	0.0	6-3	45	1.48	0.0		
					0.6002	0.05		150	1.53	0.0011		
					0.1200	0.06		200	1.65	0.0013		
					0.0857	0.07		215	1.74	0.0016		
					0.6000	0.10		230	1.78	0.0019		
WATERSHED CONDITIONS:												
	Para woods, mixture of			249	0.0090	0.11		240	1.67	0.0021		
	hardwoods and conifers			310	0.1429	0.16		310	1.82	0.0027		
	with pine predominating, 58%;			320	0.0600	0.17		330	1.93	0.0031		
	small grain, 3%; corn, 5%;			330	0.1200	0.19		345	2.08	0.0034		
	tobacco, 3%; alfalfa and			344	0.2572	0.25		355	2.37	0.0036		
	other hay crops, 6%; soy											
	beans, 1%; pasture native			400	0.2625	0.32		405	2.68	0.0039		
	grass mixture, usually fair			421	0.2286	0.40		410	3.01	0.0041		
	cover, 8%; idle, 16%.			423	1.8000	0.46		415	3.32	0.0043		
				427	2.8500	0.65		425	4.16	0.0047		
				440	0.2769	0.71		430	4.86	0.0050		
								435	6.46	0.0053		
								440	9.07	0.0057		
								445	10.61	0.0063		
								450	15.19	0.0070		
								455	23.76	0.0081		
								500	28.35	0.0096		
								505	31.28	0.0113		
								510	33.37	0.0131		
								515	37.39	0.0151		
								520	45.54	0.0174		
								525	52.02	0.0201		
								530	55.01	0.0231		
								535	57.09	0.0262		
								545	51.72	0.0323		
								555	44.51	0.0377		
								605	42.82	0.0426		
								610	37.80	0.0449		
								620	34.21	0.0489		
								625	31.31	0.0507		
								630	30.40	0.0524		

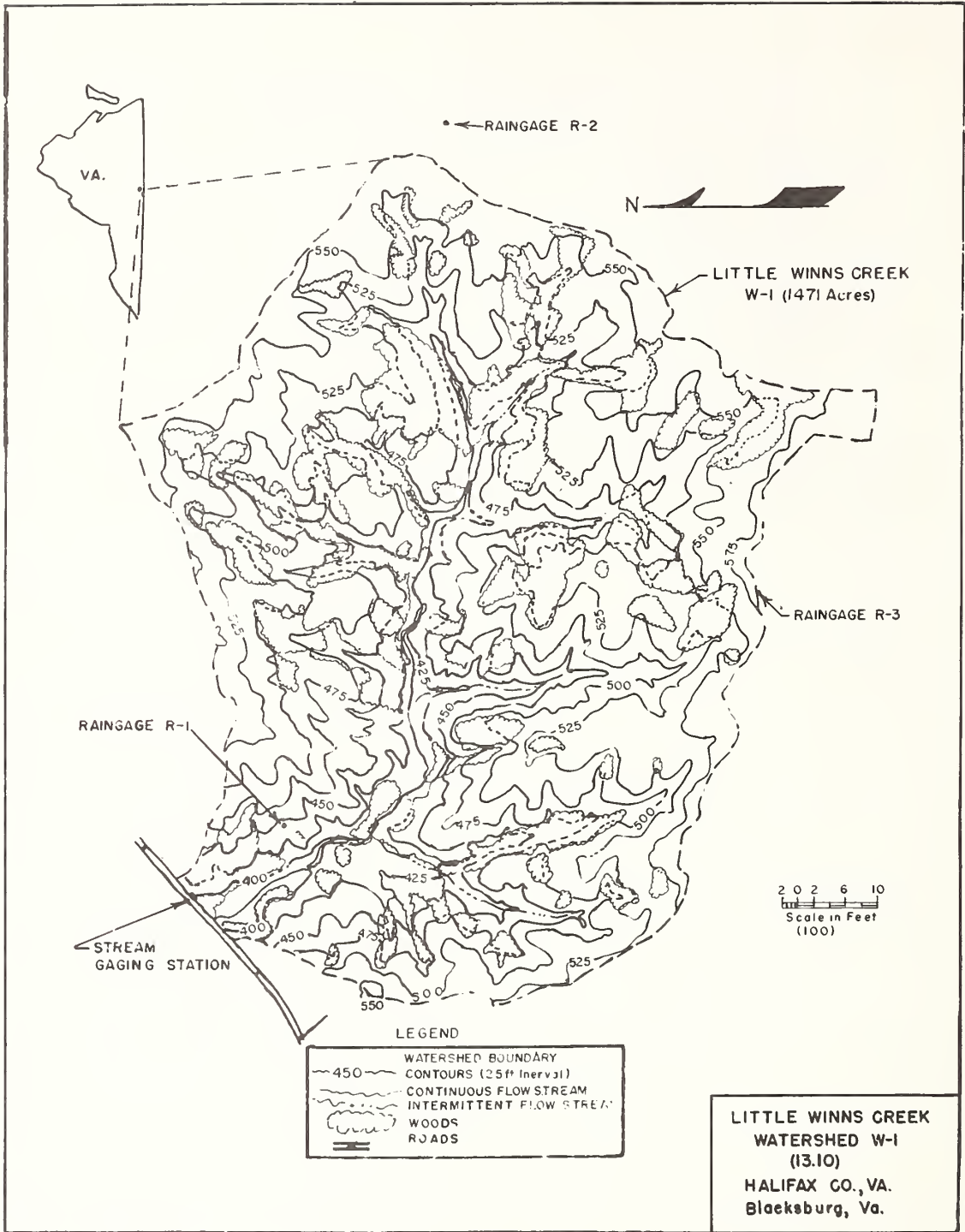
NOTES: To convert CFS to IN/HR, multiply by 0.0006741.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSBED (13010)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 3, 1968 (CONTINUED)											
							6- 3	635	28.44	0.0541	
								640	26.40	0.0556	
								645	25.58	0.0571	
								650	24.44	0.0585	
								655	22.98	0.0598	
								705	21.65	0.0623	
								710	20.69	0.0635	
								720	19.32	0.0657	
								725	18.41	0.0668	
								735	17.25	0.0688	
								745	16.46	0.0707	
								755	15.57	0.0725	
								800	14.79	0.0734	
								810	14.04	0.0750	
								815	13.32	0.0758	
								825	12.74	0.0773	
								835	12.42	0.0787	
								845	11.74	0.0801	
								855	11.15	0.0814	
								905	10.88	0.0826	
								915	10.56	0.0838	
								925	10.24	0.0850	
								935	9.88	0.0861	
								945	9.28	0.0872	
								955	9.05	0.0882	
								1005	8.78	0.0892	
								1015	8.50	0.0902	
								1025	8.22	0.0911	
								1035	7.99	0.0920	
								1050	7.75	0.0933	
								1105	7.49	0.0946	
								1115	7.22	0.0954	
								1125	6.98	0.0962	
								1140	6.77	0.0974	
								1155	6.55	0.0985	
								1210	6.31	0.0996	
								1220	6.09	0.1003	
								1240	5.88	0.1016	
								1255	5.68	0.1026	
								1315	5.48	0.1039	
								1330	5.27	0.1048	
								1350	5.07	0.1060	
								1405	4.88	0.1068	
								1430	4.70	0.1081	
								1445	4.52	0.1089	
								1510	4.35	0.1101	
								1535	4.17	0.1113	
								1600	3.99	0.1124	
								1620	3.84	0.1133	
								1650	3.69	0.1146	
								1715	3.52	0.1156	
								1735	3.37	0.1164	
								1805	3.22	0.1175	
								1840	3.09	0.1187	
								1920	2.95	0.1201	
								2000	2.82	0.1214	
								2045	2.69	0.1228	
								2140	2.56	0.1244	

NOTES: To convert CPS to IN/HR, multiply by 0.0006741.



EVENT OF JUNE 3, 1968
BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)



BLACKSBURG, VIRGINIA ROCKY RUN BRANCER WATERSHED (13011)

LOCATION: Brunswick County, Va., on Route No. 58, 4 mi. W. of Lawrenceville, Va., Meherrin River.

AREA: 555.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													BLACKSBURG, VIRGINIA ROCKY RUN BRANCER WATERSHED (13011)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.68	1.41	3.20	2.82	4.35	3.90	3.95	4.27	0.31	3.14	4.13	2.43	36.57	
	0 0.814	0.361	0.980	0.468	0.405	0.385	0.175	0.215	0.035	0.057	0.260	0.259	4.414	
STA AV	P 3.00	3.35	3.05	2.37	3.58	4.19	4.12	3.90	2.86	2.73	2.58	3.00	38.74	
	Q 0.918	1.215	1.331	0.897	0.882	0.653	0.452	0.356	0.285	0.360	0.487	0.714	8.552	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maxima Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	6-17	0.081	6-17	0.047	6-17	0.071	1-13	0.105	1-13	0.159	1-13	0.223	1-13	0.289	3-12	0.561

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
6-7	0.220	6-7	0.190	5-8	0.340	5-6	0.710	5-6	0.980	5-6	1.450	5-5	2.090	4-30	2.860
1961		1961		1958		1958		1958		1958		1958		1958	

NOTES: Watershed conditions: Mixed cover, farm woods, mixture of hardwoods and conifers, 57%; permanent pasture, usually a good cover of native grass and clover mixture, 13%; alfalfa and other hay crops, 5%; corn, 3%; tobacco, 2%; small grain, 1%; roads, 1%; soy beans, 3%; idle, 15%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.11-6. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from April 1958 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Emporia (1 mile WNW), Virginia.

1968 DAILY PRECIPITATION (inches)													BLACKSBURG, VIRGINIA ROCKY RUN BRANCER WATERSHED (13011)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.13		
2	0.0	0.51E	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.24		
3	0.28	0.0	0.0	0.00	0.0	0.27	0.15	0.26	0.0	0.20E	0.0	0.18		
4	0.28	0.0	0.0	0.0	0.0	0.0	0.55	0.79	0.0	0.01	0.0	0.15		
5	0.0	0.0	0.0	0.33	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.31M	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.01E	0.02	0.0	0.0		
7	0.04M	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.38	0.22	0.10		
8	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.11E		
9	0.07M	0.0	0.0	0.0	0.0	0.04	0.14	0.0	0.18	0.0	0.67	0.0		
10	0.45M	0.0	0.16	0.06	0.0	0.10	0.0	0.51	0.06	0.0	0.66	0.0		
11	0.03M	0.0	0.02	0.92	0.01	0.00	1.10	0.44	0.0	0.0	0.41M	0.0		
12	0.0	0.0	1.52	0.0	0.34	0.0	0.0	0.0	0.0	0.15	0.83M	0.0		
13	0.97M	0.0	0.04E	0.0	0.0	0.0	0.12	0.0	0.0	0.45	0.0	0.0		
14	0.02	0.0	0.0	0.0	0.81	0.0	0.53E	0.40	0.0	0.0	0.0	0.53		
15	0.0	0.0	0.0	0.30	0.00	0.0	0.0	0.86E	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.75E	0.0	0.30E	0.20	0.0		
17	0.0	0.0	1.06	0.0	0.0	2.04	0.29	0.0	0.0	0.0	0.00	0.0		
18	0.0	0.0	0.0	0.0	0.22E	0.06	0.0	0.0	0.0	0.39E	0.91	0.0		
19	0.0	0.0	0.0	0.0	0.04E	0.0	0.72	0.0	0.0	0.99E	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58		
23	0.0	0.0	0.31	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09		
24	0.05M	0.0	0.0	0.86E	0.0	0.74E	0.0	0.0	0.0	0.04	0.21	0.0		
25	0.12M	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.03	0.01	0.0		
26	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	1.64	0.0	0.25	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.32	0.0	0.07	0.0	0.0	0.19	0.0	0.31		
29	0.0	0.90M	0.0	0.22	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.04	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	2.68	1.41	3.20	2.82	4.35	3.90	3.95	4.27	0.31	3.14	4.13	2.43		
STA AV	3.00	3.35	3.05	2.37	3.58	4.19	4.12	3.90	2.86	2.73	2.58	3.00		

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period April 1958 through 1968.

1968		MEAN DAILY DISCHARGE (cfs)					BLACKSBORG, VIRGINIA ROCKY RDN BRANCH WATERSHED (13011)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.358	0.298	0.400	0.390	0.290	0.257	0.116	0.075	0.058	0.017	0.057	0.128
2	0.307	0.430	0.461	0.378	0.292	0.220	0.105	0.070	0.056	0.013	0.059	0.190
3	0.313	0.526	0.437	0.334	0.271	0.281	0.115	0.078	0.048	0.021	0.058	0.174
4	0.795	0.389	0.337	0.307	0.270	0.219	0.194	0.164	0.045	0.015	0.064	0.198
5	0.470	0.338	0.326	0.335	0.297	0.184	0.137	0.119	0.044	0.009	0.063	0.186
6	0.413	0.325	0.302	0.346	0.304	0.157	0.130	0.085	0.043	0.013	0.063	0.161
7	0.621	0.324	0.265	0.307	0.238	0.170	0.117	0.078	0.044	0.033	0.111	0.151
8	0.438	0.307	0.272	0.307	0.211	0.210	0.107	0.086	0.032	0.016	0.077	0.160
9	0.377	0.292	0.294	0.292	0.213	0.201	0.119	0.067	0.036	0.017	0.080	0.148
10	0.386	0.297	0.313	0.292	0.205	0.205	0.123	0.112	0.050	0.015	0.342	0.148
11	0.359	0.268	0.290	0.851	0.193	0.190	0.318	0.162	0.040	0.019	0.142	0.138
12	0.307	0.250	2.992	0.515	0.230	0.183	0.213	0.099	0.028	0.023	0.963	0.138
13	0.934	0.266	1.840	0.408	0.200	0.157	0.179	0.081	0.024	0.072	0.342	0.148
14	4.872	0.254	0.881	0.370	0.335	0.140	0.160	0.115	0.021	0.043	0.192	0.292
15	1.412	0.277	0.636	0.429	0.372	0.136	0.136	0.613	0.018	0.037	0.160	0.250
16	0.818	0.265	0.582	0.362	0.269	0.127	0.122	1.261	0.018	0.034	0.156	0.205
17	0.613	0.277	3.267	0.323	0.219	2.547	0.141	0.351	0.019	0.024	0.157	0.186
18	0.528	0.258	1.894	0.307	0.235	0.659	0.117	0.190	0.024	0.029	0.797	0.170
19	0.481	0.253	1.002	0.302	0.201	0.364	0.176	0.151	0.020	0.209	0.378	0.176
20	0.435	0.255	0.738	0.304	0.181	0.280	0.164	0.136	0.016	0.096	0.229	0.170
21	0.416	0.245	0.618	0.301	0.167	0.217	0.112	0.120	0.019	0.052	0.186	0.161
22	0.402	0.234	0.568	0.277	0.161	0.203	0.105	0.113	0.012	0.048	0.170	0.192
23	0.378	0.235	0.647	0.278	0.151	0.180	0.102	0.105	0.013	0.049	0.160	0.362
24	0.356	0.246	0.577	0.637	0.148	0.297	0.090	0.097	0.013	0.049	0.149	0.249
25	0.336	0.231	0.472	0.412	0.148	0.440	0.085	0.090	0.013	0.057	0.184	0.208
26	0.313	0.221	0.434	0.330	0.176	0.192	0.098	0.077	0.012	0.043	0.147	0.193
27	0.313	0.222	0.447	0.301	1.181	0.158	0.137	0.068	0.018	0.046	0.148	0.193
28	0.307	0.253	0.413	0.299	0.743	0.138	0.116	0.067	0.013	0.060	0.148	0.262
29	0.307	0.390	0.395	0.292	0.807	0.135	0.090	0.063	0.009	0.060	0.157	0.232
30	0.307		0.378	0.321	0.428	0.121	0.080	0.060	0.011	0.054	0.125	0.192
31	0.301		0.378		0.308		0.077	0.059		0.054		0.278
MEAN	0.6120	0.2905	0.7373	0.3637	0.3047	0.2990	0.1317	0.1616	0.0273	0.0428	0.2022	0.1947
INCHES	0.814	0.361	0.980	0.468	0.405	0.385	0.175	0.215	0.035	0.057	0.260	0.259
STA AV	0.918	1.215	1.331	0.897	0.882	0.653	0.452	0.356	0.285	0.360	0.487	0.714

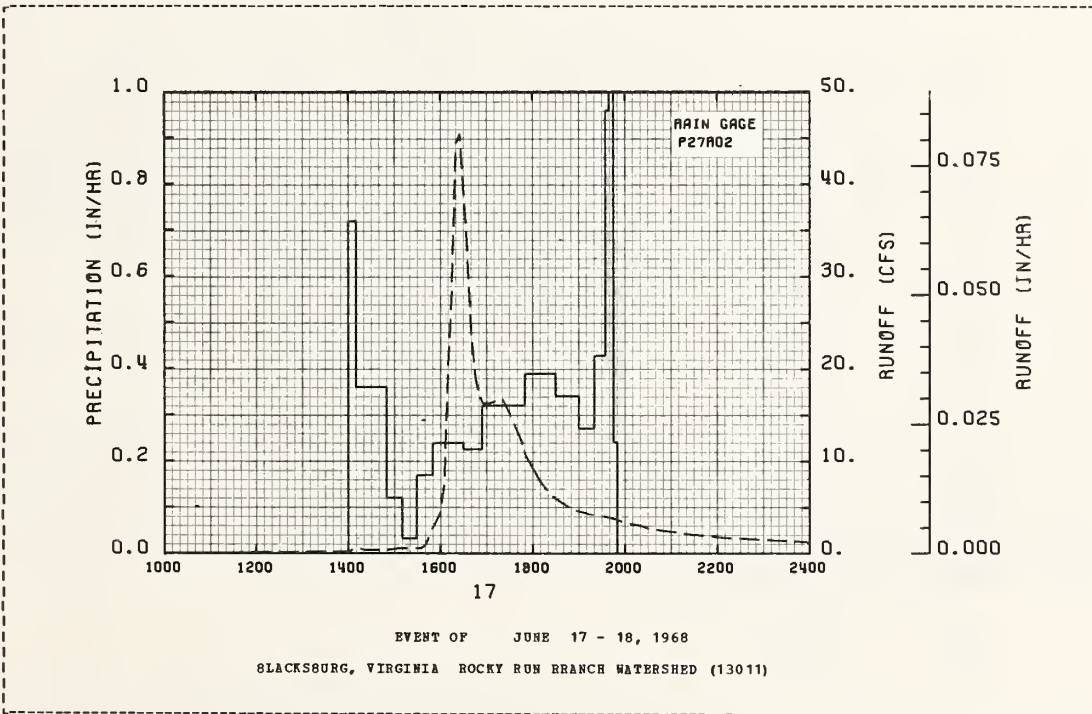
NOTES: To convert CFS to IN/DaY, multiply by 0.042886. STA AV based on record period April 1958 through 1968.

1968		SELECTED RDN OFF EVENT			BLACKSBORG, VIRGINIA			ROCKY RDN BRANCH WATERSHED (13011)		
ANTECEDENT CONDITIONS			RAINFALL			RDN OFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JDNE 17 - 18, 1968										
6-17	RG P27R02 0.0	0.003	6-17	RG P27R02 1400	0.0	0.0	6-17	1130	0.15	0.0
				1410	0.7199	0.12		1400	0.21	0.0008
				1450	0.3600	0.36		1405	0.43	0.0008
				1510	0.1200	0.40		1410	0.61	0.0009
				1529	0.0316	0.41		1415	0.55	0.0010
WATERSHED CONDITIONS: Mixed cover, fava woods, mixture of hardwoods and conifers, 57%; permanent pasture, usually a good cover of native grass and clover mixture, 13%; alfalfa and other hay crops, 5%; corn, 3%; tobacco, 2%; small grain, 1%; roads, 1%; soy beans, 3%; idle, 15%.				1550	0.1714	0.47		1420	0.35	0.0011
				1630	0.2400	0.63		1445	0.39	0.0014
				1654	0.2250	0.72		1455	0.50	0.0015
				1750	0.3214	1.02		1505	0.68	0.0017
				1830	0.3900	1.28		1520	0.50	0.0020
				1900	0.3400	1.45		1535	0.61	0.0023
				1920	0.2700	1.54		1540	0.98	0.0024
				1934	0.4285	1.64		1545	1.84	0.0026
				1939	0.9604	1.72		1550	2.82	0.0029
				1945	0.9999	1.82		1555	3.73	0.0034
				1950	0.2401	1.84		1600	4.53	0.0040
								1605	7.71	0.0049
					1610	20.22	0.0070			
					1615	28.78	0.0107			
					1620	44.37	0.0161			
					1625	45.51	0.0228			
					1630	39.47	0.0291			
					1635	32.55	0.0345			
					1640	23.93	0.0387			
					1645	19.47	0.0419			
					1650	17.26	0.0446			
					1655	16.22	0.0471			
					1705	16.29	0.0519			
					1720	16.82	0.0593			
					1730	15.16	0.0641			
					1735	14.13	0.0663			
					1740	13.16	0.0683			
					1745	12.20	0.0702			
					1750	10.80	0.0719			
					1755	9.90	0.0734			

NOTES: To convert CFS to IN/HR, multiply by 0.0017869.

1968 SELECTED RUNOFF EVENT			SLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 17 - 18, 1968 (CONTINUED)											
							6-17	1805	8.51	0.0761	
								1810	7.64	0.0773	
								1820	6.78	0.0794	
								1825	6.15	0.0804	
								1835	5.58	0.0821	
								1845	5.06	0.0837	
								1855	4.61	0.0851	
								1905	4.40	0.0864	
								1915	4.17	0.0877	
								1930	3.99	0.0895	
								1940	3.81	0.0907	
								1950	3.62	0.0918	
								2000	3.26	0.0928	
								2010	3.12	0.0937	
								2020	2.96	0.0946	
								2030	2.67	0.0954	
								2040	2.53	0.0962	
								2050	2.42	0.0969	
								2100	2.30	0.0976	
								2110	2.19	0.0983	
								2120	2.07	0.0989	
								2130	1.96	0.0995	
								2145	1.86	0.1004	
								2155	1.76	0.1009	
								2210	1.67	0.1017	
								2225	1.57	0.1024	
								2245	1.48	0.1033	
								2305	1.40	0.1042	
								2330	1.31	0.1052	
								2400	1.16	0.1063	
							6-18	25	1.16	0.1072	
								110	1.08	0.1087	
								150	1.01	0.1099	
								235	0.95	0.1112	
								335	0.88	0.1128	
								505	0.82	0.1151	
								635	0.75	0.1172	

NOTES: To convert CFS to IN/RR, multiply by 0.0017869.



BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)

LOCATION: Culpeper County, Va., on Route No. 3 about 3.75 mi. (by road) Southeast of Culpeper, Va., Mountain Run, Rappahannock River.

AREA: 192.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1968	P 3.03	0.37	3.22	1.18	4.71	4.00	5.33	3.89	1.79	3.00	3.67	1.75	35.95												
	Q 1.232	0.104	1.215	0.009	0.232	0.253	0.326	0.062	0.008	0.007	0.266	0.233	3.947												
STA AV	P 2.72	3.05	3.49	2.70	3.23	3.09	3.25	3.50	3.54	2.53	2.58	2.50	36.16												
	Q 1.113	1.477	1.714	0.829	0.339	0.314	0.102	0.133	0.319	0.201	0.151	0.467	7.160												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days										
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.									
1968	7-2	0.068	3-16	0.059	3-16	0.114	3-16	0.285	1-14	0.467	1-14	0.588	1-14	0.702	3-12	1.097									
MAXIMUMS FOR PERIOD OF RECORD																									
	6-24	0.480	5-19	0.290	2-7	0.440	2-7	0.890	2-7	1.230	2-7	1.450	2-7	1.610	2-18	2.760									
	1958		1966		1965		1965		1965		1965		1965		1961										

NOTES: Watershed conditions: Mixed cover, farm woods, predominantly hardwood, 53%; permanent pasture with a fair cover of native grass mixture, 5%; corn, 15%; hay crop, 1%; roads, 2%; idle, 24%. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.12-7. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from May 1958 thru 1968. For long-time precipitation records, see U.S. Weather Bureau records at Culpeper, Virginia.

1968	DAILY PRECIPITATION (inches)												BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E												
2	0.0	0.16	0.0	0.0	0.0	0.06	2.00	0.77	0.0	0.0	0.0	0.06												
3	0.08E	0.0	0.0	0.0	0.01	0.0	0.07E	0.0	0.0	0.32	0.24	0.0												
4	0.07E	0.0	0.0	0.05	0.48	0.0	0.0	0.40	0.0	0.0	0.01	0.44												
5	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0												
6	0.11H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.22	0.0	0.0												
7	0.02H	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.51	0.49E	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0												
9	0.02H	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.16H	0.0												
10	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.31	0.82	0.0	0.60H	0.0												
11	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.11	0.0	0.35S	0.0												
12	0.0	0.0	1.62	0.0	0.31	1.48	0.0	0.0	0.0	0.0	1.10S	0.0												
13	0.81H	0.0	0.14	0.0	0.0	0.0	1.33	0.02	0.0	0.0	0.0	0.0												
14	1.67H	0.0	0.0	0.0	0.46	0.0	0.03E	0.0	0.0	0.0	0.0	0.34E												
15	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.86	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.33	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.15	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.35	0.0												
19	0.0	0.0	0.0	0.0	0.12	0.29	0.37E	0.95	0.0	1.46E	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0												
21	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67E												
23	0.01E	0.0	0.22E	0.03	0.15E	0.07	0.0	0.0	0.0	0.0	0.0	0.0												
24	0.04E	0.0	0.0	0.54	0.27	0.0	0.0	0.01E	0.0	0.25	0.17	0.0												
25	0.01E	0.0	0.0	0.0	0.15	0.0	1.46	0.0	0.0	0.04	0.0	0.0												
26	0.01E	0.0	0.0	0.0	0.03	0.46	0.07	0.0	0.16	0.0	0.0	0.0												
27	0.0	0.0	0.0	0.22	1.92	0.18	0.01	0.0	0.0	0.0	0.01	0.0												
28	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.10	0.03E	0.09E												
29	0.0	0.21H	0.0	0.12	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	0.18	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL	3.03	0.37	3.22	1.18	4.71	4.00	5.33	3.89	1.79	3.00	3.67	1.75												
STA AV	2.72	3.05	3.49	2.70	3.23	3.09	3.25	3.50	3.54	2.53	2.58	2.50												

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period May 1958 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSRED (13012)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.302	0.107	0.002	0.014	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.007
2	0.209	0.190	0.024	0.003	0.0	0.037	0.984	0.099	0.0	0.0	0.0	0.023
3	0.219	0.138	0.007	0.004	0.0	0.035	0.382	0.003	0.0	0.0	0.0	0.019
4	0.360	0.081	0.009	0.009	0.010	0.022	0.039	0.023	0.0	0.0	0.0	0.178
5	0.061	0.063	0.007	0.011	0.0	0.016	0.012	0.002	0.0	0.0	0.0	0.061
6	0.044	0.052	0.005	0.003	0.0	0.019	0.006	0.0	0.0	0.0	0.0	0.037
7	0.048	0.045	0.001	0.003	0.0	0.012	0.002	0.178	0.0	0.0	0.0	0.027
8	0.042	0.035	0.001	0.003	0.0	0.009	0.001	0.058	0.0	0.0	0.0	0.017
9	0.042	0.028	0.002	0.001	0.0	0.013	0.0	0.021	0.0	0.0	0.0	0.010
10	0.042	0.017	0.005	0.001	0.0	0.010	0.0	0.019	0.064	0.0	0.071	0.004
11	0.042	0.011	0.002	0.001	0.0	0.014	0.0	0.009	0.001	0.0	0.008	0.006
12	0.042	0.013	1.627	0.0	0.0	0.444	0.0	0.002	0.0	0.0	1.108	0.004
13	0.043	0.010	1.411	0.0	0.0	0.272	0.658	0.001	0.0	0.0	0.187	0.012
14	4.297	0.009	0.409	0.0	0.0	0.061	0.015	0.001	0.0	0.0	0.093	0.187
15	1.281	0.006	0.226	0.0	0.0	0.039	0.004	0.0	0.0	0.0	0.061	0.043
16	0.441	0.006	0.599	0.0	0.0	0.026	0.001	0.0	0.0	0.0	0.037	0.037
17	0.214	0.005	3.685	0.0	0.0	0.548	0.0	0.0	0.0	0.0	0.031	0.019
18	0.164	0.003	0.578	0.0	0.0	0.119	0.0	0.0	0.0	0.0	0.233	0.014
19	0.151	0.003	0.300	0.0	0.0	0.080	0.011	0.081	0.0	0.055	0.090	0.018
20	0.173	0.004	0.196	0.0	0.0	0.064	0.0	0.006	0.0	0.0	0.052	0.022
21	0.260	0.001	0.172	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.036	0.014
22	0.212	0.001	0.116	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.024	0.350
23	0.292	0.001	0.175	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.017	0.301
24	0.181	0.001	0.082	0.012	0.0	0.018	0.0	0.0	0.0	0.0	0.020	0.120
25	0.121	0.001	0.055	0.0	0.0	0.012	0.477	0.0	0.0	0.0	0.023	0.058
26	0.091	0.001	0.034	0.0	0.0	0.020	0.025	0.0	0.0	0.0	0.012	0.040
27	0.088	0.001	0.026	0.003	0.469	0.027	0.006	0.0	0.0	0.0	0.013	0.045
28	0.079	0.001	0.018	0.0	0.925	0.007	0.003	0.0	0.0	0.0	0.021	0.101
29	0.091	0.005	0.013	0.0	0.200	0.0	0.001	0.0	0.0	0.0	0.008	0.046
30	0.154	0.007	0.007	0.001	0.172	0.0	0.0	0.0	0.0	0.0	0.004	0.027
31	0.156	0.005	0.005	0.097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032
HRAR	0.3207	0.0289	0.3161	0.0023	0.0604	0.0681	0.0847	0.0162	0.0022	0.0018	0.0716	0.0606
INCRES	1.232	0.104	1.215	0.009	0.232	0.253	0.326	0.062	0.008	0.007	0.266	0.233
STA AV	1.113	1.477	1.714	0.829	0.339	0.314	0.102	0.133	0.319	0.201	0.151	0.467

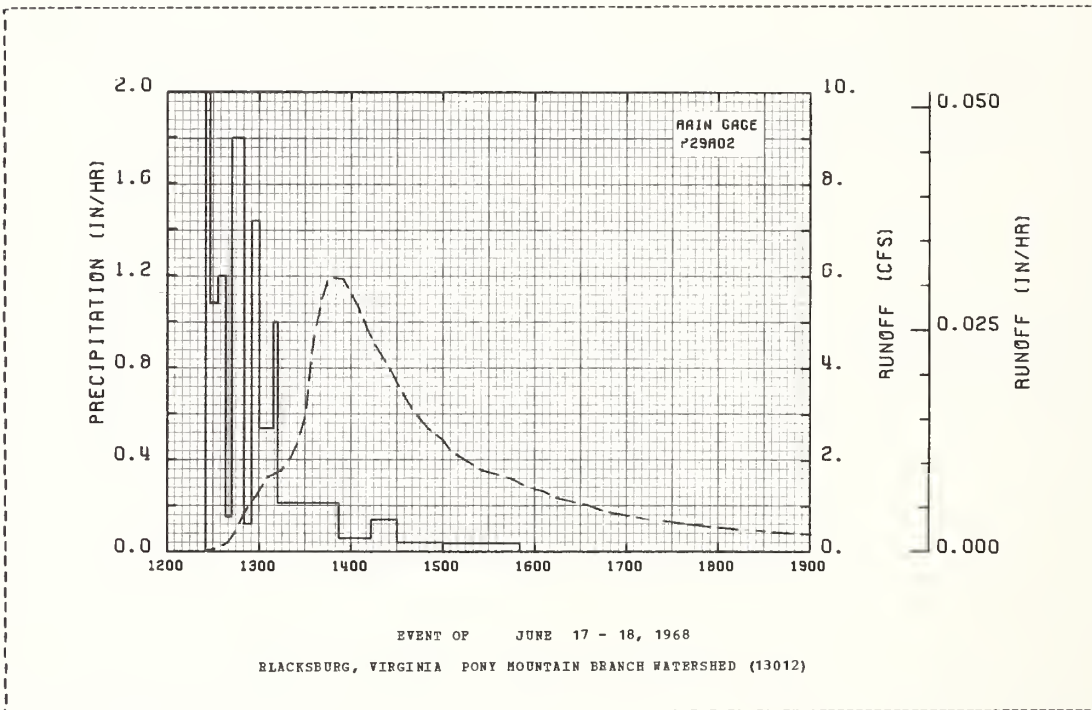
NOTES: To convert CPS to IN/DAY, multiply by 0.123967. STA AV based on record period May 1958 through 1968.

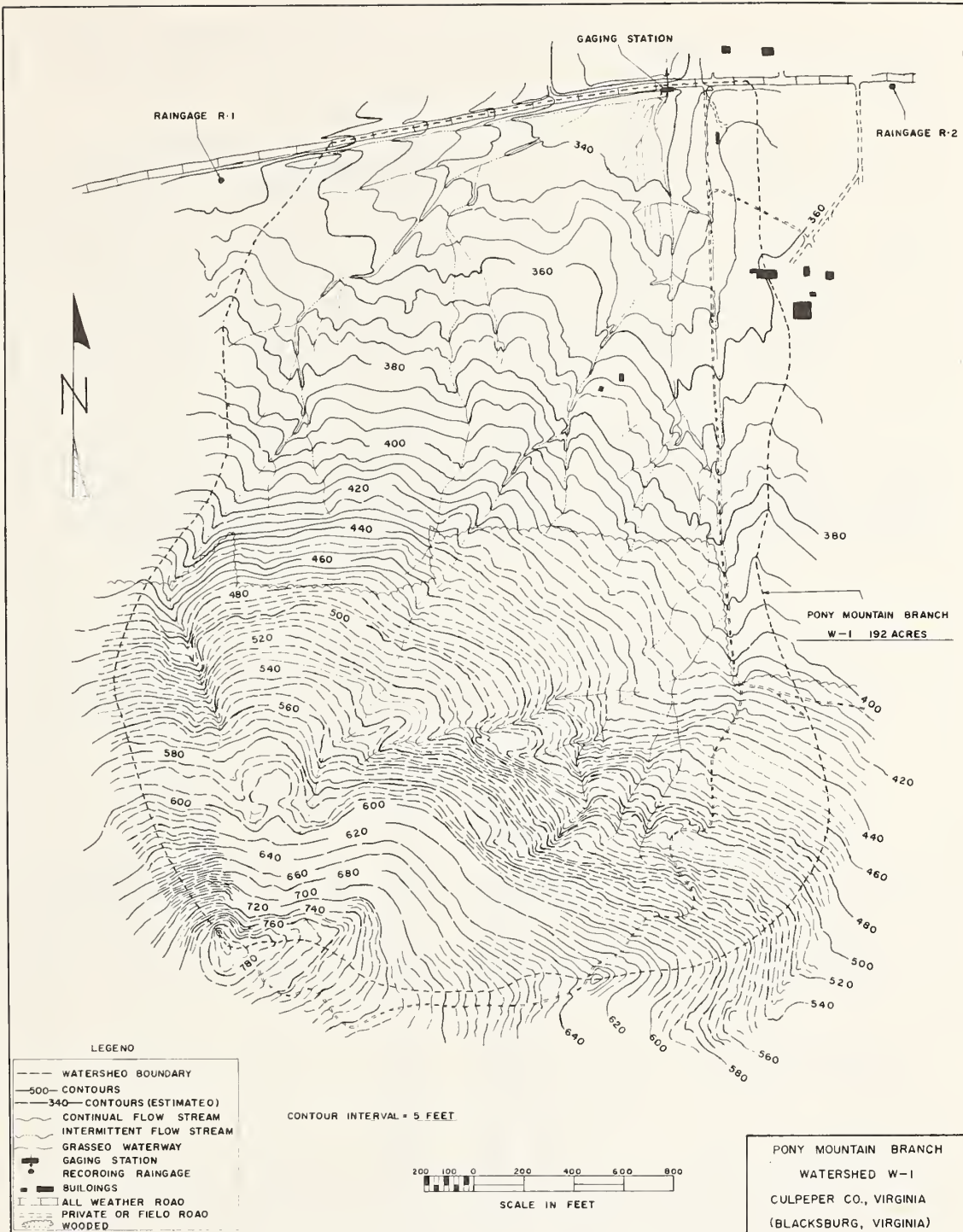
1968 SELECTED RUNOFF EVENT BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSRED (13012)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 17 - 18, 1968												
6-17	RG P29R02 0.0	0.002	6-17	RG P29R02 1225	0.0	0.0	6-17	1225	0.03	0.0		
				1228	2.0000	0.10		1235	0.10	0.0001		
				1233	1.0804	0.19		1240	0.24	0.0002		
				1238	1.2005	0.29		1245	0.49	0.0004		
				1242	0.1499	0.30		1250	0.85	0.0007		
WATERSRED CONDITIONS:				1250	1.8005	0.54		1255	1.08	0.0011		
Mixed cover, farm woods,				1255	0.1199	0.55		1305	1.62	0.0023		
predominately hardwood, 53%;				1300	1.4406	0.67		1315	1.80	0.0038		
permanent pasture with a fair				1309	0.5333	0.75		1320	2.03	0.0046		
cover of native grass mix-				1312	1.0000	0.80		1325	2.39	0.0056		
ture, 5%; corn, 15%; hay												
crop, 1%; roads, 2%; idle,				1352	0.2100	0.94		1330	2.97	0.0068		
24%.				1413	0.0571	0.96		1335	4.53	0.0084		
				1430	0.1412	1.00		1340	5.40	0.0105		
				1500	0.0400	1.02		1345	5.96	0.0130		
				1550	0.0360	1.05		1355	5.91	0.0181		
								1405	5.27	0.0229		
								1410	4.88	0.0251		
								1415	4.51	0.0271		
								1425	3.99	0.0308		
								1430	3.66	0.0325		
								1435	3.35	0.0340		
								1440	3.07	0.0354		
								1450	2.67	0.0379		
								1500	2.41	0.0401		
								1505	2.18	0.0411		
								1515	1.97	0.0429		
								1525	1.76	0.0445		
								1535	1.67	0.0460		
								1545	1.57	0.0474		
								1555	1.39	0.0487		
								1605	1.31	0.0499		
								1615	1.15	0.0510		
								1625	1.08	0.0520		
								1635	1.00	0.0529		
								1645	0.87	0.0537		

NOTES: To convert CPS to IN/HR, multiply by 0.0051653.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 17 - 18, 1968 (CONTINUED)											
							6-17	1655	0.81	0.0544	
								1705	0.75	0.0551	
								1715	0.69	0.0557	
								1730	0.64	0.0566	
								1740	0.59	0.0571	
								1755	0.54	0.0578	
								1810	0.49	0.0585	
								1825	0.45	0.0591	
								1840	0.41	0.0597	
								1900	0.37	0.0604	
								1925	0.34	0.0612	
								1955	0.30	0.0620	
								2025	0.27	0.0627	
								2115	0.24	0.0638	
								2205	0.22	0.0648	
								2325	0.22	0.0663	
								2400	0.19	0.0669	
							6-18	205	0.19	0.0689	

NOTES: To convert CPS to IN/HR, multiply by 0.0051653.





ELACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)

LOCATION: Page County Va., about 2.5 mi. E. of Stanley, Va., on secondary Route No. 689, Bawksbill Creek, South Fork Shenandoah River.

AREA: 2023.00 acres 3.16 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													ELACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.80	0.63	3.81	1.51	4.35	3.37	3.68	2.58	2.29	2.73	3.33	1.12	33.20
	Q	1.683	1.653	1.659	0.672	0.587	0.402	0.168	0.115	0.083	0.088	0.509	0.278	7.898
STA AV	P	2.62	3.14	3.56	2.65	3.23	3.09	2.74	2.87	3.23	2.42	2.93	2.32	34.79
	Q	1.023	1.188	1.775	1.115	0.723	0.471	0.188	0.111	0.107	0.261	0.438	0.523	7.922

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	Maximum Volume for Selected Time Interval														
		1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date								
1968	1-14	0.022	1-14	0.021	1-14	0.042	1-14	0.117	1-14	0.188	1-14	0.259	1-30	0.370	1-29	1.043
MAXIMUMS FOR PERIOD OF RECORD																
	9-30 1959	0.240	9-30 1959	0.170	9-30 1959	0.240	9-30 1959	0.340	9-30 1959	0.400	6-20 1962	0.520	6-19 1962	0.900	3-29 1960	1.580

NOTES: Watershed conditions: Mixed cover, farm woods, predominantly hardwood mixed with conifers, 58%; permanent pasture, a fair cover of native grasses, 28%; corn, 2%; hay crops, 7%; roads, 1%; idle, 3%; small grain, 1%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.13-5. Precipitation: Thiessen weighted from R-1, R-2, and R-3. STA AV determined from continuous records from September 1959 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Inray (5 miles E), Virginia.

1968 DAILY PRECIPITATION (inches)													ELACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.09M	0.11	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.11		
2	0.04S	0.02E	0.0	0.0	0.0	0.10	0.74	0.25	0.0	0.0	0.0	0.0		
3	0.08S	0.0	0.0	0.0	0.0	0.04	0.00	0.0	0.0	0.21E	0.08E	0.01		
4	0.0	0.0	0.0	0.27	0.08	0.0	0.0	0.16	0.0	0.0	0.0	0.09		
5	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0		
6	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.23E	0.24E	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.21E	0.61E	0.0		
8	0.0	0.0	0.0	0.02	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.01N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10M	0.0		
10	0.0	0.0	0.33E	0.0	0.0	0.0	0.0	0.45	1.67	0.0	0.63M	0.0		
11	0.0	0.0	0.0	0.08	0.02E	0.03E	0.0	0.0	0.34	0.0	0.24M	0.0		
12	0.0	0.0	1.58	0.0	0.29	0.0	0.0	0.0	0.0	0.0	1.00M	0.0		
13	2.10N	0.0	0.04	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.01M	0.0		
14	1.17N	0.0	0.0	0.0	0.45	0.0	0.09E	0.0	0.0	0.0	0.0	0.28		
15	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.74	0.0	0.0	0.0	0.46	0.03	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.36	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.15	0.0		
18	0.0	0.0	0.0	0.0	0.08	0.0	0.00	0.46	0.0	0.35E	0.30	0.01E		
19	0.0	0.0	0.0	0.0	0.08	0.53	0.62	0.0	0.0	1.67E	0.0	0.05E		
20	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.43		
23	0.0	0.0	0.52	0.07	0.11	0.08	0.0	0.0	0.0	0.0	0.0	0.01		
24	0.10E	0.0	0.0	0.11	0.33	0.12	0.04E	0.0	0.0	0.05E	0.20	0.0		
25	0.0	0.0	0.0	0.0	0.02	0.0	1.72	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.41	2.04	1.09	0.01	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.01	0.14		
29	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.30	0.61M	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.80	0.63	3.81	1.51	4.35	3.37	3.68	2.58	2.29	2.73	3.33	1.12		
STA AV	2.62	3.14	3.56	2.65	3.23	3.09	2.74	2.87	3.23	2.42	2.93	2.32		

NOTES: Precipitation amounts are Thiessen weighted values from rain gages E-1, R-2, and E-3. STA AV based on record period September 1959 through 1968.

1968		MEAN DAILY DISCHARGE (cfs)					BLACKSBURG, VIRGINIA			CBUB RUN WATERSHED (13013)			
Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.482	13.988	1.520	2.947	1.374	2.590	0.537	0.357	0.159	0.138	0.211	0.797	
2	1.666	15.743	2.084	2.589	1.320	2.345	0.647	0.368	0.148	0.134	0.222	0.851	
3	1.408	11.476	2.076	2.508	1.264	2.044	0.940	0.422	0.166	0.144	0.227	0.766	
4	1.893	7.945	2.324	3.239	1.207	1.730	0.628	0.371	0.167	0.134	0.254	0.801	
5	2.618	6.137	1.865	2.635	1.088	1.594	0.512	0.341	0.162	0.140	0.238	0.695	
6	1.776	5.241	1.835	2.280	0.960	1.371	0.490	0.317	0.237	0.163	0.242	0.642	
7	1.517	4.658	1.729	2.142	0.973	1.171	0.439	0.967	0.155	0.305	0.401	0.634	
8	1.772	4.188	1.682	2.157	0.909	1.296	0.421	0.538	0.159	0.183	0.470	0.688	
9	2.104	3.691	1.765	2.065	0.868	1.249	0.413	0.325	0.141	0.184	0.347	1.038	
10	1.468	3.954	2.302	2.025	0.855	1.223	0.394	0.444	1.166	0.172	0.524	0.809	
11	1.429	7.882	2.217	2.042	0.899	1.294	0.351	0.456	0.938	0.168	0.575	0.740	
12	1.818	6.196	11.490	1.914	1.163	0.926	0.302	0.296	0.336	0.168	1.491	0.684	
13	1.028	3.320	10.386	1.879	1.068	0.794	0.301	0.299	0.254	0.162	1.094	0.640	
14	21.299	5.925	6.014	1.830	1.216	0.723	0.277	0.451	0.242	0.158	0.995	0.899	
15	9.346	2.511	4.842	1.947	1.187	0.701	0.308	0.351	0.225	0.142	3.065	0.717	
16	5.653	2.396	5.717	1.783	1.042	0.650	0.382	0.288	0.208	0.139	5.513	0.864	
17	4.059	2.288	17.417	1.640	0.972	1.388	0.327	0.260	0.191	0.129	4.443	0.753	
18	3.158	3.962	9.027	1.600	0.934	1.006	0.280	0.354	0.197	0.157	4.844	0.652	
19	2.942	3.540	6.614	1.570	0.910	1.047	0.549	0.346	0.195	1.495	3.479	0.605	
20	2.892	1.895	5.522	1.629	0.877	1.118	0.385	0.255	0.176	0.459	2.468	0.611	
21	3.333	3.216	4.744	1.577	0.838	0.786	0.280	0.217	0.161	0.322	1.954	0.560	
22	3.884	4.213	4.265	1.474	0.791	0.732	0.249	0.200	0.160	0.281	1.599	0.826	
23	8.308	3.802	5.626	1.371	0.846	0.677	0.241	0.193	0.156	0.255	1.368	1.001	
24	6.959	2.716	4.337	1.476	1.024	0.724	0.218	0.190	0.149	0.255	1.402	0.892	
25	4.547	2.500	3.926	1.334	1.137	0.678	1.381	0.190	0.139	0.257	1.233	0.951	
26	5.150	2.397	3.630	1.352	0.826	0.563	0.991	0.180	0.141	0.243	1.022	0.929	
27	3.220	2.006	3.483	1.647	3.685	1.108	0.511	0.156	0.135	0.219	0.979	0.644	
28	3.369	1.464	3.297	1.472	7.548	1.222	0.464	0.170	0.134	0.217	0.949	0.837	
29	5.307	1.310	3.210	1.492	5.295	0.747	0.387	0.161	0.141	0.189	0.867	0.718	
30	11.965	3.089	1.485	3.830	0.631	0.346	0.161	0.153	0.203	0.203	0.761	0.722	
31	15.709	2.947		3.015		0.354	0.151		0.189			0.664	
MEAN	4.6150	4.8456	4.5475	1.9035	1.6104	1.1376	0.4614	0.3154	0.2364	0.2421	1.4413	0.7622	
INCBES	1.683	1.653	1.659	0.672	0.587	0.402	0.168	0.115	0.083	0.088	0.509	0.278	
STA AV	1.023	1.188	1.775	1.115	0.723	0.471	0.188	0.111	0.107	0.261	0.438	0.523	

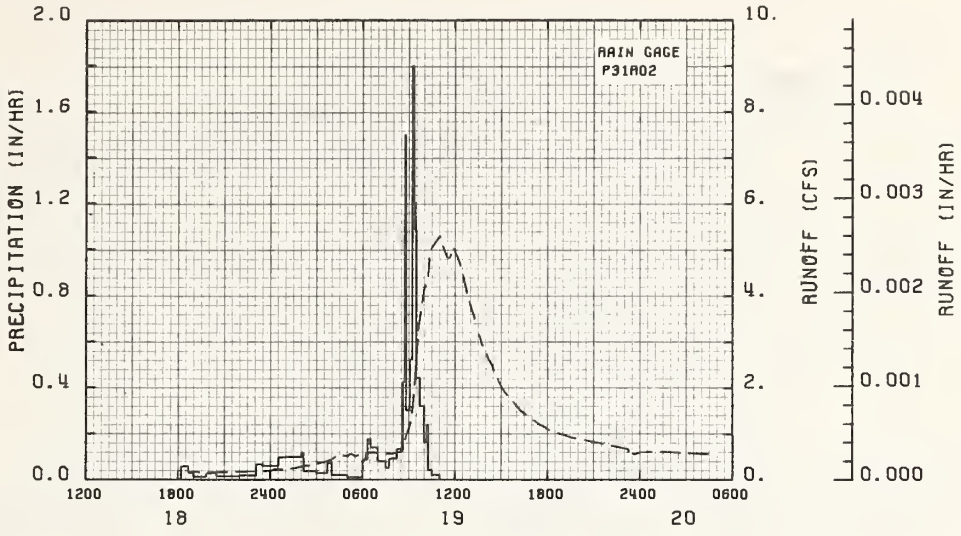
NOTES: To convert CFS to IN/DAY, multiply by 0.011766. STA AV based on record period September 1959 through 1968.

1968		SELECTED RONOFP EVENT		BLACKSBURG, VIRGINIA			CBUB RUN WATERSHED (13013)			
ANTECEDENT CONDITIONS		RUNOFF		RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 18 - 20, 1968										
10-18	RG P31R02 0.10	0.001	10-18	RG P31R02	0.0	0.0	10-18	1850	0.16	0.0
				1840	0.0600	0.03		1900	0.19	0.0
				1900	0.0300	0.04		1925	0.15	0.0
				1950	0.0120	0.05		2400	0.20	0.0004
				2030	0.0300	0.07	10-19	10	0.23	0.0004
WATERSHED CONDITIONS:										
Mixed cover, farm woods,										
predominantly hardwood mixed										
with conifers, 58%; permanent										
a fair cover of native grasses.										
28%; corn, 2%; hay crops, 7%;										
1%; idle, 3%; small grain, 1%.										
			10-19	30	0.0600	0.20		355	0.45	0.0010
				100	0.1000	0.25		415	0.51	0.0011
				130	0.1000	0.30		425	0.56	0.0011
				148	0.1000	0.33		500	0.50	0.0013
				200	0.1000	0.35		510	0.56	0.0013
				210	0.1200	0.37		520	0.55	0.0013
				300	0.0360	0.40		530	0.50	0.0013
				344	0.0273	0.42		540	0.55	0.0013
				352	0.0750	0.43		550	0.48	0.0013
				400	0.0750	0.44		610	0.43	0.0014
				500	0.0200	0.46		615	0.60	0.0014
				600	0.0100	0.47		740	0.56	0.0018
				620	0.0900	0.50		835	0.63	0.0021
				630	0.1800	0.53		845	0.81	0.0022
				700	0.1400	0.60		850	0.96	0.0022
				730	0.0800	0.64		900	1.12	0.0023
				742	0.0500	0.65		910	1.34	0.0024
				814	0.0938	0.70		920	1.85	0.0025
				836	0.1364	0.75		925	2.26	0.0026
				843	0.4285	0.80		930	2.72	0.0027
				847	1.5000	0.90		935	3.02	0.0028
				850	1.2000	0.96		940	3.39	0.0029
				904	0.2999	1.03		950	3.75	0.0032
				912	0.5251	1.10		1000	4.16	0.0035
				920	1.8005	1.34		1015	4.41	0.0040

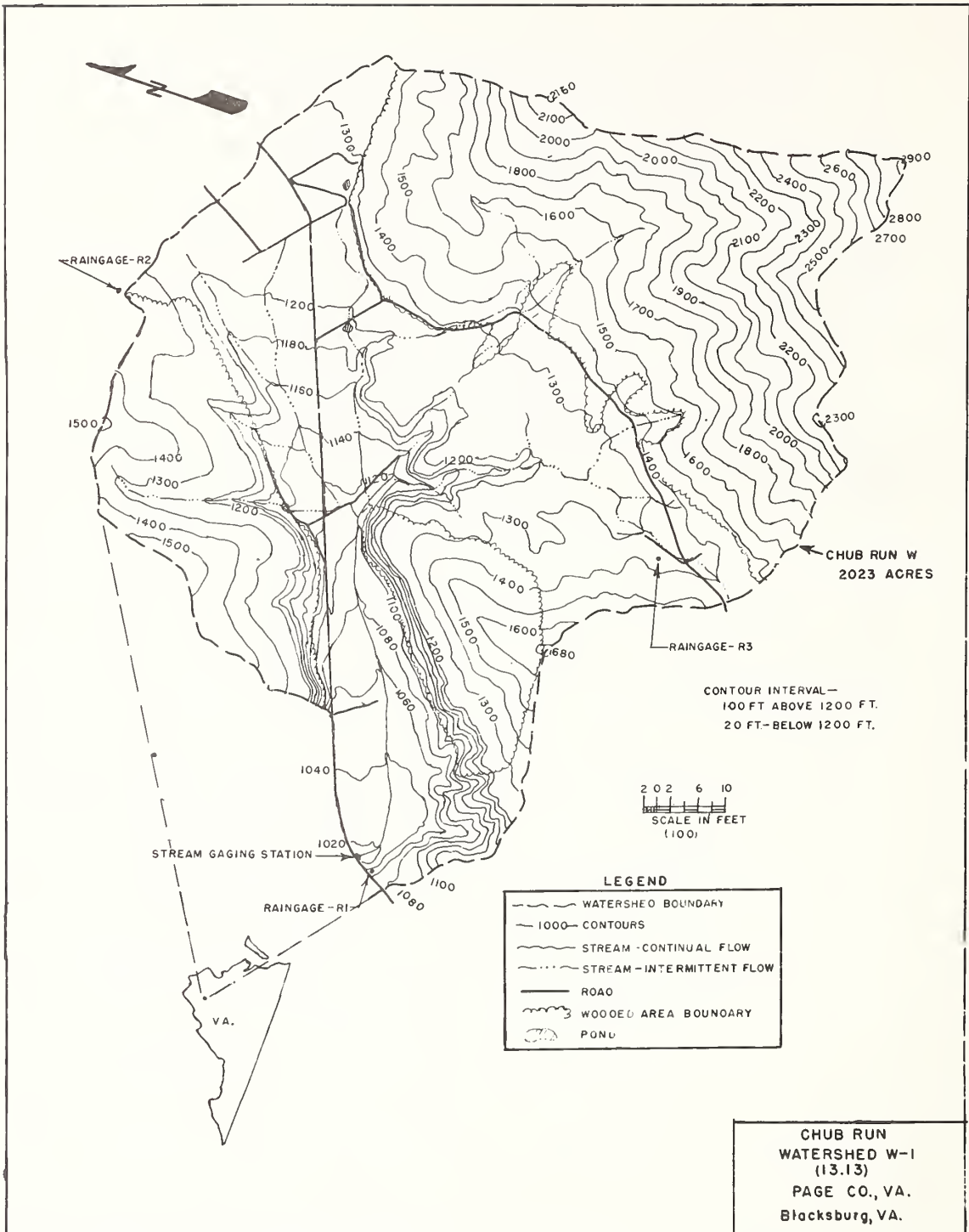
NOTES: To convert CFS to IN/HR, multiply by 0.0004902.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF OCTOBER 18 - 20, 1968 (CONTINUED)											
10-19				923	1.2000	1.40	10-19	1020	4.87	0.0042	
				928	1.0791	1.49		1030	5.06	0.0046	
				943	0.4400	1.60		1100	5.31	0.0059	
				1000	0.3177	1.69		1115	5.03	0.0065	
				1011	0.1637	1.72		1130	4.81	0.0071	
				1016	0.2398	1.74		1140	4.83	0.0075	
				1030	0.0429	1.75		1150	5.05	0.0079	
				1100	0.0200	1.76		1210	4.81	0.0087	
								1225	4.57	0.0093	
								1235	4.34	0.0097	
								1245	4.11	0.0100	
								1255	3.89	0.0103	
								1305	3.69	0.0106	
								1315	3.50	0.0109	
								1325	3.31	0.0112	
								1335	3.12	0.0115	
								1345	2.93	0.0117	
								1400	2.77	0.0120	
								1410	2.61	0.0122	
								1425	2.46	0.0125	
								1435	2.30	0.0127	
								1450	2.14	0.0130	
								1500	2.01	0.0132	
								1515	1.88	0.0134	
								1535	1.75	0.0137	
								1555	1.62	0.0140	
								1615	1.49	0.0143	
								1640	1.39	0.0146	
								1705	1.29	0.0149	
								1730	1.19	0.0152	
								1800	1.09	0.0155	
								1845	0.99	0.0159	
								1930	0.91	0.0162	
								2040	0.83	0.0167	
								2150	0.76	0.0172	
								2315	0.65	0.0177	
								2320	0.52	0.0177	
								2400	0.61	0.0179	
							10-20	115	0.61	0.0183	
								405	0.55	0.0191	
								755	0.50	0.0201	

NOTES: To convert CFS to IN/HR, multiply by 0.0004902.



EVENT OF OCTOBER 18 - 20, 1968
BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)



BLACKSBURG VIRGINIA FOSTERS CREEK WATERSHED (13014)

LOCATION: Louisa County, Va., on Route No. 250, 2 mi. east of Zion Crossroads, Va., South Anna River.

AREA: 389.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													BLACKSBURG VIRGINIA FOSTERS CREEK WATERSHED (13014)																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.73	0.66	4.28	2.22	4.28	2.81	2.64	3.83	1.31	2.97	3.38	1.74	32.86															
	O	1.724	0.397	1.953	0.408	0.527	0.203	0.138	0.125	0.038	0.070	0.329	0.249	6.160															
STA AV	P	2.63	3.29	3.76	2.35	3.13	2.73	2.61	3.38	3.09	3.20	2.61	3.06	35.86															
	O	1.143	1.660	1.959	0.856	0.643	0.297	0.192	0.191	0.191	0.950	0.339	0.765	9.186															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		3-12	0.435	3-12	0.315	3-12	0.449	3-12	0.735	3-12	0.873	1-13	1.131	1-13	1.231	3-12	1.570												
MAXIMUMS FOR PERIOD OF RECORD																													
		10-20	1.710	10-20	0.760	10-20	1.020	10-20	2.060	10-20	3.020	10-20	4.960	10-20	5.890	10-20	5.960												
		1961		1961		1961		1961		1961		1961		1961		1961													

NOTES: Watershed conditions: Mixed cover, farm woods, predominantly hardwoods, 44%; permanent pasture, usually a good cover of native grass and clover mixture, 26%; corn, 1%; hay crops, 25%; idle, 1%; roads, 2%; small grain, 1%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, USDA Misc. Pub. 1262, 1967, p. 13.14-5. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from September 1960 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Louisa, Virginia.

1968 DAILY PRECIPITATION (inches)													BLACKSBURG VIRGINIA FOSTERS CREEK WATERSHED (13014)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.02M	0.24	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.31													
2	0.0	0.32	0.0	0.0	0.0	0.0	1.43	0.89	0.0	0.0	0.0	0.03													
3	0.09	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.11													
4	0.04	0.0	0.0	0.36	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.25													
5	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.11M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92	0.20	0.0	0.0													
7	0.03M	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.62	0.49E	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0													
10	0.0	0.0	0.32	0.0	0.0	0.01	0.0	0.25	0.38	0.0	0.46M	0.0													
11	0.0	0.0	0.02	0.0	0.14	0.35	0.02E	0.0	0.0	0.0	0.34S	0.0													
12	0.0	0.0	2.50	0.0	0.22	0.35	0.0	0.0	0.0	0.01	0.98S	0.0													
13	1.78M	0.0	0.04E	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0													
14	0.40M	0.0	0.0	0.0	0.53	0.0	0.11	0.04	0.0	0.0	0.0	0.32													
15	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0													
17	0.0	0.0	0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.08	0.0													
18	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.77	0.0	0.35	0.40	0.0													
19	0.0	0.0	0.0	0.0	0.17	0.0	0.03	0.67	0.0	1.35	0.0	0.0													
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.02	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57													
23	0.14S	0.0	0.26	0.10	0.05	0.14	0.0	0.0	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.25	0.20E	0.0													
25	0.0	0.0	0.0	0.0	0.14	0.0	0.41	0.0	0.0	0.03	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.21	1.47	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.0	0.0	0.0	0.38	2.30	0.0	0.06	0.0	0.0	0.0	0.05E	0.0													
28	0.0	0.0	0.0	0.0	0.08	0.0	0.22	0.0	0.0	0.16	0.04E	0.14													
29	0.0	0.34M	0.0	0.34	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
30	0.11E	0.0	0.06	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	2.73	0.66	4.28	2.22	4.28	2.81	2.64	3.83	1.31	2.97	3.38	1.74													
STA AV	2.63	3.29	3.76	2.35	3.13	2.73	2.61	3.38	3.09	3.20	2.61	3.06													

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period September 1960 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sec	Oct	Nov	Dec
1	0.321	0.246	0.253	0.315	0.203	0.129	0.034	0.039	0.009	0.004	0.035	0.075
2	0.242	0.394	0.297	0.234	0.167	0.132	0.359	0.390	0.010	0.004	0.037	0.261
3	0.265	0.416	0.257	0.215	0.159	0.122	0.583	0.126	0.006	0.005	0.042	0.206
4	0.487	0.290	0.223	0.260	0.148	0.106	0.146	0.087	0.009	0.007	0.038	0.323
5	0.289	0.254	0.200	0.419	0.149	0.091	0.081	0.050	0.009	0.009	0.045	0.149
6	0.247	0.246	0.208	0.245	0.138	0.085	0.062	0.069	0.097	0.009	0.039	0.103
7	0.248	0.246	0.192	0.215	0.054	0.055	0.053	0.147	0.048	0.066	0.113	0.099
8	0.174	0.228	0.188	0.215	0.124	0.106	0.051	0.104	0.017	0.017	0.064	0.113
9	0.159	0.222	0.199	0.210	0.123	0.115	0.049	0.049	0.013	0.017	0.046	0.125
10	0.170	0.207	0.292	0.193	0.098	0.109	0.048	0.036	0.036	0.023	0.327	0.120
11	0.159	0.201	0.319	0.189	0.125	0.153	0.052	0.069	0.114	0.021	0.118	0.092
12	0.177	0.197	13.079	0.181	0.198	0.147	0.051	0.027	0.025	0.022	1.544	0.082
13	1.282	0.193	5.793	0.178	0.129	0.110	0.054	0.020	0.015	0.021	0.460	0.092
14	17.746	0.198	0.537	0.178	0.209	0.102	0.065	0.023	0.012	0.021	0.224	0.161
15	1.411	0.208	0.390	0.198	0.226	0.071	0.046	0.027	0.014	0.022	0.135	0.122
16	0.479	0.197	0.454	0.165	0.167	0.061	0.036	0.023	0.016	0.025	0.110	0.088
17	0.377	0.199	4.721	0.166	0.134	0.108	0.028	0.018	0.022	0.023	0.103	0.081
18	0.322	0.183	0.629	0.170	0.142	0.134	0.025	0.154	0.026	0.030	0.308	0.083
19	0.292	0.186	0.437	0.159	0.070	0.075	0.027	0.271	0.013	0.343	0.195	0.094
20	0.277	0.202	0.356	0.172	0.127	0.062	0.025	0.182	0.006	0.090	0.116	0.091
21	0.277	0.189	0.303	0.184	0.103	0.042	0.020	0.018	0.006	0.029	0.094	0.089
22	0.277	0.180	0.292	0.166	0.091	0.050	0.021	0.020	0.007	0.026	0.098	0.228
23	0.347	0.193	0.379	0.158	0.108	0.051	0.021	0.017	0.007	0.026	0.110	0.314
24	0.401	0.193	0.287	0.350	0.138	0.095	0.023	0.015	0.004	0.027	0.115	0.141
25	0.265	0.191	0.246	0.262	0.160	0.047	0.034	0.012	0.005	0.058	0.179	0.104
26	0.237	0.175	0.242	0.187	0.110	0.437	0.050	0.008	0.008	0.037	0.148	0.094
27	0.234	0.198	0.242	0.251	3.237	0.322	0.045	0.007	0.014	0.025	0.148	0.101
28	0.251	0.197	0.227	0.248	1.079	0.067	0.070	0.009	0.018	0.037	0.151	0.131
29	0.246	0.264	0.235	0.269	0.331	0.052	0.051	0.007	0.024	0.044	0.155	0.110
30	0.251		0.227	0.310	0.209	0.073	0.023	0.008	0.010	0.034	0.083	0.089
31	0.266		0.219		0.157		0.020	0.008		0.028		0.104
MEAN	0.9089	0.2238	1.0298	0.2221	0.2778	0.1103	0.0727	0.0658	0.0207	0.0370	0.1793	0.1311
INCHES	1.724	0.397	1.953	0.408	0.527	0.203	0.138	0.125	0.038	0.070	0.329	0.249
STA AV	1.143	1.660	1.959	0.856	0.643	0.297	0.192	0.191	0.191	0.950	0.339	0.765

NOTES: To convert CFS to IN/DAY, multiply by 0.061186. STA AV based on record period September 1960 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 12 - 13, 1968												
3-12	RG P34R02 0.0	0.001	3-12	RG P34R02 5	0.0	0.0	3-12	110	0.25	0.0		
				35	0.0600	0.03		300	0.28	0.0012		
				105	0.0200	0.04		415	0.31	0.0021		
				128	0.0261	0.05		520	0.34	0.0030		
				152	0.1000	0.09		555	0.39	0.0035		
WATERSHED CONDITIONS:				249	0.0105	0.10		615	0.43	0.0038		
Mixed cover, farm woods,				335	0.0261	0.12		640	0.47	0.0043		
predominantly hardwoods, 44%;				405	0.0200	0.13		655	0.51	0.0046		
permanent pasture, usually a				439	0.0176	0.14		710	0.52	0.0049		
good cover of native grass				505	0.0231	0.15		720	0.52	0.0051		
and clover mixture, 26%;												
corn, 1%; hay crops, 25%;				535	0.0800	0.19		730	0.52	0.0053		
idle, 1%; roads, 2%; small				549	0.0857	0.21		740	0.54	0.0055		
grain, 1%.				559	0.1801	0.24		750	0.68	0.0058		
				635	0.0833	0.29		800	1.05	0.0062		
				701	0.0923	0.33		810	1.32	0.0067		
				715	0.1286	0.36		820	1.50	0.0073		
				735	0.0600	0.38		825	1.68	0.0076		
				743	0.2249	0.41		835	1.88	0.0084		
				750	0.2573	0.44		840	2.11	0.0088		
				805	0.3600	0.53		845	2.37	0.0093		
				821	0.0750	0.55		850	2.73	0.0098		
				851	0.0	0.55		855	2.99	0.0104		
				857	0.8000	0.63		900	3.25	0.0111		
				945	0.0125	0.64		910	3.51	0.0125		
				1005	0.0300	0.65		945	3.64	0.0178		
				1035	0.1200	0.71		955	3.43	0.0193		
				1050	0.2000	0.76		1005	3.25	0.0207		
				1110	0.1800	0.82		1015	3.11	0.0221		
				1135	0.0960	0.86		1030	2.98	0.0240		
				1158	0.0261	0.87		1110	2.88	0.0290		
				1215	0.1765	0.92		1120	3.20	0.0303		
				1225	0.0600	0.93		1130	3.36	0.0317		
				1250	0.0240	0.94		1140	3.94	0.0333		
				1310	0.1200	0.98		1150	4.56	0.0351		
				1335	0.0960	1.02		1155	4.99	0.0361		

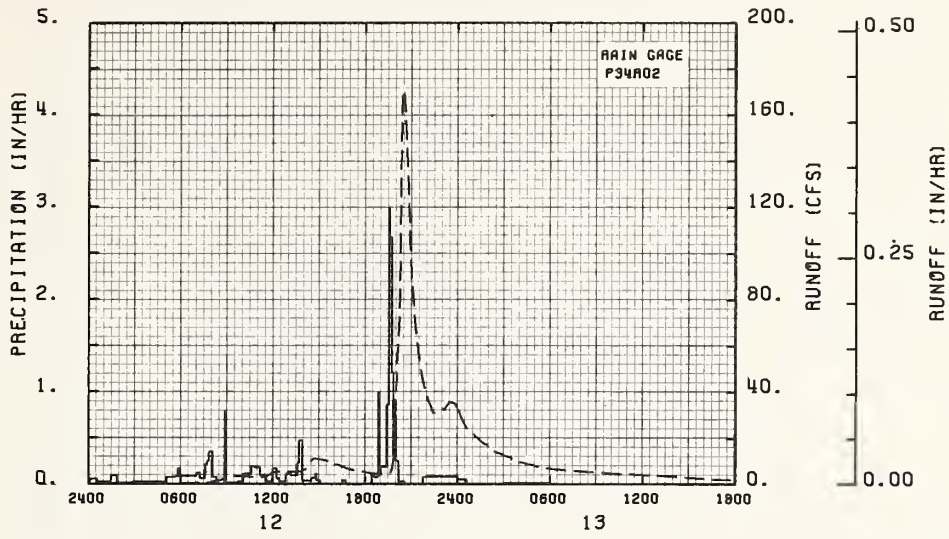
NOTES: To convert CFS to IN/HR, multiply by 0.0025494.

1968 SELECTED RUNOFF EVENT			BLACKSBURG VIRGINIA FOSTERS CREEK WATERSHED (13014)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			MARCH			12 - 13, 1968 (CONTINUED)				
3-12			1340		0.2398	1.04	3-12	1205	5.37	0.0383
			1355		0.4800	1.16		1305	5.34	0.0520
			1429		0.0353	1.18		1350	5.67	0.0625
			1445		0.0750	1.20		1400	6.31	0.0650
			1450		0.1200	1.21		1410	6.92	0.0678
			1505		0.0400	1.22		1420	8.32	0.0710
			1632		0.0	1.22		1425	9.24	0.0729
			1645		0.0461	1.23		1430	10.17	0.0750
			1825		0.0	1.23		1440	11.47	0.0796
			1835		0.1201	1.25		1450	10.90	0.0844
			1851		0.0750	1.27		1510	10.44	0.0935
			1854		1.0002	1.32		1530	9.97	0.1022
			1900		0.1000	1.33		1545	9.48	0.1084
			1922		0.1909	1.40		1555	9.00	0.1123
			1931		0.8667	1.53		1605	8.56	0.1160
			1933		3.0007	1.63		1615	8.11	0.1195
			1942		2.6668	2.03		1625	7.67	0.1228
			1950		1.2003	2.19		1635	7.22	0.1260
			1954		0.2999	2.21		1645	6.78	0.1290
			1958		0.7495	2.26		1655	6.48	0.1318
			2010		0.2500	2.31		1705	6.18	0.1345
			2035		0.0240	2.32		1715	5.89	0.1371
			2145		0.0	2.32		1725	5.60	0.1395
			2400		0.0844	2.51		1740	5.31	0.1430
3-13			35		0.0514	2.54		1755	5.08	0.1463
			300		0.0	2.54		1810	4.85	0.1495
			600		0.0133	2.58		1825	4.63	0.1525
								1845	4.41	0.1563
								1925	4.23	0.1636
								1935	4.77	0.1655
								1940	5.38	0.1666
								1945	7.02	0.1679
								1950	10.71	0.1698
								1955	21.03	0.1732
								2000	40.51	0.1798
								2005	55.77	0.1900
								2010	63.97	0.2027
								2015	81.45	0.2182
								2020	147.27	0.2425
								2025	169.89	0.2762
								2030	170.65	0.3124
								2035	162.80	0.3478
								2040	150.32	0.3810
								2045	135.79	0.4115
								2050	120.84	0.4387
								2055	104.71	0.4626
								2100	90.39	0.4834
								2105	81.42	0.5016
								2110	74.41	0.5181
								2115	68.48	0.5333
								2120	62.40	0.5472
								2125	58.40	0.5600
								2130	53.13	0.5719
								2135	49.71	0.5828
								2140	47.34	0.5931
								2145	44.33	0.6029
								2150	41.84	0.6120
								2155	40.12	0.6207
								2200	38.02	0.6290
								2205	36.68	0.6369
								2210	34.70	0.6445
								2215	33.85	0.6518
								2220	32.11	0.6588
								2225	30.60	0.6655
								2245	31.73	0.6920
								2255	32.55	0.7056
								2310	31.83	0.7261
								2315	33.79	0.7331
								2325	35.52	0.7478
								2350	34.64	0.7851
								2400	32.27	0.7993
								5	31.34	0.8061
								10	29.54	0.8126
								20	27.23	0.8247
								30	24.99	0.8358

NOTES: To convert CFS to IN/HR, multiply by 0.0025494.

1968 SELECTED RUNOFF EVENT			BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 12 - 13, 1968 (CONTINUED)										
							3-13	40	23.61	0.8461
								50	22.24	0.8558
								100	21.60	0.8651
								110	20.31	0.8740
								120	19.67	0.8825
								130	18.42	0.8906
								140	17.33	0.8982
								155	16.76	0.9091
								205	15.67	0.9160
								215	15.09	0.9225
								220	14.08	0.9256
								230	13.67	0.9315
								240	13.20	0.9372
								250	12.74	0.9427
								300	12.28	0.9480
								310	11.83	0.9531
								325	11.34	0.9605
								335	10.40	0.9651
								350	9.95	0.9716
								400	9.48	0.9757
								415	9.01	0.9816
								425	8.57	0.9853
								450	8.13	0.9942
								505	7.68	0.9992
								520	7.24	1.0040
								550	6.80	1.0130
								605	6.50	1.0172
								625	6.21	1.0226
								650	5.91	1.0290
								725	5.62	1.0376
								755	5.32	1.0446
								830	5.09	1.0523
								900	4.87	1.0586
								940	4.64	1.0667
								1015	4.41	1.0734
								1055	4.18	1.0807
								1135	4.00	1.0877
								1225	3.82	1.0960
								1305	3.64	1.1023
								1325	3.45	1.1053
								1340	3.27	1.1074
								1400	3.13	1.1101
								1420	2.98	1.1127
								1435	2.83	1.1145
								1450	2.68	1.1163
								1510	2.54	1.1185
								1530	2.42	1.1206
								1545	2.30	1.1221
								1605	2.19	1.1240
								1625	2.08	1.1258
								1645	1.96	1.1275
								1710	1.87	1.1295
								1740	1.77	1.1318

NOTES: To convert CFS to IN/HR, multiply by 0.0025494.



EVENT OF MARCH 12 - 13, 1968
 BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)

BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)

LOCATION: Bedford County, Va., on Route No. 460, about 6 mi. west of Forest, Va., near Goode, Va., Elk Creek, High Otter River.

AREA: 1058.00 acres 1.65 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.09	0.64	3.30	3.20	3.31	1.78	3.81	3.38	1.06	4.50	3.35	1.78	32.20															
	O	1.004	0.369	0.803	0.429	0.384	0.205	0.168	0.242	0.063	0.220	0.481	0.305	4.674															
STA AV	P	2.56	3.43	3.45	2.21	3.23	2.79	3.36	3.72	3.35	2.94	3.08	2.94	37.08															
	Q	0.939	1.210	1.325	0.719	0.486	0.411	0.249	0.555	0.256	0.424	0.551	0.683	7.808															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Date	Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	8-14	0.071		8-14	0.061	8-14	0.090	3-16	0.115	3-16	0.166	3-16	0.217	3-16	0.268	1-13	0.493
MAXIMUMS FOR PERIOD OF RECORD																	
	8-23	0.390		8-23	0.330	8-24	0.550	8-24	1.030	8-23	1.630	8-23	2.260	8-22	2.420	8-20	2.800
	1967			1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: Mixed cover, corn, 3%; tobacco, 2%; hay crops, 25%; permanent pasture, usually a good cover of native grass mixture, 26%; farm woods, a mixture of hardwoods and pine, 37%; roads, 1%; idle, 6%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.15-5. Precipitation: Thiessen weighted from R-1, R-2, and R-3. STA AV determined from continuous records from September 1960 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Bedford, Virginia.

1968 DAILY PRECIPITATION (inches)														BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.26	0.00	0.0	0.0	0.11	0.0	0.0	0.0	0.28	2	0.0	0.32E	0.0	0.0	0.17	0.46H	0.21	0.0	0.0	0.0				
3	0.19	0.0	0.0	0.23	0.04	0.0	0.07	0.04	0.0	0.07	0.00	0.10	4	0.01	0.0	0.0	0.34	0.03	0.0	0.0	0.30	0.0	0.09				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	6	0.17H	0.0	0.0	0.0	0.0	0.0	0.19	0.51	0.15	0.0				
7	0.05H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.15	8	0.0	0.0	0.0	0.02E	0.0	0.33	0.0	0.0	0.0	0.0				
9	0.06H	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.23	0.0	0.0	0.27H	10	0.0	0.0	0.46	0.0	0.0	0.0	0.05	0.66	0.0	0.39H				
11	0.0	0.0	0.02E	0.0	0.08	0.00	0.34	0.17	0.00	0.0	0.35S	0.0	12	0.0	0.0	1.02E	0.0	0.21	0.0	0.02	0.0	1.01	0.96S				
13	1.03H	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	14	0.40S	0.0	0.0	0.0	0.61	0.0	0.10E	1.92	0.0	0.11E				
15	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	16	0.0	0.0	1.22E	0.0	0.0	0.0	0.06	0.0	0.09	0.07				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.64	0.0	0.0	0.0	0.07	18	0.0	0.0	0.0	0.0	0.0	0.22	0.04	0.0	0.94	0.77				
19	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	1.50	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.74				
23	0.13S	0.0	0.32E	0.30	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.03	24	0.03S	0.0	0.0	0.45	0.0	0.0	0.23	0.0	0.03E	0.07				
25	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.23	0.34	0.45	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.20	1.86	0.0	0.57	0.0	0.0	0.0	0.0	0.00	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.32S	0.0	1.32	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TOTAL	2.09	0.64	3.30	3.20	3.31	1.78	3.81	3.38	1.06	4.50	3.35	1.78		
	STA AV	2.56	3.43	3.45	2.21	3.23	2.79	3.36	3.72	3.35	2.94	3.08	2.94														

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period September 1960 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.214	0.766	0.459	0.833	0.763	0.426	0.146	0.182	0.125	0.074	0.245	0.387
2	0.992	0.942	0.508	0.646	0.646	0.446	0.150	0.315	0.120	0.077	0.237	0.467
3	0.991	0.808	0.437	0.724	0.594	0.419	0.268	0.227	0.084	0.104	0.227	0.343
4	1.771	0.761	0.446	0.787	0.520	0.415	0.215	0.227	0.103	0.108	0.250	0.569
5	1.240	0.723	0.413	0.956	0.453	0.336	0.175	0.228	0.088	0.082	0.256	0.481
6	1.025	0.674	0.505	0.652	0.416	0.329	0.162	0.165	0.188	0.089	0.262	0.454
7	0.953	0.647	0.454	0.665	0.416	0.355	0.151	0.132	0.103	0.282	0.307	0.419
8	0.757	0.659	0.454	0.665	0.416	0.393	0.157	0.145	0.091	0.112	0.245	0.375
9	0.738	0.607	0.454	0.649	0.397	0.634	0.137	0.145	0.083	0.112	0.260	0.348
10	0.736	0.554	0.618	0.631	0.359	0.413	0.138	0.170	0.178	0.091	0.525	0.345
11	0.631	0.511	0.527	0.566	0.344	0.345	0.181	0.198	0.182	0.095	0.383	0.305
12	0.576	0.518	2.308	0.549	0.455	0.338	0.188	0.174	0.085	0.346	4.846	0.347
13	1.535	0.497	1.777	0.542	0.385	0.296	0.235	0.139	0.094	0.420	1.453	0.362
14	8.612	0.538	1.058	0.539	0.573	0.277	0.837	5.117	0.101	0.161	0.869	0.395
15	2.303	0.549	0.934	0.536	0.526	0.267	0.379	0.601	0.085	0.146	0.681	0.336
16	1.569	0.536	4.402	0.489	0.397	0.265	0.176	0.336	0.097	0.150	0.599	0.314
17	1.483	0.532	6.647	0.491	0.359	0.406	0.400	0.273	0.097	0.163	0.527	0.312
18	1.904	0.477	2.062	0.420	0.340	0.300	0.344	0.206	0.075	0.437	2.353	0.345
19	2.154	0.461	1.440	0.483	0.383	0.278	0.235	0.209	0.077	3.068	1.379	0.347
20	1.644	0.512	1.184	0.413	0.364	0.232	0.169	0.175	0.076	0.651	0.874	0.361
21	1.695	0.506	1.027	0.467	0.310	0.225	0.127	0.162	0.070	0.375	0.643	0.312
22	1.405	0.445	0.920	0.447	0.345	0.226	0.147	0.128	0.070	0.305	0.585	0.614
23	1.434	0.450	1.060	0.416	0.357	0.217	0.143	0.129	0.070	0.288	0.522	0.725
24	1.308	0.497	0.847	0.841	0.351	0.204	0.133	0.176	0.065	0.275	0.424	0.477
25	0.981	0.464	0.776	0.511	0.315	0.186	0.163	0.149	0.051	0.272	0.459	0.436
26	0.881	0.431	0.723	0.456	0.341	0.195	0.367	0.131	0.066	0.236	0.415	0.413
27	0.852	0.434	0.686	0.492	2.985	0.224	0.698	0.099	0.081	0.283	0.357	0.424
28	0.849	0.408	0.644	0.442	1.124	0.173	0.264	0.087	0.074	0.271	0.416	0.877
29	0.839	0.513	0.657	1.587	0.744	0.166	0.213	0.117	0.070	0.232	0.392	0.602
30	0.826	0.654	1.186	0.592	0.592	0.138	0.199	0.098	0.070	0.233	0.378	0.526
31	0.751	0.620	0.620	0.502	0.502	0.502	0.185	0.098	0.098	0.231	0.546	0.546
MEAN	1.4403	0.5663	1.1515	0.6361	0.5507	0.3042	0.2413	0.3464	0.0940	0.3151	0.7122	0.4376
INCHES	1.004	0.369	0.803	0.429	0.384	0.205	0.168	0.242	0.063	0.220	0.481	0.305
STA AV	0.939	1.210	1.325	0.719	0.486	0.411	0.249	0.555	0.256	0.424	0.551	0.683

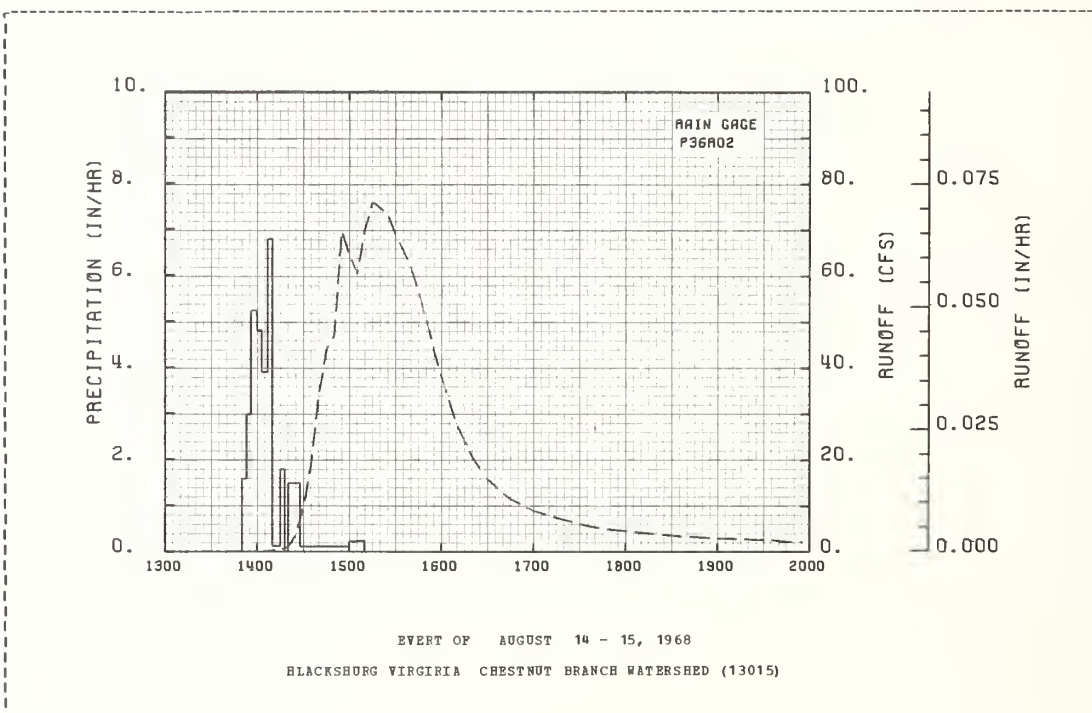
NOTES: To convert CFS to IN/DAY, multiply by 0.022495. STA AV based on record period September 1960 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 14 - 15, 1968												
8-14	RG P36R02	0.002	8-14	RG P36R02	0.0	0.0	8-14	1405	0.20	0.0		
	0.0			1350	1.6000	0.08		1415	0.47	0.0001		
				1356	3.0000	0.23		1420	1.09	0.0002		
				1400	5.2501	0.58		1425	3.65	0.0004		
				1403	4.8000	0.82		1430	9.58	0.0009		
WATERSHED CONDITIONS:				1407	3.8999	1.08		1435	19.12	0.0020		
Mixed cover, corn, 3%;				1410	6.8000	1.42		1440	33.96	0.0040		
tobacco, 2%; hay crops, 25%;				1415	0.1200	1.43		1445	44.02	0.0071		
permanent pasture, usually a				1418	1.8000	1.52		1450	47.00	0.0106		
good cover of native grass				1420	0.0	1.52		1455	69.59	0.0151		
mixture, 26%; farm woods, a				1428	1.4993	1.72		1500	64.45	0.0205		
mixture of hardwoods and				1444	0.1125	1.75		1505	60.30	0.0253		
pine, 37%; roads, 1%; idle,				1500	0.1125	1.78		1510	69.93	0.0303		
6%.				1510	0.2400	1.82		1515	75.86	0.0362		
								1525	73.14	0.0477		
								1530	68.67	0.0534		
								1535	65.36	0.0586		
								1540	61.85	0.0635		
								1545	56.46	0.0683		
								1550	50.38	0.0724		
								1555	43.94	0.0760		
								1600	38.04	0.0793		
								1605	32.74	0.0820		
								1610	27.71	0.0843		
								1615	24.15	0.0864		
								1620	20.48	0.0881		
								1625	17.99	0.0896		
								1630	15.67	0.0910		
								1635	14.20	0.0921		
								1640	12.66	0.0931		
								1645	11.40	0.0941		
								1650	10.51	0.0949		
								1655	9.59	0.0957		
								1700	8.81	0.0964		
								1705	8.32	0.0971		

NOTES: To convert CFS to IN/HR, multiply by 0.0009375.

1968 SELECTED RUNOFF EVENT			BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14 - 15, 1968 (CONTINUED)										
							8-14	1710	7.81	0.0977
								1715	7.29	0.0983
								1720	6.77	0.0988
								1725	6.36	0.0993
								1730	5.95	0.0998
								1735	5.55	0.1002
								1745	4.95	0.1010
								1755	4.59	0.1017
								1805	4.27	0.1024
								1815	3.94	0.1030
								1825	3.61	0.1036
								1835	3.30	0.1041
								1845	3.13	0.1046
								1855	2.89	0.1051
								1905	2.78	0.1055
								1915	2.66	0.1059
								1925	2.53	0.1063
								1935	2.40	0.1067
								1945	2.15	0.1071
								1955	2.04	0.1074
								2010	1.92	0.1079
								2020	1.83	0.1082
								2035	1.75	0.1086
								2050	1.66	0.1090
								2105	1.58	0.1094
								2125	1.49	0.1099
								2145	1.41	0.1104
								2215	1.32	0.1110
								2245	1.24	0.1116
								2315	1.15	0.1122
							8-15	2400	1.07	0.1130
								20	1.07	0.1133
								100	1.01	0.1139

NOTES: To convert CFS to IN/HR, multiply by 0.0009375.



KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

LOCATION: Northumberland County, Pennsylvania 6 miles northeast of Klingerstown, Pennsylvania Mahantango Creek Watershed, Susquehanna River Basin.

AREA: 1773.00 acres 2.77 sq. miles

SLOPES: SLOPE-PERCENT 0-3 3-8 8-15 15-25 25-60
Percent of area 1.1 32.8 30.5 8.8 4.4 22.4

SOILS: Moderately weathered channery or stony loam soils developed from red, gray, or brown sandstone, siltstone, and shale.

SERIES OR TYPE (TEXTURE)	Per- cent of area	Avg. depth (in.)	TOPSOIL		SUBSOIL		SUBSTRATUM		
			Structure	Perme- ability	Structure	Perme- ability	Avg. depth (in.)	Perme- ability	Internal drainage
Leck Kill channery silt loam	19.6	8	Weak fine granular	Moderate to moderately rapid	Weak medium subangular blocky	Moderately rapid	18	Moderately rapid	Well drained
Harleton channery silt loam	17.3	10	Weak fine granular	Moderate to moderately rapid	Moderate medium subangular blocky	Moderate	20	Moderate	Well drained
Dekalb very stony sandy loam	14.9	6	Weak very fine granular	Moderately rapid	Weak medium subangular blocky	Moderately rapid	32+	N.A.	Well drained
Heckesville channery loam	13.2	9	Weak fine granular	Moderate	Moderate medium blocky	Moderately slow	24	Moderate	Well drained
Klinesville shaly silt loam	10.0	6	Weak fine granular	Moderately rapid	Weak medium subangular blocky	Moderately rapid	18+	N.A.	Well drained
Berks channery silt loam	7.8	9	Weak fine granular	Moderately rapid	Weak fine subangular blocky	Moderately rapid	25	Moderately rapid	Well drained
Weikert channery silt loam	3.5	8	Weak fine granular	Moderately rapid	Weak fine subangular blocky	Moderately rapid	20+	N.A.	Well drained
Calviu channery silt loam	2.7	9	Weak fine granular	Moderate to moderately rapid	Moderate fine subangular blocky	Moderately rapid	18	Moderately rapid	Well drained
Heckesville very stony loam	2.6	8	Weak fine granular	Moderate	Moderate coarse blocky	Moderately slow	24	Moderate	Well drained
Laidig very stony loam	1.4	8	Weak fine granular	Moderate to moderately rapid	Weak medium subangular blocky	Moderate	37	Moderately slow	Well drained
Alvira silt loam	1.3	10	Weak fine granular	Moderate	Moderate fine platy	Moderately slow	30	Slow	Somewhat poorly drained
Albrights silt loam	1.1	9	Weak fine granular	Moderate	Moderate fine blocky	Moderately slow	20	Moderately slow	Moderately well drained
Basher silt loam	1.1	9	Moderate medium granular	Moderate	Very weak medium blocky	Moderate to moderately rapid	40+	Moderate	Moderately well drained
Couyughan silt loam	0.9	9	Weak fine granular	Moderate	Moderate medium subangular blocky	Moderate	31	Slow	Poorly to somewhat poorly drained
Sheladine silt loam	0.6	10	Weak fine granular	Moderately slow	Moderate very coarse prismatic	Slow	30	Moderately slow to moderate	Poorly drained
Dekalb extremely stony sandy loam	0.3	6	Weak fine granular	Moderately rapid	Weak medium subangular blocky	Moderately rapid	32+	N.A.	Well drained

Cooperative Research Project with USDA, Soil Conservation Service, The Pennsylvania State University Agricultural Experiment Station, and the Institute for Research on Land and Water Resources of the Pennsylvania State University

SOILS - (CONTINUED)

SERIES OR TYPE (TEXTURE)	Per- cent of area	Avg. depth (in.)	TOPSOIL		SUBSOIL		SUBSTRATUM		
			Structure	Perme- ability	Structure	Perme- ability	Avg. depth (in.)	Perme- ability	Internal drainage
Laidig gravelly loam	0.3	8	Weak fine granular	Moderate to moderately rapid	Weak fine subangular blocky	Moderate	37	Moderately slow	Well drained
Other series less than 1% of area	1.4								
Total	100.0								

EROSION: Erosion Class + 1 2 3 4 5
Percent of Area 0.0 20.4 79.6 0.0 0.0 0.0

LAND CAPABILITY: Class I II III IV V VI VII VIII
Percent of Area 0.0 29.2 32.1 10.0 0.0 5.9 22.8 0.0

GEOLOGY: The watershed lies on the north flank of the Broad Mountain anticlinorium. The strata dip to the north at 20 to 40 degrees, the interbedded red and gray sandstones, siltstones, shales and conglomerates are of Upper Devonian to Mississippian age. A thick mantle (5-20 feet) of Quaternary talus blankets the upper 10 percent of the watershed. Approximately 70 percent of the watershed is underlain by sandstone-siltstone and 30 percent by shale. The permeability of the rock strata is low. The median well yields are .005 gpm/ft/ft. Groundwater gradients are steep and roughly parallel the surface topography. Springs discharge at the contact of sandstone and shale formations in small gullies and stream channels. The watershed lies 12 miles south of the glacial boundary. The soils are thin with poorly developed horizonation. Source of data: J. B. Urban, Geologist, ARS.

SYSTEM	Formation and percent of area		Description
Quaternary	Talus	10.1	Boulder scree, large boulders and blocks of gneiss, sandstone and quartz conglomerate (6 in. dia. to 5 ft. dia.) derived from weathering of steeply dipping Mississippian rock units exposed on crest of mountain. This material partially covers Buddy Run Member of Catskill Formation.
Mississippian	Pocono Formation		
	Beckville Member	0.5	Sandstone and quartz conglomerate, lt. gray to gray brn., 300-400 feet thick, major ridgeformer of region.
Mississippian- Devonian	Catskill Formation		Angular unconformity.
	Specht Kopt Member	4.5	Sandstone and conglomerate, gray with a few red beds (250 to 800 feet) gneiss, conglomerate at base of formation, few thin shales and coal strata but usually covered (ridge former on north watershed boundary).
Devonian	Catskill Formation		
	Buddys Run Member	58.7	Sandstone and shale, red to red brown, 4,000 to 5,400 feet thick rarely exposed at surface, quartz the predominant mineral. (red graywacke) (forms valley slopes)
	Irish Valley Member	17.2	Sandstone, siltstone and shale, interbedded red brown and gray strata, 1,500 to 2,250 feet thick (typically a micaceous subgraywacke) (forms low ridges and valley slopes).
	Fort Littleton Formation Trimmers Rock sandstone	9.0	Sandstone, siltstone and shale, gray to lt. brown, 2,000 to 2,400 feet thick, predominantly sandstone (forms rugged topography of inter-mountain valley with outcrops at Watershed WE-38 gage station).
TOTAL		100.0	All units indicated dip to north at 20 degrees to 40 degrees. Weir site on crest of local anticline.

SURFACE DRAINAGE: Good; Length of principal waterway approximately 8,395 feet, a natural watershed with surface flow to a well-defined waterway.

CHARACTER OF FLOW: Perennial, continuous.

INSTRUMENTATION: Ennoff: Dual weir control, high flows, 16 inch broad crested concrete V-notch weir with 5 to 1 side slopes, low flows, 1.5 foot deep 90 degree sharp crested V-notch weir. Weirs supply separate stilling wells equipped with Fischer and Porter digital recorders with a 5-minute recording cycle. Precipitation: Two Fischer and Porter digital recording rain gages with a 5-minute recording cycle.

WATERSHED CONDITIONS: Mixed cover area, more than half of which is in 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: Corn 20.4 percent; small grain 20.0 percent; pasture 4.0 percent; hay 12.9 percent; vegetables 0.7 percent; orchard 0.5 percent; homesteads and roads 3.1 percent; forest 37.8 percent; and idle 0.6 percent.

GENERALLY REPRESENTS: Intensively cultivated uplands having generally good surface and internal drainage with moderate erosion in central and north central Pennsylvania. Applicable to similar lands designated as northern Appalachian Ridges and Valleys land resource area (S-147).

MONTHLY PRECIPITATION AND RUNOFF (inches)														KLINGESTOWN, PENNSYLVANIA WATERSHED WE-38																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38	34.83																
	Q	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168	14.322																
STA AV	P	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38	34.83																
	Q	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168	14.322																

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Discharge Date	Maximum Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	9-6	0.041	9-6	0.034	9-10	0.060	9-10	0.133	9-10	0.234	3-23	0.429	3-23	0.719	3-17	1.821
MAXIMUMS FOR PERIOD OF RECORD																
	9-6	0.041	9-6	0.034	9-10	0.060	9-10	0.133	9-10	0.234	3-23	0.429	3-23	0.719	3-17	1.821
	1968		1968		1968		1968		1968		1968		1968		1968	

NOTES: itation and runoff records began Jan. 1, 1968. Precipitation data Thiessen weighted average for rain gages #H37 and #E37. Length of record 1 yr (1968). For long-time precipitation records, see U.S. Weather Bureau station records at Selinsgrove, CAA Airport, Pennsylvania.

1968 DAILY AIR TEMPERATURE (degrees F)														KLINGESTOWN, PENNSYLVANIA WATERSHED WE-38													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	18	-3	39	32	32	25	49	26	56	38	70	59	92	67	84	62	68	59	79	54	62	39	39	32			
2	22	11	43	31	36	11	58	37	65	43	73	54	86	66	82	66	69	52	80	59	68	47	51	33			
3	29	20	32	29	32	15	62	46	79	52	69	46	77	57	86	68	78	57	70	40	49	44	50	39			
4	30	2	43	26	44	25	67	45	61	40	73	49	73	47	80	64	81	64	52	35	50	46	50	33			
5	16	4	42	22	46	33	47	26	57	36	79	56	77	59	88	67	71	63	55	33	50	42	35	26			
6	24	16	42	26	39	15	51	33	54	33	86	61	77	48	85	69	77	50	58	49	48	43	34	21			
7	15	1	41	20	40	22	60	44	63	42	87	63	79	60	85	63	75	53	61	49	47	43	30	22			
8	14	-2	37	22	54	39	62	48	68	48	84	66	86	65	86	67	75	60	62	46	47	36	28	16			
9	17	3	34	8	47	36	67	39	67	53	84	62	84	60	87	66	75	61	63	48	43	34	24	3			
10	22	2	13	6	46	36	61	41	70	53	84	58	86	67	80	56	68	62	55	51	40	34	21	3			
11	16	-6	17	10	42	28	58	34	59	51	70	60	77	64	70	47	72	57	59	53	41	30	28	15			
12	24	3	23	8	36	25	67	48	72	53	78	60	82	62	76	54	68	47	66	56	35	31	39	27			
13	32	24	24	6	30	16	79	52	57	45	66	49	86	65	80	65	74	53	68	46	37	27	49	35			
14	39	27	32	22	38	25	79	45	61	51	73	51	87	69	83	61	74	50	66	53	40	34	38	16			
15	29	8	33	18	43	34	58	36	60	52	82	63	85	66	80	57	76	55	68	52	49	39	20	10			
16	21	11	36	23	52	43	62	32	64	51	69	51	91	67	76	68	78	53	74	56	44	36	30	20			
17	36	18	38	13	44	34	68	44	70	53	63	45	92	68	89	66	79	57	75	62	50	40	35	16			
18	43	26	27	17	45	35	75	53	63	45	74	54	91	71	81	68	78	62	61	44	50	42	36	21			
19	40	26	33	21	60	41	77	48	66	41	77	52	88	65	72	64	75	50	66	41	39	30	39	28			
20	45	34	26	-1	62	49	74	51	57	40	68	44	80	53	87	69	79	51	64	46	37	22	36	33			
21	41	24	16	3	64	50	65	48	63	39	71	56	85	63	90	64	80	55	60	37	47	28	33	29			
22	42	33	27	14	63	41	53	48	66	44	82	61	88	63	90	70	83	59	65	44	47	28	36	29			
23	39	12	35	11	41	26	59	42	56	51	79	60	88	67	89	68	78	62	61	44	50	42	36	22			
24	22	7	32	11	39	22	52	34	55	44	82	65	85	67	89	67	84	61	52	45	56	37	28	14			
25	26	11	38	18	51	37	50	35	68	40	84	70	79	62	87	58	83	58	53	44	46	28	19	10			
26	37	24	40	20	59	35	65	46	73	46	73	58	83	64	72	51	71	45	49	36	50	35	22	13			
27	44	33	42	24	70	49	55	35	58	44	61	52	79	67	71	43	71	45	59	44	50	35	40	20			
28	38	34	46	30	74	48	59	44	55	46	71	53	84	50	72	51	69	41	57	38	63	45	53	28			
29	40	37	34	24	76	43	64	38	68	55	81	65	77	49	73	47	63	45	46	29	49	37	29	25			
30	40	34			64	48	58	39	69	49	90	66	79	64	73	47	70	45	46	25	38	32	32	22			
31	37	31			70	42			60	49			80	68	76	52		51	32				34	5			
AV.	30	16	33	17	49	33	62	41	63	46	76	57	83	62	81	60	74	54	61	45	47	35	34	21			
MEAN	23.3		25.5		41.5		51.7		54.7		66.6		72.8		71.1		64.4		53.6		41.8		28.1				
STA AV	30	16	33	17	49	33	62	41	63	46	76	57	83	62	81	60	74	54	61	45	47	35	34	21			

NOTES: Temperature data taken daily with maximum and minimum thermometers, except on weekends and holidays, when data taken from hydrothermograph charts. The recording period is from 0930 for the date shown to 0930 the following day. Data recorded at #H37 meteorological station. STA AV based on 1 yr (1968) record.

1968 DAILY PRECIPITATION (inches) KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.055	0.24	0.0	0.0	0.0	1.53	0.0	0.0	0.05	0.30
2	0.0	0.30	0.0	0.0	0.0	0.30	0.0	0.0	0.36	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.11	0.15	0.0	0.0	0.0	0.30	0.05	0.0
4	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.34
5	0.0	0.0	0.0	0.10	0.05	0.0	0.0	0.0	0.24	0.0	0.05	0.0
6	0.0	0.0	0.0	0.0	0.05	0.0	0.0	1.40	2.47	0.24	0.25	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.25	0.79	0.0
8	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0
10	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	2.03	0.05	0.24	0.0
11	0.0	0.0	0.05	0.0	0.45	0.0	0.0	0.05	0.05	0.0	0.0	0.0
12	0.0	0.0	0.35	0.0	0.0	1.05	0.0	0.0	0.0	0.05	0.295	0.0
13	0.0	0.0	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
14	0.555	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.20
15	0.055	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.35	0.0	0.20	0.50	0.0	0.05	0.0	0.0	0.25	0.0
17	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0
18	0.0	0.0	0.30	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.49	0.0
19	0.0	0.0	0.05	0.0	0.44	0.34	0.05	0.10	0.0	0.89	0.05	0.0
20	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.05
21	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.24	0.0	0.0	0.09	0.10	0.05	0.0	0.0	0.20
23	0.0	0.0	1.04	0.0	0.30	0.0	0.05	0.20	0.0	0.0	0.0	0.10
24	0.0	0.0	0.0	1.58	0.40	0.05	0.67	0.80	0.0	0.14	0.25	0.0
25	0.0	0.0	0.0	0.0	0.0	0.65	0.05	0.0	0.24	0.20	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.05	0.0	0.20	0.45	0.0	0.0	0.0	0.0	0.0	0.10
28	0.20	0.0	0.0	0.0	1.39	0.10	0.0	0.0	0.0	0.05	0.10	0.0
29	0.05	0.20	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.30	0.0
30	0.65	0.0	0.0	0.24	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38
STA AV	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38

NOTES: Precipitation values are Thiessen weighted average of rain gages MB37 and ME37. STA AV based on 1 yr (1968) record.

1968 MEAN DAILY DISCHARGE (cfs) KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.344	14.105	1.098	4.150	3.130	13.903	1.171	2.543	0.239	0.528	0.373	2.362
2	1.264	13.824	1.118	3.268	2.771	10.578	1.007	0.867	0.405	0.501	0.368	3.388
3	1.303	14.584	0.926	3.030	2.489	7.505	0.910	0.539	0.296	0.638	0.392	3.158
4	1.322	10.743	1.005	2.947	2.342	5.936	0.864	0.506	0.250	0.533	0.391	6.283
5	1.207	7.990	1.112	2.774	2.044	4.744	0.779	0.404	0.265	0.467	0.383	7.471
6	1.170	6.633	1.078	2.294	1.823	4.006	0.746	2.093	11.055	0.493	0.422	6.212
7	1.110	5.584	0.946	2.206	1.630	3.437	0.697	2.092	4.341	0.880	2.049	4.740
8	2.328	4.727	1.056	2.136	1.525	2.996	0.691	1.033	2.360	0.516	1.828	3.792
9	1.054	4.106	1.150	1.915	1.546	2.665	0.644	0.790	1.600	0.459	1.427	2.946
10	1.010	3.401	1.627	1.849	1.472	2.334	0.641	0.664	12.111	0.470	1.944	2.481
11	0.911	3.226	1.607	1.713	1.652	2.155	0.630	0.542	22.729	0.474	1.746	2.204
12	1.900	2.654	1.405	1.576	1.661	4.313	0.593	0.463	9.072	0.447	2.289	2.109
13	0.907	2.185	1.806	1.488	1.405	2.783	0.533	0.447	4.768	0.448	2.478	2.153
14	0.935	2.182	1.619	1.455	1.290	2.178	0.500	0.464	3.071	0.432	2.525	2.025
15	1.319	2.079	1.533	1.477	1.302	1.876	0.502	0.373	2.234	0.410	4.576	1.844
16	2.059	1.878	2.033	1.335	1.468	2.648	0.451	0.404	1.770	0.393	13.928	1.741
17	2.326	1.666	19.625	1.251	1.269	2.038	0.419	0.399	1.481	0.383	18.078	1.432
18	2.081	1.605	19.811	1.113	1.271	1.752	0.421	0.333	1.247	0.398	18.132	1.329
19	1.982	1.501	15.955	1.204	1.498	2.076	0.385	0.384	1.105	1.463	17.100	1.409
20	2.159	1.477	11.587	1.131	1.478	1.786	0.327	0.361	0.994	0.715	10.257	1.375
21	3.151	1.408	9.262	1.122	1.257	1.501	0.301	0.277	0.925	0.520	6.517	1.200
22	4.030	1.263	8.796	1.336	1.123	1.369	0.296	0.278	0.861	0.551	4.792	1.208
23	4.165	1.217	25.209	1.154	1.257	1.219	0.303	0.352	0.862	0.467	3.601	1.725
24	3.553	1.110	26.238	5.814	1.965	1.164	0.792	1.286	0.804	0.473	3.404	1.291
25	3.110	1.054	14.136	6.748	1.558	1.127	0.677	0.539	0.868	0.646	2.989	1.035
26	2.814	1.025	9.794	5.570	1.435	2.443	0.408	0.401	0.766	0.471	2.400	0.925
27	2.672	1.053	7.585	4.583	1.434	1.583	0.368	0.336	0.663	0.436	2.136	0.987
28	3.033	1.049	6.435	3.786	6.652	2.269	0.352	0.326	0.608	0.456	2.024	8.941
29	4.771	1.093	5.548	3.375	12.525	1.548	0.305	0.368	0.554	0.435	3.367	4.568
30	16.301	4.593	3.563	15.053	1.314	0.280	0.280	0.282	0.536	0.399	2.239	2.313
31	22.670	4.093	22.472	2.472	2.472	0.283	0.232	0.232	0.365	0.365	0.365	1.919
MEAN	3.2245	4.0141	6.7670	2.5787	3.2837	3.2410	0.5572	0.6574	2.9613	0.5247	4.4716	2.8052
INCRS	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168
STA AV	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168

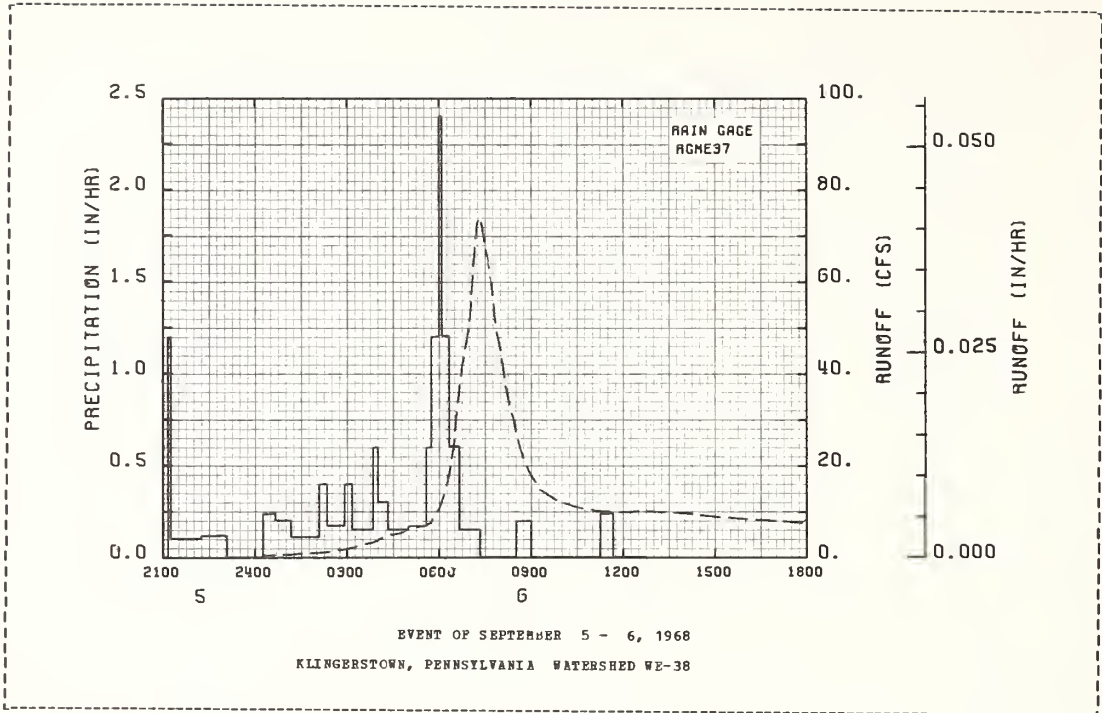
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013426. Records are good. Some periods of winter records are affected by ice on control, no adjustments were made for these records. STA AV based on 1 yr (1968) record period.

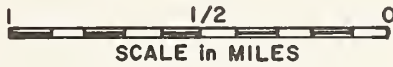
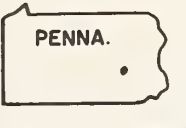
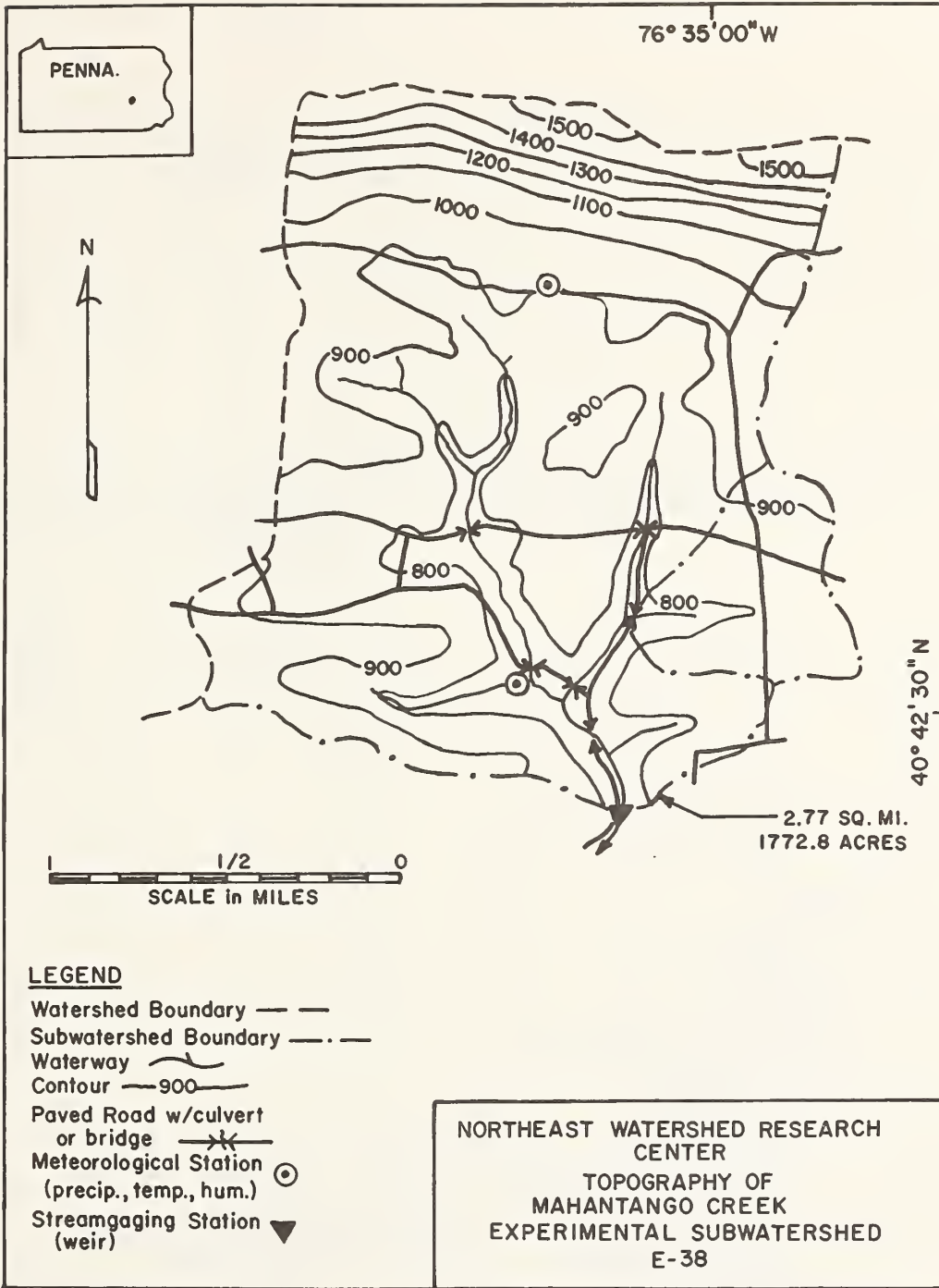
1968 SELECTED RUNOFF EVENT			KLINGERTOWN, PENNSYLVANIA WATERSHED WE-38							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 5 - 6, 1968										
9- 5	RG ME37 0.0		9- 5	2110	0.0	0.0	9- 6	20	0.520	0.0
9- 6		0.000		2115	1.1999	0.10		30	0.540	0.0
				2215	0.1000	0.20		45	0.590	0.0001
				2305	0.1200	0.30		55	0.650	0.0002
			9- 6	10	0.0	0.30		105	0.730	0.0003
WATERSHED CONDITIONS:				15	0.0	0.30		115	0.760	0.0004
Predominantly strip crop				40	0.2400	0.40		125	0.860	0.0005
contour row cultivation,				110	0.2000	0.50		140	0.960	0.0006
with corn in harvest, 20.4%;				205	0.1091	0.60		150	0.990	0.0007
small grain stubble with				220	0.4000	0.70		200	1.100	0.0008
grass cover 20.0%; pasture,				255	0.1714	0.80		215	1.220	0.0010
4.0%; hay rotation crop, 2.9%;				310	0.4000	0.90		225	1.300	0.0011
vegetable crops dormant and				350	0.1500	1.00		230	1.390	0.0012
idle, 0.7%; orchards, 5.0%;				400	0.6000	1.10		235	1.480	0.0013
homesteads and roads, 3.1%;				420	0.3000	1.20		240	1.620	0.0014
forest, 37.8%; and idle,				500	0.1500	1.30		245	1.710	0.0015
0.6%. Corn approximately 6				535	0.1714	1.40		250	1.810	0.0016
to 8 ft. high.				545	0.6000	1.50		255	1.920	0.0017
				550	1.2000	1.60		300	2.030	0.0018
				555	1.2000	1.70		305	2.140	0.0019
				600	1.2000	1.80		310	2.250	0.0020
				605	2.4000	2.00		315	2.370	0.0021
				610	1.2000	2.10		320	2.490	0.0022
				615	1.2000	2.20		325	2.720	0.0023
				620	1.2000	2.30		330	2.860	0.0024
				630	0.6000	2.40		335	3.000	0.0025
				640	0.6000	2.50		340	3.150	0.0026
				720	0.1500	2.60		345	3.300	0.0028
				825	0.0	2.60		350	3.450	0.0030
				830	0.0	2.60		355	3.610	0.0032
				900	0.2000	2.70		400	3.940	0.0034
				1005	0.0	2.70		405	4.290	0.0036
				1115	0.0	2.70		410	4.470	0.0038
				1140	0.2400	2.80		415	4.660	0.0040
				1245	0.0	2.80		420	4.850	0.0042
								430	5.050	0.0047
								435	5.250	0.0049
								445	5.450	0.0054
								450	5.660	0.0057
								455	6.100	0.0060
								500	6.320	0.0063
								510	6.550	0.0069
								520	6.790	0.0075
								535	7.030	0.0085
								540	7.520	0.0088
								545	7.780	0.0092
								550	8.850	0.0096
								555	9.720	0.0100
								600	10.630	0.0105
								605	12.260	0.0110
								610	13.680	0.0116
								615	15.580	0.0123
								620	18.070	0.0131
								625	21.260	0.0140
								630	25.300	0.0151
								635	31.580	0.0164
								640	36.700	0.0180
								645	41.570	0.0199
								650	44.530	0.0219
								655	47.600	0.0240
								700	51.630	0.0264
								705	58.500	0.0289
								710	66.860	0.0318
								715	72.820	0.0352
								720	73.840	0.0386
								725	71.800	0.0419
								730	67.830	0.0453
								735	64.940	0.0483
								740	61.210	0.0512
								745	56.730	0.0540
								750	51.630	0.0565
								755	47.600	0.0588
								800	45.280	0.0610
								805	41.570	0.0630
								810	37.380	0.0648

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.

1968 SELECTED RUNOFF EVENT			KLINGERSTOWN, PENNSYLVANIA			WATERSHED WE-38				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 5 - 6, 1968 (CONTINUED)										
							9- 6	815	34.730	0.0665
								820	31.580	0.0680
								825	30.380	0.0694
								830	27.490	0.0708
								835	25.300	0.0720
								840	23.220	0.0731
								845	21.260	0.0742
								850	20.310	0.0752
								855	18.940	0.0761
								900	17.640	0.0770
								905	16.790	0.0778
								910	15.980	0.0786
								915	15.190	0.0793
								920	14.420	0.0800
								925	14.050	0.0807
								930	13.680	0.0814
								935	13.320	0.0820
								940	12.960	0.0826
								945	12.610	0.0832
								950	12.260	0.0838
								1000	11.930	0.0849
								1005	11.590	0.0854
								1015	11.270	0.0865
								1025	10.940	0.0875
								1035	10.630	0.0885
								1050	10.320	0.0900
								1105	10.010	0.0914
								1145	9.720	0.0951
								1235	10.010	0.0997
								1315	9.720	0.1034
								1410	9.420	0.1083
								1420	9.130	0.1092
								1450	8.850	0.1117
								1515	8.580	0.1137
								1545	8.300	0.1161
								1620	8.040	0.1188
								1655	7.780	0.1214
								1735	7.520	0.1243
								1830	7.270	0.1281
								1940	7.030	0.1328
								2100	6.790	0.1380
								2235	6.550	0.1439
								2400	6.320	0.1490

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.

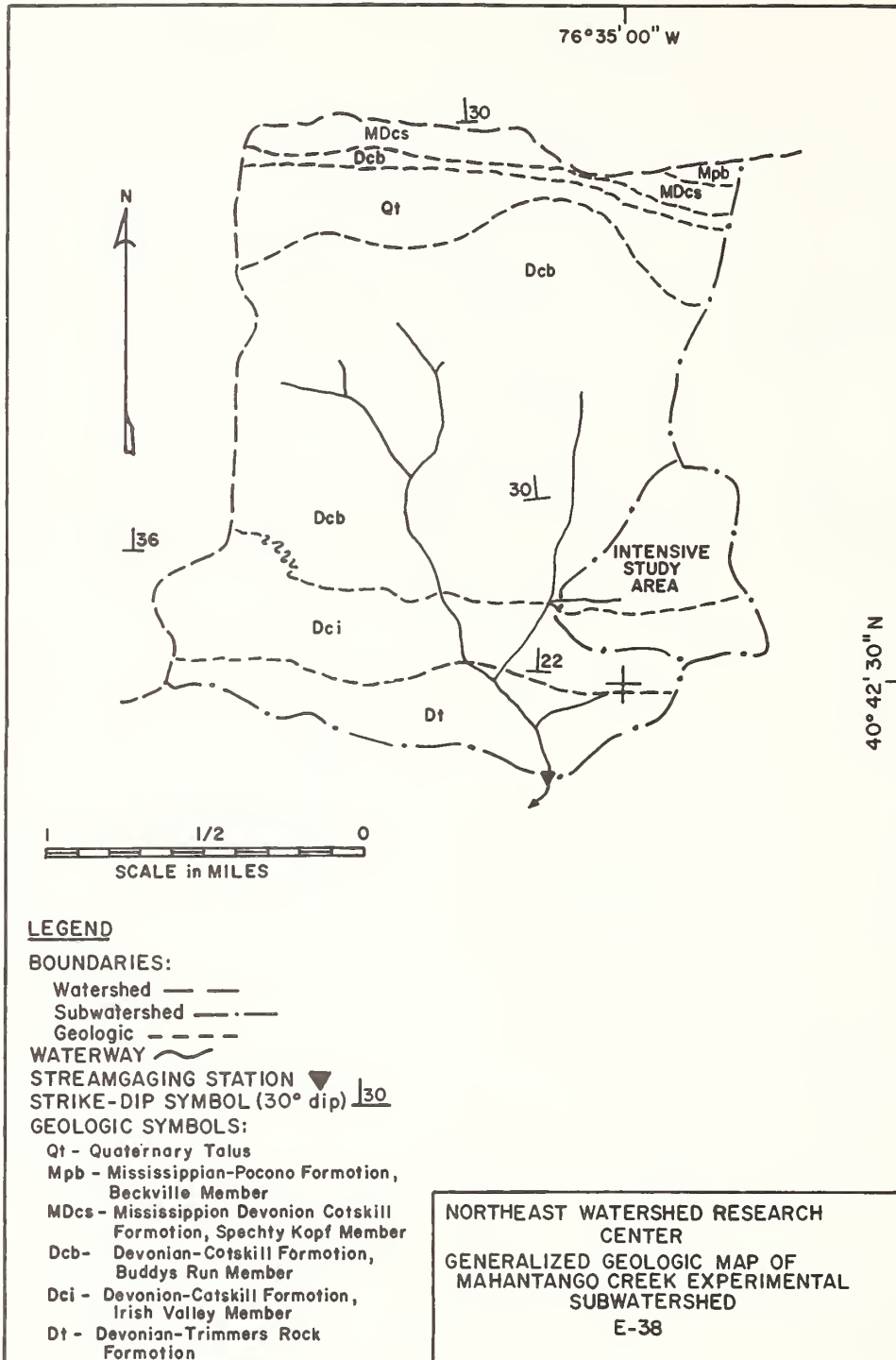




LEGEND

- Watershed Boundary — —
- Subwatershed Boundary - . -
- Waterway ~ ~ ~
- Contour — 900 —
- Paved Road w/culvert or bridge — X —
- Meteorological Station (precip., temp., hum.) ⊙
- Streamgaging Station (weir) ▼

NORTHEAST WATERSHED RESEARCH CENTER
 TOPOGRAPHY OF MAHANTANGO CREEK
 EXPERIMENTAL SUBWATERSHED
 E-38



IOWA CITY, IOWA RALSTON CREEK

LOCATION: Johnson County, Iowa; North Iowa City; Ralston Creek, Iowa River, Mississippi River Basin.

AREA: 1926.00 acres 3.01 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													IOWA CITY, IOWA		RALSTON CREEK	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	0.81	0.15	1.26	3.40	3.99	4.58	2.92	2.73	5.07	2.19	0.99	2.38	30.47		
	Q	0.592	0.282	0.300	0.601	0.505	0.422	0.139	0.059	0.219	0.179	0.132	0.374	3.804		
STA AV	P	1.10	1.02	1.99	3.01	3.60	4.63	3.87	3.37	3.57	2.54	2.05	1.26	31.99		
	Q	0.434	0.896	1.219	0.737	0.686	0.801	0.492	0.295	0.327	0.287	0.384	0.263	6.820		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
	5-26	0.045	5-26	0.037	5-26	0.059	5-26	0.102	5-26	0.123	5-26	0.144	5-26	0.175	5-26	0.394

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	7-18	0.860	7-18	0.650	7-14	0.930	7-14	2.230	7-14	2.520	7-13	2.620	7-13	2.720	3-18	4.150
	1956		1956		1962		1962		1962		1962		1962		1962	

NOTES: Watershed conditions: Approximately 20% timber; 13% row crops; 6% small grain; 12% hay; 45% pasture; and 4% roads and farmsteads. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pnh. 1194, p. 21.1-4. Precipitation Thiessen average of five recording rain gages. Runoff records furnished by U.S. Geological Survey. Precipitation and runoff records began Sept. 1, 1924 thru Dec. 31, 1924, part year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau Station records at Dubuque, Iowa.

1968	DAILY PRECIPITATION (inches)											
	IOWA CITY, IOWA RALSTON CREEK											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
3	0.0	0.0	0.0	0.68	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.41	0.32	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.08	0.13	0.0	0.0
6	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0
7	0.0	0.0	0.0	0.0	0.46	0.0	0.04	0.0	0.07	0.0	0.07	0.0
8	0.14	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0
9	0.02	0.0	0.0	0.0	0.0	0.36	0.35	0.0	0.0	0.44	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.12	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
12	0.15	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17
13	0.01	0.0	0.0	0.10	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.80	0.0	0.84	0.0	0.0	0.0	0.0	0.44	0.0
15	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.15	0.0	0.0	0.03	0.0
16	0.0	0.0	0.0	0.16	0.0	0.0	0.24	0.09	1.06	0.0	0.22	0.0
17	0.0	0.0	0.0	0.26	0.0	0.0	0.44	0.0	1.26	0.17	0.0	0.0
18	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.25	0.13	0.0	0.07	0.78
19	0.0	0.0	0.05	0.69	0.06	0.0	0.0	0.0	0.43	0.0	0.0	0.11
20	0.0	0.04	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.10
22	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.0	0.26	0.09	0.0	0.11
23	0.0	0.0	0.0	0.32	0.0	0.47	0.88	0.0	0.34	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.01	0.0	0.0	0.0
25	0.0	0.0	0.09	0.0	0.62	0.46	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	1.12	0.60	0.0	0.0	0.0	0.0	0.0	0.0
27	0.08	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.55
28	0.0	0.0	0.0	0.14	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.28
29	0.07	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.43	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.11
31	0.34		0.19		0.43		0.13	1.54		0.0		0.0
TOTAL	0.81	0.15	1.26	3.40	3.99	4.58	2.92	2.73	5.07	2.19	0.99	2.38
STA AV	1.10	1.02	1.99	3.01	3.60	4.63	3.87	3.37	3.57	2.54	2.05	1.26

NOTES: Precipitation values are Thiessen weighted from rain gages 1, 2, 3, 4, and 5. STA AV based on 44 yr (1925-1968) record period.

1968		MEAN DAILY DISCHARGE (cfs)										
		IOWA CITY, IOWA					RALSTON CREEK					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.616	11.020	0.454	0.819	1.103	1.703	0.714	0.154	0.495	0.268	0.284	0.341
2	0.584	1.403	0.478	0.754	0.989	1.005	0.551	0.138	0.122	0.251	0.251	0.381
3	0.519	0.900	0.341	1.800	0.892	0.851	0.422	0.114	0.114	0.203	0.259	0.341
4	0.478	0.754	0.478	0.989	0.819	0.714	0.592	0.073	0.170	0.203	0.259	0.316
5	0.438	0.665	0.503	0.892	0.754	0.608	0.527	0.632	0.186	0.227	0.268	0.292
6	0.430	0.584	0.454	0.795	0.714	0.584	0.349	0.162	0.114	0.349	0.259	0.259
7	0.422	0.519	0.503	0.697	1.103	0.519	0.397	0.138	0.089	0.300	0.268	0.243
8	0.430	0.503	1.500	0.592	1.305	0.397	0.324	0.122	0.559	0.308	0.259	0.211
9	0.462	0.551	1.305	0.543	0.835	0.665	0.519	0.130	0.308	0.689	0.259	0.211
10	0.478	0.397	0.730	0.495	0.754	0.641	0.268	0.122	0.162	0.284	0.284	0.243
11	0.519	0.316	0.608	0.438	0.673	0.762	0.292	0.097	0.130	0.243	0.292	0.308
12	0.559	0.300	0.519	0.495	0.624	0.397	0.227	0.089	0.122	0.227	0.268	0.624
13	0.600	0.268	0.430	0.924	0.592	0.381	0.211	0.089	0.097	0.219	0.268	0.381
14	0.641	0.284	0.543	3.211	0.730	1.305	0.203	0.089	0.089	0.211	0.551	0.186
15	0.697	0.292	0.559	1.403	1.500	0.511	0.178	0.089	0.081	0.211	0.762	0.097
16	0.803	0.308	0.665	1.200	0.924	0.422	0.219	0.097	1.403	0.178	0.924	0.211
17	1.005	0.251	0.681	2.303	0.665	0.397	0.470	0.089	4.111	0.259	0.551	0.397
18	1.500	0.219	1.800	1.305	0.608	0.357	0.462	0.114	1.297	0.178	0.438	2.903
19	2.206	0.251	2.303	1.906	0.624	0.308	0.211	0.114	1.297	0.178	0.381	7.225
20	3.008	0.284	1.103	6.009	0.519	0.414	0.170	0.073	0.519	0.170	0.341	2.003
21	2.506	0.324	0.770	3.008	0.478	0.341	0.162	0.041	0.397	1.808	0.381	0.803
22	2.003	0.349	0.608	2.303	0.527	0.357	0.162	0.032	0.795	3.819	0.341	0.641
23	1.305	0.332	0.592	3.308	0.754	0.414	0.884	0.016	2.108	0.730	0.357	0.454
24	0.900	0.308	0.641	2.603	0.543	2.506	0.624	0.008	0.892	0.519	0.324	0.349
25	7.014	0.300	0.770	2.003	1.200	4.208	0.227	0.0	0.422	0.422	0.324	0.300
26	7.817	0.300	0.835	1.800	11.020	7.022	0.186	0.0	0.292	0.389	0.324	0.454
27	2.003	0.292	0.851	1.500	2.708	1.703	0.973	0.0	0.243	0.373	0.292	4.014
28	3.008	0.300	0.795	1.606	2.003	1.005	0.219	0.0	0.268	0.341	0.324	2.506
29	2.003	0.308	0.689	1.703	2.206	2.603	0.178	0.0	0.584	0.324	0.292	1.500
30	1.103		0.754	1.305	1.200	1.103	0.170	0.0	0.300	0.308	0.292	1.200
31	1.906		1.103		1.606		0.178	1.995		0.300		0.900
MEAN	1.5470	0.7890	0.7860	1.6240	1.3220	1.1400	0.3640	0.1550	0.5920	0.4670	0.3560	0.9770
INCRS	0.592	0.282	0.300	0.601	0.505	0.422	0.139	0.059	0.219	0.179	0.132	0.374
STA AV	0.434	0.896	1.219	0.737	0.686	0.801	0.492	0.295	0.327	0.287	0.384	0.263

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012358. STA AV based on 44 yr (1925-1968) record period.

MCCREDIE, MISSOURI STATION RESERVOIR W-1

LOCATION: Callaway County, Mo.; 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missouri River Basin.

AREA: 153.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														MCCREDIE, MISSOURI STATION RESERVOIR W-1															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.70	0.58	0.57	2.61	6.53	5.18	4.68	3.34	5.40	6.83	4.10	2.82	43.34	1968	P	1.38	1.60	2.69	3.62	4.11	4.35	3.56	2.84	3.58	3.46	1.98	1.66	34.83
	O	0.201	0.189	0.0	0.073	1.216	0.166	0.730	1.977	0.378	5.034	1.758	1.447	13.169		O	0.441	0.653	1.138	1.063	0.776	0.710	0.421	0.138	0.399	0.932	0.400	0.370	7.442

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
	10-13	2.269	10-13	1.365	10-13	2.236	10-13	3.635	10-13	4.282	10-13	4.610	10-13	4.850	10- 9	5.025

MAXIMUMS FOR PERIOD OF RECORD															
1968	1968	1968	1968	1968	1968	1941	1941	1941	1941	1941	1941	1941	1941	1941	
10-13	2.269	10-13	1.365	10-13	2.236	10- 4	3.960	10- 4	7.000	10- 4	7.775	10- 3	8.090	10- 2	8.840

NOTES: Watershed conditions: 39% Pasture and meadow; 23% alfalfa; 31% rowcrops of corn and soybeans; 1% small grains; and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan. 1, 1941. Runoff amounts, or rates, which are reported as inches or inches per hour, respectively, were computed with a constant watershed area of 153 acres, including reservoir surface area. Previous published runoff amounts and rates were computed with a variable watershed area equal to the total area less the reservoir surface area, which was a function of reservoir stage. For revised topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 25.1-8. For long-time precipitation records, see U.S. Weather Bureau records at Columbia, Missouri (1890-1968).

1968 DAILY AIR TEMPERATURE (degrees F)														MCCREDIE, MISSOURI STATION RESERVOIR W-1													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	20	-4	60	41	58	16	58	30	84	57	75	63	84	64	76	59	79	55	82	58	77	62	40	32			
2	23	14	45	28	53	31	55	40	88	50	81	54	81	62	75	60	88	56	80	62	66	46	50	38			
3	15	5	51	38	41	15	67	48	88	61	87	61	75	52	90	69	89	62	79	44	49	39	47	30			
4	16	8	52	37	56	22	62	35	73	46	89	64	78	51	92	70	86	63	61	35	59	33	52	25			
5	35	5	48	32	56	39	45	32	68	39	87	63	84	58	92	74	77	55	61	39	53	34	48	27			
6	33	4	48	27	53	31	61	28	69	40	86	66	84	63	93	74	82	49	55	46	51	43	42	19			
7	8	-13	37	25	60	26	76	44	72	50	85	66	85	65	92	74	86	53	68	40	43	39	38	22			
8	18	-2	39	21	68	40	64	43	77	45	88	64	86	63	95	74	85	61	73	46	39	30	33	12			
9	33	14	38	29	68	39	68	37	77	50	90	67	86	65	90	72	66	57	72	55	39	26	42	19			
10	29	10	31	18	49	37	69	39	65	45	90	69	80	64	82	72	73	51	65	38	44	28	50	22			
11	25	7	36	8	40	31	78	41	60	50	88	66	84	54	74	62	73	46	70	37	34	31	56	28			
12	28	20	32	16	40	30	78	49	74	46	84	62	91	58	72	65	75	46	74	52	42	25	59	51			
13	23	10	29	12	41	17	73	54	72	57	83	55	90	65	84	68	82	45	71	61	53	26	54	20			
14	30	19	33	13	52	29	64	46	85	58	91	67	89	68	85	66	82	48	85	60	59	47	21	9			
15	33	24	40	26	50	40	70	33	86	64	90	64	87	68	85	73	81	52	84	68	60	40	27	8			
16	30	12	51	24	64	29	70	50	81	52	72	69	89	72	92	75	77	63	82	64	44	42	41	20			
17	51	22	50	15	71	36	78	53	71	51	81	57	90	75	92	69	75	62	78	53	45	42	37	24			
18	45	37	38	12	64	52	76	52	68	45	83	60	88	68	88	67	73	52	62	38	38	34	53	35			
19	51	26	54	25	63	50	69	52	61	42	85	66	85	69	94	64	70	56	70	40	35	30	50	33			
20	56	36	51	25	58	30	67	58	63	45	88	62	87	62	95	72	87	54	69	42	41	21	34	21			
21	52	34	28	8	35	26	68	45	67	43	91	66	93	64	94	72	87	60	79	44	60	31	32	24			
22	54	32	32	9	36	24	73	53	68	43	91	72	95	69	94	73	83	62	77	48	64	28	41	25			
23	45	28	36	11	36	20	70	43	56	52	91	68	94	72	94	73	83	67	60	42	62	48	29	21			
24	30	18	40	15	59	25	56	34	66	53	84	71	90	73	93	74	76	66	60	40	59	33	26	13			
25	49	30	42	22	72	38	64	32	66	55	80	67	82	71	86	60	76	52	54	29	56	31	29	19			
26	65	32	35	34	78	44	62	44	66	55	78	54	83	71	85	57	78	55	66	30	54	47	52	28			
27	65	50	37	30	74	50	65	37	68	48	70	50	89	74	83	61	80	48	65	45	44	37	54	41			
28	64	46	41	28	77	52	71	42	74	53	88	52	86	66	79	50	78	52	44	37	41	33	41	23			
29	60	41	37	16	77	53	71	43	78	52	90	69	80	58	79	57	83	54	60	28	43	33	32	22			
30	47	30			78	54	80	48	73	50	89	75	83	64	78	57	82	54	75	35	46	20	36	24			
31	58	40			61	36			71	55			85	62	76	62			83	51			14	-5			
AV.	38	20	41	22	57	34	67	42	72	50	85	63	86	64	86	67	79	55	69	45	50	35	40	23			
MEAN	29.5		31.7		46.0		55.3		61.1		74.4		75.4		76.7		67.5		57.6		42.7		32.1				
STA AV	40	20	44	23	53	31	67	43	75	52	84	62	88	65	88	63	81	55	71	45	54	33	42	24			

NOTES: Temperature data taken daily with the maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 1700 of the previous day to 1700 of the day on which values are recorded. STA AV based on 28 yr (1941-1968) record period.

1968		DAILY PRECIPITATION (inches)						MCCREDIE, MISSOURI STATION RESERVOIR W-1					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.49	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.32	
2	0.0	0.0	0.0	0.52	0.0	0.0	0.0	2.65	0.0	0.08	0.23	0.0	
3	0.0	0.0	0.0	0.80	0.04	0.0	0.0	0.09	0.0	0.0	0.20	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.03	0.29	0.0	
7	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.16	0.0	0.0	0.0	0.0	
8	0.02	0.0	0.12	0.0	1.04	0.0	0.0	0.0	0.63	0.0	0.0	0.0	
9	0.03	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.45	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
11	0.0	0.0	0.0	0.0	0.07	0.23	0.0	0.0	0.0	0.0	0.27	0.0	
12	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
13	0.04	0.0	0.0	0.27	0.04	0.0	0.17	0.0	0.0	5.89	0.0	0.0	
14	0.01	0.0	0.0	0.0	0.0	0.06	0.80	0.0	0.0	0.0	0.02	0.0	
15	0.0	0.0	0.14	0.0	0.31	0.60	0.0	0.17	0.18	0.0	1.57	0.0	
16	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	1.76	0.0	0.05	0.0	
17	0.0	0.0	0.0	0.03	0.0	0.0	0.74	0.08	0.50	0.25	0.03	0.0	
18	0.0	0.0	0.02	0.45	0.0	0.0	0.07	0.0	0.01	0.0	0.0	0.27	
19	0.0	0.0	0.16	0.25	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
20	0.0	0.0	0.09	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.59	0.0	0.0	0.05	
22	0.0	0.0	0.0	0.21	0.82	0.0	0.0	0.0	0.30	0.08	0.0	0.03	
23	0.0	0.0	0.0	0.0	2.33	0.0	0.0	0.0	1.20	0.03	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.65	0.13	0.0	0.07	0.0	0.0	0.0	
25	0.0	0.02	0.0	0.01	1.31	0.98	0.76	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.07	0.0	0.0	0.0	0.01	0.56	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	2.03	
28	0.08	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	1.40	0.10	
29	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	1.63	0.0	0.17	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.41	0.0	0.75	0.02	0.0	0.0	0.0	0.0	
TOTAL	0.70	0.58	0.57	2.61	6.53	5.18	4.68	3.34	5.40	6.83	4.10	2.82	
STA AV	1.38	1.60	2.69	3.62	4.11	4.35	3.56	2.84	3.58	3.46	1.98	1.66	

NOTES: Precipitation data are Thiessen weighted values for 4 recording rain gages and 1 non-recording rain gage. STA AV values are for 28 yr (1941-1968) record period.

1968		MEAN DAILY DISCHARGE (cfs)						MCCREDIE, MISSOURI STATION RESERVOIR W-1					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	1.112	0.0	0.0	0.0	0.0	4.420	0.0	0.0	0.0	0.0	0.691	
2	0.0	0.103	0.0	0.0	0.0	0.0	0.132	6.623	0.0	0.0	0.0	0.207	
3	0.0	0.0	0.0	0.456	0.0	0.0	0.028	4.396	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.813	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.414	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.205	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.185	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.081	0.0	0.0	0.071	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.075	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.123	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0	1.832	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.945	3.892	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.230	0.274	0.998	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.294	0.104	0.310	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.130	0.094	
19	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.060	0.0	0.0	0.0	
22	0.149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	
23	0.078	0.0	0.0	0.0	2.667	0.0	0.0	0.0	1.473	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.903	0.097	0.0	0.0	0.311	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	4.045	0.694	0.0	0.0	0.028	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.286	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.646	0.977	
29	0.326	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.251	0.047	
30	0.321	0.0	0.0	0.0	0.0	0.279	0.0	0.0	0.0	0.0	0.070	0.0	
31	0.356	0.0	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0420	0.0419	0.0	0.0157	0.2522	0.0357	0.1513	0.4099	0.0809	1.0438	0.3767	0.3001	
INCRBS	0.201	0.189	0.0	0.073	1.216	0.166	0.730	1.977	0.378	5.034	1.758	1.447	
STA AV	0.441	0.653	1.138	1.063	0.776	0.710	0.421	0.138	0.399	0.932	0.400	0.370	

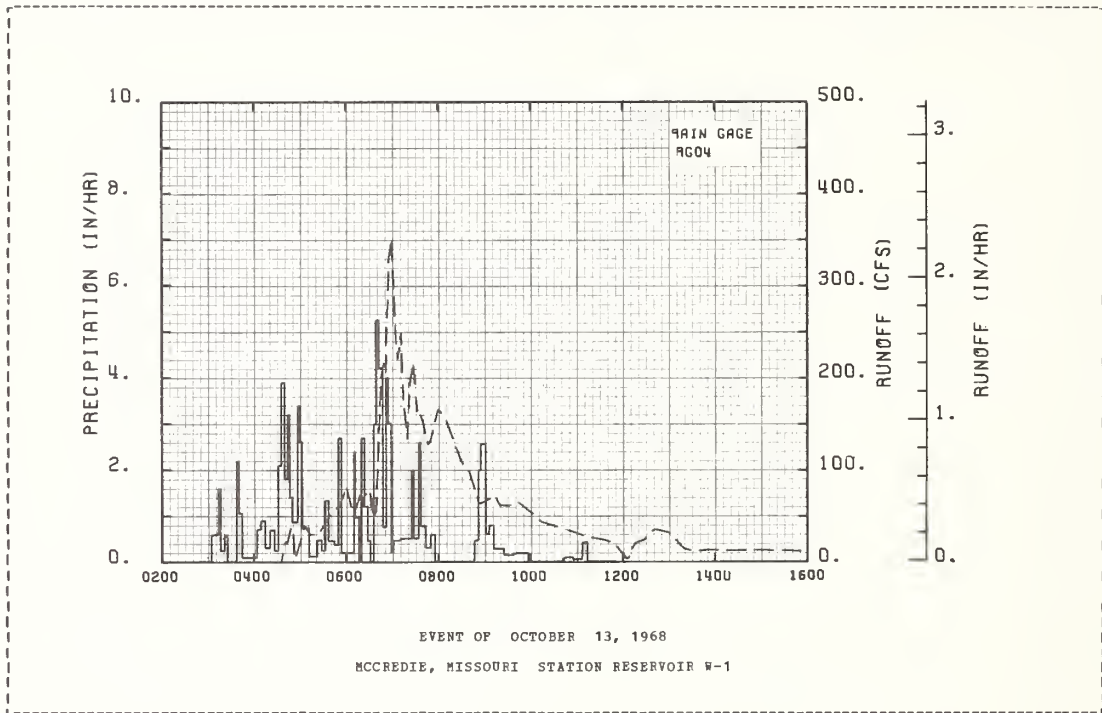
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.154556. STA AV values are for 28 yr (1941-1968) record period.

1968 SELECTED RUNOFF EVENT			MCCREDIE, MISSOURI STATION RESERVOIR W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 13, 1968										
10-13	RG 04 0.0	0.0	10-13	RG 04	0.0	0.0	10-13	436	0.0	0.0
					305	0.0		440	20.490	0.0044
					314	0.6000		444	21.480	0.0134
					317	1.6000		448	37.570	0.0261
					322	0.2401		451	33.140	0.0377
					326	0.5999				
WATERSHED CONDITIONS:										
40% Pasture and meadow, 3-6 in. tall; 23% alfalfa, harvested; 31% row crops of corn and soybeans, harvested; 6% roads and farmstead.										
					338	0.0	0.23	454	3.150	0.0437
					341	2.2000	0.34	500	21.390	0.0518
					345	1.0501	0.41	506	39.950	0.0712
					404	0.0947	0.44	513	29.440	0.0976
					409	0.7200	0.50	524	30.020	0.1330
					415	0.9000	0.59	540	52.910	0.2044
					421	0.3000	0.62	548	58.210	0.2522
					427	0.7001	0.69	556	69.950	0.3074
					432	0.2401	0.71	600	82.330	0.3421
					436	2.1000	0.85	608	56.040	0.4017
					440	3.8999	1.11	613	56.790	0.4317
					444	1.7999	1.23	618	73.380	0.4663
					447	3.2001	1.39	620	57.220	0.4812
					450	1.4001	1.46	624	72.440	0.5091
					457	0.8571	1.56	631	78.470	0.5664
					500	3.4000	1.73	636	47.550	0.5999
					503	2.6001	1.86	639	53.850	0.6166
					512	0.7333	1.97	641	93.380	0.6315
					523	0.1091	1.99	646	198.560	0.7128
					528	0.4799	2.03	649	216.210	0.7811
					533	0.2401	2.05	652	203.610	0.8449
					537	1.3499	2.14	656	327.590	0.9592
					545	0.4500	2.20	700	350.190	1.1137
					550	0.3600	2.23	705	247.310	1.2726
					554	2.7001	2.41	708	219.040	1.3494
					610	0.1875	2.46	712	248.830	1.4501
					612	2.4000	2.54	715	174.900	1.5198
					617	0.9598	2.62	720	133.700	1.6018
					620	0.0	2.62	724	198.630	1.6733
					624	2.7001	2.80	728	216.960	1.7627
					628	1.2000	2.88	731	177.980	1.8277
					632	0.4500	2.91	734	157.060	1.8828
					636	0.0	2.91	737	159.390	1.9309
					639	2.9999	3.06	740	151.360	1.9820
					643	5.2501	3.41	747	126.790	2.0876
					648	4.1999	3.76	750	132.180	2.1302
					652	0.7500	3.81	800	165.860	2.2924
					655	3.9999	4.01	810	154.160	2.4626
					659	3.0002	4.21	820	131.450	2.6181
					702	0.1999	4.22	830	108.740	2.7489
					711	0.4667	4.29	840	97.860	2.8588
					725	0.5143	4.41	847	80.790	2.9267
					728	1.9998	4.51	853	63.110	2.9741
					734	0.5000	4.56	902	66.720	3.0366
					737	2.6001	4.69	914	72.220	3.1263
					744	0.7714	4.78	920	60.860	3.1701
					750	0.3000	4.81	930	60.600	3.2362
					756	0.6000	4.87	943	64.630	3.3234
					847	0.0	4.87	1000	53.430	3.4325
					852	0.4801	4.91	1015	42.550	3.5103
					855	1.9998	5.01	1042	35.440	3.6238
					902	2.5715	5.31	1100	30.450	3.6880
					906	0.6001	5.35	1114	25.980	3.7302
					912	0.8000	5.43	1135	23.580	3.7867
					925	0.2769	5.49	1150	18.550	3.8208
					938	0.1385	5.52	1205	2.860	3.8381
					957	0.1895	5.58	1208	4.940	3.8394
					1043	0.0	5.58	1216	20.850	3.8505
					1055	0.1000	5.60	1228	24.620	3.8799
					1107	0.0500	5.61	1240	34.760	3.9182
					1114	0.4286	5.66	1300	31.200	3.9900
					1150	0.0	5.66	1320	13.260	4.0378
								1332	10.980	4.0535
								1350	12.900	4.0768
								1412	11.680	4.1060
								1440	12.530	4.1425
								1500	12.170	4.1694
								1520	11.450	4.1948
								1600	10.670	4.2427
								1630	10.440	4.2769

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00644. Event precipitation totals for rain gages R-2, R-3, S-6, and R-8 are 6.14, 5.68, 5.88 and 5.94 respectively and the Thiessen average event precipitation is 5.90 inches.

1968 SELECTED RUNOFF EVENT			MCCREDIE, MISSOURI			STATION RESERVOIR W-1				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 13, 1968 (CONTINUED)										
							10-13	1700	8.520	4.3076
								1730	6.450	4.3319
								1800	6.630	4.3531

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00644. Event precipitation totals for rain gages R-2, R-3, S-6, and R-8 are 6.14, 5.68, 5.88 and 5.94 respectively and the Thiessen average event precipitation is 5.90 inches.



COSHOCTON, OHIO WATERSHEO 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHEO 102	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 3.35	0.46	4.80	1.89	6.15	3.22	4.04	1.24	2.19	2.24	2.78	3.39	35.75	
	O 0.357	0.169	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.541	
STA AV	P 1.82	2.31	4.22	3.32	4.01	4.62	3.97	3.18	2.35	2.33	2.41	2.27	36.81	
	O 0.049	0.066	0.132	0.057	0.009	0.171	0.029	0.038	0.019	0.009	0.001	0.0	0.581	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
	Maxima Discharge Date Rate	Maximum Volume for Selected Time Interval											
		1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.					
1968	7-24 0.023	7-24 0.013	1-30 0.015	1-30 0.047	1-30 0.094	1-30 0.188	1-30 0.377	1-24 0.526					

MAXIMUMS FOR PERIOD OF RECORD													
	6-12 1957	6-12 1957	6-12 1957	6-12 1957	6-12 1957	6-12 1957	6-12 1957	6-12 1957	6-12 1957	3-4 1963	3-1 1963	1.690	
	3.640	1.310	1.320	1.320	1.320	1.320	1.320	1.320	1.320	1.500	1.690		

NOTES: Watershed conditions: Cover of improved practice alfalfa meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.1-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1957 to Apr. 30, 1957 and Sept. 1, 1957 to March 29, 1960. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHEO 102	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.02	0.0	0.30	0.95	0.46	0.75	0.0	0.0	0.21		
2	0.0	0.07	0.0	0.0	0.0	0.10	0.0	0.0	0.05	0.31	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.25	0.13	0.0	0.0	0.05	0.47	0.07	0.08		
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.51		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.28	0.22	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.28	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.25	0.0	0.0	0.0	0.0		
9	0.04	0.20	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.08	0.12	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.18	1.22	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.46	0.0	0.0	0.84	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.39	0.0	0.0	0.0	0.46	0.40	0.10	0.0	0.0	0.0	0.48	0.13		
16	0.0	0.0	0.30	0.0	0.22	0.25	0.30	0.0	0.0	0.0	0.39	0.0		
17	0.0	0.0	0.0	0.02	0.08	0.04	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.28	0.0	0.11	0.0	0.08	0.93	0.09	0.18		
19	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.19	0.0	0.0	0.21		
20	0.0	0.14	0.26	0.09	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.68	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.24	0.20	0.0	0.0	0.04	0.0	0.37		
23	0.05	0.0	0.20	0.17	0.84	0.0	0.0	0.0	0.23	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.37	0.0	2.11	0.0	0.05	0.0	0.09	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.35	0.02	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.39	0.19	0.47	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.41	0.0	0.88	0.0	0.11	0.0	0.0	0.0	0.0	1.03		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.91	0.67		
29	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.62	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.35	0.46	4.80	1.89	6.15	3.22	4.04	1.24	2.19	2.24	2.78	3.39		
STA AV	1.82	2.31	4.22	3.32	4.01	4.62	3.97	3.18	2.35	2.33	2.41	2.27		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y101. STA AV based on 17-20 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 102					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.009		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.010		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0006	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.357	0.169	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0
STA AV	0.049	0.066	0.132	0.057	0.009	0.171	0.029	0.038	0.019	0.009	0.001	0.0

NOTES: To convert CPS to IN/DAY, multiply by 18.8902. STA AV based on 17-20 yr period.

COSHOCTON, OHIO WATERSHED 129

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 2.71 acres

MONTHLY PRECIPITATION AND RDNOFF (inches)														COSHOCTON, OHIO WATERSHED 129	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.62	0.47	4.94	1.64	6.41	3.08	3.94	1.17	2.17	2.20	2.81	3.52	35.97	
	Q	1.016	0.0	0.0	0.0	0.013	0.0	0.065	0.0	0.0	0.0	0.0	0.042	1.136	
STA AV	P	2.73	2.42	3.56	3.39	3.86	4.04	4.13	2.93	2.57	2.08	2.46	2.21	36.40	
	Q	0.082	0.116	0.174	0.048	0.049	0.145	0.060	0.039	0.039	0.010	0.001	0.011	0.774	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RDNOFF (inches) FOR SELECTED TIME INTERVALS															
1968	Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval												
			1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.						
	7-24	0.212	1-29 0.068	1-29 0.118	1-29 0.241	1-29 0.344	1-29 0.612	1-28 0.965	1-22 1.015						
MAXIMUMS FOR PERIOD OF RECORD															
	6-12 1957	2.360	6-12 1957 0.980	9- 1 1950 1.010	3- 4 1963 1.530	3- 4 1963 2.420	3- 4 1963 2.900	3- 3 1963 3.510	3- 3 1963 4.000						

NOTES: Watershed conditions: Cover of improved practice pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, DSDA Misc. Pub. 945, p. 26.3-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, D50A Misc. Pub. 1070, pp. 26.3-1 and 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April, 1938. For long-time precipitation records, see D.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 129	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.03	0.0	0.42	0.90	0.48	0.72	0.0	0.0	0.26		
2	0.0	0.16	0.0	0.0	0.0	0.03	0.0	0.0	0.06	0.31	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.21	0.09	0.0	0.0	0.04	0.41	0.05	0.11		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.53		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.27	0.23	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.09	0.24	0.0	0.0	0.0	0.0	0.0		
9	0.04	0.11	0.08	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.06	0.10	0.17	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.32	1.16	0.0	0.0	0.10	0.0	0.07	0.0		
12	0.0	0.05	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.73	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.43	0.36	0.13	0.0	0.0	0.0	0.43	0.15		
16	0.0	0.0	0.30	0.0	0.22	0.26	0.23	0.0	0.0	0.0	0.42	0.0		
17	0.0	0.0	0.0	0.03	0.10	0.05	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.25	0.0	0.09	0.0	0.10	0.97	0.10	0.18		
19	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.21	0.0	0.0	0.22		
20	0.0	0.10	0.23	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.70	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.25	0.15	0.0	0.0	0.05	0.0	0.45		
23	0.05	0.0	0.18	0.13	0.88	0.0	0.0	0.0	0.26	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.37	0.0	2.14	0.0	0.03	0.0	0.09	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.03	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.40	0.15	0.53	0.16	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	1.07	0.0	0.18	0.0	0.0	0.0	0.0	0.97		
28	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.65		
29	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.61	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.62	0.47	4.94	1.64	6.41	3.08	3.94	1.17	2.17	2.20	2.81	3.52		
STA AV	2.73	2.42	3.56	3.39	3.86	4.04	4.13	2.93	2.57	2.08	2.46	2.21		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 100. STA AV based on 30-31 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 129						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	
29	0.057	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.030		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0	
MEAN	0.0037	0.0	0.0	0.0	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0002	
INCHES	1.016	0.0	0.0	0.0	0.013	0.0	0.065	0.0	0.0	0.0	0.0	0.042	
STA AV	0.082	0.116	0.174	0.048	0.049	0.145	0.060	0.039	0.039	0.010	0.001	0.011	

NOTES: To convert CPS to IN/DAY, multiply by 8.7829. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 135

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walkonding River, Muskingum River Basin.

AREA: 2.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 135															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.62	0.47	4.94	1.64	6.41	3.08	3.94	1.17	2.17	2.20	2.81	3.52	35.97															
	Q	0.110	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.166															
STA AV	P	2.73	2.42	3.56	3.39	3.86	4.04	4.13	2.93	2.57	2.08	2.46	2.21	36.40															
	Q	0.042	0.126	0.116	0.029	0.019	0.106	0.041	0.039	0.039	0.039	0.001	0.010	0.606															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		7-24	0.169	7-24	0.055	7-24	0.056	1-29	0.058	1-29	0.068	1-29	0.110	1-28	0.110	1-22	0.110												
MAXIMUMS FOR PERIOD OF RECORD																													
		6-12	2.380	6-12	0.920	9-1	0.940	3-4	1.550	3-4	2.190	3-4	2.510	3-3	3.060	3-3	3.070												
		1957		1957		1950		1963		1963		1963		1963		1963													

NOTES: Watershed conditions: Cover of unimproved pasture. For map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.4-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.4-1 and 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April, 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 135													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.03	0.0	0.42	0.90	0.48	0.72	0.0	0.0	0.26	1	0.0	0.05	0.0	0.03	0.0	0.42	0.90	0.48	0.72	0.0	0.0	0.26		
2	0.0	0.16	0.0	0.0	0.0	0.03	0.0	0.0	0.06	0.31	0.0	0.0	2	0.0	0.16	0.0	0.0	0.0	0.03	0.0	0.0	0.06	0.31	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.21	0.09	0.0	0.04	0.41	0.05	0.11	3	0.0	0.0	0.0	0.0	0.0	0.21	0.09	0.0	0.04	0.41	0.05	0.11		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.53	4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.53		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.27	0.23	0.0	6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.27	0.23	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.22	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.22	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.24	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.24	0.0	0.0	0.0			
9	0.04	0.11	0.08	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.04	0.11	0.08	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.06	0.10	0.17	0.0	0.0	10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.06	0.10	0.17	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.32	1.16	0.0	0.0	0.10	0.0	0.07	0.0	11	0.0	0.0	0.0	0.0	1.32	1.16	0.0	0.0	0.10	0.0	0.0	0.07		
12	0.0	0.05	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	12	0.0	0.05	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.73	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.36	0.0	0.0	0.73	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.43	0.36	0.13	0.0	0.0	0.0	0.43	0.15	15	0.64	0.0	0.0	0.0	0.43	0.36	0.13	0.0	0.0	0.0	0.43	0.15		
16	0.0	0.0	0.30	0.0	0.22	0.26	0.23	0.0	0.0	0.0	0.42	0.0	16	0.0	0.0	0.30	0.0	0.22	0.26	0.23	0.0	0.0	0.0	0.42	0.0		
17	0.0	0.0	0.0	0.03	0.10	0.05	0.0	0.0	0.0	0.0	0.05	0.0	17	0.0	0.0	0.0	0.03	0.10	0.05	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.25	0.0	0.09	0.0	0.10	0.97	0.10	0.18	18	0.0	0.0	0.0	0.0	0.25	0.0	0.09	0.0	0.10	0.97	0.10	0.18		
19	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.21	0.0	0.0	0.22	19	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.21	0.0	0.0	0.22		
20	0.0	0.10	0.23	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.10	0.23	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.70	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.70	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.25	0.15	0.0	0.0	0.05	0.0	0.45	22	0.0	0.0	0.79	0.0	0.0	0.25	0.15	0.0	0.0	0.05	0.0	0.45		
23	0.05	0.0	0.18	0.13	0.88	0.0	0.0	0.0	0.26	0.0	0.0	0.0	23	0.05	0.0	0.18	0.13	0.88	0.0	0.0	0.0	0.26	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.37	0.0	2.14	0.0	0.03	0.0	0.09	0.0	24	0.0	0.0	0.0	0.0	0.37	0.0	2.14	0.0	0.03	0.0	0.09	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.03	0.0	0.0	0.02	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.30	0.03	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.40	0.15	0.53	0.16	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.40	0.15	0.53	0.16	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	1.07	0.0	0.18	0.0	0.0	0.0	0.0	0.97	27	0.0	0.0	0.40	0.0	1.07	0.0	0.18	0.0	0.0	0.0	0.0	0.97		
28	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.65	28	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.65		
29	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.61	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.61	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.62	0.47	4.94	1.64	6.41	3.08	3.94	1.17	2.17	2.20	2.81	3.52	TOTAL	3.62	0.47	4.94	1.64	6.41	3.08	3.94	1.17	2.17	2.20	2.81	3.52		
STA AV	2.73	2.42	3.56	3.39	3.86	4.04	4.13	2.93	2.57	2.08	2.46	2.21	STA AV	2.73	2.42	3.56	3.39	3.86	4.04	4.13	2.93	2.57	2.08	2.46	2.21		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 100. STA AV based on 30-31 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 135												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0004	0.0	0.0	0.0	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0
INCHES	0.110	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0
STA AV	0.042	0.126	0.116	0.029	0.019	0.106	0.041	0.039	0.039	0.039	0.001	0.010

NOTES: To convert CPS to IN/DAY, multiply by 8.8482. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 130

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.63 acres

MONTHLY PRECIPITATION AND RDNOFF (inches)													COSHOCTON, OHIO WATERSHED 130	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93	
	Q 0.342	0.0	0.040	0.0	0.057	0.0	0.019	0.0	0.0	0.0	0.0	0.159	0.616	
STA AV	P 2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17	35.70	
	Q 0.108	0.135	0.195	0.087	0.031	0.174	0.059	0.019	0.048	0.001	0.001	0.015	0.873	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RDNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	7-24	0.085	1-30	0.046	1-30	0.080	1-30	0.145	1-29	0.196	1-29	0.300	1-28	0.342	1-22	0.342

MAXIMUMS FOR PERIOD OF RECORD													
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
6-12	4.060	6-12	1.420	6-12	1.440	3-4	1.550	3-4	2.160	3-4	2.540	3-4	3.140
1957		1957		1957		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of improved practice meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, DSDA Misc. Pub. 945, p. 26.5-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, DSDA Misc. Pub. 1070, pp. 26.5-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began May, 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 130	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24		
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10		
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0		
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07		
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0		
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15		
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24		
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43		
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95		
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67		
29	0.20	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.60	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34		
STA AV	2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 30-31 yr period.

1968		MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 130					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.004	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	
29	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0008	0.0	0.0001	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0004	
INCHES	0.342	0.0	0.040	0.0	0.057	0.0	0.019	0.0	0.0	0.0	0.0	0.159	
STA AV	0.108	0.135	0.195	0.087	0.031	0.174	0.059	0.019	0.048	0.001	0.001	0.015	

NOTES: To convert CPS to IN/DAY, multiply by 14.6022. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 131

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 2.21 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						COSHOCTON, OHIO WATERSHED 131								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93
	O	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
STA AV	P	2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17	35.70
	O	0.029	0.019	0.039	0.019	0.010	0.029	0.001	0.001	0.010	0.001	0.001	0.001	0.160

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	1-30	0.002	1-30	0.001	1-30	0.002	1-30	0.002	1-30	0.002	1-29	0.002	1-28	0.002	1-22	0.002
MAXIMUMS FOR PERIOD OF RECORD																
	6-12	1.180	6-12	0.410	6-12	0.450	6-12	0.450	6-12	0.450	6-12	0.450	6-12	0.450	6-12	0.450
	1957		1957		1957		1957		1957		1957		1957		1957	

NOTES: Watershed conditions: Cover of uneven age hardwoods. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 26.7-5. For geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.7-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began May, 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)						COSHOCTON, OHIO WATERSHED 131						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24	
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10	
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0	
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0	
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07	
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0	
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0	
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15	
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24	
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43	
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0	
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95	
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67	
29	0.20	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.60	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	
STA AV	2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 30-31 yr period.

1968		MEAN DAILY DISCHARGE (cfs)											COSHOCTON, OHIO WATERSHED 131											
Day	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
31	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
INCHES	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
STA AV	0.029	0.019	0.039	0.019	0.010	0.029	0.001	0.001	0.010	0.001	0.001	0.001												

NOTES: To convert CFS to IN/DAY, multiply 10.7700. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 132

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 0.59 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 132
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93
	Q	1.333	0.273	1.733	0.462	1.967	0.0	0.0	0.0	0.0	0.0	0.0	0.297	6.066
STA AV	P	3.18	2.44	3.32	3.37	3.34	3.41	4.36	2.47	2.61	1.87	2.55	2.30	35.23
	Q	0.285	0.232	0.581	0.375	0.208	0.133	0.001	0.001	0.010	0.001	0.0	0.024	1.850

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	5-27	0.095	5-27	0.093	5-27	0.183	5-27	0.479	5-27	0.688	1-29	0.899	1-28	1.228	1-26	1.605

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
6-12	2.000	4-25	0.730	4-25	0.990	4-25	1.370	3- 9	1.670	3- 9	2.370	3- 9	2.780	3- 4	3.520
1957		1961		1961		1961		1964		1964		1964		1964	

NOTES: Watershed conditions: Cover of uneven age hardwoods. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 26.8-2. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.8-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began May, 1948. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 132
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24		
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10		
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0		
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07		
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0		
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15		
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24		
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43		
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95		
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67		
29	0.20	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.60	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34		
STA AV	3.18	2.44	3.32	3.37	3.34	3.41	4.36	2.47	2.61	1.87	2.55	2.30		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 20-21 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 132												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.002	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.001E	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.004E	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.015E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.005E	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.001E	0.0	0.010E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.009	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.001	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.007
29	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0011	0.0002	0.0014	0.0004	0.0016	0.0	0.0	0.0	0.0	0.0	0.0	0.0002
INCHES	1.333	0.273	1.733	0.462	1.967	0.0	0.0	0.0	0.0	0.0	0.0	0.297
STA AV	0.285	0.232	0.581	0.375	0.208	0.133	0.001	0.001	0.010	0.001	0.0	0.024

NOTES: To convert CFS to IN/DAY, multiply by 40.3418. STA AV based on 20-21 yr period.

COSHOCTON, OHIO WATERSHED 123

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.37 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 123														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42	36.17														
	O	0.556	0.013	0.579	0.002	0.355	0.022	0.0	0.0	0.0	0.0	0.0	0.253	1.781														
STA AV	P	2.78	2.46	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34	37.24														
	O	0.376	0.339	0.454	0.251	0.128	0.291	0.116	0.077	0.048	0.019	0.010	0.124	2.234														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1968		5-27	0.133	5-27	0.106	5-27	0.188	5-27	0.314	1-30	0.392	1-29	0.470	1-28	0.518	1-25	0.569

MAXIMUMS FOR PERIOD OF RECORD																	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
		6-12 1957	5.970	6-12 1957	1.370	6-12 1957	1.480	6-28 1957	1.510	1-21 1959	1.840	1-21 1959	2.330	1-21 1959	2.330	3- 4 1964	2.660

NOTES: Watershed conditions: Second year meadow cover, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.10-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 123													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.07	0.0	0.03	0.0	0.40	0.91	0.49	0.67	0.0	0.0	0.25															
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.32	0.0	0.0															
3	0.0	0.0	0.0	0.0	0.25	0.12	0.0	0.0	0.04	0.41	0.06	0.08															
4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.54															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0															
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.30	0.22	0.0															
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.0															
8	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.24	0.0	0.0	0.0	0.0															
9	0.05	0.10	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.08	0.09	0.23	0.0	0.0															
11	0.0	0.0	0.0	0.0	1.35	1.27	0.0	0.0	0.10	0.0	0.05	0.0															
12	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0															
13	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
14	0.32	0.0	0.0	0.73	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
15	0.70	0.0	0.0	0.0	0.43	0.30	0.15	0.0	0.0	0.0	0.44	0.10															
16	0.0	0.0	0.30	0.0	0.18	0.22	0.35	0.0	0.0	0.0	0.41	0.0															
17	0.0	0.0	0.0	0.02	0.09	0.03	0.0	0.0	0.0	0.0	0.08	0.0															
18	0.0	0.0	0.0	0.0	0.22	0.0	0.09	0.0	0.10	1.01	0.06	0.18															
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.23	0.0	0.0	0.21															
20	0.0	0.12	0.25	0.10	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.74	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.77	0.0	0.0	0.25	0.14	0.0	0.0	0.04	0.0	0.45															
23	0.05	0.0	0.13	0.16	0.88	0.0	0.0	0.0	0.20	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.36	0.0	2.02	0.0	0.07	0.0	0.06	0.0															
25	0.0	0.0	0.0	0.0	0.0	0.27	0.03	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.39	0.18	0.45	0.17	0.0	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.44	0.0	1.07	0.0	0.19	0.0	0.0	0.0	0.0	0.94															
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.67															
29	0.45	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.64	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42															
STA AV	2.78	2.46	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34															

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y103. STA AV based on 30 yr period.

1968	MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 123					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	T 0.0	0.0	T 0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.017E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.011	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015
29	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0010	0.0	0.0011	0.0	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0005
INCHES	0.556	0.013	0.579	0.002	0.355	0.022	0.0	0.0	0.0	0.0	0.0	0.253
STA AV	0.376	0.339	0.454	0.251	0.128	0.291	0.116	0.077	0.048	0.019	0.010	0.124

NOTES: To convert CPS to IN/DAY, multiply by 17.3735. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 115

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.61 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 115			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42	36.17		
	Q	0.035	0.005	0.218	0.021	0.317	0.0	0.039	0.0	0.0	0.0	0.0	0.279	0.913		
STA AV	P	2.82	2.40	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34	37.22		
	Q	0.214	0.242	0.230	0.136	0.156	0.377	0.282	0.155	0.116	0.029	0.019	0.058	2.012		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	Maximum Volume for Selected Time Interval														
		1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.	
	7-24	0.072	12-28	0.061	12-28	0.102	12-28	0.186	12-27	0.201	12-27	0.278	12-27	0.278	5-19	0.301
MAXIMUMS FOR PERIOD OF RECORD																
	6-12	4.120	9-1	1.336	9-1	1.560	9-1	1.580	9-1	1.590	9-1	1.590	3-3	1.660	6-29	2.850
	1957		1950		1950		1950		1950		1950		1963		1941	

NOTES: Watershed conditions: Cover of second year meadow, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.11-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.11-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 115	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.07	0.0	0.03	0.0	0.40	0.91	0.49	0.67	0.0	0.0	0.25		
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.32	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.25	0.12	0.0	0.0	0.04	0.41	0.06	0.08		
4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.54		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.30	0.22	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.24	0.0	0.0	0.0	0.0		
9	0.05	0.10	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.08	0.09	0.23	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.35	1.27	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0		
13	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.32	0.0	0.0	0.73	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.70	0.0	0.0	0.0	0.43	0.30	0.15	0.0	0.0	0.0	0.44	0.10		
16	0.0	0.0	0.30	0.0	0.18	0.22	0.35	0.0	0.0	0.0	0.41	0.0		
17	0.0	0.0	0.0	0.02	0.09	0.03	0.0	0.0	0.0	0.0	0.08	0.0		
18	0.0	0.0	0.0	0.0	0.22	0.0	0.09	0.0	0.10	1.01	0.06	0.18		
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.23	0.0	0.0	0.21		
20	0.0	0.12	0.25	0.10	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.74	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.77	0.0	0.0	0.25	0.14	0.0	0.0	0.04	0.0	0.45		
23	0.05	0.0	0.13	0.16	0.88	0.0	0.0	0.0	0.20	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.02	0.0	0.07	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.27	0.03	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.39	0.18	0.45	0.17	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.44	0.0	1.07	0.0	0.19	0.0	0.0	0.0	0.0	0.94		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.67		
29	0.45	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.64	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42		
STA AV	2.82	2.40	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y103. STA AV based on 29-30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 115					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	T 0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.002	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.004	0.0	0.002	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.006	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.005	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.002		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0		0.003		0.0		0.0	0.0		0.0		0.0	
MEAN	0.0001	0.0	0.0005	0.0	0.0007	0.0	0.0001	0.0	0.0	0.0	0.0	0.0006	
INCHES	0.035	0.005	0.218	0.021	0.317	0.0	0.039	0.0	0.0	0.0	0.0	0.279	
STA AV	0.214	0.242	0.230	0.136	0.156	0.377	0.282	0.155	0.116	0.029	0.019	0.058	

NOTES: To convert CPS to IN/DAY, multiply by 14.7836. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 127

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.65 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 127	
	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42	36.17	
	0 1.170	0.062	1.214	0.056	0.659	0.013	0.044	0.0	0.0	0.0	0.0	0.530	3.749	
STA AV	P 3.20	2.60	3.49	3.68	3.47	3.56	4.43	2.76	2.62	1.93	2.66	2.46	36.87	
	Q 0.782	0.704	0.651	0.344	0.118	0.257	0.107	0.066	0.076	0.019	0.038	0.283	3.446	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				8 Days					
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1968	3-27	0.168	5-27	0.107	5-27	0.176	1-30	0.362	1-30	0.632	1-29	0.901	1-28	1.126	1-25	1.231

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	6-12	3.120	9-1	1.330	9-1	1.480	6-12	1.490	1-26	1.970	1-26	2.650	1-25	2.820	1-25	2.850
	1957		1950		1950		1957		1952		1952		1952		1952	

NOTES: Watershed conditions: Cover of second year meadow, improved practice plus plow-plant for corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.12-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.12-1 and 26.30-3. Precipitation data from rain gage #103. Precipitation and runoff records began May 1949. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 127	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.07	0.0	0.03	0.0	0.40	0.91	0.49	0.67	0.0	0.0	0.25		
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.32	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.25	0.12	0.0	0.0	0.04	0.41	0.06	0.08		
4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.54		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.30	0.22	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.24	0.0	0.0	0.0	0.0		
9	0.05	0.10	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.08	0.09	0.23	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.35	1.27	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0		
13	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.32	0.0	0.0	0.73	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.70	0.0	0.0	0.0	0.43	0.30	0.15	0.0	0.0	0.0	0.44	0.10		
16	0.0	0.0	0.30	0.0	0.18	0.22	0.35	0.0	0.0	0.0	0.41	0.0		
17	0.0	0.0	0.0	0.02	0.09	0.03	0.0	0.0	0.0	0.0	0.08	0.0		
18	0.0	0.0	0.0	0.0	0.22	0.0	0.09	0.0	0.10	1.01	0.06	0.18		
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.23	0.0	0.0	0.21		
20	0.0	0.12	0.25	0.10	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.74	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.77	0.0	0.0	0.25	0.14	0.0	0.0	0.04	0.0	0.45		
23	0.05	0.0	0.13	0.16	0.88	0.0	0.0	0.0	0.20	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.02	0.0	0.07	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.27	0.03	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.39	0.18	0.45	0.17	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.44	0.0	1.07	0.0	0.19	0.0	0.0	0.0	0.0	0.94		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.67		
29	0.45	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.64	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42		
STA AV	3.20	2.60	3.49	3.68	3.47	3.56	4.43	2.76	2.62	1.93	2.66	2.46		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage #103. STA AV based on 19-20 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 127												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.001	0.0	0.003	0.0	0.0	T 0.002	0.0	0.0	0.0	0.0	0.0
2	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.004E	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.003E	0.0	0.010	0.0	0.001	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.018	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.011
28	0.003	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.026E
29	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0026	0.0001	0.0027	0.0001	0.0015	0.0	0.0001	0.0	0.0	0.0	0.0	0.0012
INCHES	1.170	0.062	1.214	0.056	0.659	0.013	0.044	0.0	0.0	0.0	0.0	0.530
STA AV	0.782	0.704	0.651	0.344	0.118	0.257	0.107	0.066	0.076	0.019	0.038	0.283

NOTES: To convert CFS to IN/DAY, multiply by 14.4253. STA AV based on 19-20 yr period.

COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 109	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.94	0.30	4.46	1.84	6.18	3.00	4.15	1.16	2.10	2.20	2.62	3.28	35.23
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	P	2.67	2.33	3.45	3.47	3.88	4.20	4.33	2.87	2.62	2.16	2.46	2.22	36.67
	O	0.068	0.155	0.135	0.048	0.106	0.271	0.213	0.155	0.048	0.010	0.001	0.019	1.229

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	5-17	4.340	6-29	0.820	6-28	1.090	3- 4	1.350	3- 4	1.920	3- 4	2.170	3- 3	2.550	3- 1	2.660
	1941		1941		1940		1963		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of second year meadow, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage Y102. Precipitation and runoff records began Nov. 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 109	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.01	0.0	0.40	0.98	0.45	0.68	0.0	0.0	0.23		
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.32	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.23	0.06	0.0	0.0	0.05	0.43	0.06	0.10		
4	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0		
6	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.26	0.25	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.25	0.0	0.0	0.0	0.0		
9	0.05	0.10	0.05	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.10	0.08	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.25	1.21	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0		
13	1.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.31	0.0	0.0	0.77	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.86	0.0	0.0	0.0	0.47	0.33	0.10	0.0	0.0	0.0	0.46	0.06		
16	0.0	0.0	0.35	0.0	0.19	0.22	0.21	0.0	0.0	0.0	0.49	0.0		
17	0.0	0.0	0.0	0.02	0.09	0.04	0.0	0.0	0.0	0.0	0.02	0.0		
18	0.0	0.0	0.0	0.0	0.26	0.0	0.09	0.0	0.10	0.93	0.03	0.18		
19	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.20	0.0	0.0	0.22		
20	0.0	0.04	0.20	0.07	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.67	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.68	0.0	0.0	0.21	0.12	0.0	0.0	0.05	0.0	0.43		
23	0.05	0.0	0.20	0.19	0.83	0.0	0.0	0.0	0.27	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.33	0.0	2.29	0.0	0.06	0.0	0.05	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.03	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.40	0.19	0.47	0.18	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	0.95	0.0	0.22	0.0	0.0	0.0	0.0	0.96		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.60		
29	0.23	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.62	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.94	0.30	4.46	1.84	6.18	3.00	4.15	1.16	2.10	2.20	2.62	3.28		
STA AV	2.67	2.33	3.45	3.47	3.88	4.20	4.33	2.87	2.62	2.16	2.46	2.22		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y102. STA AV based on 30-31 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 109					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.068	0.155	0.135	0.048	0.106	0.271	0.213	0.155	0.048	0.010	0.001	0.019

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 103

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 0.65 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 103	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	34.31
	Q	0.289	0.142	0.805	0.031	0.531	0.0	0.004	0.0	0.0	0.0	0.0	0.160	1.962
STA AV	P	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17	35.32
	Q	0.319	0.362	0.617	0.281	0.153	0.367	0.251	0.126	0.135	0.029	0.029	0.092	2.762

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																				
1968	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days						
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
	5-27	0.107		5-27	0.078		5-27	0.143		5-27	0.270		5-26	0.431		3-21	0.461		3-19	0.680

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
7-23	4.720	9-1	1.950	9-1	2.600	9-1	2.620	3-4	2.820	3-4	3.070	3-3	3.500	3-1	4.150
1940		1950		1950		1950		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of first year meadow, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 985, p. 26.14-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.14-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 103	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.23		
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.11		
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.48		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0		
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0		
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.38	0.12		
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0		
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.16		
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.21		
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.40		
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.0	0.33	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.93		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.62		
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.79	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26		
STA AV	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 29-30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 103					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.002	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0 E	0.0	0.002	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.005	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.004	
29	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.005E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0003	0.0001	0.0007	0.0	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	
INCHES	0.289	0.142	0.805	0.031	0.531	0.0	0.004	0.0	0.0	0.0	0.0	0.160	
STA AV	0.319	0.362	0.617	0.281	0.153	0.367	0.251	0.126	0.135	0.029	0.029	0.092	

NOTES: To convert CFS to IN/DAY, multiply by 36.6179. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 110

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AHEA: 1.27 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 110	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	34.31
	O	0.200	0.0	0.016	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.056	0.336	
STA AV	P	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17	35.32
	O	0.219	0.232	0.377	0.145	0.118	0.338	0.251	0.106	0.135	0.029	0.019	0.089	2.060

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	1-30	0.036	1-30	0.032	1-30	0.059	1-30	0.116	1-30	0.169	1-29	0.198	1-29	0.200	1-23	0.200

MAXIMUMS FOR PERIOD OF RECORD																
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1950	7-28	4.440	9-1	2.240	1950	9-1	3.160	1950	9-1	3.190	1950	9-1	3.190	1950	3-3	4.120
														1963	3-1	5.050

NOTES: Watershed conditions: Cover of first year meadow, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.14-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.15-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 110	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.23		
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.11		
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.48		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0		
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0		
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.38	0.12		
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0		
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.16		
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.21		
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.40		
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.0	0.33	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.93		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.62		
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.79	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.76			0.0		0.0	0.0		0.0		0.0		
TOTAL	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26		
STA AV	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 29-30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 110						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.001	0.0	0.003E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
29	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.010		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0003	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	
INCHES	0.200	0.0	0.016	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.056	
STA AV	0.219	0.232	0.377	0.145	0.118	0.338	0.251	0.106	0.135	0.029	0.019	0.089	

NOTES: To convert CPS to IN/DAY, multiply by 18.7415. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 113

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.45 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 113	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50	35.36
	Q	1.073	0.010	0.352	0.0	0.149	0.0	0.0	0.0	0.0	0.0	0.066	1.650	
STA AV	P	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26	36.18
	Q	0.249	0.377	0.311	0.145	0.121	0.338	0.154	0.164	0.077	0.039	0.019	0.060	2.056

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
1968	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1-30	0.080	1-30	0.072	1-30	0.127	1-29	0.281	1-29	0.397	1-29	0.690	1-28	1.022	1-25	1.082

MAXIMUMS FOR PERIOD OF RECORD															
1957	1957	1957	1961	1961	1961	1957	1957	1963	1963	1963	1963	1963	1963	1963	1963
6-12	3.770	9-1	1.030	4-25	1.200	6-28	1.350	3-4	1.500	3-4	1.700	3-3	2.000	3-1	2.690

NOTES: Watershed conditions: Cover of wheat to meadow, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.16-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.16-1 and 26.30-3. Precipitation data from rain gage 109. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 113	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03	0.0	0.03	0.0	0.38	0.86	0.51	0.65	0.0	0.0	0.23		
2	0.0	0.08	0.0	0.0	0.0	0.09	0.0	0.0	0.03	0.45	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.17	0.07	0.0	0.0	0.06	0.43	0.05	0.09		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.51		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0		
6	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.30	0.25	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.20	0.0		
8	0.0	0.0	0.10	0.0	0.0	0.0	0.17	0.30	0.0	0.0	0.03	0.0		
9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.07	0.10	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.31	1.10	0.0	0.0	0.11	0.0	0.05	0.0		
12	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.70	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.47	0.19	0.05	0.0	0.0	0.0	0.45	0.10		
16	0.0	0.0	0.30	0.0	0.25	0.19	0.10	0.0	0.0	0.0	0.38	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.09	0.95	0.16	0.15		
19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.25	0.0	0.0	0.24		
20	0.0	0.05	0.22	0.08	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.73	0.0	0.0	0.35	0.03	0.0	0.0	0.05	0.0	0.43		
23	0.05	0.0	0.05	0.19	0.83	0.0	0.0	0.0	0.28	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.39	0.0	2.52	0.0	0.10	0.0	0.09	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.35	0.16	0.37	0.18	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	0.99	0.0	0.31	0.0	0.0	0.0	0.0	1.07		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.68		
29	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0		
30	0.56	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50		
STA AV	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 109. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 113												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.004	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004
29	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0021	0.0	0.0007	0.0	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0001
INCHES	1.073	0.010	0.352	0.0	0.149	0.0	0.0	0.0	0.0	0.0	0.0	0.066
STA AV	0.249	0.377	0.311	0.145	0.121	0.338	0.154	0.164	0.077	0.039	0.019	0.060

NOTES: To convert CFS to IN/DAY, multiply by 16.4149. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 118

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.96 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 118	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.59	0.34	4.45	1.71	6.33	2.74	4.29	1.25	2.22	2.42	2.82	3.49	35.65
	O	0.687	0.256	0.210	0.005	0.484	0.015	0.002	0.0	0.0	0.0	0.0	0.301	1.960
STA AV	P	2.80	2.38	3.51	3.40	3.84	4.05	4.13	2.89	2.78	2.09	2.58	2.32	36.77
	O	0.284	0.347	0.519	0.213	0.123	0.377	0.155	0.222	0.126	0.010	0.039	0.088	2.501

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	5-27	0.062	12-28	0.054	5-27	0.104	5-27	0.195	1-30	0.298	1-29	0.419	1-29	0.567	1-26	0.942

MAXIMUMS FOR PERIOD OF RECORD														
Date	Maximum Discharge Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1957	3.110	1950	1.300	9- 1	1.590	9- 1	1.600	9- 1	1.600	3- 9	1.900	3- 9	2.410	
										1964	1.900	1964	1.968	
													1-26	0.942

NOTES: Watershed conditions: Cover of wheat to meadow, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.17-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.17-1 and 26.30-3. Precipitation data from rain gage 108. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 118	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03	0.0	0.03	0.0	0.40	0.84	0.55	0.58	0.0	0.0	0.24		
2	0.0	0.12	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.40	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.19	0.09	0.0	0.0	0.06	0.46	0.06	0.09		
4	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.49		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.31	0.22	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.23	0.0		
8	0.0	0.0	0.06	0.0	0.0	0.0	0.24	0.25	0.0	0.0	0.0	0.0		
9	0.04	0.10	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.08	0.10	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.31	1.04	0.0	0.0	0.12	0.0	0.05	0.0		
12	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.71	0.25	3.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.52	0.15	0.05	0.0	0.0	0.0	0.44	0.09		
16	0.0	0.0	0.30	0.0	0.24	0.21	0.12	0.0	0.0	0.0	0.40	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.06	0.02	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.10	0.96	0.13	0.20		
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.24	0.0	0.0	0.20		
20	0.0	0.09	0.20	0.05	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.67	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.83	0.0	0.0	0.30	0.03	0.0	0.0	0.05	0.0	0.41		
23	0.07	0.0	0.06	0.20	0.83	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.43	0.0	2.53	0.0	0.10	0.0	0.07	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.03	0.0	0.0		
26	0.0	0.0	0.40	0.16	0.36	0.14	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.36	0.0	1.07	0.0	0.40	0.0	0.0	0.0	0.0	1.07		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.70		
29	0.22	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0		
30	0.61	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.59	0.34	4.45	1.71	6.33	2.74	4.29	1.25	2.22	2.42	2.82	3.49		
STA AV	2.80	2.38	3.51	3.40	3.84	4.05	4.13	2.89	2.78	2.09	2.58	2.32		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 108. STA AV based on 29 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 118												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.010	0.0	0.0	T 0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.010	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	T 0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.001	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.006	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.001	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.004	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.008
28	0.002	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.017
29	0.008	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.012	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0018	0.0007	0.0006	0.0	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0008
INCHES	0.687	0.256	0.210	0.005	0.484	0.015	0.002	0.0	0.0	0.0	0.0	0.301
STA AV	0.284	0.347	0.519	0.213	0.123	0.377	0.155	0.222	0.126	0.010	0.039	0.088

NOTES: To convert CPS to IN/DAY, multiply by 12.1437. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 111

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Manskingum River Basin.

AREA: 1.18 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 111															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50	35.36															
	Q	0.679	0.316	1.635	0.031	1.262	0.0	0.009	0.0	0.0	0.0	0.0	0.382	4.314															
STA AV	P	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26	36.18															
	Q	0.497	0.552	0.665	0.291	0.188	0.309	0.087	0.048	0.077	0.019	0.029	0.216	2.978															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		5-27	0.164	5-27	0.142	5-27	0.247	5-27	0.450	5-27	0.558	5-26	0.666	3-21	0.725	3-15	1.232

MAXIMUMS FOR PERIOD OF RECORD																	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
		6-12	3.830	6-12	1.330	6-12	1.420	6-28	1.710	1-21	2.030	1-26	2.600	1-25	2.610	1-19	3.080
		1957		1957		1957		1957		1959		1952		1952		1952	

NOTES: Watershed conditions: Cover of wheat to meadow, improved practice plus mulch tillage. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 26.18-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.18-1 and 26.30-3. Precipitation data from rain gage 109. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 111												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.03	0.0	0.03	0.0	0.38	0.86	0.51	0.65	0.0	0.0	0.23	1	0.0	0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.08	0.0	0.0	0.0	0.09	0.0	0.0	0.03	0.45	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.20	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.17	0.07	0.0	0.0	0.06	0.43	0.05	0.09	3	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.03	0.0	0.0	
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.51	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	
6	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.30	0.25	0.0	6	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.30	0.25	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.20	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.20	0.0	0.0	
8	0.0	0.0	0.10	0.0	0.0	0.0	0.17	0.30	0.0	0.0	0.03	0.0	8	0.0	0.0	0.10	0.0	0.0	0.0	0.17	0.30	0.0	0.03	0.0	
9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.07	0.10	0.21	0.0	0.0	10	0.0	0.0	0.0	0.10	0.0	0.0	0.07	0.10	0.21	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.31	1.10	0.0	0.0	0.11	0.0	0.05	0.0	11	0.0	0.0	0.0	0.0	1.31	1.10	0.0	0.0	0.11	0.0	0.05	
12	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	12	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.70	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.36	0.0	0.0	0.70	0.25	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.47	0.19	0.05	0.0	0.0	0.0	0.45	0.10	15	0.64	0.0	0.0	0.0	0.47	0.19	0.05	0.0	0.0	0.0	0.45	
16	0.0	0.0	0.30	0.0	0.25	0.19	0.10	0.0	0.0	0.0	0.38	0.0	16	0.0	0.0	0.30	0.0	0.25	0.19	0.10	0.0	0.0	0.0	0.38	
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0	17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	
18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.09	0.95	0.16	0.15	18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.09	0.95	0.16	
19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.25	0.0	0.0	0.24	19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.25	0.0	0.0	
20	0.0	0.05	0.22	0.08	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.05	0.22	0.08	0.30	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.73	0.0	0.0	0.35	0.03	0.0	0.0	0.05	0.0	0.43	22	0.0	0.0	0.73	0.0	0.0	0.0	0.35	0.03	0.0	0.0	0.05	
23	0.05	0.0	0.05	0.19	0.83	0.0	0.0	0.0	0.28	0.0	0.0	0.0	23	0.05	0.0	0.05	0.19	0.83	0.0	0.0	0.0	0.0	0.0	0.28	
24	0.0	0.0	0.0	0.0	0.39	0.0	2.52	0.0	0.10	0.0	0.09	0.0	24	0.0	0.0	0.0	0.0	0.39	0.0	2.52	0.0	0.10	0.0	0.09	
25	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.35	0.16	0.37	0.18	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.35	0.16	0.37	0.18	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.40	0.0	0.99	0.0	0.31	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.40	0.0	0.99	0.0	0.31	0.0	0.0	0.0	0.0	
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.68	28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	
29	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	29	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
30	0.56	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.56	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50	TOTAL	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50
STA AV	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26	STA AV	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 109. STA AV based on 29-30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 111					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.006	0.0	0.002	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
2	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.019	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.008E	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.014	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.015	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.001
28	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.018
29	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.018		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.001		0.003		0.0		0.0	0.0		0.0		0.0
MEAN	0.0011	0.0005	0.0026	0.0001	0.0020	0.0	0.0	0.0	0.0	0.0	0.0	0.0006
INCHES	0.679	0.316	1.635	0.031	1.262	0.0	0.009	0.0	0.0	0.0	0.0	0.382
STA AV	0.497	0.552	0.665	0.291	0.188	0.309	0.087	0.048	0.077	0.019	0.029	0.216

NOTES: To convert CFS to IN/DAY, multiply by 20.1709. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 121

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.42 acres

MONTHLY PRECIPITATION AND RDNOFF (inches)														COSHOCTON, OHIO WATERSHED 121
		Jan	Feh	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	33.82
	O	0.253	0.067	0.385	0.035	0.297	0.068	0.003	0.0	0.0	0.0	0.097	1.206	
STA AV	P	2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15	35.39
	O	0.183	0.195	0.332	0.165	0.068	0.225	0.184	0.126	0.077	0.019	0.010	0.032	1.616

ANNDAL MAXIMDM DISCHARGE (in/hr) AND MAXIMDM VOLUMES OF RDNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval												
				6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date								
	3-31	0.051	1-29	0.044	1-29	0.072	1-29	0.106	5-27	0.124	1-29	0.210	1-28	0.239	5-26	0.365

MAXIMDMS FOR PERIOD OF RECORD																
	8-23	7.820	9-1	1.320	9-1	1.390	9-1	1.390	9-1	1.390	9-1	1.390	3-3	1.660	3-1	1.870
	1944		1950		1950		1950		1950		1950		1963		1963	

NOTES: Watershed conditions: Cover of meadow to corn to wheat, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, DSDA Misc. Pub. 945, p. 26.20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, DSDA Misc. Pub. 1070, pp. 26.19-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 121
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02	0.0	0.02	0.0	0.35	0.90	0.54	0.64	0.0	0.0	0.21		
2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.31	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.06	0.54	0.05	0.08		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0		
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.24	0.0	0.0	0.03	0.0		
9	0.04	0.09	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.19	0.10	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.20	0.94	0.0	0.0	0.10	0.0	0.03	0.0		
12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.80	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.55	0.20	0.05	0.0	0.0	0.0	0.40	0.08		
16	0.0	0.0	0.31	0.0	0.15	0.19	0.05	0.0	0.0	0.0	0.34	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.10	0.0	0.10	0.95	0.12	0.15		
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.19	0.02	0.03	0.22		
20	0.0	0.04	0.20	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.65	0.0	0.0	0.25	0.05	0.0	0.0	0.05	0.0	0.40		
23	0.05	0.0	0.15	0.19	0.73	0.0	0.0	0.0	0.20	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.33	0.0	0.10	0.0	0.07	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.35	0.15	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.24	0.0	1.57	0.0	0.39	0.0	0.0	0.0	0.0	0.97		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.66		
29	0.21	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.57	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.69		0.0		0.0		0.0		0.0	0.0		
TOTAL	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27		
STA AV	2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 113. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 121												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0 T	0.0	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.003E	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.003	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.002	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.006E
29	0.007	0.0	0.0 T	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.006		0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0 T		0.004		0.0 T		0.0	0.0		0.0		0.0
MEAN	0.0005	0.0001	0.0007	0.0001	0.0006	0.0001	0.0	0.0	0.0	0.0	0.0	0.0002
INCHES	0.253	0.067	0.385	0.035	0.297	0.068	0.003	0.0	0.0	0.0	0.0	0.097
STA AV	0.183	0.195	0.332	0.165	0.068	0.225	0.184	0.126	0.077	0.019	0.010	0.032

NOTES: To convert CFS to IN/DAY, multiply by 16.7617. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 106

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.56 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 106	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	33.82
	O	0.008	0.0	0.042	0.0	0.794	0.087	0.375	0.007	0.009	0.006	0.019	0.140	1.489
STA AV	P	2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15	35.39
	O	0.222	0.232	0.194	0.126	0.123	0.303	0.293	0.213	0.165	0.020	0.030	0.082	2.001

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge	1 Hour		2 Hours		Maximum Volume for Selected Time Interval			1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1968	5-15	4.437	7-24	0.342	7-24	0.346	7-24	0.358	5-15	0.398	5-15	0.400	5-15	0.401	5-15	0.495

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
8-23	7.630	9-1	1.260	9-1	1.380	9-1	1.390	2-23	1.410	2-23	1.410	2-23	2.000	2-19	2.440
1964		1950		1950		1950		1960		1962		1962		1962	

NOTES: Watershed conditions: Cover of meadow to corn to wheat, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, DSDA Misc. Pub. 945, p. 26.20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, DSDA Misc. Pnh. 1070, pp. 26.20-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see D.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 106	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.02	0.0	0.02	0.0	0.35	0.90	0.54	0.64	0.0	0.0	0.0	0.21		
2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.31	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.06	0.54	0.05	0.08	0.08		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0		
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30	0.20	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.22	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.24	0.0	0.0	0.03	0.0	0.0		
9	0.04	0.09	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.19	0.10	0.21	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.20	0.94	0.0	0.0	0.10	0.0	0.03	0.0	0.0		
12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.80	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.55	0.20	0.05	0.0	0.0	0.0	0.40	0.08	0.08		
16	0.0	0.0	0.31	0.0	0.15	0.19	0.05	0.0	0.0	0.0	0.34	0.0	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.10	0.0	0.10	0.95	0.12	0.15	0.15		
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.19	0.02	0.03	0.22	0.22		
20	0.0	0.04	0.20	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.65	0.0	0.0	0.25	0.05	0.0	0.0	0.05	0.0	0.40	0.40		
23	0.05	0.0	0.15	0.19	0.73	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.33	0.0	0.10	0.0	0.07	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.35	0.15	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.24	0.0	1.57	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.97		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.66	0.66		
29	0.21	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.57	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	3.27		
STA AV	2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15	2.15		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 113. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 106												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.001	0.0 T	0.0 T	0.001	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.021E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.005E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.003E	0.0	0.024E	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.013	0.0	0.001	0.0	0.0	0.0	0.0	0.001
28	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.001	0.008E
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.001		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0001	0.0	0.0017	0.0002	0.0008	0.0	0.0	0.0	0.0	0.0003
INCHES	0.008	0.0	0.042	0.0	0.794	0.087	0.375	0.007	0.009	0.006	0.019	0.140
STA AV	0.222	0.232	0.194	0.126	0.123	0.303	0.293	0.213	0.165	0.020	0.030	0.082

NOTES: To convert CPS to IN/DAY, multiply by 15.2575. STA AV based on 29-30 yr period.

CDSHDCTDN, DHID WATERSHED 188

LDCATIDN: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 2.05 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CDSHDCTDN, DHID WATERSHED 188												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1968	P 3.57	0.24	3.99	1.75	6.07	2.45	4.46	1.42	2.04	2.34	2.63	3.33	34.29												
	0 0.063	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.066												
STA AV	P 2.59	2.19	3.22	3.21	3.86	3.96	4.14	2.91	2.64	2.08	2.37	2.15	35.31												
	0 0.166	0.164	0.242	0.097	0.097	0.270	0.087	0.164	0.135	0.048	0.019	0.029	1.518												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days										
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.									
1968	1-30	0.019	1-30	0.018	1-30	0.029	1-30	0.041	1-29	0.053	1-29	0.059	1-28	0.062	1-22	0.062									
MAXIMUMS FOR PERIOD OF RECORD																									
	8-23	3.060	9- 1	1.840	9- 1	2.070	9- 1	2.080	9- 1	2.080	9- 1	2.080	3- 3	2.340	3- 1	2.430									
	1944		1950		1950		1950		1950		1950		1963		1963										

NOTES: Watershed conditions: Cover of meadow to corn to wheat, improved practice plus deep plowing. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.21-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.21-1 and 26.30-3. Precipitation data from rain gage 115. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)												COSHOCTON, DHID WATERSHED 188											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.02	0.0	0.04	0.0	0.40	0.79	0.55	0.61	0.0	0.0	0.22												
2	0.0	0.10	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.44	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.07	0.49	0.05	0.10												
4	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.48												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0												
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.28	0.23	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.17	0.0												
8	0.0	0.0	0.06	0.0	0.0	0.0	0.35	0.24	0.0	0.0	0.05	0.0												
9	0.05	0.08	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.24	0.12	0.17	0.0	0.0												
11	0.0	0.0	0.0	0.0	1.24	0.81	0.0	0.0	0.11	0.0	0.05	0.0												
12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0												
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
15	0.64	0.0	0.0	0.0	0.54	0.18	0.05	0.0	0.0	0.0	0.37	0.07												
16	0.0	0.0	0.30	0.0	0.19	0.17	0.09	0.0	0.0	0.0	0.37	0.0												
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.05	0.0												
18	0.0	0.0	0.0	0.0	0.20	0.0	0.07	0.0	0.10	0.94	0.17	0.15												
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.22	0.0	0.0	0.21												
20	0.0	0.04	0.23	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
21	0.0	0.0	0.67	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.67	0.0	0.0	0.26	0.02	0.0	0.0	0.02	0.0	0.42												
23	0.06	0.0	0.10	0.20	0.80	0.0	0.0	0.0	0.19	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.40	0.0	2.51	0.0	0.06	0.0	0.05	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.38	0.20	0.51	0.17	0.0	0.0	0.0	0.0	0.0	0.0												
27	0.0	0.0	0.19	0.0	1.01	0.0	0.58	0.0	0.0	0.0	0.0	1.02												
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.66												
29	0.22	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	0.59	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
31	0.0	0.65			0.0		0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL	3.57	0.24	3.99	1.75	6.07	2.45	4.46	1.42	2.04	2.34	2.63	3.33												
STA AV	2.59	2.19	3.22	3.21	3.86	3.96	4.14	2.91	2.64	2.08	2.37	2.15												

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 115. STA AV based on 29-30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 188					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.004		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0	
MEAN	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.063	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.166	0.164	0.242	0.097	0.097	0.270	0.087	0.164	0.135	0.048	0.019	0.029	

NOTES: To convert CPS to IN/DAY, multiply by 11.6106. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 185

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 7.40 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 185	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.53	0.38	4.02	1.80	6.08	2.48	4.23	1.37	2.02	2.40	2.73	3.60	34.64
	O	0.444	0.059	0.177	0.005	0.131	0.0	0.058	0.0	0.0	0.0	0.0	0.121	0.994
STA AV	P	2.70	2.20	3.28	3.25	3.77	3.83	4.07	2.86	2.62	2.04	2.37	2.19	35.17
	O	0.141	0.224	0.344	0.135	0.120	0.270	0.176	0.116	0.135	0.048	0.019	0.052	1.782

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	7-24	0.199	7-24	0.057	1-30	0.065	1-30	0.117	1-30	0.172	1-29	0.286	1-28	0.377	1-26	0.503
MAXIMUMS FOR PERIOD OF RECORD																
	6-16	3.350	9-1	1.910	9-1	2.310	9-1	2.320	3-4	2.420	3-4	2.880	3-3	3.550	3-1	4.110
	1946		1950		1950		1950		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of corn and meadow strips, improved practice with strip cropping. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.23-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.23-1 and 26.30-3. Precipitation data from rain gage 128. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 185	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.07	0.0	0.02	0.0	0.38	0.80	0.53	0.60	0.0	0.0	0.0	0.25	
2	0.0	0.17	0.0	0.0	0.0	0.04	0.0	0.0	0.09	0.30	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.14	0.13	0.0	0.0	0.03	0.53	0.05	0.0	0.10	
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.50	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.31	0.22	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.21	0.0	0.0	
8	0.0	0.0	0.05	0.0	0.0	0.0	0.29	0.23	0.0	0.0	0.0	0.0	0.0	
9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.20	0.09	0.20	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.28	0.85	0.0	0.0	0.11	0.0	0.04	0.0	0.0	
12	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.75	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.50	0.15	0.03	0.0	0.0	0.0	0.40	0.09	0.0	
16	0.0	0.0	0.32	0.0	0.20	0.17	0.05	0.0	0.0	0.0	0.40	0.0	0.0	
17	0.0	0.0	0.0	0.02	0.07	0.06	0.0	0.0	0.0	0.0	0.03	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.18	0.0	0.10	0.0	0.08	0.99	0.15	0.20	0.0	
19	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.25	0.0	0.0	0.21	0.0	
20	0.0	0.05	0.20	0.05	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.65	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.67	0.0	0.0	0.26	0.05	0.0	0.0	0.05	0.0	0.46	0.0	
23	0.05	0.0	0.12	0.20	0.82	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.38	0.0	2.33	0.0	0.08	0.0	0.08	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.28	0.04	0.0	0.0	0.02	0.0	0.0	0.0	
26	0.0	0.0	0.36	0.18	0.45	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.26	0.0	1.04	0.0	0.54	0.0	0.0	0.0	0.0	1.04	0.0	
28	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04	0.75	0.0	
29	0.22	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.58	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.53	0.38	4.02	1.80	6.08	2.48	4.23	1.37	2.02	2.40	2.73	3.60		
STA AV	2.70	2.20	3.28	3.25	3.77	3.83	4.07	2.86	2.62	2.04	2.37	2.19		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 128. STA AV based on 29-30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 185					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.009	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.004	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.006	0.0	0.018	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.002	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.010	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.006
28	0.010	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.032
29	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.011	0.004	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0045	0.0006	0.0018	0.0	0.0013	0.0	0.0006	0.0	0.0	0.0	0.0	0.0012
INCHES	0.444	0.059	0.177	0.005	0.131	0.0	0.058	0.0	0.0	0.0	0.0	0.121
STA AV	0.141	0.224	0.344	0.135	0.120	0.270	0.176	0.116	0.135	0.048	0.019	0.052

NOTES: To convert CPS to IN/DAY, multiply by 3.2164. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 187

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 7.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 187	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.62	0.39	4.46	1.83	6.17	2.59	4.35	1.45	2.00	2.38	2.77	3.27	35.28
	O	1.148	0.656	1.321	0.323	0.935	0.131	0.028	0.0	0.0	0.0	0.0	0.153	4.696
STA AV	P	2.72	2.25	3.39	3.28	3.88	4.02	4.27	2.84	2.81	2.12	2.43	2.21	36.22
	O	0.851	0.679	1.137	0.552	0.246	0.333	0.117	0.058	0.106	0.019	0.019	0.256	4.372

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval				1 Day Date	2 Days Date	8 Days Date						
				Vol.	Vol.	6 Hours Date	12 Hours Date									
	7-24	0.100	1-30	0.080	1-30	0.140	1-30	0.279	1-30	0.453	1-29	0.656	1-29	0.963	1-28	1.708
MAXIMUMS FOR PERIOD OF RECORD																
	6-12	2.750	9-1	1.370	9-1	1.540	9-1	1.570	3-4	2.010	3-4	2.350	3-4	2.950	1-20	3.360
	1957		1950		1950		1950		1963		1963		1963		1959	

NOTES: Watershed conditions: Cover of wheat and meadow strips, improved practice with strip cropping. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.24-5. For Geology description and map, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.24-1 and 26.30-3. Precipitation data from rain gage 116. Precipitation and runoff records began Jan. 1941. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 187	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.02	0.0	0.35	0.84	0.58	0.58	0.0	0.0	0.21		
2	0.0	0.12	0.0	0.0	0.0	0.07	0.0	0.0	0.05	0.43	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.20	0.08	0.0	0.0	0.04	0.50	0.06	0.10		
4	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.53		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.35	0.0	0.0	0.0		
6	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.26	0.25	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0		
8	0.0	0.0	0.06	0.0	0.0	0.0	0.27	0.28	0.0	0.0	0.03	0.0		
9	0.04	0.13	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.19	0.14	0.17	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.15	0.89	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.35	0.0	0.0	0.82	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.60	0.15	0.03	0.0	0.0	0.0	0.39	0.15		
16	0.0	0.0	0.30	0.0	0.22	0.22	0.06	0.0	0.0	0.0	0.37	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.06	0.0	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.07	0.0	0.10	0.95	0.19	0.15		
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.21	0.0	0.0	0.21		
20	0.0	0.09	0.22	0.06	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.72	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.73	0.0	0.0	0.30	0.02	0.0	0.0	0.05	0.0	0.35		
23	0.07	0.0	0.13	0.16	0.85	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.37	0.0	2.54	0.0	0.05	0.0	0.07	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.37	0.22	0.43	0.17	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.25	0.0	0.99	0.0	0.52	0.0	0.0	0.0	0.0	0.97		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.60		
29	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.60	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.62	0.39	4.46	1.83	6.17	2.59	4.35	1.45	2.00	2.38	2.77	3.27		
STA AV	2.72	2.25	3.39	3.28	3.88	4.02	4.27	2.84	2.81	2.12	2.43	2.21		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 116. STA AV based on 28 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 187						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.059	0.0	0.024	0.0	0.016	0.0 T	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.058	0.0	0.018	0.0	0.009	0.0 T	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.031	0.0	0.013	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.018	0.0	0.011	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.013	0.0	0.009	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.009	0.0	0.007	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.005	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.002	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.001	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0 T	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.003E	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.001	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.003	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.050	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.054	0.0	0.023	0.0	0.008E	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.036	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.038	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.044	0.0	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.007	
28	0.004	0.0	0.027	0.0	0.054	0.0	0.0	0.0	0.0	0.0	0.0	0.035	
29	0.071	0.0	0.021	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.004	
30	0.198		0.021	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.001	
31	0.071		0.024		0.024		0.0	0.0		0.0		0.0	
MEAN	0.0112	0.0068	0.0129	0.0033	0.0091	0.0013	0.0003	0.0	0.0	0.0	0.0	0.0015	
INCHES	1.148	0.656	1.321	0.323	0.935	0.131	0.028	0.0	0.0	0.0	0.0	0.153	
STA AV	0.851	0.679	1.137	0.552	0.246	0.333	0.117	0.058	0.106	0.019	0.019	0.256	

NOTES: To convert CFS to IN/DAY, multiply by 3.3058. STA AV based on 28 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 192					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.028	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
20	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.013	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.014	0.0	0.016	0.0	0.002	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.007	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.018	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.022
28	0.006	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.055
29	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009E
30	0.127E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003E
31	0.050E	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002E
MEAN	0.0075	0.0021	0.0052	0.0001	0.0028	0.0	0.0	0.0	0.0	0.0	0.0	0.0030
INCHES	0.725	0.190	0.503	0.011	0.270	0.0	0.005	0.0	0.0	0.0	0.0	0.288
STA AV	0.450	0.528	0.645	0.242	0.164	0.299	0.155	0.068	0.106	0.019	0.039	0.174

NOTES: To convert CPS to IN/DAY, multiply by 3.1359. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 169

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 29.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 169		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P 3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	33.82			
	O 1.157	0.504	1.270	0.492	1.097	0.305	0.138	0.006	0.0	0.000	0.019	0.531	5.521			
STA AV	P 2.66	2.16	3.24	3.20	3.79	3.95	4.21	2.87	2.70	1.99	2.42	2.17	35.36			
	O 0.861	0.944	1.424	0.934	0.530	0.474	0.246	0.155	0.154	0.039	0.088	0.366	6.215			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge				Maximum Volume for Selected Time Interval												
Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.	
1968	7-24	0.226	7-24	0.090	1-30	0.129	1-30	0.277	1-30	0.435	1-29	0.623	1-29	0.873	1-28	1.561
MAXIMUMS FOR PERIOD OF RECORD																
	6-12	2.590	9-1	1.700	9-1	2.000	9-1	2.030	9-1	2.040	1-21	2.120	1-21	2.370	1-20	2.680
	1957		1950		1950		1950		1950		1959		1959		1959	

NOTES: Watershed conditions: Cover of 6% hardwoods, 6% reforested, 48% grassland, 34% cultivated, 6% miscellaneous, contour strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.27-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, OSDA Misc. Pub. 1070, pp. 26.27-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 169	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02	0.0	0.02	0.0	0.35	0.90	0.54	0.64	0.0	0.0	0.21		
2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.31	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.06	0.54	0.05	0.08		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0		
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.24	0.0	0.0	0.03	0.0		
9	0.04	0.09	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.19	0.10	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.20	0.94	0.0	0.0	0.10	0.0	0.03	0.0		
12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.80	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.55	0.20	0.05	0.0	0.0	0.0	0.40	0.08		
16	0.0	0.0	0.31	0.0	0.15	0.19	0.05	0.0	0.0	0.0	0.34	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.10	0.0	0.10	0.95	0.12	0.15		
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.19	0.02	0.03	0.22		
20	0.0	0.04	0.20	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.65	0.0	0.0	0.25	0.05	0.0	0.0	0.05	0.0	0.40		
23	0.05	0.0	0.15	0.19	0.73	0.0	0.0	0.0	0.20	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.33	0.0	0.10	0.0	0.07	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.35	0.15	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.24	0.0	1.57	0.0	0.39	0.0	0.0	0.0	0.0	0.97		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.66		
29	0.21	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.57	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27		
STA AV	2.66	2.16	3.24	3.20	3.79	3.95	4.21	2.87	2.70	1.99	2.42	2.17		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 113. STA AV based on 29 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 169						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	T 0.200	0.0	T 0.079	0.001	0.073	0.040	0.006	0.0	0.0	0.0	0.0	T
2	0.0	T 0.180	0.0	T 0.041	0.001	0.047	0.001	0.0	0.0	0.0	0.0	0.0	T
3	0.0	T 0.074	0.0	0.037	0.001	0.030	0.0	T 0.0	0.0	0.0	0.0	0.0	T
4	0.0	T 0.055	0.0	0.075	0.001	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.028
5	0.0	0.040	0.0	0.034	0.001	0.019	0.0	0.0	0.0	0.0	0.0	0.0	T
6	0.0	0.028	0.0	0.028	0.001	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.023	0.0	T 0.026	0.0	T 0.013	0.0	0.001	0.0	0.0	0.0	0.0	0.0
8	0.0	0.014	0.0	T 0.023	0.0	T 0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.007	0.004	0.018	0.0	T 0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.003	0.002	0.016	0.001	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.001	0.001	0.015	0.078	0.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	T 0.009	0.012	0.002	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	T 0.011	0.012	0.001	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.007	0.073E	0.008	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.043	0.022	0.037	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.082	0.010	0.025	0.011	0.0	0.0	0.0	0.0	0.0	0.001	0.0
17	0.0	0.0	0.020	0.010	0.005	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.015	0.010	0.008	0.004	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0
19	0.0	T 0.0	0.015	0.008	0.016	0.003	0.0	0.0	0.0	0.0	T 0.0	0.0	0.014
20	0.0	T 0.0	0.025	0.007	0.016	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001
21	0.001	0.0	0.130	0.006	0.012	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.005	0.0	0.349	0.006	0.008	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.069
23	0.005	0.0	0.154	0.010	0.093	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.023
24	0.0	T 0.0	0.120	0.006	0.167	0.002	0.129	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.078	0.006	0.051	0.006	0.001	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	T 0.087	0.006	0.073	0.004	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	T 0.0	T 0.154	0.005	0.441	0.002	0.0	T 0.0	0.0	0.0	0.0	0.0	0.139
28	0.127	0.0	T 0.042	0.003	0.113	0.001	0.0	T 0.0	0.0	0.0	0.022	0.0	0.275
29	0.368	0.0	T 0.047	0.002	0.087	0.001	0.0	T 0.0	0.0	0.0	0.0	T 0.0	0.049
30	0.716	0.0	0.057	0.002	0.066	0.0	T 0.0	T 0.0	0.0	0.0	0.0	0.0	0.036
31	0.215	0.0	0.128	0.002	0.049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026
MEAN	0.0464	0.0216	0.0510	0.0204	0.0440	0.0127	0.0056	0.0002	0.0	0.0	0.0008	0.0213	
INCHES	1.157	0.504	1.270	0.492	1.097	0.305	0.138	0.006	0.0	0.000	0.019	0.531	
STA AV	0.861	0.944	1.424	0.934	0.530	0.474	0.246	0.155	0.154	0.039	0.088	0.366	

NOTES: To convert CFS to IN/DAY, multiply by 0.8207. STA AV based on 29 yr period.

COSHUCTON, OHIO WATERSHED 177

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 75.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHUCTON, OHIO WATERSHED 177														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93													
	O	1.519	0.931	1.879	0.677	1.477	0.366	0.168	0.008	0.000	0.002	0.024	0.673	7.725													
STA AV	P	2.72	2.26	3.39	3.26	3.85	3.89	4.14	2.85	2.62	2.03	2.48	2.23	35.71													
	O	1.105	1.152	1.812	1.172	0.650	0.544	0.247	0.116	0.126	0.058	0.146	0.535	7.662													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour				2 Hours				Maximum Volume for Selected Time Interval															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		7-24	0.194	7-24	0.090	1-30	0.130	1-30	0.295	1-30	0.482	1-29	0.742	1-29	1.134	1-28	2.108										
MAXIMUMS FOR PERIOD OF RECORD																											
		6-12	3.140	6-12	1.330	9-1	1.550	9-1	1.630	3-4	1.770	3-4	2.060	3-4	2.480	3-4	3.220										
		1957		1957		1950		1950		1963		1963		1963		1964											

NOTES: Watershed conditions: Cover of 4% hardwoods, 6% reforested, 67% grassland, 17% cultivated, 6% miscellaneous, contour strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.28-7. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.28-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHUCTON, OHIO WATERSHED 177												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24													
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10													
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0													
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0													
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0													
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0													
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0													
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07													
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0													
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0													
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15													
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24													
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43													
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0													
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95													
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67													
29	0.20	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
30	0.60	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34													
STA AV	2.72	2.26	3.39	3.26	3.85	3.89	4.14	2.85	2.62	2.03	2.48	2.23													

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 29 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 177												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.028	0.699	0.0	0.294	0.006	0.208	0.104	0.014	0.0	0.0	0.0	0.008E
2	0.024	0.575	0.0	0.196	0.007	0.138	0.013	0.002	0.0	0.0	0.0	0.008
3	0.014	0.314	0.0	0.174	0.011	0.099	0.001	0.001	0.0	0.0	0.0	0.002
4	0.004	0.270E	0.0	0.255	0.008	0.068	0.0	0.001	0.0	0.0	0.0	0.079
5	0.001	0.256E	0.0 T	0.154	0.004	0.054	0.0	0.001	0.0 T	0.0	0.0	0.016
6	0.0	0.174E	0.006	0.119	0.002	0.044	0.0	0.001	0.0	0.0	0.0	0.003
7	0.0	0.119	0.011	0.101	0.001	0.040	0.0	0.001	0.0 T	0.0	0.0	0.001
8	0.0	0.101	0.016	0.082	0.0	0.034	0.0	0.002E	0.0	0.0	0.0	0.0
9	0.0	0.085	0.014	0.064	0.001	0.025	0.0	0.003	0.0	0.0	0.0	0.0
10	0.0	0.071	0.008	0.061	0.0	0.021	0.0	0.001	0.0	0.0	0.0	0.0
11	0.0	0.058	0.008	0.058	0.140	0.120	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.047	0.026	0.047	0.032	0.069	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 E	0.040	0.043	0.034	0.010	0.030	0.0	0.0	0.0	0.0	0.0	0.0
14	0.001E	0.034	0.064	0.118	0.026	0.026	0.0	0.0	0.0	0.0	0.0	0.0
15	0.001E	0.028	0.103	0.073	0.063	0.032	0.0	0.0	0.0	0.0	0.0	0.0
16	0.001E	0.022	0.210	0.042	0.080	0.045	0.0	0.0	0.0	0.0	0.006	0.0
17	0.001	0.016	0.123	0.036	0.030	0.024	0.0	0.0	0.0	0.0	0.0 T	0.0
18	0.001	0.011	0.104	0.032	0.033	0.015	0.0	0.0	0.0	0.003	0.0	0.0
19	0.001	0.008	0.095	0.024	0.055	0.009	0.0	0.0	0.0	0.002	0.0	0.027
20	0.001	0.007	0.113	0.021	0.058	0.003	0.0	0.0	0.0	0.0	0.0	0.014
21	0.001	0.007	0.295	0.016	0.057	0.002	0.0	0.0	0.0	0.0	0.0	0.008
22	0.001	0.006	0.930	0.013	0.040	0.010	0.0	0.0	0.0	0.0	0.0	0.060
23	0.005	0.003	0.682	0.024	0.255	0.003	0.0	0.0	0.0	0.0	0.0	0.037
24	0.003	0.001	0.529	0.022	0.504	0.002	0.371	0.0	0.0	0.0	0.0	0.017
25	0.002	0.001	0.318	0.014	0.236	0.015	0.030	0.0	0.0	0.0	0.0	0.001
26	0.0 T	0.0	0.321	0.021	0.286	0.010	0.005	0.0	0.0	0.0	0.0	0.0
27	0.0 T	0.0	0.738	0.020	1.362	0.011	0.008	0.0	0.0	0.0	0.0	0.334
28	0.268	0.0	0.343	0.013	0.598	0.002	0.003	0.0	0.0	0.0	0.058	0.878
29	1.260	0.0	0.277	0.013	0.374	0.002	0.0	0.0	0.0	0.0	0.008	0.272
30	2.246		0.192	0.009	0.246	0.001	0.0	0.0	0.0	0.0	0.002E	0.204
31	0.962		0.399		0.167		0.0	0.0		0.0		0.169
MEAN	0.1557	0.1019	0.1926	0.0717	0.1513	0.0388	0.0172	0.0008	0.0	0.0002	0.0025	0.0690
INCHES	1.519	0.931	1.879	0.677	1.477	0.366	0.168	0.008	0.000	0.002	0.024	0.673
STA AV	1.105	1.152	1.812	1.172	0.650	0.544	0.247	0.116	0.126	0.058	0.146	0.535

NOTES: To convert CPS to IN/DAY, multiply by 0.3148. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walkonding River, Muskingum River Basin.

AREA: 303.00 acres

MONTHLY PRECIPITATION AND RDNOFP (inches)													COSHOCTON, OHIO WATERSHED 196	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 3.60	0.36	4.45	1.77	6.25	2.66	4.32	1.35	2.11	2.40	2.79	3.38	35.46	
	0 2.086	1.346	2.795	1.398	2.945	0.683	0.341	0.099	0.065	0.088	0.190	1.320	13.354	
STA AV	P 2.73	2.43	3.59	3.42	3.82	4.28	4.26	2.83	2.66	2.18	2.48	2.29	36.96	
	0 1.761	1.921	2.945	2.348	1.516	1.077	0.563	0.284	0.235	0.206	0.393	0.962	14.211	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RDNOFP (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	7-24	0.230	7-24	0.114	1-30	0.171	1-30	0.379	1-30	0.623	1-29	0.937	1-29	1.380	1-28	2.624

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	6-12	3.720	6-12	1.310	6-12	1.440	6-16	1.630	1-21	2.060	1-21	2.920	1-20	3.210	3-4	4.630
	1957		1957		1946		1946		1959		1959		1959		1964	

NOTES: Watershed conditions: Cover of 27% woodland, 50% grassland, 19% cultivated, 4% miscellaneous, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, DSDA Misc. Pnh. 945, p. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, DSDA Misc. Pnh. 1070, pp. 26.30-1 and 26.30-3. Precipitation data from rain gages 108 and 116. Precipitation and runoff records began May 1937. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 196	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.04	0.0	0.02	0.0	0.38	0.84	0.56	0.58	0.0	0.0	0.22		
2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.03	0.41	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.19	0.08	0.0	0.0	0.05	0.48	0.06	0.09		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.51		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.36	0.0	0.0	0.0		
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.28	0.24	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.06	0.0	0.0	0.0	0.25	0.26	0.0	0.0	0.02	0.0		
9	0.04	0.12	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.13	0.12	0.19	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.23	0.96	0.0	0.0	0.11	0.0	0.05	0.0		
12	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.76	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.56	0.15	0.04	0.0	0.0	0.0	0.41	0.12		
16	0.0	0.0	0.30	0.0	0.23	0.21	0.09	0.0	0.0	0.0	0.38	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.06	0.01	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.10	0.95	0.16	0.17		
19	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.22	0.0	0.0	0.20		
20	0.0	0.09	0.21	0.05	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.69	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.78	0.0	0.0	0.30	0.02	0.0	0.0	0.05	0.0	0.38		
23	0.07	0.0	0.09	0.18	0.84	0.0	0.0	0.0	0.29	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.40	0.0	2.53	0.0	0.07	0.0	0.07	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.38	0.19	0.39	0.15	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.31	0.0	1.03	0.0	0.46	0.0	0.0	0.0	0.0	1.02		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.65		
29	0.22	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0		
30	0.61	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.60	0.36	4.45	1.77	6.25	2.66	4.32	1.35	2.11	2.40	2.79	3.38		
STA AV	2.73	2.43	3.59	3.42	3.82	4.28	4.26	2.83	2.66	2.18	2.48	2.29		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gages 108 and 116. STA AV based on 31-32 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					COSHOCOTON, OHIO WATERSHED 196					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.182	4.000	0.088	2.242	0.159	1.134	0.366	0.153	0.041	0.014	0.025	0.103
2	0.182	3.375	0.085	1.164	0.148	0.941	0.123	0.060	0.048	0.021	0.026	0.124E
3	0.182	1.680	0.079	0.967	0.171	0.719	0.076	0.048	0.032	0.099	0.027	0.091E
4	0.155	1.220	0.079	1.482	0.165	0.550	0.063	0.079	0.023	0.033	0.027	1.214E
5	0.123	0.948	0.100	1.042	0.138	0.457	0.063	0.057	0.042	0.033	0.026	0.250
6	0.128	0.783	0.100	0.817	0.119	0.367	0.071	0.049	0.049	0.046	0.032	0.144
7	0.124	0.644	0.079	0.763	0.107	0.330	0.071	0.051	0.024	0.040E	0.054	0.110
8	0.106	0.548	0.093	0.661	0.108	0.281	0.079	0.061	0.022	0.025	0.036	0.092
9	0.110	0.431	0.140	0.531	0.133	0.234	0.064	0.076	0.022	0.022	0.030	0.076
10	0.118	0.360	0.159	0.490	0.111	0.205	0.052	0.076	0.029	0.035	0.029	0.058
11	0.110	0.339	0.133	0.442	1.601	0.592	0.056	0.049	0.034	0.025	0.029	0.058
12	0.098	0.299	0.403	0.383	0.797	0.450	0.047	0.041	0.033	0.023	0.040	0.072
13	0.102	0.250	0.375	0.339	0.344	0.216	0.041	0.037	0.029	0.022	0.032	0.082
14	0.114	0.234	0.274	0.894	0.417	0.187	0.041	0.031	0.027	0.022	0.028	0.070
15	0.114	0.218	0.523	1.062	0.972	0.178	0.041	0.029	0.025	0.022	0.047	0.058
16	0.106	0.210	1.523	0.543	1.410	0.247	0.045	0.028	0.023	0.022	0.221	0.058
17	0.102	0.179	0.913	0.477	0.595	0.175	0.054	0.028	0.020	0.023	0.085	0.054
18	0.102	0.143	0.687	0.417	0.661	0.151	0.039	0.028	0.020	0.148	0.090	0.054
19	0.106	0.148	0.592	0.360	0.633	0.128	0.037	0.028	0.031	0.119	0.060	0.252
20	0.114	0.153	0.679	0.337	0.649	0.108	0.030	0.028	0.026	0.034	0.046	0.181
21	0.172	0.138	2.111	0.308	0.772	0.095	0.028	0.026	0.022	0.027	0.044	0.115
22	0.204	0.123	6.686	0.270	0.645	0.151	0.029	0.025	0.021	0.026	0.044	0.428
23	0.236	0.118	3.730	0.300	2.471	0.103	0.039	0.025	0.036	0.027	0.039	0.425
24	0.192	0.114	2.267	0.270	4.745	0.088	2.078	0.024	0.026	0.028	0.036	0.212
25	0.143	0.102	1.581	0.234	1.722	0.144	0.251	0.022	0.023	0.028	0.036	0.160
26	0.123	0.095	1.590	0.239	1.707	0.120	0.074	0.020	0.021	0.028	0.033	0.138
27	0.114	0.095	4.404	0.236	9.156	0.123	0.161	0.018	0.021	0.027	0.030	2.720
28	1.147	0.095	1.705	0.183	2.841	0.084	0.089	0.017	0.019	0.026	0.842E	6.526
29	5.567	0.091	1.369	0.164	1.727	0.073	0.049	0.016	0.016	0.025	0.233	1.350
30	11.490		1.033	0.177	1.299	0.062	0.040	0.017	0.016	0.024	0.090	0.908
31	4.686		1.997		0.965		0.049	0.016		0.024		0.613
MEAN	0.8565	0.5908	1.1476	0.5932	1.2092	0.2898	0.1402	0.0407	0.0274	0.0361	0.0806	0.5419
INCHES	2.086	1.346	2.795	1.398	2.945	0.683	0.341	0.099	0.065	0.088	0.190	1.320
STA AV	1.761	1.921	2.945	2.348	1.516	1.077	0.563	0.284	0.235	0.206	0.393	0.962

NOTES: To convert CFS to IN/DAY, multiply by 0.7855. STA AV based on 31-32 yr period.

COSROCTON, OHIO WATERSHED 10

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Manskingna River Basin.

AREA: 122.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSROCTON, OHIO WATERSHED 10	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.61	0.42	4.57	1.69	6.84	3.81	4.05	1.43	2.43	2.45	2.83	3.65	37.78
	Q	1.591	0.906	1.778	0.944	2.270	0.951	0.373	0.128	0.086	0.074	0.100	0.842	10.043
STA AV	P	2.82	2.48	3.52	3.44	3.72	4.06	4.21	2.84	2.56	2.20	2.54	2.38	36.76
	Q	1.165	1.345	1.896	1.530	0.926	0.689	0.351	0.159	0.119	0.147	0.235	0.627	9.189

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour Rate	1 Hour Date	2 Hours Vol.	2 Hours Date	Maximum Volume for Selected Time Interval										
						6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.	
	5-27	0.072	5-27	0.068	5-27	0.128	1-30	0.278	1-30	0.459	1-29	0.689	1-29	1.019	1-28	1.820
MAXIMUMS FOR PERIOD OF RECORD																
	6-28	1.760	6-28	0.980	6-28	1.390	6-28	1.800	6-28	1.990	6-28	2.140	6-28	2.250	3-1	2.940
	1957		1957		1957		1957		1957		1957		1957	1963		

NOTES: Watershed conditions: Cover of 21% cropland, 48% grassland, 25% woodland, 6% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 26.31-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.31-1 and 26.37-2. Precipitation data from rain gage 27. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)												COSROCTON, OHIO WATERSHED 10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.06	0.0	0.02	0.0	0.36	1.10	0.59	0.86	0.0	0.0	0.0	0.29	
2	0.0	0.16	0.0	0.0	0.0	0.09	0.0	0.0	0.09	0.39	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.25	0.10	0.0	0.0	0.08	0.57	0.06	0.10	0.0	
4	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.50	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.26	0.29	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.17	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.39	0.0	0.0	0.03	0.0	0.0	
9	0.05	0.14	0.10	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.13	0.21	0.20	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.43	1.54	0.0	0.0	0.14	0.0	0.06	0.0	0.0	
12	0.0	0.0	0.78	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.82	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.50	0.70	0.05	0.0	0.0	0.0	0.42	0.09	0.0	
16	0.0	0.0	0.31	0.0	0.25	0.30	0.31	0.0	0.0	0.0	0.43	0.0	0.0	
17	0.0	0.0	0.0	0.02	0.06	0.03	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.29	0.0	0.17	0.0	0.10	1.00	0.11	0.20	0.0	
19	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.0	
20	0.0	0.06	0.22	0.03	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.64	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.83	0.0	0.0	0.0	0.44	0.0	0.0	0.03	0.0	0.50	0.0	
23	0.05	0.0	0.09	0.12	0.86	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.39	0.08	1.82	0.0	0.04	0.0	0.06	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.03	0.44	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.42	0.14	0.54	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.33	0.0	1.06	0.0	0.07	0.0	0.0	0.0	0.0	1.00	0.0	
28	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.73	0.0	
29	0.24	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.59	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.61	0.42	4.57	1.69	6.84	3.81	4.05	1.43	2.43	2.45	2.83	3.65		
STA AV	2.82	2.48	3.52	3.44	3.72	4.06	4.21	2.84	2.56	2.20	2.54	2.38		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 27. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.086	1.037	0.042	0.563	0.036	0.319	0.452	0.052	0.047E	0.010	0.020	0.030
2	0.086	0.974	0.042	0.282	0.030	0.285	0.125	0.042	0.023E	0.011	0.010	0.030
3	0.086	0.491	0.036	0.221	0.039	0.223	0.070	0.030	0.019	0.034	0.010	0.030
4	0.086	0.303	0.030	0.401	0.048	0.190	0.048	0.030	0.014	0.014	0.010	0.109
5	0.086	0.226	0.030	0.328	0.036	0.149	0.042	0.030	0.023E	0.010	0.010	0.062
6	0.078	0.194	0.030	0.234	0.030	0.111	0.036	0.030	0.025E	0.010	0.010	0.055
7	0.070	0.161	0.030	0.212	0.030	0.086	0.030	0.030	0.019	0.010	0.010	0.055
8	0.062	0.129	0.030	0.190	0.030	0.062	0.030	0.037	0.019	0.010	0.010	0.048
9	0.055	0.111	0.030	0.169	0.030	0.055	0.030	0.042	0.019	0.010	0.010	0.042
10	0.055	0.094	0.036	0.139	0.030	0.055	0.030	0.030	0.019E	0.012	0.010	0.036
11	0.055	0.078	0.042	0.111	0.391	0.550	0.030	0.030	0.019	0.010	0.010	0.030
12	0.055	0.062	0.085	0.094	0.229	0.363	0.030	0.024	0.014	0.010	0.010	0.030
13	0.055	0.055	0.093	0.086	0.086	0.180	0.030	0.019	0.010	0.010	0.010	0.030
14	0.048	0.055	0.070	0.239	0.103	0.139	0.030	0.019	0.010	0.010	0.010	0.030
15	0.042	0.055	0.138	0.302	0.192	0.350	0.030	0.019	0.010E	0.010	0.019	0.030
16	0.042	0.055	0.331	0.144	0.364	0.342	0.030	0.019	0.010	0.010	0.047	0.030
17	0.042	0.055	0.222	0.120	0.173	0.223	0.030	0.019	0.010	0.010	0.030	0.030
18	0.042	0.048	0.152	0.111	0.242	0.180	0.030	0.019	0.010	0.040	0.019	0.030
19	0.048	0.042	0.139	0.102	0.227	0.137	0.030	0.014	0.010	0.025	0.014	0.075
20	0.055	0.042	0.163	0.094	0.257	0.111	0.030	0.010	0.010	0.010	0.010	0.078
21	0.055	0.042	0.478	0.086	0.286	0.094	0.030	0.010	0.010E	0.010	0.010	0.062
22	0.062	0.042	1.638	0.078	0.249	0.086	0.030	0.010	0.010	0.010	0.010	0.092
23	0.070	0.042	1.146	0.070	0.783	0.078	0.030	0.010	0.010	0.010	0.010	0.103
24	0.070	0.042	0.612	0.070	1.527	0.062	0.231	0.010	0.010	0.010	0.010	0.070
25	0.062	0.042	0.419	0.070	0.548	0.101	0.093	0.010	0.010	0.010	0.010	0.055
26	0.055	0.042	0.336	0.075	0.537	0.080	0.070	0.010	0.010	0.010	0.010	0.056
27	0.055	0.042	1.353	0.078	3.045	0.086	0.062	0.010	0.010E	0.010	0.010	0.500
28	0.191	0.042	0.447	0.062	0.930	0.062	0.048	0.010	0.010	0.010	0.081	1.640
29	1.500	0.042	0.300	0.055	0.489	0.055	0.042	0.010	0.010	0.010	0.044	0.412
30	3.461		0.214	0.048	0.343	0.055	0.042	0.010	0.010	0.010	0.030	0.238
31	1.338		0.401		0.294		0.036	0.010		0.0		0.195
MEAN	0.2631	0.1602	0.2940	0.1612	0.3753	0.1624	0.0616	0.0212	0.0147	0.0123	0.0172	0.1392
INCHES	1.591	0.906	1.778	0.944	2.270	0.951	0.373	0.128	0.086	0.074	0.100	0.842
STA AV	1.165	1.345	1.896	1.530	0.926	0.689	0.351	0.159	0.119	0.147	0.235	0.627

NOTES: To convert CFS to IN/DAY, multiply 0.19510. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 5

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 349.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							COSHOCTON, OHIO WATERSHED 5						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P 3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18	39.14
	Q 1.206	0.887	1.991	1.063	2.564	1.110	0.446	0.068	0.046	0.061	0.155	0.939	10.537
STA AV	P 2.82	2.43	3.51	3.42	3.79	3.98	4.22	2.89	2.63	2.15	2.63	2.42	36.88
	Q 1.384	1.469	2.251	1.775	1.170	0.782	0.431	0.195	0.117	0.176	0.314	0.728	10.791

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6-11	0.099	7-1	0.073	7-1	0.111	5-27	0.250	5-27	0.366	5-26	0.562	1-29	0.791
													5-23	1.645

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6-28	1.090	6-28	0.770	6-28	1.040	6-28	1.380	3-4	1.580	1-21	2.310	1-20	2.640
	1957		1957		1957		1957		1963		1959		1959	1959

NOTES: Watershed conditions: Cover of 20% cropland, 54% grassland, 23% woodland, 3% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 26.32-5 (Revised). For Geology description and map, see foregoing reference, pp. 26.32-1 and 26.37-2. Precipitation data from rain gage 91. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 5			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.06	0.0	0.02	0.0	0.35	1.10	0.44	0.64	0.0	0.07	0.26				
2	0.0	0.12	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.34	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.18	0.17	0.0	0.0	0.04	0.39	0.05	0.10				
4	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.54				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0				
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.23	0.31	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.19	0.0				
8	0.0	0.0	0.0	0.0	0.05	0.0	0.03	0.51	0.0	0.0	0.05	0.0				
9	0.05	0.10	0.07	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.18	0.20	0.16	0.0	0.0				
11	0.0	0.0	0.0	0.0	1.54	1.64	0.0	0.0	0.20	0.0	0.06	0.0				
12	0.0	0.0	0.95	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.18	0.0				
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.36	0.0	0.0	0.74	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
15	0.64	0.0	0.0	0.0	0.52	0.92	0.0	0.0	0.0	0.0	0.42	0.10				
16	0.0	0.0	0.30	0.0	0.23	0.27	1.16	0.0	0.0	0.0	0.48	0.0				
17	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.0	0.07	0.0				
18	0.0	0.0	0.0	0.0	0.34	0.0	0.20	0.0	0.07	1.00	0.08	0.20				
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.22	0.0	0.05	0.73				
20	0.0	0.06	0.19	0.06	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.65	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.81	0.0	0.0	0.0	0.46	0.0	0.0	0.02	0.0	0.45				
23	0.05	0.0	0.10	0.10	0.90	0.0	0.0	0.0	0.05	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.40	0.05	1.40	0.0	0.03	0.0	0.07	0.0				
25	0.0	0.0	0.0	0.0	0.0	0.47	0.08	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.44	0.17	0.45	0.25	0.0	0.0	0.0	0.0	0.0	0.0				
27	0.0	0.0	0.41	0.0	1.08	0.0	0.13	0.0	0.0	0.0	0.0	1.05				
28	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.75				
29	0.27	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.58	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18				
STA AV	2.82	2.43	3.51	3.42	3.79	3.98	4.22	2.89	2.63	2.15	2.63	2.42				

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 91. STA AV based on 29 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.173	2.764	0.066	1.629	0.108	1.034	2.135E	0.134	0.154	0.006	0.014	0.115
2	0.173	2.431	0.066	0.979E	0.099	0.824	0.492	0.055	0.150	0.006	0.027	0.135
3	0.167	1.395	0.056	0.834E	0.127	0.767	0.272	0.037	0.011	0.080	0.024	0.084
4	0.150	0.990	0.056	1.243	0.130	0.578	0.206	0.093	0.007	0.008	0.022	0.667
5	0.124	0.764	0.072	1.071	0.098	0.413	0.170	0.051	0.050	0.009	0.018	0.210
6	0.102	0.622	0.066	0.828	0.083	0.349	0.144	0.033	0.073	0.035	0.039	0.104
7	0.087	0.534	0.056	0.730	0.077	0.311	0.116	0.041	0.014	0.027	0.069	0.074
8	0.077	0.453	0.069	0.637	0.077	0.260	0.109	0.152	0.011	0.015	0.034	0.058
9	0.072	0.354	0.099	0.534	0.116	0.213	0.119	0.117	0.007	0.012	0.023	0.040
10	0.069	0.293	0.106	0.448	0.084	0.198	0.102	0.060	0.022	0.021	0.019	0.026
11	0.066	0.268	0.090	0.380	1.739	2.832E	0.087	0.035	0.029	0.020	0.017	0.022
12	0.061	0.236	0.286	0.332	0.854	1.229	0.080	0.023	0.017	0.016	0.037	0.038
13	0.080	0.213	0.238	0.302	0.431	0.579	0.078	0.020	0.009	0.012	0.030	0.056
14	0.098	0.198	0.228	0.784	0.480	0.442	0.085	0.020	0.006	0.012	0.019	0.052
15	0.090	0.185	0.401	0.956E	0.738	1.043	0.061	0.013	0.005	0.011	0.065	0.038
16	0.078	0.167	1.047	0.507E	1.349	0.968	0.191	0.015	0.004	0.008	0.361	0.031
17	0.069	0.135	0.683	0.398E	0.694	0.620	0.082	0.015	0.005	0.008	0.104	0.024
18	0.072	0.102	0.516	0.404	0.967	0.475	0.093	0.013	0.006	0.228	0.093	0.026
19	0.077	0.111	0.479	0.340	0.794	0.402	0.095	0.011	0.013	0.133E	0.058	0.340
20	0.083	0.119	0.576	0.302	0.937	0.327	0.035	0.008	0.013	0.038E	0.037	0.175
21	0.118	0.095	1.441	0.276	1.165	0.271	0.024	0.006	0.010	0.031E	0.031	0.102
22	0.126	0.077	4.019	0.244	0.925	0.242	0.160	0.005	0.009	0.025E	0.028	0.491
23	0.125	0.077	3.114	0.236	2.333	0.204	0.067	0.006	0.009	0.019	0.027	0.364
24	0.094	0.074	2.032	0.214	3.817	0.183	0.688	0.004	0.009	0.016	0.028	0.166
25	0.074	0.066	1.509	0.179	1.751	0.406	0.504	0.004	0.007	0.016	0.027	0.113
26	0.072	0.066	1.278	0.211	1.976	0.385	0.100	0.005	0.006	0.016	0.025	0.087
27	0.092	0.072	4.708	0.186	8.292	0.343	0.077	0.005	0.006	0.016	0.023	2.557
28	0.767	0.072	1.917	0.141	2.994	0.163	0.068	0.004	0.006	0.014	0.709	5.050
29	3.645	0.066	1.440	0.129	1.897	0.121	0.038	0.005	0.006	0.013	0.183	1.159
30	7.366		1.107	0.130	1.422	0.088	0.031	0.005	0.006	0.012	0.082	0.781
31	3.231		1.367		1.040		0.038	0.005		0.012		0.579
MEAN	0.5704	0.4485	0.9416	0.5196	1.2128	0.5424	0.2112	0.0323	0.0227	0.0290	0.0759	0.4441
INCHES	1.206	0.887	1.991	1.063	2.564	1.110	0.446	0.068	0.046	0.061	0.155	0.939
STA AV	1.384	1.469	2.251	1.775	1.170	0.782	0.431	0.195	0.117	0.176	0.314	0.728

NOTES: To convert CFS to IN/DAY, multiply by 0.068200. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 92

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 920.00 acres 1.44 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 92														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18	39.14														
	O	1.562	1.177	2.255	1.302	3.050	1.241	0.422	0.079	0.032	0.054	0.210	1.233	12.618														
STA AV	P	2.80	2.49	3.52	3.43	3.71	4.04	4.26	2.86	2.57	2.22	2.56	2.39	36.84														
	O	1.502	1.683	2.463	1.948	1.223	0.844	0.420	0.177	0.117	0.185	0.365	0.834	11.760														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																												
		Maximum Discharge Date	1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval				1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.													
1968		6-11	0.107	6-11	0.069	1-30	0.127	1-30	0.303	1-30	0.490	1-29	0.710	1-29	1.046	1-28	2.031											
MAXIMUMS FOR PERIOD OF RECORD																												
		6-28 1957	0.620	6-28 1957	0.520	6-28 1957	0.820	6-28 1957	1.240	3-4 1963	1.600	1-21 1959	2.410	3-4 1963	2.710	3-4 1964	3.960											

NOTES: Watershed conditions: Cover of 16% cropland, 59% grassland, 21% woodland, 4% miscellaneous improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 26.32-5 (Revised). For Geology description and map, see foregoing reference, pp. 26.33-1 and 26.37-2. Precipitation data from rain gage 91. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 92													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.06	0.0	0.02	0.0	0.35	1.10	0.44	0.64	0.0	0.07	0.26															
2	0.0	0.12	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.34	0.0	0.0															
3	0.0	0.0	0.0	0.0	0.18	0.17	0.0	0.0	0.04	0.39	0.05	0.10															
4	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.54															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0															
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.23	0.31	0.0															
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.19	0.0															
8	0.0	0.0	0.0	0.0	0.05	0.0	0.03	0.51	0.0	0.0	0.05	0.0															
9	0.05	0.10	0.07	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.18	0.20	0.16	0.0	0.0															
11	0.0	0.0	0.0	0.0	1.54	1.64	0.0	0.0	0.20	0.0	0.06	0.0															
12	0.0	0.0	0.95	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.18	0.0															
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
14	0.36	0.0	0.0	0.74	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
15	0.64	0.0	0.0	0.0	0.52	0.92	0.0	0.0	0.0	0.0	0.42	0.10															
16	0.0	0.0	0.30	0.0	0.23	0.27	1.16	0.0	0.0	0.0	0.48	0.0															
17	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.0	0.07	0.0															
18	0.0	0.0	0.0	0.0	0.34	0.0	0.20	0.0	0.07	1.00	0.08	0.20															
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.22	0.0	0.05	0.73															
20	0.0	0.06	0.19	0.06	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.65	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.81	0.0	0.0	0.0	0.46	0.0	0.0	0.02	0.0	0.45															
23	0.05	0.0	0.10	0.10	0.90	0.0	0.0	0.0	0.05	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.40	0.05	1.40	0.0	0.03	0.0	0.07	0.0															
25	0.0	0.0	0.0	0.0	0.0	0.47	0.08	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.44	0.17	0.45	0.25	0.0	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.41	0.0	1.08	0.0	0.13	0.0	0.0	0.0	0.0	1.05															
28	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.75															
29	0.27	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.58	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL		3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18														
STA AV		2.80	2.49	3.52	3.43	3.71	4.04	4.26	2.86	2.57	2.22	2.56	2.39														

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 91. STA AV based on 30 yr period.

1968	MEAN DAILY DISCHARGE (cfs)											COSHOCTON, OHIO WATERSHED 92	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.601	9.852	0.257	5.682	0.405	2.999	4.386	0.362	0.148	0.0	0.025	0.616	
2	0.572	8.417	0.243	3.309	0.362	2.789	1.328	0.215	0.309	0.0	0.051	0.969	
3	0.549	4.778	0.197	2.815	0.423	2.462	0.708	0.143	0.032	0.167	0.044	0.707	
4	0.433	3.232	0.190	3.993	0.404	1.830	0.528	0.232	0.019	0.018	0.048	2.723	
5	0.312	2.448	0.253	3.538	0.352	1.519	0.427	0.165	0.101	0.010	0.038	1.375	
6	0.322	2.012	0.292E	2.635	0.292	1.293	0.384	0.114	0.169	0.031	0.070	1.017	
7	0.307	1.729	0.292E	2.285	0.257	1.144	0.294	0.121	0.034	0.062	0.205	0.883	
8	0.229	1.630	0.302	1.935	0.245	0.993	0.266	0.252	0.020	0.025	0.116	0.757	
9	0.236	1.330	0.398	1.665	0.357	0.829	0.243	0.445	0.019	0.021	0.075	0.570	
10	0.264	1.100	0.439	1.488	0.281	0.748	0.209	0.211	0.047	0.039	0.094	0.334	
11	0.243	1.003	0.363	1.335	4.777	6.290	0.168	0.134	0.067	0.029	0.124	0.197	
12	0.202	0.860	0.801	1.175	2.829	3.309	0.156	0.090	0.042	0.022	0.104	0.204	
13	0.216	0.757	0.797	1.050	1.417	1.518	0.139	0.079	0.023	0.021	0.092	0.277	
14	0.267	0.720	0.730	2.063	1.432	1.235	0.133	0.073	0.017	0.020	0.061	0.238	
15	0.267	0.702	1.222	2.600	2.134	2.629	0.124	0.054	0.013	0.020	0.101	0.159	
16	0.236	0.648	3.209	1.554	4.121	3.036	0.648	0.052	0.011	0.016	1.217	0.142	
17	0.229	0.523	2.268	1.339	2.165	2.008	0.267	0.052	0.010	0.013	0.443	0.124	
18	0.250	0.405	1.780	1.225	2.777	1.586	0.174	0.048	0.009	0.495	0.319	0.134	
19	0.282	0.383E	1.595	1.075	2.493	1.306	0.281	0.053	0.029	0.627	0.198	0.857	
20	0.302	0.352	1.792	1.000	2.800	1.073	0.107	0.044	0.029	0.075	0.135	0.694	
21	0.398	0.332	4.296	0.906	3.424	0.906	0.082	0.022	0.015	0.046	0.105	0.422	
22	0.439	0.322E	11.726	0.776	2.936	0.799	0.346	0.020	0.007	0.037	0.093	1.253	
23	0.456	0.302	9.280	0.757	7.365	0.671	0.191	0.014	0.017	0.037	0.082	1.426	
24	0.385	0.292E	6.343	0.721	12.809	0.592	1.787	0.012	0.025	0.034	0.094	0.810	
25	0.292	0.282E	4.760	0.648	6.120	0.992	1.523	0.008	0.015	0.031	0.080	0.575	
26	0.272	0.272E	3.948	0.672	5.662	0.866E	0.420	0.005	0.006	0.031	0.068	0.473	
27	0.312	0.272	12.669	0.672	25.776	1.225E	0.301	0.008	0.003	0.031	0.065	6.042	
28	1.934	0.264	5.302	0.502	9.866	0.556	0.272	0.006	0.001	0.031	2.022	14.957	
29	10.790	0.257	4.051	0.450	6.045	0.439	0.166	0.002	0.001	0.029	1.256	4.170	
30	27.353E		3.056	0.477	4.428	0.328	0.131	0.001	0.001	0.026	0.690	2.577	
31	11.441		4.325		3.121		0.128	0.001		0.025		1.990	
MEAN	1.9482	1.5682	2.8121	1.6781	3.8025	1.5990	0.5263	0.0981	0.0414	0.0668	0.2706	1.5380	
INCRS	1.562	1.177	2.255	1.302	3.050	1.241	0.422	0.079	0.032	0.054	0.210	1.233	
STA AV	1.502	1.683	2.463	1.948	1.223	0.844	0.420	0.177	0.117	0.185	0.365	0.834	

NOTES: To convert CPS to IN/DAY, multiply 0.025871. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 94

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 1520.00 acres 2.37 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 94													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	3.59	0.38	4.60	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91	38.46													
	O	1.513	1.197	2.230	1.380	3.053	1.224	0.486	0.121	0.053	0.067	0.180	1.138	12.642													
STA AV	P	2.80	2.49	3.52	3.43	3.71	4.03	4.26	2.86	2.57	2.21	2.55	2.38	36.81													
	O	1.510	1.664	2.481	1.941	1.242	0.891	0.451	0.207	0.137	0.196	0.344	0.802	11.867													

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date						
1968	6-11	0.073	5-27	0.066	5-27	0.125	5-27	0.285	1-30	0.434	1-29	0.645	1-29	0.972	5-23	1.943

MAXIMUMS FOR PERIOD OF RECORD																
	6-28	0.920	6-28	0.770	6-28	1.220	6-28	1.790	3-4	2.140	1-21	2.950	1-20	3.270	3-4	3.950
	1957		1957		1957		1957		1963		1959		1959		1963	

NOTES: Watershed conditions: Cover of 15% cropland, 57% grassland, 24% woodland, 4% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSOA Misc. Pub. 945, p. 26.34-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, OSOA Misc. Pub. 1070, pp. 26.34-1 and 26.37-2. Precipitation data from rain gauges 27 and 91. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 94													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.06	0.0	0.02	0.0	0.36	1.10	0.51	0.75	0.0	0.03	0.27															
2	0.0	0.14	0.0	0.0	0.0	0.07	0.0	0.0	0.10	0.36	0.0	0.0															
3	0.0	0.0	0.0	0.0	0.21	0.13	0.0	0.0	0.06	0.48	0.05	0.10															
4	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.52															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0															
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.25	0.30	0.0															
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.18	0.0															
8	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.45	0.0	0.0	0.04	0.0															
9	0.05	0.12	0.08	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.15	0.20	0.18	0.0	0.0															
11	0.0	0.0	0.0	0.0	1.48	1.59	0.0	0.0	0.17	0.0	0.06	0.0															
12	0.0	0.0	0.86	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.16	0.0															
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
14	0.16	0.0	0.0	0.78	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
15	0.64	0.0	0.0	0.0	0.51	0.81	0.02	0.0	0.0	0.0	0.42	0.09															
16	0.0	0.0	0.30	0.0	0.24	0.28	0.73	0.0	0.0	0.0	0.45	0.0															
17	0.0	0.0	0.0	0.01	0.06	0.03	0.0	0.0	0.0	0.0	0.06	0.0															
18	0.0	0.0	0.0	0.0	0.31	0.0	0.18	0.0	0.08	1.50	0.09	0.20															
19	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.18	0.0	0.02	0.49															
20	0.0	0.06	0.20	0.04	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.64	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.82	0.0	0.0	0.0	0.45	0.0	0.0	0.02	0.0	0.47															
23	0.05	0.0	0.09	0.11	0.88	0.0	0.0	0.0	0.11	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.39	0.06	1.61	0.0	0.04	0.0	0.06	0.0															
25	0.0	0.0	0.0	0.0	0.02	0.45	0.06	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.43	0.15	0.49	0.21	0.0	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.37	0.0	1.07	0.0	0.10	0.0	0.0	0.0	0.0	1.02															
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.74															
29	0.25	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.58	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL	3.59	0.38	4.60	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91															
STA AV	2.80	2.49	3.52	3.43	3.71	4.03	4.26	2.86	2.57	2.21	2.55	2.38															

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gauges 27 and 91. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 94												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.955E	15.397	0.501	10.141	0.844	5.433	6.056	0.845	0.215	0.026	0.083	0.642
2	0.955E	13.786	0.476	5.822	0.760	4.931	2.085	0.502	0.576	0.042	0.104	0.869
3	0.955	8.115	0.404	4.829	0.875	4.088	1.262	0.366	0.115	0.410	0.108	0.659
4	0.795E	5.516	0.393	6.879	0.856	3.024	0.977	0.516	0.090	0.098	0.119	3.168
5	0.575E	4.257	0.507	6.277	0.724	2.431	0.834	0.425	0.241	0.065	0.104	1.577
6	0.592E	3.595E	0.557E	4.710	0.635	2.060	0.730	0.335	0.344	0.086	0.137	1.008
7	0.564E	3.180E	0.476	4.040	0.571	1.803	0.622	0.318	0.126	0.165	0.359	0.804
8	0.448E	2.830E	0.518	3.385	0.564	1.544	0.571	0.413	0.093	0.094	0.241	0.656
9	0.476E	2.265E	0.733	2.780	0.729	1.328	0.559	0.942E	0.084	0.080	0.166	0.529
10	0.543	1.840E	0.786	2.505	0.612	1.198	0.476	0.485	0.135	0.117	0.144	0.429E
11	0.493	1.680E	0.670	2.200	7.307	8.615	0.421	0.358	0.186	0.106	0.135	0.366E
12	0.445	1.495E	1.370	1.920	5.060	5.696	0.378	0.257	0.140	0.083	0.198	0.454
13	0.465	1.300E	1.402	1.760	2.251	2.489	0.346	0.227	0.095	0.077	0.198	0.557
14	0.557	1.130	1.360	3.242	2.391	1.940	0.336	0.213	0.078	0.071	0.150	0.485
15	0.571	1.050	1.878	4.717	3.532	3.848	0.319	0.175	0.062	0.065	0.216	0.371
16	0.529	1.025	5.005	2.697	7.014	5.579	1.438	0.169	0.057	0.063	1.327	0.323
17	0.515	0.853	3.705	2.349	3.937E	3.477	0.740	0.156	0.057	0.057	0.637	0.243
18	0.515	0.706	2.729	2.150	4.821	2.676	0.420	0.134	0.065	0.361	0.538	0.290
19	0.543	0.688E	2.435	1.880	4.295	2.174	0.507	0.124	0.089	0.885	0.393	1.648
20	0.585	0.652	2.808	1.760	4.741	1.749	0.301	0.105	0.095	0.189	0.299	1.179
21	0.733	0.617	6.930	1.610	5.755	1.455	0.242	0.093	0.063	0.135	0.237	0.809
22	0.804	0.585E	19.219	1.395	4.947	1.294	0.581	0.085	0.047	0.117	0.210	1.923
23	0.865	0.603E	15.433	1.430	11.700	1.122	0.464	0.075	0.064	0.112	0.187	2.187
24	0.781	0.617E	10.301	1.370	20.989	1.608	4.429	0.064	0.071	0.108	0.204	1.255
25	0.620	0.571E	7.820	1.180	10.523	1.683	2.551	0.054	0.052	0.104	0.179	0.958
26	0.571	0.543E	6.260	1.150	9.525	1.363	0.911	0.047	0.042	0.096	0.166	0.866
27	0.603	0.529E	19.716	1.162	40.557	1.666	0.693	0.049	0.035	0.092	0.162	9.066
28	3.109	0.515	8.864	0.955	16.162	0.997	0.631	0.051	0.032	0.092	2.484	25.696
29	17.519	0.501	6.660	0.888	9.892	0.814	0.440	0.047	0.031	0.092	1.347	6.691
30	41.058		5.191	0.919	7.070	0.664	0.381	0.046	0.029	0.087	0.674	4.230
31	17.901		7.301		5.350		0.367	0.060		0.083		2.710
MEAN	3.1165	2.6360	4.5938	2.9367	6.2899	2.6049	1.0022	0.2496	0.1138	0.1374	0.3836	2.3436
INCHES	1.513	1.197	2.230	1.380	3.053	1.224	0.486	0.121	0.053	0.067	0.180	1.138
STA AV	1.510	1.664	2.481	1.941	1.242	0.891	0.451	0.207	0.137	0.196	0.344	0.802

NOTES: To convert CFS to IN/DAY, multiply by 0.015659. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 95

LOCATION: Coshocton Co., Ohio; 1D mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 2570.00 acres 4.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 95																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.59	0.38	4.6D	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91	38.46																
	O	1.672	1.167	2.262	1.286	2.857	1.014	0.425	0.100	0.039	0.056	0.183	1.145	12.205																
STA AV	P	2.82	2.49	3.52	3.44	3.72	4.07	4.21	2.84	2.55	2.20	2.55	2.38	36.8D																
	O	1.486	1.653	2.492	1.957	1.217	0.836	D.420	0.187	0.127	D.186	0.344	0.802	11.707																

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	1-30	0.071	1-30	0.668	1-30	0.130	1-3D	D.299	1-3D	0.479	1-29	0.793	1-29	1.139	1-28	2.101

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
6-28	0.610	6-28	0.560	6-28	D.950	3- 4	1.580	3- 4	2.320	3- 4	2.780	3- 4	3.490	3- 2	4.240
1957	1957	1957	1957	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963

NOTES: Watershed conditions: Cover of 15% cropland, 55% grassland, 26% woodland, 4% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.34-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1D7D, pp. 26.15-1 and 26.37-2. Precipitation data from rain gauges 27 and 91. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY AIR TEMPERATURE (degrees F)														COSHOCTON, OHIO WATERSHED 95													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	14	-2	55	37	30	19	44	34	63	42	67	52	88	64	76	65	68	58	80	52	75	47	43	25			
2	22	4	52	26	33	13	58	30	69	38	75	59	75	60	80	61	73	56	77	59	64	53	46	40			
3	29	22	31	26	28	6	59	46	75	48	71	56	65	51	79	61	82	54	64	43	53	42	43	39			
4	22	2	39	22	5D	18	64	43	60	42	77	53	72	48	76	67	82	62	50	35	58	29	42	31			
5	18	-3	40	26	53	26	43	28	49	36	80	57	77	52	80	65	69	63	56	32	59	43	34	23			
6	24	14	44	24	38	27	51	25	55	34	85	59	74	58	88	72	72	55	50	38	50	46	30	20			
7	14	-6	45	27	45	18	68	35	64	34	84	64	78	54	82	69	74	50	53	47	47	41	25	16			
8	9	-8	33	21	56	26	67	58	74	48	87	68	83	58	82	68	77	54	63	44	41	34	24	17			
9	24	9	28	5	57	44	60	47	64	59	87	64	84	62	84	68	71	59	72	43	34	28	25	13			
10	24	16	12	-1	47	36	62	41	64	52	88	66	80	65	76	58	68	55	64	47	39	26	20	9			
11	22	1D	15	1	40	28	57	35	65	51	86	64	85	61	70	54	58	53	62	41	39	32	36	8			
12	28	10	16	9	31	14	71	39	62	54	87	54	85	65	73	50	67	48	72	52	34	31	50	33			
13	30	24	15	5	23	14	76	50	68	50	62	48	87	66	74	57	76	48	75	50	38	25	54	30			
14	32	24	30	8	34	11	72	48	62	54	75	45	82	69	84	66	79	56	77	47	41	24	30	19			
15	31	16	27	15	51	31	49	32	79	59	82	61	80	66	82	62	79	57	76	54	52	41	22	12			
16	19	9	37	13	49	38	62	27	7D	54	66	54	80	66	85	70	83	57	76	55	52	41	29	4			
17	30	14	34	9	55	30	67	44	67	46	65	52	83	66	84	68	69	60	80	63	49	45	33	18			
18	40	22	26	8	59	35	67	53	58	45	72	49	87	68	84	65	76	58	68	58	40	31	34	23			
19	35	27	32	8	70	38	69	54	54	41	76	56	78	63	87	68	64	57	63	47	32	24	49	33			
20	38	24	16	3	60	42	65	51	57	39	67	49	77	59	89	73	78	58	62	42	27	24	40	28			
21	37	30	10	-3	5D	33	68	54	56	44	77	45	82	59	9D	72	84	62	61	38	41	23	30	28			
22	35	30	21	2	33	31	72	51	64	43	80	64	88	66	89	73	84	62	68	41	5D	33	47	28			
23	35	13	32	8	31	23	70	50	55	48	81	6D	84	62	91	74	78	65	55	37	59	31	45	18			
24	18	8	28	11	37	24	51	34	57	53	88	70	83	68	91	73	82	61	52	40	55	34	18	14			
25	24	3	28	9	54	32	42	34	71	49	77	69	75	67	78	61	70	52	45	36	43	30	16	6			
26	34	10	38	12	63	40	62	34	64	56	72	63	82	62	62	53	69	44	45	31	52	29	24	10			
27	42	28	35	24	73	47	57	39	56	46	67	54	80	64	69	50	70	49	60	36	50	39	49	24			
28	42	38	34	26	70	50	60	39	66	46	68	52	74	60	71	49	67	5D	41	35	61	42	54	26			
29	47	41	28	20	74	50	65	43	63	48	83	70	72	54	75	50	68	46	41	33	46	33	26	23			
3D	46	33			66	40	58	46	62	52	89	68	76	54	78	51	71	47	49	31	41	27	31	19			
31	44	33			72	40			68	48			80	66	78	55			60	3D				37	3		
AV.	29	16	30	13	49	29	61	41	63	47	77	58	79	61	80	62	73	55	61	43	47	34	35	20			
MEAN	22.7		22.2		39.7		51.4		55.2		67.8		70.7		71.6		64.4		52.5		40.9		27.9				
STA AV	33	19	36	20	47	28	58	42	68	49	79	58	81	62	82	61	75	54	67	44	51	33	38	22			

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV is for 30 yr (1939-68) record period.

1968 DAILY PRECIPITATION (inches)												
COSHOCTON, OHIO						WATERSHED 95						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.06	0.0	0.02	0.0	0.36	1.10	0.51	0.75	0.0	0.03	0.27
2	0.0	0.14	0.0	0.0	0.0	0.07	0.0	0.0	0.10	0.36	0.0	0.0
3	0.0	0.0	0.0	0.0	0.21	0.13	0.0	0.0	0.06	0.48	0.05	0.10
4	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.52
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.25	0.30	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.18	0.0
8	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.45	0.0	0.0	0.04	0.0
9	0.05	0.12	0.08	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.15	0.20	0.18	0.0	0.0
11	0.0	0.0	0.0	0.0	1.48	1.59	0.0	0.0	0.17	0.0	0.06	0.0
12	0.0	0.0	0.86	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.16	0.0
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.36	0.0	0.0	0.78	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.64	0.0	0.0	0.0	0.51	0.81	0.02	0.0	0.0	0.0	0.42	0.09
16	0.0	0.0	0.30	0.0	0.24	0.28	0.73	0.0	0.0	0.0	0.45	0.0
17	0.0	0.0	0.0	0.01	0.06	0.03	0.0	0.0	0.0	0.0	0.06	0.0
18	0.0	0.0	0.0	0.0	0.31	0.0	0.18	0.0	0.08	1.00	0.09	0.20
19	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.18	0.0	0.02	0.49
20	0.0	0.06	0.20	0.04	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.64	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.82	0.0	0.0	0.0	0.45	0.0	0.0	0.02	0.0	0.47
23	0.05	0.0	0.09	0.11	0.88	0.0	0.0	0.0	0.11	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.39	0.06	1.61	0.0	0.04	0.0	0.06	0.0
25	0.0	0.0	0.0	0.0	0.02	0.45	0.06	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.43	0.15	0.49	0.21	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.37	0.0	1.07	0.0	0.10	0.0	0.0	0.0	0.0	1.02
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.74
29	0.25	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.58	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.59	0.38	4.60	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91
STA AV	2.82	2.49	3.52	3.44	3.72	4.07	4.21	2.84	2.55	2.20	2.55	2.38

NOTES: Precipitation amounts are for rain gauges 27 and 91. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs)												
COSHOCTON, OHIO						WATERSHED 95						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.600	25.874	0.770	15.861	1.210	7.678	8.768	1.246	0.299	0.014	0.100	0.965E
2	1.565E	23.631	0.736	9.439	1.095	7.290	3.060	0.694	0.841	0.019	0.128	1.385E
3	1.465	13.142	0.667	7.775	1.298	5.972	1.737	0.506	0.152	0.694	0.148	1.007E
4	1.107	8.777	0.667	10.829E	1.257	4.375	1.322	1.042	0.091	0.149	0.159	5.334
5	0.836	6.653	0.824	9.640	1.070	3.411	1.127	0.743	0.335	0.078	0.141	2.434
6	0.979	5.612	0.858E	7.195	0.924	2.814	0.969	0.469	0.507	0.122	0.186	1.360
7	0.935	5.052E	0.736E	6.085	0.836	2.551	0.817	0.451	0.155	0.273	0.490	1.015
8	0.753E	4.170E	0.846	5.105	0.817	2.209	0.733	0.518	0.099	0.129	0.380	0.880
9	0.753E	3.290E	1.225	4.255	1.013	1.861	0.721	1.272	0.078	0.089	0.258	0.701
10	0.814	2.610E	1.335	3.794	0.886	1.650	0.627	0.682	0.170	0.152	0.212	0.565
11	0.814	2.400E	1.125	3.450	10.750	11.336	0.561	0.521	0.260	0.119	0.182	0.523
12	0.770	2.250E	2.281	2.999	7.998	8.172	0.503	0.366	0.181	0.089	0.291	0.642
13	0.814	2.105E	3.247	2.738	3.631	3.387	0.467	0.321	0.097	0.080	0.295	0.797
14	0.924	1.930	3.025	5.192E	2.125	2.610	0.454	0.303	0.074	0.074	0.235	0.690
15	0.924	1.765	3.682	8.065	5.313	4.755	0.438	0.238	0.059	0.066	0.323	0.523
16	0.836	1.680	10.069	4.420	11.103	8.038	1.570	0.229	0.047	0.058	2.078	0.498
17	0.792	1.360	7.812	3.865	6.035	4.820	0.826	0.214	0.037	0.056	1.014	0.451
18	0.792	1.015	5.561	3.390	7.185	3.653	0.537	0.162	0.040	0.575	0.843	0.501
19	0.858	1.160	4.748	2.945	6.341	3.087	0.684	0.151	0.098	1.394	0.616	2.067
20	0.903	1.430	5.083	2.830	7.312	2.561	0.382	0.115	0.119	0.310	0.467	1.962
21	1.151	1.530E	12.049	2.615	8.852	2.169	0.311	0.088	0.064	0.184	0.394	1.275
22	1.330	1.465E	35.063	2.250	7.888	1.950	0.724	0.091	0.045	0.158	0.341	3.050E
23	1.260	1.330E	28.437	2.250	18.436	1.699	0.623	0.074	0.074	0.157	0.313	4.312E
24	1.291	1.205E	16.762	2.125	35.247	1.516	9.761	0.059	0.079	0.141	0.340	2.336
25	1.041	1.095E	12.512	1.805	16.425	2.365	3.553	0.043	0.055	0.141	0.306	1.580
26	0.852	0.993E	9.834	1.796	13.598	2.017	1.268	0.028	0.043	0.131	0.276	1.400
27	0.924	0.902E	32.598	1.965	68.843	2.231	0.940	0.033	0.031	0.126	0.251	15.604
28	5.784	0.836E	14.023	1.465	26.131	1.339	0.837	0.027	0.022	0.126	4.472	45.552
29	43.089	0.792	10.177	1.365	14.969	1.090	0.606	0.024	0.016	0.116	3.191	11.687
30	74.942	0.770	1.372	10.579	0.875	0.503	0.020	0.015	0.105	1.287E	7.225	7.225
31	29.690	9.700	0.0	7.919	0.0	0.492	0.016	0.0	0.089	0.0	5.257	5.257
MEAN	5.8254	4.3467	7.8780	4.6293	9.9506	3.6493	1.4814	0.3468	0.1396	0.1941	0.6574	3.9866
INCHES	1.672	1.167	2.262	1.286	2.857	1.014	0.425	0.100	0.039	0.056	0.183	1.145
STA AV	1.486	1.653	2.492	1.957	1.217	0.836	0.420	0.187	0.127	0.186	0.344	0.802

NOTES: To convert CFS to IN/DAY, multiply by 0.0092613. STA AV based on 30 yr period.

COSHOCKTON, OHIO WATERSHED 97

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walbonding River, Muskingum River Basin.

AREA: 4580.00 acres 7.16 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCKTON, OHIO WATERSHED 97															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.61	0.38	4.55	1.71	6.62	3.45	3.94	1.40	2.35	2.23	2.81	3.60	36.68															
	O	1.681	1.056	2.150	1.159	2.647	0.787	0.321	0.073	0.031	0.046	0.140	1.099	11.190															
STA AV	P	2.99	2.42	3.52	3.46	3.76	4.16	4.23	2.80	2.51	2.19	2.49	2.36	36.90															
	O	1.738	1.622	2.460	2.003	1.226	0.916	0.465	0.206	0.127	0.166	0.334	0.829	12.091															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1-30	0.075	1-30	0.074	1-30	0.144	1-30	0.326	1-30	0.513	1-29	0.806	1-29	1.175	1-28	2.104												
MAXIMUMS FOR PERIOD OF RECORD																													
		6-28	0.720	6-28	0.660	6-28	1.150	1-24	1.890	1-21	2.320	1-21	3.240	1-20	3.540	1-18	6.770												
		1957		1957		1957		1937		1959		1959		1959		1937													

NOTES: Watershed conditions: Cover of 18% cropland, 50% grassland, 28% woodland, 4% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, DSOA Misc. Pub. 945, p. 26.34-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.36-1 and 26.37-2. Precipitation data from rain gauges 27, 54, 56 and 91. Precipitation and runoff records began Jan. 1937. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCKTON, OHIO WATERSHED 97												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.04	0.0	0.02	0.0	0.35	1.09	0.50	0.79	0.0	0.02	0.25	1	0.0	0.04	0.0	0.02	0.0	0.35	1.09	0.50	0.79	0.0	0.02	0.25
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.37	0.0	0.0	2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.11	0.37	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.22	0.11	0.0	0.0	0.07	0.45	0.05	0.09	3	0.0	0.0	0.0	0.0	0.22	0.11	0.0	0.07	0.45	0.05	0.09	
4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.52	4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.22	0.0	0.0	0.52	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.25	0.26	0.0	6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.25	0.26	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.17	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.17	0.0	
8	0.0	0.0	0.0	0.0	0.02	0.0	0.05	0.39	0.0	0.0	0.04	0.0	8	0.0	0.0	0.0	0.0	0.02	0.0	0.05	0.39	0.0	0.0	0.04	
9	0.04	0.11	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.04	0.11	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.13	0.20	0.18	0.0	0.0	10	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.13	0.20	0.18	0.0	
11	0.0	0.0	0.0	0.0	1.42	1.24	0.0	0.0	0.13	0.0	0.06	0.0	11	0.0	0.0	0.0	0.0	1.42	1.24	0.0	0.0	0.13	0.0	0.06	
12	0.0	0.02	0.91	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.15	0.0	12	0.0	0.02	0.91	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.15	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.79	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.36	0.0	0.0	0.79	0.25	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.55	0.62	0.01	0.0	0.0	0.0	0.41	0.09	15	0.64	0.0	0.0	0.0	0.55	0.62	0.01	0.0	0.0	0.0	0.41	
16	0.0	0.0	0.28	0.0	0.22	0.28	0.37	0.0	0.0	0.0	0.43	0.0	16	0.0	0.0	0.28	0.0	0.22	0.28	0.37	0.0	0.0	0.43	0.0	
17	0.0	0.0	0.0	0.02	0.07	0.04	0.04	0.0	0.0	0.0	0.06	0.0	17	0.0	0.0	0.0	0.02	0.07	0.04	0.04	0.0	0.0	0.06	0.0	
18	0.0	0.0	0.0	0.0	0.23	0.0	0.17	0.0	0.09	0.96	0.10	0.17	18	0.0	0.0	0.0	0.0	0.23	0.0	0.17	0.0	0.09	0.96	0.10	
19	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.14	0.0	0.03	0.76	19	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.14	0.0	0.03	
20	0.0	0.07	0.21	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.07	0.21	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.65	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.65	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.84	0.0	0.0	0.11	0.26	0.0	0.0	0.02	0.0	0.45	22	0.0	0.0	0.84	0.0	0.0	0.11	0.26	0.0	0.0	0.02	0.45	
23	0.05	0.0	0.08	0.11	0.87	0.0	0.0	0.0	0.19	0.0	0.0	0.0	23	0.05	0.0	0.08	0.11	0.87	0.0	0.0	0.0	0.19	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.39	0.03	1.76	0.0	0.02	0.0	0.06	0.0	24	0.0	0.0	0.0	0.0	0.39	0.03	1.76	0.0	0.02	0.0	0.06	
25	0.0	0.0	0.0	0.0	0.01	0.41	0.03	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.01	0.41	0.03	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.42	0.15	0.46	0.20	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.42	0.15	0.46	0.20	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.30	0.0	1.04	0.0	0.15	0.0	0.0	0.0	0.0	0.98	27	0.0	0.0	0.30	0.0	1.04	0.0	0.15	0.0	0.0	0.0	0.98	
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.69	28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	
29	0.25	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.25	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.59	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.59	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.61	0.38	4.55	1.71	6.62	3.45	3.94	1.40	2.35	2.23	2.81	3.60	TOTAL	3.61	0.38	4.55	1.71	6.62	3.45	3.94	1.40	2.35	2.23	2.81	3.60
STA AV	2.99	2.42	3.52	3.46	3.76	4.16	4.23	2.80	2.51	2.19	2.49	2.36	STA AV	2.99	2.42	3.52	3.46	3.76	4.16	4.23	2.80	2.51	2.19	2.49	2.36

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gauges 27, 54, 56 and 91. STA AV based on 32 yr period.

1968	MEAN DAILY DISCHARGE (cfs)											
	COSHOCTON, OHIO WATERSHED 97											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.80	44.73	1.28	30.93	2.04	11.79	11.33	1.63	0.13	0.03	0.16	1.62
2	2.69	42.73	1.22	15.91	1.83	11.24	4.79	1.03	1.35	0.04	0.16	2.31
3	2.49	22.75	1.07	11.99	2.09	8.73	2.55	0.70	0.28	0.94	0.20	1.73
4	1.97	13.54	1.14	16.73	2.21	6.74	1.86	1.02	0.14	0.30	0.22	7.98
5	1.51	9.89E	1.48	14.38	1.73	5.59	1.54	0.90	0.39	0.12	0.21	4.29
6	1.58	8.18E	1.61E	10.35	1.55	4.76	1.32	0.68	0.74	0.13	0.24	2.45
7	1.48	7.65E	1.54E	8.87	1.40	4.21	1.12	0.65	0.26	0.41	0.64	1.76
8	1.16	6.55E	1.54E	7.78	1.37	3.63	1.04	0.72	0.14	0.23	0.56	1.58
9	1.22	5.48E	2.02	6.46	1.69	3.10	1.01	1.60	0.10	0.15	0.36	1.27
10	1.40	4.37E	2.30	5.87	1.50	2.75	0.87	0.93	0.20	0.20	0.30	1.02
11	1.31	3.64E	1.90	5.38	17.17	12.79	0.79	0.75	0.37	0.22	0.27	0.82
12	1.21	3.38E	3.50	4.70	14.38E	10.72	0.70	0.50	0.26	0.15	0.38	1.17
13	1.24	3.02E	4.52	4.28	5.63E	4.68	0.66	0.42	0.15	0.12	0.44	1.48
14	1.01	2.91	4.67	7.55	5.41E	3.73	0.63	0.41	0.11	0.11	0.32	1.28
15	1.51	2.86	5.40	14.15	7.94E	4.10	0.61	0.32	0.08	0.10	0.41	0.95
16	1.40	2.69	17.07	7.07	18.16	11.69	1.52	0.29	0.07	0.09	3.14	0.90
17	1.34	2.23	12.33	5.91	9.08	6.24	1.14	0.29	0.06	0.08	1.71	0.81
18	1.34	1.76	8.60	5.44	10.32	4.90	0.68	0.22	0.06	0.54	1.41	0.86
19	1.37	1.65E	7.28	4.66	8.99	3.90	0.82	0.19	0.09	2.16	1.05	3.19
20	1.44	1.51E	7.88	4.43	9.63	2.99	0.47	0.15	0.17	0.50	0.74	3.42
21	1.84	1.44	20.88	4.14	12.02	2.68	0.38	0.12	0.10	0.31	0.56	2.34
22	2.07	1.34	64.98	3.51	10.51	2.61	0.58	0.11	0.07	0.25	0.53	4.65
23	2.38	1.34	51.88	3.43	27.60	2.22	0.85	0.09	0.13	0.24	0.49	6.95
24	2.02	1.27	28.27	3.40	59.97	1.93	12.21	0.07	0.13	0.22	0.52	3.61
25	1.55	1.15	19.95	2.97	27.01	2.94	5.54	0.06	0.09	0.21	0.50	2.72
26	1.30	1.15	15.23	2.92	21.81	2.88	1.92	0.05	0.07	0.21	0.42	2.35
27	1.44	1.24	53.37	3.01	125.69	3.13	1.31	0.05	0.05	0.19	0.40	24.12
28	9.85	1.37	23.86	2.38	46.39	1.88	1.26	0.04	0.04	0.18	4.91	85.95
29	75.38E	1.34	16.59	2.22	25.31	1.56	0.85	0.04	0.04	0.18	3.92	19.61
30	142.01E		12.03	2.27	16.85	1.27	0.70	0.04	0.03	0.17	1.74	10.66
31	51.82		18.26		11.98		0.66	0.03		0.16		7.70
MEAN	10.436	7.006	13.343	7.436	16.428	5.045	1.991	0.455	0.197	0.288	0.897	6.824
INCHES	1.681	1.056	2.150	1.159	2.647	0.787	0.321	0.073	0.031	0.046	0.140	1.099
STA AV	1.738	1.622	2.460	2.003	1.226	0.916	0.465	0.206	0.127	0.166	0.334	0.829

NOTES: To convert CFS to IN/DAY, multiply by 0.0051969. STA AV based on 32 yr period.

COSHOCTON, OHIO WATERSHED 174

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin.

AREA: 52.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 174	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	34.31
	O	1.836	0.815	2.108	0.663	2.019	0.268	0.182	0.009	0.001	0.029	0.095	1.001	9.026
STA AV	P	2.34	2.27	3.98	3.41	3.22	2.73	3.49	2.72	2.45	1.68	2.54	2.26	33.09
	O	0.746	1.143	2.635	1.509	0.725	0.305	0.109	0.090	0.053	0.074	0.153	0.396	7.938

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval									
							6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1968	7-24	0.132	5-27	0.093	5-27	0.166	1-30	0.370	1-30	0.603	1-29	0.922	1-29	1.328	1-28	2.328
MAXIMUMS FOR PERIOD OF RECORD																
	4-25	1.030	4-25	0.820	4-25	1.110	4-25	1.330	3- 4	1.610	3- 9	1.990	3- 9	2.540	3- 4	3.710
	1961		1961		1961		1961		1963		1964		1964		1964	

NOTES: Watershed conditions: Cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, prevailing practice on 86% of the area. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, OSDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, OSDA Misc. Pub. 1070, pp. 26.38-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 174	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	STA AV	
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.0	0.23		
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.0	0.11		
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.48		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0	0.0		
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0	0.0		
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.38	0.0	0.12		
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0	0.0		
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.0	0.16		
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.21		
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.0	0.40		
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.93		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.62		
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.79	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26			
STA AV	2.34	2.27	3.98	3.41	3.22	2.73	3.49	2.72	2.45	1.68	2.54	2.26			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 8-9 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 174												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.017	0.541	0.003	0.259	0.005	0.112	0.076	0.010	0.001	0.0	0.0	0.009
2	0.013	0.487	0.003	0.116	0.004	0.073	0.005	0.001	0.0 T	0.0 T	0.0 T	0.012
3	0.010	0.192	0.002	0.088	0.006	0.050	0.003	0.0	0.0	0.009	0.001	0.006
4	0.008	0.131	0.002	0.179	0.005	0.032	0.002	0.001	0.0	0.001	0.001	0.129
5	0.007	0.088	0.003	0.090	0.004	0.024	0.001	0.001	0.001	0.0	0.0 T	0.020
6	0.006	0.064	0.003	0.064	0.003	0.019	0.001	0.0	0.001	0.001	0.0	0.013
7	0.005	0.047	0.003	0.050	0.003	0.017	0.0 T	0.001	0.0	0.0 T	0.002	0.008
8	0.005	0.036	0.004	0.042	0.003	0.015	0.0 T	0.002	0.0	0.0	0.002	0.007
9	0.005	0.030	0.008	0.036	0.004	0.013	0.0 T	0.002	0.0	0.0	0.002	0.007
10	0.005	0.024	0.010	0.034	0.003	0.011	0.0	0.002	0.0	0.001	0.002	0.005
11	0.005	0.019	0.008	0.030	0.180	0.086	0.0	0.0	0.0	0.0	0.002	0.003
12	0.005	0.017	0.061	0.024	0.061	0.050	0.0	0.0	0.0	0.0	0.002	0.004
13	0.005	0.017	0.040	0.021	0.020	0.008	0.0	0.0	0.0	0.0	0.001	0.005
14	0.005	0.015	0.036	0.108	0.029	0.006	0.0	0.0	0.0	0.0	0.0	0.004
15	0.005	0.011	0.069	0.086	0.165	0.006	0.0	0.0	0.0	0.0	0.004	0.003
16	0.005	0.010	0.228	0.041	0.134	0.018	0.0	0.0	0.0	0.0	0.036	0.003
17	0.005	0.008	0.097	0.030	0.038	0.008	0.0	0.0	0.0	0.0	0.007	0.003
18	0.005	0.007	0.068	0.024	0.054	0.005	0.0	0.0	0.0	0.029	0.007	0.004
19	0.005	0.007	0.056	0.019	0.056	0.003	0.0	0.0	0.0	0.013	0.003	0.042
20	0.006	0.010	0.069	0.019	0.063	0.002	0.0	0.0	0.0	0.001	0.002	0.024
21	0.017	0.011	0.354	0.017	0.071	0.002	0.0	0.0	0.0	0.001	0.001	0.008
22	0.022	0.008	1.040	0.013	0.047	0.007	0.0	0.0	0.0	0.0 T	0.001	0.090
23	0.027	0.005	0.444	0.015	0.387	0.003	0.0	0.0	0.0	0.0	0.001	0.056
24	0.022	0.005	0.274	0.013	0.689	0.001	0.297	0.0	0.0	0.0 T	0.002	0.015
25	0.015	0.004	0.163	0.010	0.157	0.008	0.011	0.0	0.0	0.001	0.002	0.010
26	0.010	0.003	0.188	0.011	0.183	0.006	0.001	0.0	0.0	0.001	0.002	0.007
27	0.009	0.003	0.684	0.010	1.473	0.005	0.005	0.0	0.0	0.001	0.001	0.525
28	0.248	0.003	0.180	0.007	0.288	0.002	0.002	0.0	0.0	0.001	0.105	0.989
29	1.052	0.003	0.126	0.007	0.163	0.001	0.0	0.0	0.0	0.002	0.016	0.102
30	1.894		0.080	0.006	0.112	0.0 T	0.0	0.0	0.0	0.002	0.005	0.059
31	0.622		0.371		0.070	0.0	0.0	0.0		0.0 T		0.047
MEAN	0.1314	0.0623	0.1509	0.0490	0.1445	0.0198	0.0130	0.0006	0.0001	0.0021	0.0070	0.0716
INCHES	1.836	0.815	2.108	0.663	2.019	0.268	0.182	0.009	0.001	0.029	0.095	1.001
STA AV	0.746	1.143	2.635	1.509	0.725	0.305	0.109	0.090	0.053	0.074	0.153	0.396

NOTES: To convert CFS to IN/DAY, multiply by 0.45079. STA AV based on 8-9 yr period.

COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tuscarawas River, Muskinqu River Basin.

AREA: 187.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 194	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	34.31
	O	2.068	1.344	2.760	1.439	2.994	0.863	0.424	0.113	0.071	0.123	0.267	1.509	13.974
STA AV	P	2.40	2.37	3.64	3.20	3.19	2.73	3.49	2.72	2.45	1.68	2.54	2.26	32.67
	O	1.225	1.652	3.516	2.240	1.408	0.603	0.225	0.128	0.106	0.156	0.287	0.692	12.237

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	7-24	0.278	7-24	0.135	5-27	0.168	5-27	0.361	1-30	0.569	1-29	0.859	1-29	1.263	1-28	2.447

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	4-25	0.870	4-25	0.680	4-25	0.930	4-25	1.120	3- 9	1.320	3- 9	1.910	3- 9	2.600	3- 4	3.890
	1961		1961		1961		1961		1964		1964		1964		1964	

NOTES: Watershed conditions: Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneous, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, OSA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USOA Misc. Pub. 1070, pp. 26.39-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Jan. 1960. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 194	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.23			
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.11			
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.48			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0			
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0			
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0			
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.38	0.12			
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0			
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0			
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.16			
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.21			
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.40			
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.0	0.33	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0			
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.93			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.62			
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.79	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0		0.76		0.0		0.0		0.0		0.0	0.0			
TOTAL	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26			
STA AV	2.40	2.37	3.64	3.20	3.19	2.73	3.49	2.72	2.45	1.68	2.54	2.26			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-97, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 9 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 194												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.164	2.212	0.072	1.339	0.112	0.759	0.342	0.113	0.048	0.012	0.021	0.124
2	0.152	1.905	0.072	0.756	0.103	0.629	0.090	0.035	0.034	0.017	0.021	0.133
3	0.141	1.025	0.072E	0.622	0.119	0.491	0.059	0.028	0.021	0.102	0.021	0.092
4	0.141	0.730	0.072E	0.995	0.121	0.359	0.048	0.059	0.015	0.012	0.021	0.899E
5	0.141	0.570	0.079	0.682	0.112	0.309	0.043	0.037	0.030	0.010	0.021	0.234
6	0.141	0.458	0.079	0.522	0.103	0.274	0.042	0.032	0.031	0.027	0.029	0.142
7	0.122	0.378	0.065	0.458	0.103	0.258	0.041	0.035	0.015	0.026	0.044	0.112
8	0.103	0.322	0.072	0.397	0.103	0.241	0.055	0.049	0.015	0.012	0.028	0.094
9	0.103	0.274	0.113	0.341	0.112	0.223	0.044	0.044	0.015	0.010	0.028	0.079
10	0.103	0.258	0.131	0.305	0.103	0.202	0.037	0.054	0.015	0.027	0.024	0.057
11	0.103	0.231	0.112	0.289	0.894	0.498	0.037	0.033	0.015	0.015	0.021	0.052
12	0.112	0.188	0.286	0.258	0.455	0.343	0.037	0.024	0.012	0.015	0.031	0.065
13	0.112	0.169	0.262	0.229	0.215	0.188	0.037	0.021	0.010	0.015	0.024	0.072
14	0.094	0.164	0.221	0.621	0.283	0.176	0.037	0.021	0.010	0.015	0.021	0.065
15	0.086	0.164	0.386	0.598	0.619	0.164	0.037	0.021	0.010	0.015	0.055	0.111
16	0.079	0.152	1.037	0.337	0.793	0.217	0.037	0.021	0.010	0.015	0.220	0.111
17	0.072	0.131	0.623	0.289	0.350	0.164	0.037	0.021	0.010	0.018	0.075	0.052
18	0.072	0.121E	0.447	0.258	0.412	0.142	0.037	0.021	0.015	0.269	0.096	0.052
19	0.079	0.121E	0.397	0.229	0.419	0.116	0.032	0.021	0.025	0.073	0.052	0.215
20	0.086	0.121E	0.454E	0.215	0.467	0.106	0.028	0.021	0.018	0.024	0.042	0.168
21	0.113	0.121E	1.360E	0.201	0.524	0.096	0.028	0.021	0.015	0.021	0.037	0.112
22	0.131	0.121	3.820E	0.176	0.421	0.135	0.028	0.021	0.015	0.021	0.037	0.389
23	0.140	0.121	2.077E	0.181	1.536	0.100	0.028	0.021	0.030	0.021	0.037	0.328
24	0.121	0.096	1.282E	0.164	2.999	0.086	1.519	0.021	0.021	0.021	0.037	0.189
25	0.103	0.072	0.945	0.141	1.068	0.122	0.198	0.018	0.015	0.021	0.032	0.164
26	0.086	0.079	0.990	0.153	1.043	0.099	0.062	0.015	0.018	0.021	0.028	0.164
27	0.086	0.086	2.510	0.164	5.734	0.102	0.096	0.012	0.018	0.021	0.028	1.735
28	0.860	0.086	0.967	0.131	1.729	0.072	0.116	0.010	0.015	0.021	0.696	3.916
29	3.307	0.079	0.814	0.121	1.065	0.060	0.040	0.010	0.018	0.024	0.180	0.942
30	6.485	0.602	0.124	0.805	0.048	0.032	0.032	0.010	0.018	0.021	0.087	0.600
31	2.611		1.266		0.599		0.028	0.012		0.021		0.387
MEAN	0.5242	0.3641	0.6995	0.3767	0.7587	0.2259	0.1075	0.0286	0.0185	0.0311	0.0699	0.3825
INCHES	2.068	1.344	2.760	1.439	2.994	0.963	0.424	0.113	0.071	0.123	0.267	1.509
STA AV	1.225	1.652	3.516	2.240	1.408	0.603	0.225	0.128	0.106	0.156	0.287	0.692

NOTES: To convert CPS to IN/DAY, multiply by 0.12728. STA AV based on 9 yr period.

COSHOCTON, OHIO WATERSHEO 182

LOCATION: Tuscarawas River, Muskinum River Basin.

AREA: 69.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHEO 182	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	3.65	0.33	4.52	1.68	6.39	2.72	4.02	1.32	2.03	2.34	2.72	3.53	35.25	
0	1.786	0.974	2.332	1.059	2.420	0.520	0.216	0.017	0.000	0.004	0.044	0.834	10.207	
STA AV P	2.66	2.05	4.11	3.48	3.71	2.10	3.85	2.54	2.86	1.75	2.78	2.74	34.63	
0	0.933	1.251	2.946	1.764	1.396	0.176	0.115	0.019	0.016	0.065	0.105	0.663	9.449	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval													
		1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.
1968 7-24	0.239	7-24	0.106	1-30	0.139	1-30	0.310	1-30	0.515	1-29	0.799	1-29	1.188	1-28	2.144
1968 7-24	0.239	3-10	0.170	3-10	0.320	3-9	0.850	3-9	1.350	3-9	1.980	3-9	2.640	3-4	3.960
1968		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Cover of 3% hardwoods, 9% pastured woodland, 5% reforested, 49% grassland, 34% cultivated, prevailing practice except for 10% of area which was strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 26.40-2. Gage for Watershed 182 is 400 ft. upstream from that of Watershed 183 (26.029), which was discontinued after 1963. For information for Watershed 183, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164 and earlier publications of this series. For Geology description, see foregoing reference, p. 26.40-1. Precipitation data from rain gage 119. Precipitation and runoff record began January, 1964. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 182	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.04	0.0	0.04	0.0	0.38	0.67	0.51	0.52	0.0	0.0	0.0	0.27	
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.08	0.39	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.10	0.09	0.0	0.0	0.02	0.51	0.05	0.08	0.08	
4	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.52	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
6	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.26	0.20	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.20	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.24	0.0	0.0	0.03	0.0	0.0	
9	0.05	0.10	0.06	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.20	0.10	0.20	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.33	0.85	0.0	0.0	0.19	0.0	0.05	0.0	0.0	
12	0.0	0.0	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.73	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.50	0.15	0.03	0.0	0.0	0.0	0.40	0.08	0.08	
16	0.0	0.0	0.30	0.0	0.26	0.20	0.06	0.0	0.0	0.0	0.45	0.0	0.0	
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.20	0.0	0.07	0.0	0.10	0.94	0.11	0.20	0.20	
19	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.26	0.0	0.0	0.24	0.24	
20	0.0	0.08	0.24	0.05	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.72	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.86	0.0	0.05	0.29	0.03	0.0	0.0	0.02	0.0	0.45	0.45	
23	0.05	0.0	0.09	0.18	0.95	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.47	0.0	2.45	0.0	0.05	0.0	0.06	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.35	0.04	0.0	0.0	0.02	0.0	0.0	0.0	
26	0.0	0.0	0.36	0.17	0.41	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.28	0.0	0.94	0.0	0.42	0.0	0.0	0.0	0.0	1.02	1.02	
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.67	0.67	
29	0.24	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.61	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.65	0.33	4.52	1.68	6.39	2.72	4.02	1.32	2.03	2.34	2.72	3.53	35.25	
STA AV	2.66	2.05	4.11	3.48	3.71	2.10	3.85	2.54	2.86	1.75	2.78	2.74	34.63	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-97, p. 26.035-1. Precipitation amounts are for rain gage 119. STA AV based on 5 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 182												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.027	0.580	0.010	0.386	0.024	0.288	0.057	0.018	0.0	0.0	0.0	0.007
2	0.024	0.532	0.010	0.191	0.021	0.212	0.015	0.003	0.0	0.0	0.0	0.010
3	0.021	0.310	0.008	0.171	0.022	0.147	0.007	0.002	0.0	0.0	0.0	0.006
4	0.021	0.223	0.008	0.292	0.019	0.106	0.004	0.007	0.0	0.0	0.0	0.113
5	0.019	0.179	0.011	0.197	0.017	0.083	0.003	0.003	0.0	0.0	0.0	0.018
6	0.019	0.155	0.011	0.147	0.015	0.064	0.002	0.001	0.001	0.0	0.0 T	0.007
7	0.015	0.131	0.010	0.123	0.013	0.050	0.002	0.0 T	0.0	0.0	0.002	0.004
8	0.011	0.105	0.013	0.105	0.015	0.041	0.007	0.002F	0.0	0.0	0.0 T	0.002
9	0.013	0.088	0.031	0.094	0.017	0.034	0.005	0.001E	0.0	0.0	0.0	0.001
10	0.015	0.069	0.039	0.092	0.011	0.029	0.004	0.002E	0.0	0.0	0.0	0.0 T
11	0.015	0.055	0.030	0.083	0.254	0.130	0.003	0.0 T	0.0	0.0	0.0	0.001
12	0.015	0.050	0.084	0.068	0.115	0.080	0.002	0.0	0.0	0.0	0.0	0.003
13	0.015	0.046	0.074	0.059	0.049	0.028	0.002	0.0	0.0	0.0	0.0	0.003
14	0.015	0.039	0.061	0.154	0.073	0.024	0.002	0.001	0.0	0.0	0.0	0.001
15	0.015	0.033	0.126	0.193	0.166	0.021	0.003	0.001	0.0	0.0	0.002	0.0 T
16	0.013	0.033	0.294	0.094	0.293	0.030	0.003	0.002	0.0	0.0	0.018	0.001
17	0.013	0.033	0.171	0.078	0.110	0.021	0.002	0.002	0.0	0.0	0.004	0.001
18	0.013	0.025	0.118	0.068	0.140	0.020	0.001	0.002	0.0	0.007	0.005	0.001
19	0.015	0.019	0.108	0.059	0.132	0.014	0.001	0.001	0.0	0.004	0.001	0.033
20	0.017	0.021	0.134	0.055	0.146	0.010	0.001	0.001	0.0	0.0	0.0	0.021
21	0.040	0.017	0.459	0.050	0.167	0.009	0.0 T	0.0	0.0	0.0	0.0	0.008
22	0.055	0.015	1.229	0.042	0.119	0.026	0.0	0.0	0.0	0.0	0.0	0.081
23	0.067	0.015	0.748	0.049	0.534	0.010	0.0 T	0.0	0.0	0.0	0.0	0.059
24	0.051	0.013	0.475	0.047	0.938	0.007	0.432	0.0	0.0	0.0	0.0	0.017
25	0.033	0.011	0.305	0.036	0.352	0.028	0.036	0.0	0.0	0.0	0.0	0.010
26	0.024	0.011	0.312	0.037	0.345	0.020	0.004	0.0	0.0	0.0	0.0	0.010
27	0.021	0.013	0.864	0.039	1.629	0.016	0.022	0.0	0.0	0.0	0.0	0.446
28	0.404	0.013	0.304	0.030	0.553	0.007	0.007	0.0	0.0	0.0	0.074	1.077
29	1.298	0.011	0.253	0.027	0.350	0.005	0.002	0.0	0.0	0.0	0.017	0.211
30	2.155		0.206	0.027	0.248	0.004	0.002	0.0	0.0	0.0	0.004	0.163
31	0.740		0.312		0.188		0.002	0.0		0.0		0.120
MEAN	0.1684	0.0982	0.2200	0.1032	0.2283	0.0507	0.0204	0.0016	0.0	0.0004	0.0043	0.0787
INCHES	1.786	0.974	2.332	1.059	2.420	0.520	0.216	0.017	0.000	0.004	0.044	0.834
STA AV	0.933	1.251	2.946	1.764	1.396	0.176	0.115	0.019	0.016	0.065	0.105	0.663

NOTES: To convert CFS to IN/DAY, multiply by 0.34198. STA AV based on 5 yr period.

STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River.

AREA: 16.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													STILLWATER, OKLAHOMA WATERSHED W-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 1.33	0.48	2.47	4.44	6.87	3.33	0.77	2.93	1.70	2.08	5.65	1.29	33.34	
	0 0.384	0.005	1.437	2.225	3.690	0.022	0.0	0.0	0.653	0.498	8.914			
STA AV	P 0.62	1.01	1.91	2.31	5.14	3.86	4.23	2.90	3.44	2.42	1.66	1.10	30.60	
	0 0.126	0.201	0.694	0.680	1.802	0.930	0.666	0.072	0.409	0.627	0.399	0.204	6.810	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	4-3	1.367	4-3	0.936	4-3	1.248	5-24	1.634	5-24	2.073	5-24	2.148	5-24	2.158	5-18	2.169

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
4-18	6.990	7-15	3.314	7-15	3.737	7-15	3.963	10-2	4.519	7-4	5.185	10-1	5.679	9-29	7.627
1957		1951		1951		1951		1959		1951		1959		1959	

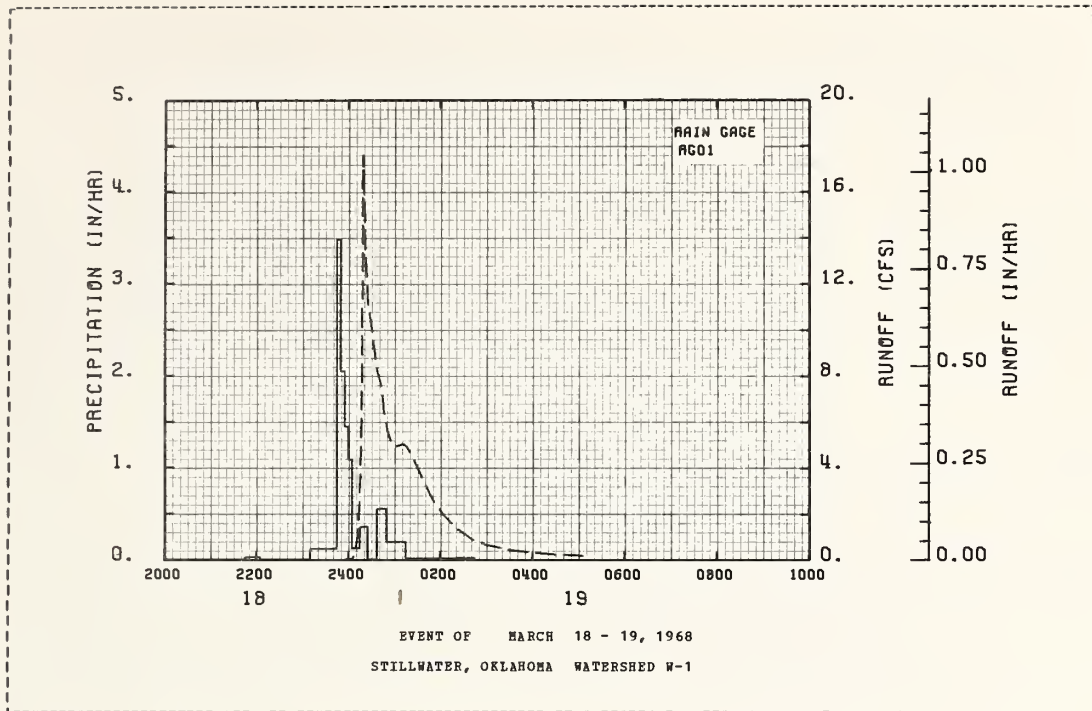
NOTES: Watershed conditions: All native grass pasture. The effect of overgrazing during September 1966 to October 1967 was definitely apparent in the vegetative cover at the beginning of the growing season in 1968. The gain in vegetative cover from September 1967 to September 1968 was measured as only 0.53 tons/acre. Grazing was resumed on August 10, 1968 with 16 head of cattle in this 40-acre pasture, and these cattle were removed on December 11, 1968. The cover condition was poor at the end of 1968. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 37.1-7 (Revised). Precipitation data obtained from R-1 recording rain gage. Precipitation and runoff records began July 1951. Station average precipitation data from R-3 recording rain gage record through 1964 combined with data from R-1 for 1965 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Stillwater, Oklahoma.

1968 MEAN DAILY DISCHARGE (cfs)													STILLWATER, OKLAHOMA WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.007		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005		
3	0.0	0.0	0.0	1.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.322	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.140	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.012	0.0	0.196	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.255	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.001	0.0		
11	0.0	0.0	0.0 T	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.015	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.003	0.0	0.081	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.055	0.0		
16	0.0	0.0	0.0	0.019	0.0	0.014	0.0	0.0	0.0	0.0	0.008	0.0		
17	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0		
18	0.128	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.082		
19	0.043	0.0	0.582	0.059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016		
20	0.016	0.0	0.049	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005		
21	0.012	0.0	0.301	0.051	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.080		
22	0.031	0.0	0.030	0.362	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.034		
23	0.016	0.0	0.014	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021		
24	0.007	0.0	0.002	0.0	0.498	0.0	0.0	0.0	0.0	0.0	0.0	0.013		
25	0.007	0.0	0.0	0.0	1.014	0.0	0.0	0.0	0.0	0.0	0.0	0.007		
26	0.005	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.008	0.0		
27	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.009		
28	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.318	0.028		
29	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.028		
30	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.014		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MEAN	0.0087	0.0001	0.0325	0.0520	0.0835	0.0005	0.0	0.0	0.0	0.0	0.0153	0.0113		
INCHES	0.384	0.005	1.437	2.225	3.690	0.022	0.0	0.0	0.653	0.498				
STA AV	0.126	0.201	0.694	0.680	1.802	0.930	0.666	0.072	0.409	0.627	0.399	0.204		

NOTES: To convert mean daily discharge in cfs to IN/DAY, multiply by 1.425247.

1968			SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 18 - 19, 1968											
3-18	RG 01 0.11	0.0	3-18	RG 01 2145	0.0	0.0	3-18	2357	0.0	0.0	
				2205	0.0300	0.01		2358	0.01	0.0	
				2310	0.0	0.01		2400	0.04	0.0001	
				2345	0.1200	0.08	3-19	2	0.05	0.0002	
				2350	3.4800	0.37		5	0.06	0.0004	
WATERSHED CONOITIONS: 100% of area in native grass pasture; pasture in poor condition.				2355	2.0400	0.54		6	0.10	0.0005	
				2400	1.4400	0.66		7	0.14	0.0006	
			3-19	5	1.0800	0.75		8	0.21	0.0008	
				15	0.1200	0.77		9	0.32	0.0011	
				25	0.3600	0.83		10	0.49	0.0015	
				37	0.0	0.83		11	0.72	0.0021	
				50	0.5538	0.95		12	1.07	0.0030	
				115	0.1920	1.03		13	1.38	0.0042	
				215	0.0100	1.04		14	1.89	0.0058	
				245	0.0200	1.05		15	2.59	0.0080	
								16	3.79	0.0111	
								17	5.59	0.0157	
								18	8.47	0.0226	
								19	17.59	0.0356	
								20	16.48	0.0524	
								22	13.81	0.0823	
								24	12.21	0.1081	
								26	11.04	0.1310	
								30	10.14	0.1731	
								34	9.06	0.2111	
								38	8.14	0.2452	
								42	7.66	0.2765	
								47	6.33	0.3111	
								51	5.59	0.3347	
								55	5.17	0.3560	
								100	4.88	0.3809	
								110	5.03	0.4299	
								116	4.88	0.4594	
								123	4.50	0.4919	
								136	3.55	0.5437	
								150	2.59	0.5863	
								205	1.89	0.6195	
								223	1.30	0.6479	
								242	0.86	0.6683	
								300	0.63	0.6816	
								322	0.46	0.6935	
								341	0.36	0.7012	
								404	0.28	0.7095	
								437	0.21	0.7164	
								505	0.16	0.7215	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385. Antecedent precipitation shown for 3-18 occurred between 1337 and 1555.

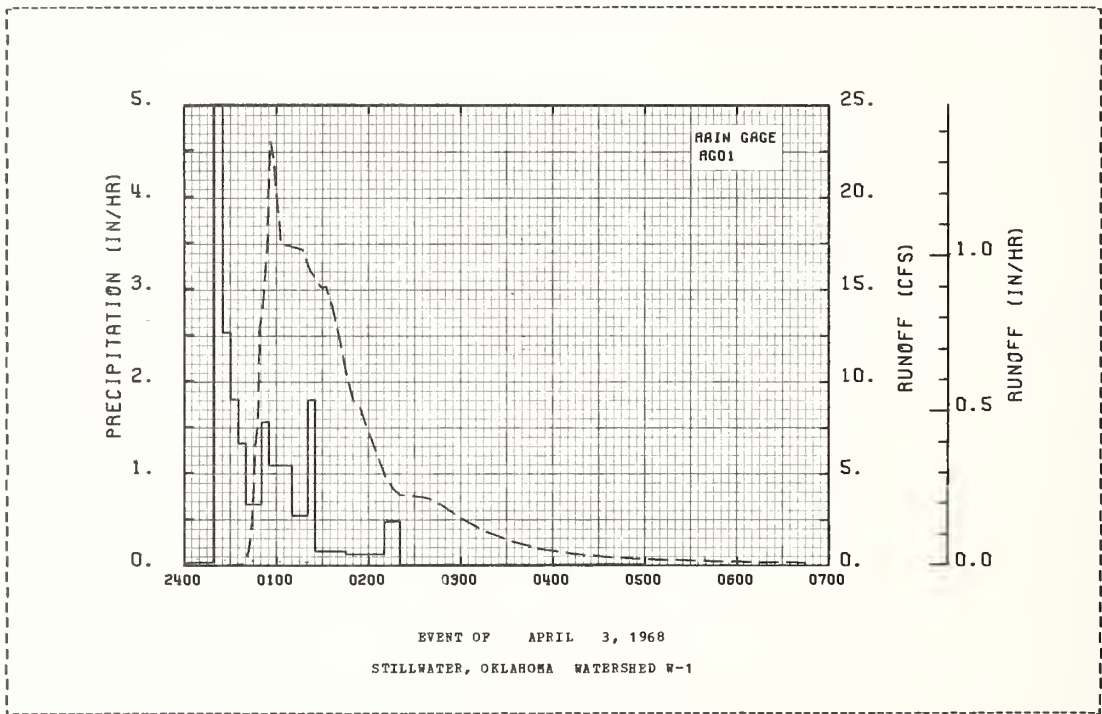


1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 3, 1968											
4-3	RG 01 0.0	0.0	4-3	RG 01 1	0.0	0.0	4-3	32	0.0	0.0	
				19	0.0333	0.01		33	0.04	0.0	
				25	5.0000	0.51		34	0.05	0.0	
				30	2.5200	0.72		37	0.07	0.0002	
				35	1.8000	0.87		38	0.12	0.0003	
WATERSHED CONDITIONS: 100% of area in native grass pasture; pasture in poor condition.				40	1.3200	0.98		39	0.21	0.0005	
				50	0.6600	1.09		40	0.36	0.0008	
				55	1.5600	1.22		41	0.59	0.0013	
				100	1.0800	1.31		42	0.86	0.0020	
				110	1.0800	1.49		43	1.54	0.0032	
				120	0.5400	1.58		44	2.49	0.0052	
				125	1.8000	1.73		45	3.79	0.0083	
				145	0.1500	1.78		46	6.33	0.0133	
				210	0.1200	1.83		48	8.18	0.0276	
				220	0.4800	1.91		49	12.79	0.0381	
				420	0.0050	1.92		51	14.01	0.0645	
				500	0.0150	1.93		52	15.03	0.0788	
								54	17.36	0.1110	
								55	21.01	0.1299	
								56	23.03	0.1516	
								58	22.03	0.1964	
								103	17.39	0.2938	
								117	17.08	0.5326	
								122	15.95	0.6142	
								129	15.02	0.7215	
								132	15.16	0.7663	
								136	14.10	0.8242	
								141	12.28	0.8894	
								144	10.90	0.9238	
								147	9.81	0.9546	
								150	8.87	0.9824	
								154	8.64	1.0171	
								158	7.66	1.0894	
								202	6.75	1.0779	
								206	5.84	1.1028	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.

1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 3, 1968 (CONTINUED)										
							4- 3	211	4.77	1.1290
								216	4.13	1.1510
								220	3.79	1.1667
								236	3.67	1.2258
								244	3.44	1.2539
								259	2.59	1.2986
								314	1.89	1.3318
								333	1.30	1.3618
								353	0.86	1.3832
								412	0.63	1.3972
								434	0.46	1.4091
								453	0.36	1.4168
								515	0.28	1.4238
								546	0.21	1.4313
								612	0.16	1.4360
								650	0.12	1.4414

NOTES: To convert runoff in cfs to in/hr, multiply by 0.059385.



STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River.

AREA: 92.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													STILLWATER, OKLAHOMA WATERSHED W-3	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 1.17	0.60	2.62	4.21	6.61	3.28	0.69	3.04	1.67	1.98	5.23	1.23	32.33	
	0 0.142	0.0	1.150	2.095	3.261	0.066	0.0	0.0	0.0	0.0	0.361	0.192	7.267	
STA AV	P 0.61	1.01	1.92	2.27	5.09	3.83	4.19	2.90	3.38	2.39	1.63	1.09	30.33	
	0 0.047	0.109	0.520	0.545	1.553	0.792	0.565	0.088	0.350	0.573	0.209	0.088	5.439	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	4-3	0.976	4-3	0.807	4-3	1.115	5-24	1.440	5-24	1.788	5-24	1.864	5-24	1.878	5-20	1.933

MAXIMUMS FOR PERIOD OF RECORD																
	7-15	4.739	7-15	2.896	7-15	3.486	7-15	3.796	10-1	4.957	10-1	5.185	10-1	6.083	9-30	8.143
	1951		1951		1951		1951		1959		1959		1959		1959	

NOTES: Watershed conditions: All native grass cover, 32% of watershed is in hay meadow and 68% in pasture. The meadow was cut for hay the latter part of July with a yield of only 1.0 ton/acre. The highest yield recorded for this meadow was 2.5 tons/acre in 1963. In general, the pasture portion was in poor condition due to overgrazing and drought in previous years, and heavy grazing this year. Rainfall for April and May totaled 3.46 inches above station average, and for the months of June through September totaled 5.62 inches below station average. Rainfall for the entire year was 1.98 inches above station average. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USOA, ARS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gauge. Precipitation and runoff records began July 1951. Max. rate and vol. for selected time intervals, max. for period of record; The 8-day volume has been revised due to an adjustment in the rating for low flow. Runoff results not corrected for pond effect (1 farm pond). For long-time precipitation records, see U.S. Weather Bureau records at Stillwater, Oklahoma.

1968 MEAN DAILY DISCHARGE (cfs)													STILLWATER, OKLAHOMA WATERSHED W-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.016		
2	0.0	0.0	0.0	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.013	0.009		
3	0.0	0.0	0.0	5.378	0.0	0.026	0.0	0.0	0.0	0.0	0.018	0.0		
4	0.0	0.0	0.0	0.035	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	1.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.891	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.639	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	1.455	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.177	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.343	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.078	0.0		
16	0.0	0.0	0.0	0.056	0.021	0.130	0.0	0.0	0.0	0.0	0.012	0.0		
17	0.0	0.0	0.0	0.072	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.208	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.068		
19	0.136	0.0	2.680	0.221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042		
20	0.047	0.0	0.148	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026		
21	0.035	0.0	1.302	0.204	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.187		
22	0.059	0.0	0.157	1.781	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.143		
23	0.044	0.0	0.057	0.083	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.060		
24	0.021	0.0	0.042	0.035	1.780	0.0	0.0	0.0	0.0	0.0	0.0	0.026		
25	0.0	0.0	0.035	0.037	5.476	0.0	0.0	0.0	0.0	0.0	0.0	0.016		
26	0.0	0.0	0.023	0.035	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.021		
27	0.0	0.0	0.0	0.012	0.042	0.0	0.0	0.0	0.0	0.0	0.016	0.062		
28	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	1.174	0.056		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.054	0.012		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MEAN	0.0177	0.0	0.1433	0.2699	0.4066	0.0085	0.0	0.0	0.0	0.0	0.0465	0.0239		
INCHES	0.142	0.0	1.150	2.095	3.261	0.066	0.0	0.0	0.0	0.0	0.361	0.192		
STA AV	0.047	0.109	0.520	0.545	1.553	0.792	0.565	0.088	0.350	0.573	0.209	0.088		

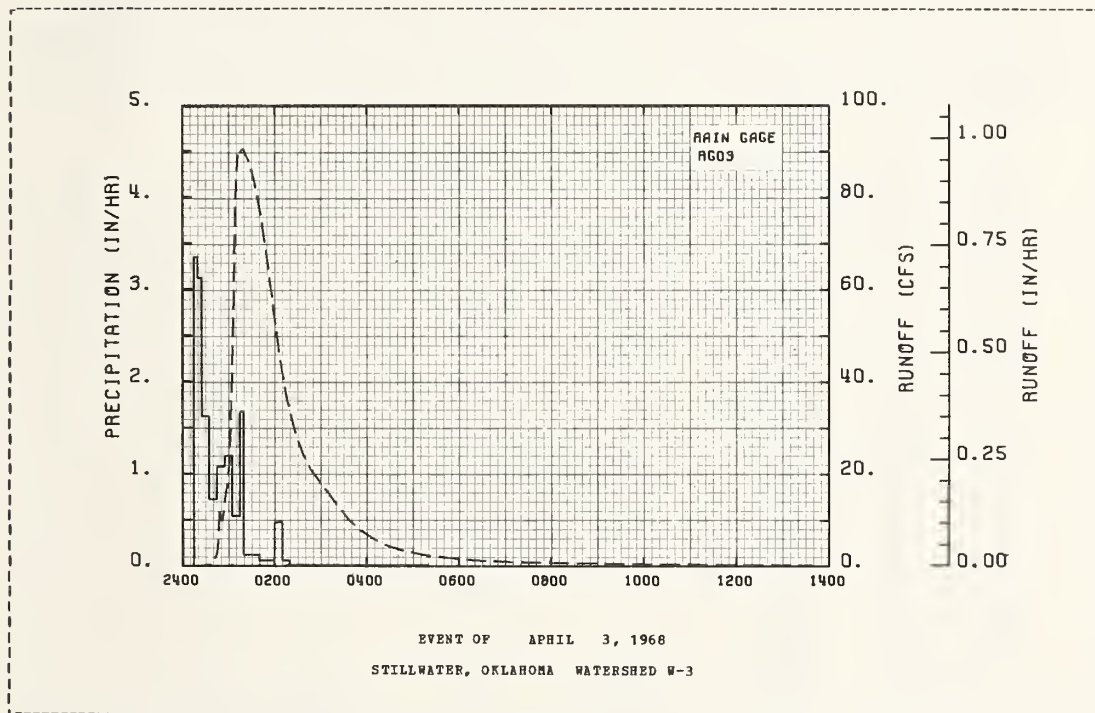
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258715.

1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF APRIL 3, 1968												
4-3	RG 03 0.0	0.0	4-3	RG 03 15	0.0	0.0	4-3	25	0.0	0.0		
				20	3.3600	0.28		29	0.20	0.0001		
				25	3.1200	0.54		32	0.31	0.0002		
				35	1.6200	0.81		34	0.40	0.0003		
				45	0.7200	0.93		36	0.39	0.0004		
WATERSHED CONDITIONS:				55	1.0800	1.11		38	0.49	0.0006		
100% of area in native grass;				105	1.2000	1.31		40	0.69	0.0008		
32% used as hay meadow in				115	0.5400	1.40		41	0.80	0.0009		
good condition, 46% in				120	1.6800	1.54		42	1.10	0.0011		
pasture in fair condition				140	0.1200	1.58		43	1.62	0.0013		
and 22% in pasture in poor				200	0.0600	1.60		44	2.21	0.0016		
condition.				210	0.4800	1.68		45	2.93	0.0021		
				220	0.0600	1.69		46	3.96	0.0027		
				320	0.0100	1.70		47	7.36	0.0037		
				420	0.0100	1.71		48	12.07	0.0054		
				520	0.0100	1.72		49	12.69	0.0076		
								50	10.39	0.0097		
								52	9.82	0.0133		
								54	12.33	0.0173		
								56	15.09	0.0222		
								59	18.23	0.0312		
								101	22.64	0.0386		
								102	25.75	0.0429		
								103	30.92	0.0480		
								104	37.66	0.0542		
								105	43.20	0.0614		
								106	50.30	0.0698		
								107	57.25	0.0794		
								108	66.97	0.0907		
								109	76.41	0.1035		
								110	83.16	0.1178		
								111	85.54	0.1329		
								112	89.35	0.1488		
								113	88.35	0.1647		
								117	90.35	0.2289		
								119	90.56	0.2615		
								122	89.24	0.3098		
								128	87.18	0.4050		
								132	84.74	0.4668		
								138	79.79	0.5556		
								143	75.27	0.6252		
								147	70.55	0.6776		
								151	65.73	0.7266		
								154	61.41	0.7609		
								158	57.00	0.8034		
								201	52.54	0.8329		
								204	48.80	0.8602		
								207	45.22	0.8854		
								211	41.22	0.9165		
								215	37.41	0.9448		
								220	33.77	0.9767		
								226	29.73	1.0109		
								230	27.35	1.0315		
								238	23.98	1.0684		
								248	20.56	1.1084		
								300	17.93	1.1499		
								313	15.07	1.1884		
								326	12.27	1.2203		
								337	9.94	1.2422		
								348	8.19	1.2601		
								358	6.98	1.2737		
								410	5.66	1.2873		
								418	5.00	1.2950		
								429	4.17	1.3041		
								443	3.52	1.3138		
								500	2.82	1.3235		
								519	2.24	1.3321		
								540	1.79	1.3397		
								604	1.41	1.3466		
								631	1.12	1.3527		
								657	0.91	1.3574		
								729	0.74	1.3621		
								800	0.63	1.3659		
								837	0.52	1.3697		
								906	0.45	1.3722		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.

1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Rnnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF APRIL 3, 1968 (CONTINUED)											
							4- 3	945	0.37	1.3751	
								1024	0.32	1.3775	
								1110	0.25	1.3798	
								1145	0.21	1.3813	
								1221	0.18	1.3826	
								1256	0.14	1.3836	
								1338	0.11	1.3845	

NOTES: To convert rnnoff in CPS to IN/HR, multiply by 0.01078.



STILLWATER, OKLAHOMA WATERSHED W-4

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River.

AREA: 206.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-4															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.15	0.45	2.10	3.98	6.58	2.69	1.07	1.95	1.44	2.11	4.96	1.06	29.54															
	O	0.034	0.0	0.359	1.154	2.150	0.001	0.0	0.0	0.0	0.0	0.143	0.021	3.862															
STA AV	P	0.54	0.97	1.85	2.19	4.92	3.71	4.06	2.76	3.39	2.42	1.54	1.04	29.40															
	O	0.064	0.077	0.326	0.343	1.206	0.734	0.529	0.070	0.350	0.512	0.123	0.070	4.495															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1968		4-3	0.562	4-3	0.522	4-3	0.813	5-24	1.114	5-24	1.394	5-24	1.444	5-24	1.450	5-24	1.451
		4-18	2.390	4-18	1.473	4-18	1.936	10-2	2.628	10-2	4.493	10-2	4.711	10-1	5.238	9-30	6.877
		1957		1957		1957		1959		1959		1959		1959		1959	

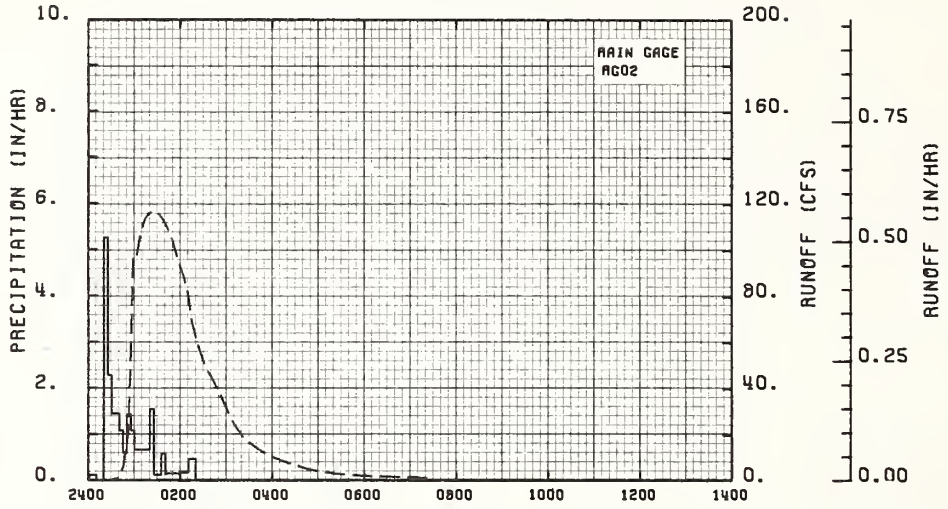
NOTES: Watershed conditions: All native grass cover, 17.3% of watershed area is in hay meadow and 82.7% in pasture. The meadow was cut for hay the last of August, and it did not appear the yield was as much as last year. Precipitation for April and May totaled 3.44 inches above station average, and June through September totaled 6.76 inches below station average. Generally, the pastures were in poor-to-fair condition due to drought and overgrazing in previous years and continued heavy grazing this year. Precipitation for the year was 0.12 inch above station average. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, OSDA Misc. Pub. 1194, p. 37.3-6 (Revised). Precipitation data from R-2 recording rain gage. Precipitation and runoff records began July 1951. Station average precipitation data from R-4 recording rain gage record through 1964 combined with R-2 for 1965 through 1968. Max. rate and vol. for selected time intervals - Max. for period of record: The 2-day and 8-day volumes have been revised due to an adjustment in the rating for low flow. Runoff results not corrected for ponds effect (3 farm ponds). For long-time precipitation records, see U.S. Weather Bureau records at Stillwater, Oklahoma.

1968 MEAN DAILY DISCHARGE (cfs)														STILLWATER, OKLAHOMA WATERSHED W-4													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118	0.0		
3	0.0	0.0	0.0	0.0	8.681	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0		
4	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	1.480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.540	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	1.666	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	1.730	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.102	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.423	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.256	0.0		
16	0.0	0.0	0.0	0.0	0.288	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004		
19	0.071	0.0	1.664	0.069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.002	0.0	0.155	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.970	0.021	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.123		
22	0.023	0.0	0.223	0.868	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.041		
23	0.002	0.0	0.077	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.021	0.0	2.808	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	9.713	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.819		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MEAN		0.0094	0.0	0.1003	0.3330	0.6001	0.0004	0.0	0.0	0.0	0.0	0.0	0.0414	0.0058													
INCHES		0.034	0.0	0.359	1.154	2.150	0.001	0.0	0.0	0.0	0.0	0.0	0.143	0.021													
STA AV		0.064	0.077	0.326	0.343	1.206	0.734	0.529	0.070	0.350	0.512	0.123	0.070														

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.115542.

1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED #4							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 3, 1968										
RG	02		RG	02						
4- 3	0.0	0.0	4- 3	1	0.0	0.0	4- 3	27	0.0	0.0
				10	0.1333	0.02		28	0.27	0.0
				20	0.0	0.02		31	0.25	0.0001
				25	5.2800	0.46		32	0.58	0.0001
				30	2.2800	0.65		33	0.77	0.0002
WATERSHED CONDITIONS:				40	1.4400	0.89		34	0.66	0.0003
100% of area in native grass,				45	1.0800	0.98		36	0.79	0.0004
17.3% used as hay meadow in				50	0.6000	1.03		37	1.02	0.0005
good condition and 82.7% in				55	1.4400	1.15		38	1.16	0.0006
pasture in fair condition.				100	1.0800	1.24		39	1.50	0.0007
				120	0.6600	1.46		40	2.06	0.0008
				125	1.5600	1.59		41	2.58	0.0010
				135	0.1200	1.61		42	3.28	0.0012
				140	0.6000	1.66		43	3.99	0.0015
				200	0.1500	1.71		44	4.82	0.0019
				210	0.1800	1.74		45	5.82	0.0023
				220	0.4800	1.82		46	7.33	0.0028
				320	0.0100	1.83		47	10.68	0.0035
				420	0.0100	1.84		48	14.52	0.0045
								49	16.01	0.0057
								50	16.20	0.0070
								52	21.93	0.0100
								53	33.59	0.0123
								54	43.70	0.0154
								55	55.61	0.0194
								56	68.05	0.0243
								57	80.74	0.0303
								58	96.67	0.0374
								102	96.11	0.0683
								105	102.07	0.0922
								108	107.16	0.1174
								113	113.45	0.1616
								118	115.91	0.2076
								126	116.78	0.2823
								129	116.20	0.3104
								135	113.97	0.3659
								142	109.84	0.4288
								150	103.38	0.4972
								156	96.05	0.5451
								203	89.30	0.5972
								209	82.19	0.6385
								214	69.92	0.6690
								222	59.30	0.7105
								231	49.89	0.7500
								245	41.54	0.8014
								256	34.09	0.8347
								304	27.98	0.8547
								312	23.14	0.8711
								321	19.03	0.8863
								333	15.43	0.9029
								346	12.36	0.9174
								400	10.10	0.9300
								414	8.18	0.9403
								428	6.52	0.9486
								443	5.09	0.9556
								501	3.84	0.9621
								523	2.89	0.9680
								546	2.22	0.9727
								614	1.64	0.9770
								648	1.33	0.9811
								721	1.08	0.9843

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.004814.



RIESEL (WACO), TEXAS WATERSHED C

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin.

AREA: 579.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED C															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	4.67	3.14	3.13	5.05	6.52	7.41	4.15	1.72	5.86	1.36	7.68	0.83	51.51	0	2.981	1.464	1.727	2.230	2.334	3.277	0.975	0.000	0.182	0.000	2.189	0.250	17.609	
STA AV	P	1.99	2.76	2.07	3.94	4.14	3.74	1.58	2.63	3.17	2.73	3.23	2.28	34.25	O	0.474	0.599	0.496	1.044	0.981	0.688	0.186	0.201	0.391	0.325	0.526	0.519	6.428	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.	Date
1968	6-24	0.569	6-24	0.530	6-24	0.874	5-10	1.433	5-10	1.662	5-10	1.727	5-10	1.743	5-10	2.102

MAXIMUMS FOR PERIOD OF RECORD

3-29 1965	1.580	3-29 1965	1.500	3-29 1965	2.520	3-29 1965	3.550	3-29 1965	3.800	3-29 1965	4.480	9-7 1942	4.780	4-19 1957	8.760
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NOTES: Watershed conditions: 75% pasture; 1% row grain sorghum; 9% fall planted small grain, largely oats; 1% corn; 1% cotton; 4% tilled, but not planted; 2% gravel and paved roads; 7% other. Approximately 90% of other is Johnson-grass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Feb. 1939; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 5, 14, and 20. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY AIR TEMPERATURE (degrees F)														RIESEL (WACO), TEXAS WATERSHED C													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	41	31	72	59	47	28	63	58	76	52	88	68	89	73	92	71	85	66	84	61	85	62	44	37			
2	41	32	70	39	55	34	65	59	81	59	88	65	90	71	92	71	90	69	87	63	84	60	58	39			
3	52	41	60	40	60	34	74	60	83	62	76	65	87	68	92	71	86	72	90	65	84	53	57	42			
4	50	34	62	38	47	30	76	42	86	60	73	65	85	67	92	72	93	72	81	62	59	43	55	33			
5	38	34	64	41	54	35	58	38	78	58	76	68	85	62	89	71	94	68	76	60	66	47	62	37			
6	40	36	59	39	52	44	60	43	79	55	83	65	85	61	91	72	80	66	79	60	67	47	61	33			
7	43	17	62	33	58	45	72	51	80	62	86	71	85	67	93	73	85	66	73	51	65	42	59	35			
8	25	16	51	31	66	46	79	64	79	65	86	71	88	69	94	74	85	68	78	55	59	42	54	28			
9	32	23	54	35	64	54	78	56	81	63	88	72	80	67	93	75	92	68	88	69	43	34	50	30			
10	33	32	60	38	78	50	66	58	81	63	88	72	83	67	95	75	87	60	80	55	55	41	59	35			
11	38	32	60	36	70	52	74	56	77	63	91	73	89	71	96	74	82	57	74	56	61	35	64	48			
12	42	36	47	31	54	36	74	54	72	60	91	75	89	71	90	74	83	59	75	65	52	32	64	50			
13	45	27	57	34	48	31	70	60	78	61	94	71	85	71	91	74	83	59	85	72	63	39	73	36			
14	45	23	48	34	56	36	80	65	84	73	93	72	90	72	92	74	83	65	88	71	76	44	59	27			
15	49	24	36	34	66	44	75	49	85	72	90	72	89	75	94	76	73	64	88	70	76	58	49	27			
16	52	28	40	35	68	47	75	58	86	72	90	71	90	75	95	77	84	75	87	66	72	43	52	29			
17	56	30	50	35	76	53	78	65	81	71	90	70	90	72	95	73	94	63	84	49	73	47	57	41			
18	63	44	47	36	70	57	77	66	77	55	89	70	89	72	94	70	77	58	70	47	62	37	68	57			
19	60	48	52	40	72	63	76	68	76	58	88	70	88	73	94	71	84	58	73	47	55	32	73	35			
20	58	51	53	41	72	60	78	60	77	53	83	70	87	68	95	73	86	60	81	51	63	36	60	37			
21	56	50	66	42	67	36	77	63	76	58	77	67	94	70	95	72	92	72	83	54	62	42	58	47			
22	56	48	52	29	50	33	74	65	82	64	80	68	90	74	95	73	91	71	79	56	72	49	69	44			
23	64	43	32	25	57	30	77	52	87	70	82	70	91	72	96	74	88	72	82	56	72	54	48	27			
24	46	31	32	27	61	35	64	44	87	71	79	73	90	73	95	70	88	68	80	49	78	47	47	28			
25	54	34	54	29	69	47	73	47	88	72	87	73	90	73	93	71	85	65	66	45	68	40	57	32			
26	70	41	66	40	71	50	73	55	90	64	88	66	90	70	93	73	76	59	75	46	72	49	68	47			
27	70	54	70	42	72	53	80	60	79	61	77	62	90	71	93	70	79	58	84	54	75	44	72	66			
28	66	61	71	47	71	57	83	61	75	59	83	69	90	73	91	64	84	60	79	42	45	37	70	31			
29	66	60	50	29	75	60	71	53	84	64	88	74	92	73	90	61	83	61	73	50	58	38	57	33			
30	69	61			74	63	74	53	88	70	90	74	89	75	89	64	83	61	85	59	49	40	69	45			
31	65	55			74	62			87	69			92	74	90	70			84	64			67	19			
AV.		51	38	55	36	63	45	73	56	81	63	85	69	88	70	92	71	85	64	80	57	65	43	60	37		
MEAN		44.6		45.8		54.5		64.7		72.3		77.6		79.6		82.3		75.0		68.9		54.8		48.6			
STA AV		57	37	62	40	69	47	77	56	83	63	89	70	94	72	94	72	88	66	81	57	68	46	61	39		

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 0900 of the day shown. STA AV based on 30 yr (1939-1968) period.

1968	DAILY PRECIPITATION (inches)							RIESEL (WACO), TEXAS		WATERSHED C			
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.21S	1.30	0.0	1.46	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.15	0.0	2.77	1.42	0.0	0.0	0.0	0.89	0.02F	
3	0.23	0.0	0.0	0.52	1.28	0.35	0.0	0.0	0.48	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	1.17	0.0	0.0	0.0	0.0
5	0.43	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.05	0.08E	0.0	0.0	0.0
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.05S	0.0	0.05E	0.0	0.02E	0.0	0.64	0.0	0.0	0.0	0.93	0.0	0.0
9	0.0 S	0.0	0.0	0.11E	0.73	0.0	0.26	0.0	0.0	1.24	0.0	0.0	0.0
10	0.0	0.0 E	0.76	0.0	2.25	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0
11	0.01F	0.0	1.57	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0 E	0.0	0.0	1.97	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.32	0.0
13	0.0	0.02E	0.0	0.0	0.01E	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.60	0.0	0.0	0.0	0.0 E	0.06E	0.0	1.28	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	1.73	0.0	0.0
16	0.0	0.0	0.0	0.0	0.02E	0.05	0.0	0.0	0.0	0.03E	0.0	0.0	0.0
17	0.0	0.0 E	0.0	0.0	1.06	0.0	0.0	0.0	1.90	0.0	0.0	0.0	0.0
18	0.99	0.01	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.00E	0.0
19	0.0	0.33	0.15F	0.66	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0
20	0.23	0.0	0.27	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.07
21	1.25	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.20	0.0
22	0.0	0.13S	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.13	0.0
23	0.01E	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.12E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	2.66	0.0	0.0	0.50	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.87	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	1.02	0.0	0.0	1.06	0.0	0.0
27	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	1.33	0.09E	0.0
28	0.07E	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.61	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.67	3.14	3.13	5.05	6.52	7.41	4.15	1.72	5.86	1.36	7.68	0.83	0.83
STA AV	1.99	2.76	2.07	3.94	4.14	3.74	1.58	2.63	3.17	2.73	3.23	2.28	2.28

NOTES: Precipitation values are Thiessen weighted average of rain gages 5, 14, and 20. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968	MEAN DAILY DISCHARGE (cfs)							PIESEL (WACO), TEXAS		WATERSHED C			
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.665	24.176	0.111	3.489	0.0 T	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	5.293
2	0.416	0.913	0.059	11.690	0.0 T	17.143	6.061	0.0	0.0	0.0	0.0	0.0	0.426
3	1.117	0.210	0.031	6.570	0.876	21.825	1.979	0.0	0.0	0.0	0.0	0.0	0.131
4	0.516	0.095	0.018	1.068	1.508	1.490	0.082	0.0	0.001	0.0	0.0	0.0	0.050
5	2.862	0.056	0.018	0.123	0.076	0.224	0.007	0.0	0.0 T	0.0	0.0	0.0	0.026
6	2.236	0.034	0.168	0.039	0.009	0.065	0.001	0.0	0.0	0.0	0.0	0.0	0.015
7	0.302	0.018	0.091	0.016	0.001	0.021	0.0 T	0.0	0.0	0.0	0.0	0.0	0.007
8	0.152	0.011	0.061	0.009	0.001	0.007	0.004	0.0	0.0	0.0	0.0	0.0	0.004
9	11.413	0.008	0.056	0.006	0.003	0.003	0.051	0.0	0.0	0.001	0.0	0.0	0.005
10	4.435	0.008	0.840	0.004	42.032	0.002	0.029	0.0	0.0	0.0 T	0.0	0.0	0.004
11	1.701	0.006	37.935	0.002	0.642	0.001	0.491	0.0	0.0	0.0	0.0	0.0	0.005
12	0.493	0.004	1.776	25.037	0.185	0.001	0.064	0.0	0.0	0.0	0.0	0.0	0.011
13	0.163	0.003	0.224	2.422	0.077	0.001	14.298	0.0	0.0	0.0	0.0	0.0	0.007
14	0.075	0.328	0.087	0.222	0.031	0.0 T	0.579	0.0	0.0	0.0	0.0	0.0	0.006
15	0.046	0.546	0.047	0.048	0.011	0.0 T	0.066	0.0	0.0	0.0	10.015	0.004	0.004
16	0.027	0.145	0.030	0.017	0.005	0.0 T	0.008	0.0	0.0	0.0	0.450	0.004	0.004
17	0.020	0.066	0.023	0.010	8.913	0.0 T	0.001	0.0	4.303	0.0	0.140	0.005	0.005
18	11.893	0.044	0.019	0.006	1.723	0.0 T	0.001	0.0	0.122	0.0	0.017	0.005	0.005
19	1.836	0.790	0.027	1.553	1.047	0.0 T	0.001	0.0	0.005	0.0	0.008	0.003	0.003
20	1.325	0.343	0.192	1.439	0.023	0.0 T	0.001	0.0	0.0 T	0.0	0.004	0.003	0.003
21	24.773	0.155	0.120	0.242	0.004	0.0 T	0.0 T	0.0	0.0 T	0.0	0.002	0.006	0.006
22	4.626	0.103	0.033	0.169	0.001	0.0 T	0.0 T	0.0	0.0	0.0	0.002	0.011	0.011
23	0.537	0.063	0.016	0.046	0.001	0.0 T	0.0	0.0	0.0	0.0	0.003	0.006	0.006
24	0.192	0.044	0.009	0.012	0.001	34.645	0.0	0.0	0.0 T	0.0	0.002	0.006	0.006
25	0.105	0.029	0.005	0.004	0.004	0.359	0.0	0.0	0.0 T	0.0	0.002	0.006	0.006
26	0.069	0.020	0.003	0.001	0.357	3.725	0.0	0.001	0.0	0.0	0.772	0.006	0.006
27	0.052	0.014	0.002	0.001	0.109	0.173	0.0	0.0	0.0	0.0	18.050	0.008	0.008
28	0.063	6.906	0.002	0.001	0.034	0.023	0.0	0.0	0.0	0.0	3.173	0.006	0.006
29	0.078	0.473	0.001	0.0 T	0.005	0.003	0.0	0.0	0.0	0.0	0.280	0.006	0.006
30	0.098	0.001	0.0 T	0.002	0.0 T	0.0	0.0	0.0	0.0	0.0	20.325	0.006	0.006
31	0.242	0.002	0.002	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.004
MEAN	2.3395	1.2278	1.3550	1.8081	1.8316	2.6570	0.7653	0.0	0.1477	0.0	1.7747	0.1963	0.1963
INCHES	2.981	1.464	1.727	2.230	2.334	3.277	0.975	0.000	0.182	0.000	2.189	0.250	0.250
STA AV	0.474	0.599	0.496	1.044	0.981	0.688	0.186	0.201	0.391	0.325	0.526	0.518	0.518

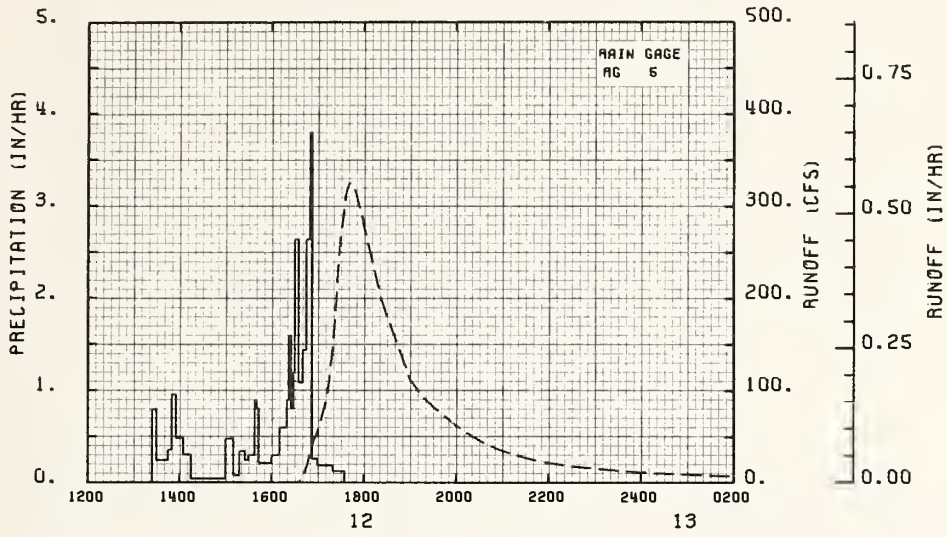
NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.041107. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968 SELECTED RUNDFF EVENT			RIESEL (WACO), TEXAS WATERSHED C							
ANTECEDENT CDNDITIDNS			RAINFALL				RUNDFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 12 - 13, 1968										
4-12	RG 5 0.0	0.0	4-12	RG 5	0.0	0.0	4-12	1326	0.0	0.0
					1330	0.8000	0.08	1330	0.0	0.0
					1345	0.2400	0.14	1335	0.01	0.0
					1350	0.3600	0.17	1340	0.01	0.0
					1355	0.9600	0.25	1345	0.01	0.0
WATERSHED CDNDITIDNS:										
75% pasture, all classes; 1% row grain sorghum, 1 to 3 inches high; 9% fall planted small grain, mostly oats, 10 to 12 inches high; 1% corn, 2 to 4 inches high; 5% tilled, but not planted; 2% gravel and paved roads; 7% other. Approx. 90% of other is Johnsongrass and weeds in conservation reserve, neither tilled nor grazed.										
					1405	0.4800	0.33	1350	0.01	0.0
					1415	0.3000	0.38	1354	0.01	0.0
					1500	0.0400	0.41	1400	0.02	0.0
					1510	0.4800	0.49	1405	0.02	0.0
					1518	0.0750	0.50	1410	0.02	0.0
					1525	0.3429	0.54	1415	0.03	0.0
					1530	0.2400	0.56	1420	0.03	0.0
					1538	0.3000	0.60	1430	0.03	0.0
					1540	0.9000	0.63	1440	0.03	0.0
					1543	0.8000	0.67	1450	0.02	0.0
					1600	0.2118	0.73	1502	0.02	0.0
					1610	0.3000	0.78	1506	0.02	0.0
					1620	0.6000	0.88	1510	0.03	0.0
					1622	0.9002	0.91	1515	0.03	0.0
					1625	1.5999	0.99	1520	0.04	0.0
					1628	0.7999	1.03	1525	0.05	0.0
					1630	1.1997	1.07	1530	0.05	0.0
					1635	2.6402	1.29	1535	0.06	0.0
					1640	1.0801	1.38	1540	0.07	0.0
					1645	1.4398	1.50	1545	0.09	0.0
					1650	2.6402	1.72	1550	0.11	0.0
					1653	3.7998	1.91	1555	0.12	0.0
					1700	0.2571	1.94	1600	0.14	0.0
					1720	0.1800	2.00	1605	0.15	0.0
					1735	0.1200	2.03	1610	0.17	0.0
								1615	0.19	0.0
								1620	0.22	0.0
								1625	0.33	0.0
								1630	0.54	0.0001
								1635	1.08	0.0002
								1640	4.25	0.0006
								1642	8.03	0.0010
								1644	13.43	0.0016
								1646	19.40	0.0025
								1648	25.30	0.0038
								1650	33.37	0.0055
								1652	37.78	0.0075
								1654	44.18	0.0098
								1656	47.81	0.0124
								1700	56.35	0.0184
								1704	67.17	0.0255
								1708	79.89	0.0339
								1712	93.09	0.0438
								1716	119.06	0.0559
								1718	134.82	0.0631
								1720	155.94	0.0714
								1722	176.26	0.0808
								1724	199.58	0.0916
								1726	229.66	0.1038
								1730	269.82	0.1324
								1734	296.80	0.1647
								1736	310.59	0.1820
								1738	317.67	0.2000
								1740	324.39	0.2183
								1742	324.39	0.2369
								1746	321.50	0.2738
								1750	312.46	0.3100
								1755	295.90	0.3534
								1800	277.44	0.3944
								1810	241.33	0.4684
								1820	205.94	0.5323
								1830	178.97	0.5873
								1840	157.04	0.6352
								1850	135.06	0.6769
								1900	110.79	0.7120
								1910	99.38	0.7420
								1920	89.46	0.7690
								1930	81.69	0.7934
								1940	74.55	0.8157
								1950	68.14	0.8361

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED C				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
							4-12	2000	60.91	0.8545
								2010	55.09	0.8710
								2020	49.99	0.8860
								2030	44.89	0.8995
								2040	40.27	0.9116
								2050	36.93	0.9226
								2100	33.66	0.9327
								2110	30.94	0.9419
								2120	28.58	0.9504
								2130	26.12	0.9582
								2140	24.22	0.9654
								2150	22.36	0.9721
								2200	20.72	0.9783
								2220	18.10	0.9894
								2240	16.02	0.9991
								2300	14.40	1.0078
								2320	12.97	1.0156
								2340	11.78	1.0227
								2400	10.58	1.0291
							4-13	20	9.61	1.0349
								40	8.82	1.0402
								100	8.10	1.0450
								130	7.22	1.0516
								200	6.37	1.0574
								230	5.85	1.0626
								300	5.29	1.0674
								330	4.75	1.0717
								400	4.41	1.0756
								430	4.07	1.0792
								500	3.74	1.0825
								530	3.47	1.0856
								600	3.21	1.0885
								700	2.82	1.0937
								800	2.49	1.0982
								900	2.17	1.1022
								1000	2.00	1.1058
								1100	1.66	1.1089
								1200	1.46	1.1116
								1300	1.32	1.1140
								1400	1.23	1.1162
								1500	1.03	1.1181
								1600	0.94	1.1198
								1700	0.85	1.1213
								1800	0.76	1.1227
								1900	0.70	1.1240
								2000	0.63	1.1251
								2100	0.57	1.1261
								2200	0.52	1.1270

NOTES: To convert runoff in CFS to IN/HF, multiply by 0.001713.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED C

RIESEL (WACO), TEXAS WATERSHED

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin.

AREA: 1110.00 acres 1.73 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	4.66	3.28	3.10	4.97	6.59	7.65	4.13	1.68	5.72	1.19	7.48	0.74	51.20
	O	2.811	1.575	1.780	2.226	2.522	3.497	1.031	0.000	0.219	0.001	2.072	0.235	17.970
STA AV	P	2.07	2.75	2.16	3.90	4.05	3.79	1.60	2.50	3.08	2.59	3.12	2.29	33.91
	O	0.510	0.602	0.544	1.099	1.092	0.692	0.196	0.220	0.373	0.326	0.498	0.489	6.642

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	5-10	0.521	5-10	0.502	5-10	0.915	5-10	1.709	5-10	1.904	5-10	1.962	5-9	1.978	5-10	2.319

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
3-29 1965	2.110	3-29 1965	1.930	3-29 1965	3.150	3-29 1965	4.590	3-29 1965	4.880	3-29 1965	5.630	3-29 1965	5.690	4-19 1957	9.660

NOTES: Watershed conditions: 49% pasture; 12% tilled, but not planted; 5% cotton; 2% corn; 7% fall planted small grain, mostly oats; 5% row grain sorghum; 2% gravel and paved roads; 18% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, and 26A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.24S	1.40	0.0	1.48	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.15	0.0	2.83	1.52	0.0	0.0	0.0	0.95	0.01E		
3	0.22	0.0	0.0	0.50	1.24	0.35	0.0	0.0	0.49	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	1.16	0.0	0.0	0.0		
5	0.43	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.05	0.07E	0.0	0.0		
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.07S	0.0	0.04E	0.0	0.04E	0.0	0.66	0.0	0.0	0.0	0.94	0.0		
9	0.0 S	0.0	0.0	0.12E	0.70	0.0	0.31	0.0	0.0	1.09	0.0	0.0		
10	0.0-	0.0 E	0.75	0.0	2.30	0.0	0.35	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.56	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.91	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.25		
13	0.0	0.02E	0.0	0.0	0.01E	0.0	1.23	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.59	0.0	0.0	0.0	0.0 E	0.05E	0.0	1.24	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	1.63	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.13	0.0	0.0	0.0	0.03E	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.13	0.0	0.0	0.0	1.77	0.0	0.0	0.0		
18	0.98	0.01	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.01E		
19	0.0	0.34	0.14E	0.62	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0		
20	0.23	0.0	0.28	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.05		
21	1.22	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.20		
22	0.0	0.13S	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.14		
23	0.01E	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.09E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.68	0.0	0.0	0.52	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.85	0.70	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	1.04	0.0	0.0	1.03	0.0		
27	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	1.27	0.08E		
28	0.08E	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.56	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	4.66	3.28	3.10	4.97	6.59	7.65	4.13	1.68	5.72	1.19	7.48	0.74		
STA AV	2.07	2.75	2.16	3.90	4.05	3.79	1.60	2.50	3.08	2.59	3.12	2.29		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, and 26A. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 23 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS					WATERSHED D	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.198	54.531	0.150	6.103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.457	
2	0.695	1.442	0.079	21.809	0.0	34.802	18.187	0.0	0.0	0.0	0.058	0.755	
3	1.693	0.314	0.042	9.841	1.420	43.705	3.639	0.0	0.0	0.012	0.254		
4	0.764	0.135	0.027	3.225	2.154	2.401	0.131	0.001	0.131	0.0	0.0	0.091	
5	5.055	0.078	0.032	0.156	0.100	0.351	0.017	0.0	0.003	0.0	0.0	0.050	
6	3.642	0.043	0.236	0.049	0.015	0.094	0.002	0.0	0.0	0.0	0.0	0.029	
7	0.476	0.021	0.125	0.022	0.001	0.032	0.0	0.0	0.0	0.0	0.0	0.016	
8	0.590	0.013	0.070	0.012	0.0	0.011	0.018	0.0	0.0	0.0	0.007	0.009	
9	19.068	0.010	0.068	0.012	0.005	0.003	0.152	0.0	0.0	0.048	0.004	0.011	
10	9.469	0.010	3.028	0.007	91.768	0.0	0.062	0.0	0.0	0.001	0.0	0.012	
11	3.125	0.009	75.303	0.002	1.012	0.0	0.421	0.0	0.0	0.0	0.0	0.014	
12	0.878	0.005	2.689	53.149	0.298	0.0	0.085	0.0	0.0	0.0	0.0	0.026	
13	0.272	0.004	0.317	3.805	0.122	0.0	24.412	0.0	0.0	0.0	0.0	0.014	
14	0.122	0.448	0.116	0.294	0.049	0.0	0.848	0.0	0.011	0.0	0.0	0.007	
15	0.079	0.750	0.070	0.056	0.019	0.0	0.101	0.0	0.038	0.0	15.904	0.006	
16	0.048	0.192	0.044	0.024	0.009	0.001	0.021	0.0	0.0	0.0	0.710	0.006	
17	0.038	0.085	0.030	0.015	16.674	0.0	0.005	0.0	9.801	0.0	0.095	0.009	
18	22.337	0.059	0.025	0.009	2.705	0.0	0.001	0.0	0.219	0.0	0.023	0.014	
19	2.941	1.247	0.046	2.533	0.194	0.0	0.0	0.0	0.010	0.0	0.007	0.007	
20	2.861	0.499	0.288	1.993	0.036	0.0	0.0	0.0	0.0	0.0	0.003	0.003	
21	45.696	0.224	0.158	0.366	0.009	0.0	0.0	0.0	0.0	0.0	0.001	0.012	
22	7.763	0.148	0.040	0.243	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.037	
23	0.852	0.098	0.017	0.059	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.010	
24	0.286	0.078	0.009	0.013	0.0	72.997	0.0	0.0	0.005	0.0	0.0	0.008	
25	0.159	0.052	0.005	0.004	0.033	1.280	0.0	0.0	0.002	0.0	0.0	0.009	
26	0.105	0.033	0.004	0.001	0.571	7.060	0.0	0.010	0.0	0.0	1.308	0.013	
27	0.083	0.019	0.002	0.0	0.350	0.272	0.0	0.0	0.0	0.0	31.870	0.011	
28	0.108	12.184	0.002	0.0	0.062	0.041	0.0	0.0	0.0	0.0	6.007	0.032	
29	0.126	0.734	0.001	0.0	0.011	0.007	0.0	0.0	0.0	0.0	0.514	0.015	
30	0.177	0.001	0.001	0.0	0.002	0.001	0.0	0.0	0.0	0.0	40.129	0.016	
31	0.377	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	
MEAN	4.2283	2.5330	2.6781	3.4600	3.7941	5.4355	1.5516	0.0004	0.3406	0.0016	3.2216	0.3541	
INCHES	2.811	1.575	1.780	2.226	2.522	3.497	1.031	0.000	0.219	0.001	2.072	0.235	
STA AV	0.510	0.602	0.544	1.099	1.092	0.692	0.196	0.220	0.373	0.326	0.498	0.489	

NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.021442. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 23 yr period.

1968		SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS					WATERSHED D	
ANTECEDENT CONDITIONS			FAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968											
RG	14		RG	14							
4-12	0.0	0.0	4-12	1325	0.0	0.0	4-12	1335	0.0	0.0	
				1329	0.4500	0.03		1339	0.0	0.0	
				1339	0.3000	0.08		1345	0.01	0.0	
				1345	0.3000	0.11		1351	0.01	0.0	
				1349	0.4500	0.14		1353	0.01	0.0	
WATERSHED CONDITIONS:											
49% pasture, all classes;											
17% tilled, but not planted;											
2% corn, 2 to 4 inches high;											
7% fall planted small grain,											
mostly oats, 10 to 12 inches											
high; 5% row grain sorghum,											
1 to 2 inches high; 2% gravel											
and paved roads; 18% other.											
Approx. 90% of other is											
Johnsongrass and weeds in											
conservation reserve,											
neither tilled nor grazed.											
				1535	0.2625	0.51		1455	0.02	0.0	
				1537	0.9000	0.54		1503	0.03	0.0	
				1539	1.2000	0.58		1505	0.03	0.0	
				1559	0.1500	0.63		1507	0.04	0.0	
				1609	0.3600	0.69		1509	0.05	0.0	
				1615	0.3000	0.72		1511	0.06	0.0	
				1617	0.9002	0.75		1513	0.08	0.0	
				1619	1.4997	0.80		1515	0.08	0.0	
				1621	1.2003	0.84		1520	0.09	0.0	
				1625	0.6000	0.88		1525	0.11	0.0	
				1627	0.5999	0.90		1529	0.13	0.0	
				1629	2.7007	0.99		1533	0.15	0.0	
				1631	2.9994	1.09		1535	0.19	0.0	
				1633	1.5004	1.14		1537	0.27	0.0	
				1639	1.0999	1.25		1539	0.35	0.0	
				1641	1.5004	1.30		1541	0.41	0.0	
				1643	3.9010	1.43		1543	0.47	0.0	
				1645	2.0995	1.50		1545	0.51	0.0	
				1647	2.1005	1.57		1549	0.62	0.0	
				1649	3.8992	1.70		1551	0.72	0.0	

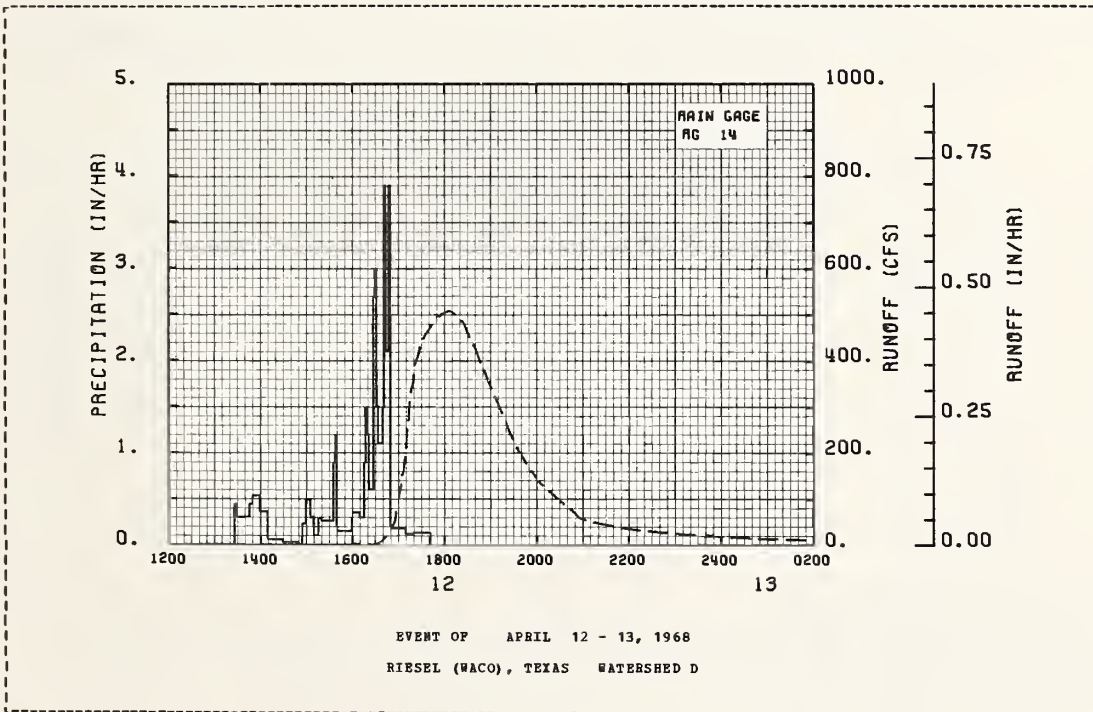
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.

1968 SELECTED RUNDFF EVENT			RIESEL (WACO), TEXAS WATERSHED D							
ANTECEDENT CONDITIONS			RAINFALL			RUNDFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
4-12			1709		0.1800	1.76	4-12	1555	0.85	0.0
			1719		0.1200	1.78		1557	1.04	0.0
			1741		0.1364	1.83		1559	1.38	0.0
								1601	1.65	0.0
								1605	1.96	0.0001
								1609	2.14	0.0002
								1613	2.19	0.0003
								1615	2.19	0.0004
								1619	2.25	0.0005
								1623	2.40	0.0006
								1627	3.06	0.0008
								1631	3.97	0.0010
								1633	4.73	0.0011
								1635	6.58	0.0013
								1637	8.87	0.0015
								1639	12.12	0.0018
								1641	15.97	0.0022
								1643	19.18	0.0027
								1645	23.57	0.0033
								1647	27.13	0.0041
								1649	32.35	0.0050
								1651	37.96	0.0060
								1653	45.09	0.0072
								1655	55.16	0.0087
								1657	81.00	0.0107
								1659	95.00	0.0133
								1701	117.00	0.0165
								1703	131.00	0.0202
								1705	152.00	0.0244
								1707	173.50	0.0292
								1709	198.00	0.0348
								1711	246.00	0.0414
								1713	277.00	0.0492
								1715	321.00	0.0581
								1717	341.00	0.0679
								1719	356.00	0.0783
								1721	392.00	0.0894
								1725	412.00	0.1133
								1729	441.00	0.1387
								1735	457.00	0.1789
								1745	483.00	0.2489
								1755	501.00	0.3221
								1805	508.00	0.3973
								1810	503.00	0.4349
								1815	497.00	0.4722
								1825	479.00	0.5448
								1835	441.50	0.6134
								1840	425.00	0.6456
								1845	402.00	0.6764
								1855	362.00	0.7332
								1905	322.50	0.7842
								1915	284.00	0.8294
								1925	242.50	0.8686
								1935	208.00	0.9022
								1945	181.00	0.9312
								1955	155.00	0.9562
								2005	133.50	0.9777
								2015	119.00	0.9965
								2025	103.00	1.0130
								2035	89.00	1.0273
								2045	76.50	1.0396
								2055	58.64	1.0497
								2105	53.27	1.0580
								2115	49.05	1.0656
								2125	45.36	1.0726
								2135	42.23	1.0791
								2145	38.94	1.0851
								2155	36.30	1.0907
								2205	34.02	1.0959
								2215	32.28	1.1008
								2225	30.53	1.1055
								2245	27.07	1.1141
								2305	24.36	1.1218
								2325	21.71	1.1287
								2345	19.61	1.1349

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED D								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)											
							4-12	2400	18.28	1.1391	
							4-13	25	16.01	1.1455	
								45	14.70	1.1501	
								105	13.25	1.1543	
								135	11.58	1.1598	
								205	10.28	1.1647	
								235	9.12	1.1690	
								305	8.32	1.1729	
								405	6.82	1.1797	
								505	5.62	1.1853	
								605	4.94	1.1900	
								705	4.22	1.1941	
								805	3.68	1.1976	
								905	3.18	1.2007	
								1030	2.66	1.2044	
								1204	2.23	1.2078	
								1304	2.01	1.2097	
								1404	1.81	1.2114	
								1504	1.61	1.2129	
								1604	1.42	1.2143	
								1704	1.22	1.2155	
								1804	1.07	1.2165	
								1904	0.95	1.2174	
								2004	0.87	1.2182	
								2104	0.79	1.2189	
								2204	0.74	1.2196	
								2304	0.66	1.2202	
								2400	0.61	1.2207	

NOTES: To convert runoff in CPS to IN/88, multiply by 0.000893.



RIESEL (WACO), TEXAS WATERSHED G

LOCATION: McLennan and Falls Counties, Texas; 16 mi. S.E. of Waco; Brazos River Basin.

AREA: 4380.00 acres 6.84 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED G	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	4.88	3.38	3.03	4.66	6.91	8.42	4.61	1.28	4.72	0.93	6.74	0.65	50.21
	O	3.236	1.592	1.886	1.809	2.660	4.159	1.277	0.0	0.078	0.0	1.043	0.400	18.139
STA AV	P	2.36	2.90	2.07	3.65	3.67	4.81	1.79	2.95	3.30	2.66	3.23	2.58	35.98
	O	0.774	0.793	0.568	0.732	0.913	1.104	0.202	0.206	0.380	0.206	0.571	0.541	6.890

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	6-2	0.375	6-2	0.341	6-2	0.581	6-2	1.218	5-10	1.633	6-2	1.777	6-2	2.156	5-10	2.412

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Rate	Date	Vol.	Date	Rate	Date	Rate	Date	Rate	Date	Rate	Date	Rate
	3-29	0.950	3-29	0.910	3-29	1.720	3-29	3.390	3-29	3.940	3-29	4.030	3-29	4.740
	1965		1965		1965		1965		1965		1965		1965	
													11-22	4.820
													1940	

NOTES: Watershed conditions: 36% pasture; 5% tilled, but not planted; 4% cotton; 5% corn; 4% fall planted small grain, largely oats; 5% sorghum; 2% gravel and paved roads; 39% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED G	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.24S	1.46	0.0	1.61	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.17	0.0	3.13	1.69	0.0	0.0	0.0	0.0	0.92		
3	0.20	0.0	0.0	0.42	1.07	0.42	0.0	0.0	0.40	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	1.04	0.0	0.0	0.0		
5	0.56	0.0	0.25	0.0	0.0	0.01E	0.0	0.0	0.06	0.04E	0.0	0.0		
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.11S	0.0	0.06E	0.0	0.33E	0.0	0.70	0.0	0.0	0.0	0.90	0.0		
9	0.0 S	0.0	0.0	0.12E	0.59	0.0	0.45	0.0	0.0	0.88	0.0	0.0		
10	0.0	0.0 E	0.94	0.0	2.35	0.0	0.23E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.39	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.00E	0.0	0.0	1.70	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.19		
13	0.0	0.03E	0.0	0.0	0.01E	0.0	0.76	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.59	0.0	0.0	0.0	0.0 E	0.02E	0.0	1.16	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	1.06	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.27	0.0	0.0	0.0	0.01E	0.0	0.0		
17	0.0	0.02E	0.0	0.0	1.36	0.0	0.0	0.0	1.26	0.0	0.0	0.0		
18	0.95	0.01	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.02E		
19	0.0	0.37	0.10E	0.44	0.0	0.0	0.76E	0.0	0.0	0.0	0.0	0.0		
20	0.24	0.0	0.21	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.07		
21	1.27	0.0	0.0	0.21	0.0	0.0	0.00E	0.0	0.10E	0.0	0.0	0.17		
22	0.0	0.12S	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.14		
23	0.01E	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.03E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.65	0.0	0.0	0.34	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.82	0.87	0.01E	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.83E	0.0	0.0	1.08	0.0		
27	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	1.22	0.05E		
28	0.09E	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	1.51	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	4.88	3.38	3.03	4.66	6.91	8.42	4.61	1.28	4.72	0.93	6.74	0.65		
STA AV	2.36	2.90	2.07	3.65	3.67	4.81	1.79	2.95	3.30	2.66	3.23	2.58		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 15 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS WATERSHED G					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.04	197.26	1.10	11.38	0.0	0.01	0.04	0.0	0.0	0.0	0.0	67.83
2	4.01	9.35	0.65	112.67	0.0	152.19	65.24	0.0	0.0	0.0	0.0	3.35
3	6.02	2.32	0.44	33.50	0.54	242.63	42.90	0.0	0.0	0.0	0.0	1.02
4	3.92	1.20	0.25	9.58	7.57	17.26	1.25	0.0	0.0	0.0	0.0	0.37
5	26.33	0.84	0.31	1.03	0.51	2.48	0.27	0.0	0.0	0.0	0.0	0.19
6	22.87	0.52	2.23	0.42	0.07	0.93	0.10	0.0	0.0	0.0	0.0	0.11
7	2.98	0.34	1.28	0.28	0.01	0.39	0.05	0.0	0.0	0.0	0.0	0.06
8	1.97	0.25	0.70	0.22	1.07	0.20	0.58	0.0	0.0	0.0	0.0	0.04
9	84.95	0.23	0.94	0.25	0.43	0.11	15.82	0.0	0.0	0.0	0.0	0.03
10	56.54	0.25	7.34	0.25	326.75	0.06	1.55	0.0	0.0	0.0	0.0	0.02
11	16.82	0.26	305.89	0.15	6.28	0.04	2.51	0.0	0.0	0.0	0.0	0.03
12	4.73	0.18	17.14	113.96	2.40	0.03	0.55	0.0	0.0	0.0	0.0	0.05
13	1.77	0.16	2.38	34.17	1.03	0.02	51.26	0.0	0.0	0.0	0.0	0.05
14	0.96	3.59	1.00	2.21	0.50	0.01	4.19	0.0	0.0	0.0	0.0	0.02
15	0.78	4.10	0.63	0.63	0.28	0.00	0.57	0.0	0.0	0.0	15.10	0.01
16	0.54	1.49	0.50	0.31	0.18	0.00	0.16	0.0	0.0	0.0	1.78	0.01
17	0.46	0.81	0.40	0.29	111.10	0.02	0.05	0.0	13.37	0.0	0.19	0.02
18	73.56	0.70	0.38	0.25	21.54	0.00	0.02	0.0	0.87	0.0	0.02	0.02
19	19.77	8.63	0.48	1.48	1.34	0.0 T	45.15	0.0	0.03	0.0	0.0 T	0.00
20	13.62	3.55	0.87	6.40	0.33	0.01	2.28	0.0	0.0	0.0	0.0	0.00
21	167.79	1.78	0.88	1.52	0.15	0.03	0.30	0.0	0.0	0.0	0.0	0.03
22	58.15	1.37	0.34	1.33	0.09	0.03	0.09	0.0	0.0	0.0	0.0	0.13
23	5.65	0.95	0.19	0.43	0.06	0.03	0.04	0.0	0.0	0.0	0.0	0.06
24	2.31	0.83	0.15	0.14	0.03	277.82	0.03	0.0	0.0	0.0	0.0	0.03
25	1.50	0.53	0.11	0.06	0.09	9.68	0.02	0.0	0.0	0.0	0.0	0.02
26	1.06	0.36	0.08	0.03	3.92	58.79	0.02	0.0	0.0	0.0	0.00	0.02
27	0.89	0.26	0.07	0.02	2.51	1.94	0.02	0.0	0.0	0.0	65.24	0.02
28	1.38	46.33	0.08	0.02	0.68	0.41	0.00	0.0	0.0	0.0	32.61	0.01
29	1.54	4.46	0.07	0.02	0.10	0.15	0.0 T	0.0	0.0	0.0	1.66	0.01
30	2.67		0.07	0.00	0.03	0.06	0.0	0.0	0.0	0.0	75.30	0.01
31	3.86		0.06		0.01		0.0	0.0	0.0	0.0		0.00
MEAN	19.207	10.099	11.194	11.099	15.793	25.510	7.582	0.0	0.475	0.0	6.397	2.373
INCHES	3.236	1.592	1.886	1.809	2.660	4.159	1.277	0.0	0.078	0.0	1.043	0.400
STA AV	0.774	0.793	0.568	0.732	0.813	1.104	0.202	0.206	0.380	0.206	0.571	0.541

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 15 yr period.

1968		SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED G					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 12 - 13, 1968										
4-12	RG 26-A 0.0	0.000	4-12	RG 26-A 1326	0.0	0.0	4-12	1330	0.10	0.0
				1332	0.3000	0.03		1345	0.12	0.0
				1338	0.3000	0.06		1400	0.16	0.0
				1343	0.2400	0.08		1415	0.20	0.0
				1348	0.6000	0.13		1430	0.23	0.0
WATERSHED CONDITIONS:										
	36% pasture, all classes;			1358	0.4200	0.20		1445	0.24	0.0
	9% tilled, but not planted;			1408	0.4200	0.27		1500	0.27	0.0
	5% corn, 2 to 4 inches high;			1418	0.1800	0.30		1515	0.30	0.0
	4% fall planted small grain,			1500	0.0429	0.33		1530	0.35	0.0
	mostly oats, 8 to 10 inches			1504	0.9000	0.39		1540	0.44	0.0
	high; 5% row grain sorghum,			1506	1.2000	0.43		1545	0.91	0.0
	1 to 2 inches high; 2%			1518	0.1500	0.46		1550	1.15	0.0
	gravel and paved roads; 3%			1528	0.1800	0.49		1555	1.45	0.0
	other. Approx. 90% of			1533	0.2400	0.51		1600	1.90	0.0
	other is Johnsongrass and			1538	0.6000	0.56		1605	2.88	0.0
	weeds in conservation re-									
	serve, neither tilled nor			1540	1.2000	0.60		1610	4.59	0.0001
	grazed.			1548	0.3000	0.64		1615	6.65	0.0002
				1558	0.1200	0.66		1620	8.19	0.0003
				1608	0.1200	0.68		1625	9.63	0.0005
				1614	0.3000	0.71		1630	11.50	0.0007
				1620	0.5000	0.76		1635	13.59	0.0009
				1622	2.7007	0.85		1640	17.71	0.0012
				1624	1.4997	0.90		1645	20.19	0.0016
				1628	0.7500	0.95		1650	26.02	0.0020
				1630	1.1997	0.99		1655	32.15	0.0025
				1632	3.3008	1.10		1700	46.51	0.0032
				1634	0.5999	1.12		1705	56.12	0.0042
				1638	1.3500	1.21		1710	84.00	0.0055
				1643	0.6000	1.26		1715	113.00	0.0074
				1646	2.5998	1.39		1720	146.00	0.0098
				1648	1.8004	1.45		1725	188.00	0.0129
				1650	4.4991	1.60		1730	216.00	0.0167
				1652	0.9002	1.63		1735	244.00	0.0210
				1658	0.1000	1.64		1740	263.00	0.0258
				1728	0.1800	1.73		1745	284.00	0.0310

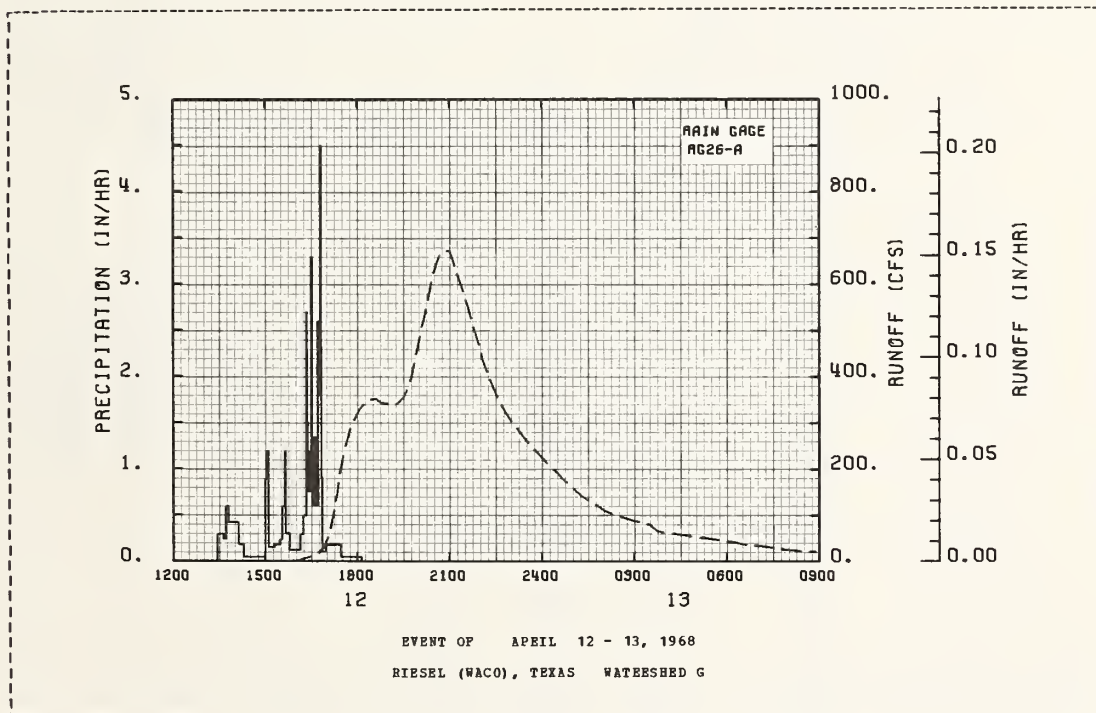
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.

1968			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED G		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)											
			1808		0.0450	1.76	4-12	1750	301.00	0.0365	
								1755	308.00	0.0422	
								1800	321.00	0.0481	
								1805	332.00	0.0543	
								1810	338.00	0.0606	
								1815	344.00	0.0670	
								1830	351.00	0.0867	
								1835	352.00	0.0933	
								1845	342.00	0.1064	
								1900	339.00	0.1257	
								1915	338.00	0.1449	
								1930	356.00	0.1645	
								1935	367.00	0.1713	
								1940	383.00	0.1784	
								1945	396.00	0.1858	
								1950	422.00	0.1935	
								1955	446.00	0.2017	
								2000	474.00	0.2104	
								2005	502.00	0.2196	
								2010	524.00	0.2293	
								2015	554.00	0.2395	
								2020	580.00	0.2502	
								2025	608.00	0.2614	
								2030	628.00	0.2731	
								2035	646.00	0.2851	
								2040	662.00	0.2974	
								2045	670.00	0.3100	
								2100	672.00	0.3480	
								2115	620.00	0.3846	
								2130	572.00	0.4183	
								2145	512.00	0.4490	
								2155	476.00	0.4676	
								2205	434.00	0.4848	
								2215	402.00	0.5006	
								2225	376.00	0.5153	
								2235	350.00	0.5290	
								2245	328.00	0.5418	
								2300	303.00	0.5597	
								2315	281.00	0.5762	
								2330	259.00	0.5915	
								2345	241.00	0.6057	
								2400	223.00	0.6188	
							4-13	15	205.00	0.6309	
								30	190.00	0.6421	
								45	172.00	0.6523	
								100	157.00	0.6616	
								115	142.00	0.6701	
								130	131.00	0.6778	
								145	121.00	0.6849	
								200	110.00	0.6914	
								215	101.00	0.6974	
								230	96.00	0.7030	
								245	91.00	0.7083	
								300	86.00	0.7133	
								315	82.00	0.7181	
								330	78.00	0.7226	
								345	63.93	0.7266	
								400	60.85	0.7301	
								415	58.93	0.7335	
								430	56.98	0.7368	
								445	53.57	0.7399	
								500	51.64	0.7429	
								515	49.54	0.7458	
								530	47.37	0.7485	
								545	44.67	0.7511	
								600	42.40	0.7536	
								615	39.67	0.7559	
								630	36.49	0.7581	
								645	34.45	0.7601	
								700	32.40	0.7620	
								715	30.57	0.7638	
								730	28.01	0.7655	
								738	25.54	0.7663	
								753	24.17	0.7677	
								808	22.69	0.7690	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0002264.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED G								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APEIL 12 - 13, 1968 (CONTINOED)											
							4-13	823	21.49	0.7703	
								853	19.78	0.7726	
								923	18.61	0.7748	
								953	17.43	0.7768	
								1023	16.62	0.7787	
								1053	15.16	0.7805	
								1123	14.47	0.7822	
								1153	13.70	0.7838	
								1225	12.99	0.7854	
								1255	12.21	0.7868	
								1325	11.59	0.7881	
								1355	10.97	0.7894	
								1425	10.34	0.7906	
								1455	9.74	0.7917	
								1555	8.69	0.7938	
								1655	7.75	0.7957	
								1755	6.89	0.7974	
								1925	5.88	0.7996	
								2055	5.06	0.8015	
								2225	4.44	0.8031	
								2400	3.93	0.8046	

NOTES: To convert rnnoff in CPS to IN/HR, multiply by 0.0002264.



RIESEL (WACO), TEXAS WATERSHED W-1

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 176.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 5.10 0 2.470	3.31 1.229	3.27 2.073	4.07 0.947	6.62 2.513	8.33 3.865	4.72 1.146	0.91 0.006	3.06 0.011	0.86 0.003	5.91 0.348	0.64 0.133	46.80 14.745	
STA AV	P 2.33 0 0.525	2.73 0.620	2.51 0.657	4.03 1.056	4.42 1.291	3.49 0.657	1.59 0.124	2.09 0.097	2.51 0.146	2.50 0.184	3.05 0.408	2.54 0.449	33.78 6.214	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	6-2	1.083	6-2	0.803	6-2	1.025	5-10	1.293	3-10	1.718	3-10	1.872	6-2	1.923	5-9	2.239

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
5-1 1944	4.510	5-1 1944	2.990	5-1 1944	5.570	5-1 1944	6.910	5-1 1944	6.920	5-1 1944	7.050	4-30 1944	9.200	4-29 1944	11.06

NOTES: Watershed conditions: 38% cotton; 17% fall planted oats; 14% row grain sorghum; 27% pasture; 3% roads; and 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve; but neither tilled nor grazed. Straight row cultivation without terraces. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, OSDA Misc. Pub. 1164, p. 42.6-6 (Revised). Precipitation and runoff records began July 1937. Precipitation data from Thiessen method using rain gages 75A, 89, W-2, W-2A, and W-5A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.19S	1.30	0.0	1.44	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.11	0.0	2.87	1.05	0.0	0.0	0.0	0.56	0.02E		
3	0.16	0.0	0.0	0.28	0.56	0.52	0.0	0.0	0.1R	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.73	0.0	0.0	0.0		
5	0.87	0.0	0.26	0.0	0.0	0.10E	0.0	0.0	0.06	0.01E	0.0	0.0		
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.02S	0.0	0.09E	0.0	0.65	0.0	0.68	0.0	0.0	0.0	0.84	0.0		
9	0.0 S	0.0	0.0	0.11E	0.64	0.0	1.32	0.0	0.0	0.81	0.0	0.0		
10	0.0	0.0 E	1.36	0.0	2.15	0.0	0.02E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.28	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.52	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.21		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.01	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.69	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.15	0.0	0.0	0.0	0.04E	0.0	0.0		
17	0.0	0.01E	0.0	0.0	1.49	0.0	0.0	0.0	0.45	0.0	0.0	0.0		
18	0.45	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E		
19	0.0	0.40	0.06E	0.32	0.0	0.0	1.51	0.0	0.0	0.0	0.0	0.0		
20	0.27	0.0	0.16	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.08E		
21	1.30	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.08F	0.0	0.0	0.17		
22	0.0	0.10S	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0	0.13		
23	0.01E	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0 E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.51	0.0	0.0	0.26	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.81	1.11	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.04E	0.0	0.0	1.13	0.0		
27	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	1.20	0.04E		
28	0.11E	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	1.47	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.10	3.31	3.27	4.07	6.62	8.33	4.72	0.91	3.06	0.86	5.91	0.64		
STA AV	2.33	2.73	2.51	4.03	4.42	3.49	1.59	2.09	2.51	2.50	3.05	2.54		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A, 89, W-2, W-2A, and W-5A. Records began July 1937. STA AV based on 30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS					WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.082	6.109	0.033	0.660	0.010	0.011	0.005	0.002	0.001	0.0 T	0.0 T	0.440	
2	0.035	0.114	0.038	1.170	0.010	10.686	0.566	0.001	0.001	0.0 T	0.003	0.045	
3	0.065	0.054	0.029	0.460	0.028	3.588	0.095	0.001	0.006	0.0 T	0.001	0.018	
4	0.030	0.040	0.026	0.073	0.023	0.208	0.009	0.011	0.012	0.0 T	0.0 T	0.014	
5	1.352	0.034	0.058	0.022	0.010	0.116	0.006	0.006	0.008	0.0 T	0.0 T	0.015	
6	0.327	0.026	0.155	0.021	0.007	0.070	0.005	0.002	0.002	0.001	0.0 T	0.016	
7	0.020	0.018	0.056	0.022	0.008	0.026	0.005	0.002	0.0 T	0.0 T	0.0 T	0.014	
8	0.002	0.019	0.046	0.024	0.094	0.021	0.049	0.001	0.001	0.0 T	0.007	0.016	
9	1.923	0.022	0.086	0.033	0.107	0.018	4.667	0.001	0.0 T	0.013	0.001	0.017	
10	1.881	0.026	3.535	0.025	10.511	0.015	0.043	0.001	0.0 T	0.002	0.001	0.018	
11	0.479	0.024	10.430	0.018	0.217	0.012	0.019	0.001	0.0 T	0.001	0.0 T	0.020	
12	0.127	0.020	0.257	3.507	0.105	0.011	0.018	0.004	0.0 T	0.001	0.0 T	0.028	
13	0.044	0.021	0.051	0.193	0.065	0.010	0.024	0.002	0.0 T	0.001	0.0 T	0.015	
14	0.030	0.330	0.038	0.033	0.037	0.008	0.013	0.001	0.020	0.0 T	0.0 T	0.013	
15	0.028	0.045	0.035	0.019	0.031	0.007	0.010	0.001	0.015	0.0 T	0.007	0.014	
16	0.023	0.047	0.037	0.028	0.030	0.009	0.008	0.0 T	0.002	0.0 T	0.001	0.016	
17	0.025	0.046	0.033	0.029	5.830	0.009	0.006	0.0 T	0.008	0.0 T	0.0 T	0.017	
18	1.977	0.051	0.038	0.030	0.148	0.008	0.006	0.0 T	0.001	0.0 T	0.0 T	0.017	
19	0.315	0.428	0.048	0.163	0.026	0.008	2.813	0.0 T	0.0 T	0.0 T	0.0 T	0.014	
20	0.795	0.081	0.071	0.077	0.021	0.026	0.045	0.0 T	0.0 T	0.0 T	0.0 T	0.017	
21	7.148	0.077	0.030	0.206	0.020	0.014	0.014	0.0 T	0.0 T	0.0 T	0.0 T	0.027	
22	0.734	0.057	0.023	0.062	0.019	0.020	0.009	0.0 T	0.0 T	0.0 T	0.001	0.029	
23	0.107	0.067	0.025	0.023	0.016	0.022	0.007	0.0 T	0.0 T	0.0 T	0.001	0.015	
24	0.059	0.059	0.024	0.017	0.014	9.427	0.006	0.0 T	0.004	0.0 T	0.0 T	0.014	
25	0.048	0.043	0.022	0.015	0.455	2.411	0.005	0.0 T	0.002	0.0 T	0.0 T	0.016	
26	0.040	0.031	0.017	0.016	0.578	1.776	0.006	0.0 T	0.0 T	0.0 T	0.018	0.018	
27	0.045	0.026	0.016	0.016	0.101	0.021	0.005	0.001	0.0 T	0.0 T	0.143	0.019	
28	0.094	1.065	0.017	0.018	0.024	0.011	0.004	0.0 T	0.0 T	0.0 T	0.084	0.015	
29	0.082	0.059	0.017	0.015	0.012	0.008	0.004	0.0 T	0.0 T	0.0 T	0.007	0.016	
30	0.203		0.018	0.010	0.011	0.006	0.004	0.003	0.0 T	0.0 T	2.298	0.016	
31	0.144		0.017		0.011		0.002	0.004		0.0 T		0.011	
MEAN	0.5891	0.3135	0.4944	0.2335	0.5993	0.9527	0.2734	0.0015	0.0028	0.0006	0.0859	0.0317	
INCHES	2.470	1.229	2.073	0.947	2.513	3.865	1.146	0.006	0.011	0.003	0.348	0.133	
STA AV	0.525	0.620	0.657	1.056	1.291	0.657	0.124	0.097	0.146	0.184	0.408	0.449	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.135236. Records began July 1937. STA AV based on 30 yr period.

1968		SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED W-1	
ANTECEDENT CONOITIONS		RAINFALL					RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF APRIL 12 - 13, 1968													
4-12	RG W-2 0.0	0.001	4-12	RG W-2	0.0	0.0	4-12	1330	0.02	0.0			
					1323			1335	0.03	0.0			
					1329	0.5000	0.05	1340	0.04	0.0			
					1339	0.3600	0.11	1350	0.06	0.0			
					1345	0.4000	0.15	1400	0.07	0.0001			
					1349	0.6000	0.19	1405	0.09	0.0001			
					1359	0.3000	0.24	1410	0.10	0.0001			
					1409	0.3600	0.30	1420	0.11	0.0002			
					1419	0.1800	0.33	1436	0.11	0.0004			
					1449	0.0200	0.34	1438	0.11	0.0004			
					1509	0.0600	0.36	1440	0.13	0.0004			
					1515	0.0	0.36	1442	0.16	0.0004			
					1519	0.3000	0.38	1445	0.19	0.0004			
					1524	0.2400	0.40	1450	0.21	0.0005			
					1529	0.2400	0.42	1510	0.21	0.0009			
					1533	0.4500	0.45	1519	0.21	0.0011			
					1537	2.2500	0.60	1522	0.25	0.0012			
					1539	1.5000	0.65	1527	0.25	0.0013			
					1544	0.3600	0.68	1530	0.28	0.0014			
					1549	0.2400	0.70	1533	0.32	0.0015			
					1554	0.2400	0.72	1536	0.37	0.0016			
					1559	0.1200	0.73	1537	0.42	0.0016			
					1604	0.1200	0.74	1538	0.52	0.0016			
					1609	0.2400	0.76	1539	0.65	0.0017			
					1614	0.6000	0.81	1540	0.74	0.0018			
					1619	0.3600	0.84	1541	0.81	0.0019			
					1623	0.4500	0.87	1543	0.87	0.0021			
					1625	0.3001	0.88	1545	0.97	0.0023			
					1629	1.0500	0.95	1548	1.09	0.0026			
					1631	2.0996	1.02	1551	1.17	0.0029			
					1639	0.5250	1.09	1555	1.71	0.0034			
					1643	0.4500	1.12	1601	2.14	0.0045			
					1645	1.1997	1.16	1606	2.67	0.0056			
					1647	3.6009	1.28	1608	3.04	0.0061			
					1649	3.2993	1.39	1610	3.81	0.0067			
					1651	0.9002	1.42						

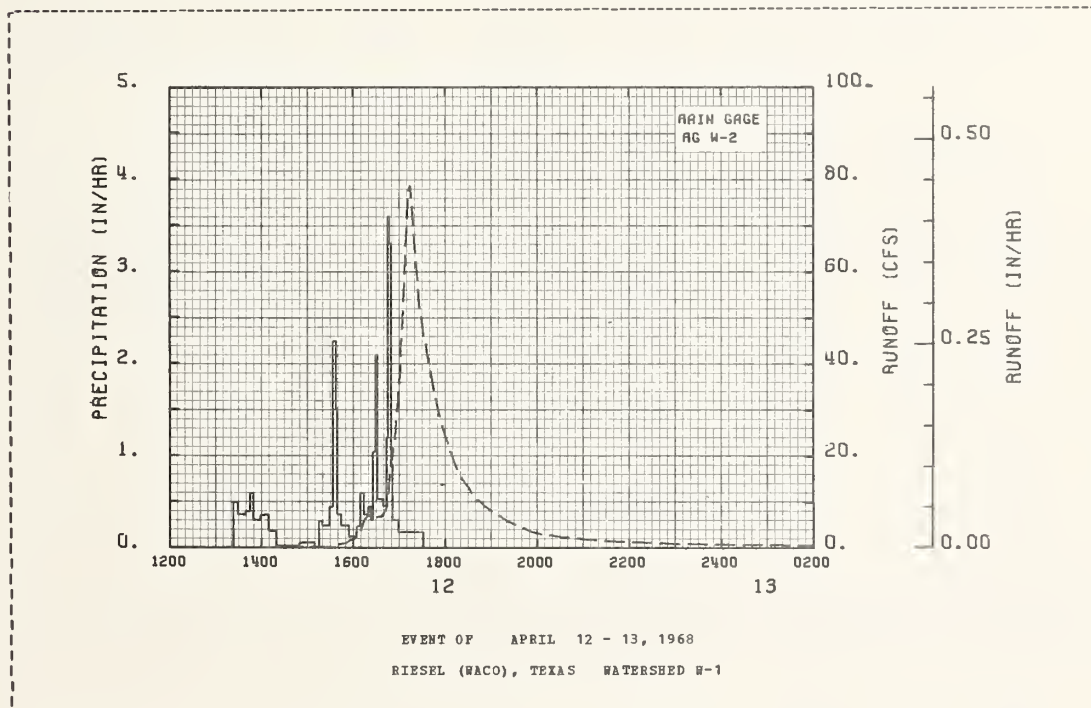
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
4-12			1659		0.3000	1.46	4-12	1611	4.46	0.0071
			1731		0.1687	1.55		1612	5.14	0.0076
								1614	6.03	0.0086
								1616	6.57	0.0098
								1618	7.00	0.0111
								1621	7.09	0.0131
								1626	7.13	0.0164
								1628	6.74	0.0177
								1631	6.74	0.0196
								1636	6.79	0.0228
								1639	7.44	0.0248
								1641	7.99	0.0262
								1643	8.69	0.0278
								1644	9.36	0.0286
								1645	10.70	0.0296
								1646	12.77	0.0307
								1647	14.96	0.0320
								1648	16.43	0.0335
								1649	17.89	0.0351
								1650	18.89	0.0368
								1651	19.85	0.0386
								1652	21.15	0.0405
								1653	22.75	0.0426
								1654	23.91	0.0448
								1655	25.65	0.0471
								1656	27.66	0.0496
								1657	29.95	0.0523
								1658	32.15	0.0552
								1659	34.01	0.0583
								1700	36.16	0.0616
								1701	38.92	0.0651
								1702	43.65	0.0690
								1703	45.91	0.0732
								1704	50.10	0.0778
								1706	55.64	0.0877
								1707	59.56	0.0931
								1708	63.37	0.0989
								1709	67.17	0.1050
								1710	70.84	0.1115
								1711	75.22	0.1183
								1712	77.02	0.1255
								1714	78.72	0.1401
								1715	77.98	0.1475
								1716	75.32	0.1547
								1718	70.12	0.1683
								1720	66.26	0.1812
								1722	61.30	0.1931
								1724	57.54	0.2043
								1726	52.57	0.2146
								1728	50.64	0.2243
								1730	48.39	0.2336
								1732	45.99	0.2424
								1735	43.82	0.2551
								1738	40.59	0.2670
								1741	38.10	0.2780
								1744	35.28	0.2883
								1747	32.46	0.2979
								1750	30.40	0.3068
								1753	28.39	0.3151
								1756	26.44	0.3228
								1759	24.81	0.3300
								1802	23.36	0.3368
								1805	21.88	0.3432
								1808	20.49	0.3492
								1811	18.89	0.3547
								1816	16.79	0.3631
								1821	15.19	0.3706
								1826	13.93	0.3774
								1831	12.93	0.3837
								1836	11.32	0.3894
								1841	10.30	0.3945
								1846	9.90	0.3993
								1851	9.02	0.4037
								1901	7.85	0.4116
								1911	6.87	0.4185

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
							4-12	1921	5.74	0.4244
								1931	5.03	0.4295
								1941	4.35	0.4339
								1951	3.54	0.4376
								2001	3.01	0.4407
								2010	2.85	0.4432
								2025	2.45	0.4469
								2040	2.18	0.4502
								2100	1.85	0.4540
								2130	1.44	0.4586
								2200	1.28	0.4624
								2230	1.06	0.4657
								2300	0.84	0.4684
								2330	0.78	0.4707
								2400	0.68	0.4728
							4-13	100	0.56	0.4763
								200	0.46	0.4792
								300	0.38	0.4816
								400	0.34	0.4836
								500	0.30	0.4854
								600	0.27	0.4870
								900	0.21	0.4911
								1200	0.15	0.4941
								1300	0.12	0.4949
								1400	0.11	0.4955
								1500	0.09	0.4960
								1600	0.08	0.4965
								1700	0.06	0.4969
								1800	0.06	0.4972
								2000	0.05	0.4978
								2400	0.04	0.4988

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.005635.



RIESEL (WACO), TEXAS WATERSHED W-2

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 130.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	5.18	3.20	3.18	3.96	6.34	7.67	3.49	0.94	2.98	0.83	5.95	0.58	44.30
	O	3.048	1.768	2.458	1.433	2.494	3.454	0.871	0.113	0.087	0.029	0.461	0.308	16.524
STA AV	P	2.29	2.71	2.44	4.03	4.37	3.43	1.55	2.16	2.53	2.48	3.01	2.52	33.50
	O	0.611	0.734	0.747	1.072	1.300	0.615	0.125	0.062	0.119	0.165	0.412	0.552	6.514

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
1968	6-24	0.851	6-24	0.681	6-24	0.963	6-24	1.220	3-10	1.673	3-10	1.879	3-10	1.944	5-10	2.099

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	5-1	4.830	5-1	2.860	5-1	5.400	5-1	6.910	5-1	6.970	5-1	7.120	4-30	9.260	4-29	10.96
	1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 56% pasture; 18% row grain sorghum; 17% fall planted small grain, largely oats; 5% gravel and paved roads; 4% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. Cropland farmed on contour, not terraced. Modified conservation applied 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges W-2, W-4, W-5A, and W-6. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-2	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1		0.25S	1.32	0.0	1.35	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
2		0.0	0.0	0.0	0.10	0.0	2.25	0.47	0.0	0.0	0.0	0.57	0.02P	
3		0.17	0.0	0.0	0.26	0.44	0.51	0.0	0.0	0.16	0.0	0.0	0.0	
4		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.70	0.0	0.0	0.0	
5		0.95	0.0	0.26	0.0	0.0	0.13E	0.0	0.0	0.06	0.01E	0.0	0.0	
6		0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8		1.09S	0.0	0.10E	0.0	0.56	0.0	0.64	0.0	0.0	0.0	0.81	0.0	
9		0.0S	0.0	0.0	0.10E	0.59	0.0	1.39	0.0	0.0	0.75	0.0	0.0	
10		0.0	0.0E	1.23	0.0	2.04	0.0	0.01F	0.0	0.0	0.0	0.0	0.0	
11		0.01E	0.0	1.32	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12		0.0E	0.0	0.0	1.49	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.17	
13		0.0	0.04E	0.0	0.0	0.02E	0.0	0.13	0.0	0.0	0.0	0.0	0.0	
14		0.0	0.60	0.0	0.0	0.0	0.0E	0.0	0.0	0.99	0.0	0.0	0.0	
15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.71	0.0	
16		0.0	0.0	0.0	0.0	0.02E	0.11F	0.0	0.0	0.0	0.06P	0.0	0.0	
17		0.0	0.0E	0.0	0.0	1.55	0.0	0.0	0.0	0.33	0.0	0.0	0.0	
18		0.96	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0E	
19		0.0	0.41	0.05E	0.31	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.0	
20		0.26	0.0	0.16	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.05E	
21		1.79	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.17	
22		0.0	0.10S	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.15	
23		0.01E	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0P	0.0	
24		0.0	0.0	0.0	0.0	0.0	2.38	0.0	0.0	0.35	0.0	0.0	0.0	
25		0.0	0.0	0.0	0.0	0.85	1.17	0.0	0.0	0.0	0.0	0.0	0.0	
26		0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.04E	0.0	0.0	1.15	0.0	
27		0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	1.21	0.03P	
28		0.11	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	
29		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30		0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	1.49	0.0	
31		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		5.18	3.20	3.18	3.96	6.34	7.67	3.49	0.94	2.98	0.83	5.95	0.58	
STA AV		2.29	2.71	2.44	4.03	4.37	3.43	1.55	2.16	2.53	2.48	3.01	2.52	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges W-2, W-4, W-5A, and W-6. Records began July 1937. STA AV based on 30 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RTESEL (WACO), TEXAS					WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.163	4.671	0.091	0.864	0.049	0.061	0.072	0.034	0.012	0.008	0.0	0.283	
2	0.088	0.164	0.100	1.413	0.049	3.874	0.111	0.032	0.010	0.005	0.006	0.056	
3	0.130	0.111	0.092	0.275	0.068	2.720	0.085	0.032	0.023	0.005	0.009	0.047	
4	0.091	0.103	0.088	0.105	0.053	0.243	0.069	0.053	0.037	0.003	0.005	0.048	
5	1.545	0.100	0.112	0.079	0.042	0.146	0.067	0.042	0.032	0.004	0.007	0.050	
6	0.284	0.094	0.222	0.082	0.034	0.124	0.068	0.031	0.014	0.010	0.007	0.051	
7	0.053	0.082	0.102	0.083	0.039	0.090	0.068	0.025	0.012	0.008	0.003	0.047	
8	0.046	0.087	0.095	0.089	0.085	0.086	0.136	0.024	0.011	0.008	0.036	0.047	
9	2.457	0.092	0.131	0.096	0.095	0.080	2.459	0.021	0.009	0.040	0.017	0.051	
10	0.855	0.105	2.124	0.082	6.752	0.074	0.098	0.020	0.006	0.013	0.010	0.051	
11	0.256	0.103	8.311	0.073	0.136	0.070	0.091	0.021	0.006	0.010	0.007	0.052	
12	0.146	0.095	0.316	2.790	0.104	0.063	0.095	0.029	0.007	0.008	0.002	0.059	
13	0.102	0.094	0.105	0.282	0.092	0.065	0.095	0.024	0.008	0.007	0.003	0.046	
14	0.099	0.517	0.099	0.096	0.082	0.060	0.077	0.020	0.056	0.006	0.005	0.043	
15	0.096	0.174	0.098	0.085	0.079	0.062	0.072	0.016	0.045	0.005	0.033	0.045	
16	0.093	0.116	0.095	0.093	0.079	0.068	0.072	0.012	0.015	0.004	0.009	0.046	
17	0.093	0.112	0.095	0.093	4.393	0.068	0.070	0.012	0.028	0.005	0.006	0.048	
18	1.805	0.117	0.102	0.093	0.194	0.060	0.068	0.013	0.012	0.002	0.005	0.044	
19	0.261	0.507	0.105	0.131	0.084	0.055	0.228	0.012	0.010	0.001	0.005	0.038	
20	0.452	0.152	0.117	0.103	0.074	0.094	0.087	0.010	0.010	0.002	0.004	0.044	
21	5.475	0.141	0.085	0.230	0.080	0.065	0.073	0.010	0.012	0.002	0.004	0.060	
22	0.750	0.123	0.080	0.100	0.077	0.076	0.064	0.010	0.014	0.002	0.004	0.061	
23	0.195	0.134	0.083	0.072	0.070	0.075	0.059	0.010	0.011	0.001	0.003	0.038	
24	0.123	0.119	0.081	0.069	0.069	7.048	0.054	0.010	0.021	0.001	0.002	0.038	
25	0.115	0.112	0.078	0.060	0.115	1.578	0.051	0.011	0.016	0.0	0.001	0.039	
26	0.107	0.106	0.068	0.063	0.245	1.540	0.052	0.014	0.009	0.0	0.044	0.043	
27	0.109	0.087	0.068	0.060	0.105	0.009	0.050	0.013	0.007	0.0	0.404	0.045	
28	0.157	1.133	0.070	0.064	0.074	0.050	0.046	0.008	0.007	0.0	0.082	0.037	
29	0.135	0.110	0.070	0.052	0.065	0.075	0.046	0.008	0.007	0.0	0.019	0.037	
30	0.206	0.074	0.051	0.064	0.072	0.041	0.025	0.007	0.0	0.0	1.775	0.046	
31	0.161	0.071	0.063	0.063	0.063	0.034	0.020	0.0	0.0	0.0	0.0	0.044	
MEAN	0.5370	0.3331	0.4331	0.2609	0.4355	0.6288	0.1534	0.0200	0.0158	0.0051	0.0839	0.0542	
INCHES	3.048	1.768	2.458	1.433	2.494	3.454	0.871	0.113	0.087	0.029	0.461	0.308	
STA AV	0.511	0.734	0.747	1.072	1.300	0.615	0.125	0.062	0.119	0.165	0.412	0.552	

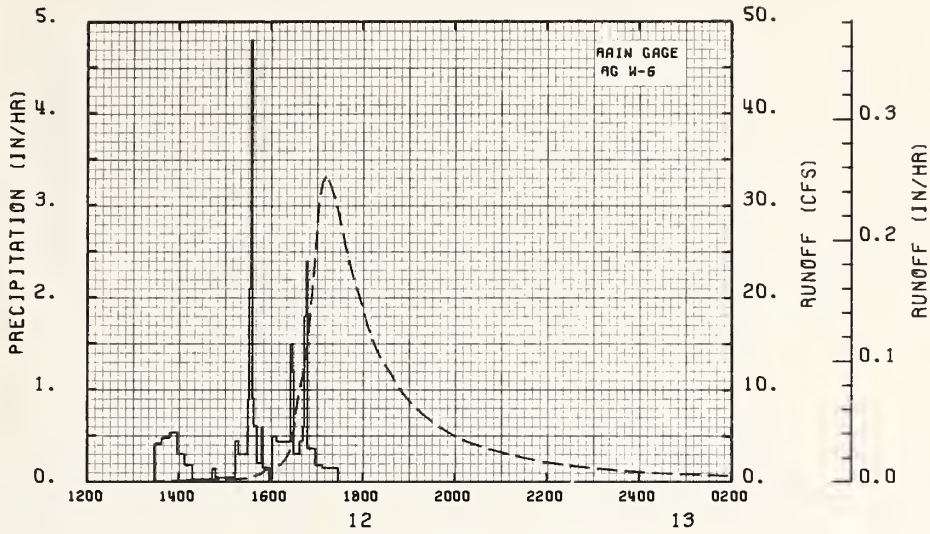
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.183088. Records began July 1937. STA AV based on 30 yr period.

1968		SELECTED RUNOFF EVENT				RTESEL (WACO), TEXAS				WATERSHED W-2	
ANTICIPATED CONDITIONS		RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968											
4-12	RG W-6 3.048 0.0	0.008	4-12	RG W-6 1328	0.0	0.0	4-12	1328	0.09	0.0	
				1338	0.4200	0.07		1338	0.11	0.0001	
				1348	0.4800	0.15		1348	0.12	0.0002	
				1358	0.5400	0.24		1353	0.15	0.0003	
				1408	0.3000	0.29		1358	0.17	0.0004	
WATERSHED CONDITIONS:											
				1418	0.1800	0.32		1403	0.19	0.0005	
				1444	0.0231	0.33		1408	0.22	0.0006	
				1448	0.1500	0.34		1418	0.25	0.0009	
				1514	0.0462	0.36		1428	0.28	0.0012	
				1518	0.4500	0.39		1438	0.29	0.0016	
				1530	0.3000	0.45		1448	0.31	0.0020	
				1532	0.9000	0.48		1458	0.22	0.0024	
				1534	2.1000	0.55		1508	0.33	0.0028	
				1536	4.8001	0.71		1518	0.36	0.0032	
				1538	0.9000	0.74		1523	0.39	0.0034	
				1542	0.6000	0.78		1528	0.42	0.0037	
				1548	0.2000	0.80		1533	0.45	0.0040	
				1550	0.6000	0.82		1535	0.49	0.0041	
				1558	0.1500	0.84		1537	0.55	0.0042	
				1602	0.0	0.84		1538	0.64	0.0043	
				1608	0.5000	0.89		1540	0.70	0.0045	
				1626	0.4334	1.02		1543	0.78	0.0048	
				1628	1.4997	1.07		1545	0.82	0.0050	
				1630	1.1997	1.11		1547	0.92	0.0052	
				1638	0.3000	1.15		1549	1.10	0.0055	
				1642	0.4500	1.18		1553	1.34	0.0061	
				1644	0.6001	1.20		1558	1.47	0.0070	
				1646	1.7996	1.26		1603	1.52	0.0080	
				1648	2.4006	1.34		1608	1.71	0.0090	
				1658	0.3600	1.40		1613	1.97	0.0102	
				1708	0.1800	1.43		1618	2.38	0.0116	
				1728	0.1500	1.48		1623	3.05	0.0133	
								1625	3.44	0.0141	
								1628	4.66	0.0156	
								1631	6.32	0.0177	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007629.

1968 SELECTED RUNOFF EVENT			BIESPL (WACO), TEXAS WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
							4-12	1633	7.78	0.0195
								1636	9.47	0.0228
								1638	10.24	0.0253
								1643	12.14	0.0324
								1648	15.07	0.0410
								1653	19.42	0.0520
								1658	24.71	0.0660
								1703	30.15	0.0834
								1708	32.58	0.1034
								1713	33.34	0.1243
								1718	32.20	0.1451
								1723	31.02	0.1652
								1728	29.37	0.1844
								1738	25.46	0.2193
								1748	22.11	0.2495
								1758	19.42	0.2759
								1808	16.56	0.2988
								1818	14.32	0.3184
								1828	12.72	0.3356
								1838	11.53	0.3510
								1848	10.05	0.3647
								1858	8.95	0.3768
								1918	7.32	0.3975
								1938	6.00	0.4194
								1958	4.99	0.4284
								2018	4.23	0.4401
								2038	3.67	0.4501
								2058	3.21	0.4588
								2128	2.61	0.4699
								2158	2.11	0.4789
								2228	1.74	0.4862
								2258	1.47	0.4923
								2328	1.24	0.4975
								2400	1.04	0.5022
							4-13	28	0.88	0.5056
								58	0.79	0.5089
								128	0.72	0.5117
								158	0.65	0.5143
								258	0.55	0.5189
								358	0.48	0.5228
								458	0.42	0.5262
								558	0.37	0.5292
								658	0.33	0.5319
								900	0.28	0.5366
								1200	0.20	0.5420
								1300	0.18	0.5434
								1400	0.16	0.5447
								1500	0.15	0.5459
								1600	0.12	0.5469

NOTE: To convert runoff in CFS to IN/HR, multiply by 0.007629.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED W-2

RIESEL (WACO), TEXAS WATERSHED W-6

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 42.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 5.07	3.26	3.24	3.92	6.28	7.37	3.72	0.91	2.84	0.80	5.93	0.56	43.90	
	O 1.845	1.122	1.741	0.569	1.48.	2.344	0.465	0.013	0.0	0.0	0.061	0.012	9.655	
STA AV	P 2.14	2.64	2.30	4.09	4.10	3.60	1.48	2.23	2.66	2.64	3.05	2.34	33.26	
	O 0.350	0.409	0.461	0.762	0.865	0.513	0.076	0.029	0.096	0.115	0.310	0.327	4.314	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	6-24	0.777	6-24	0.531	6-24	0.718	6-24	0.876	3-10	1.375	3-10	1.534	3-10	1.568	3-4	1.627

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
6-10	3.990	4-19	2.330	4-19	2.780	5-11	3.130	5-11	3.210	3-29	4.060	11-22	5.090	4-19	9.060
1941		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 41% row grain sorghum; 24% fall planted small grain, largely oats; 15% pasture; 7% gravel and paved roads; 13% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Cropland farmed on contour, no terraces. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4, and W-5A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED W-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.255	1.39	0.0	1.31	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.08	0.0	2.15	0.60	0.0	0.0	0.0	0.57	0.01E		
3	0.15	0.0	0.0	0.2R	0.43	0.50	0.0	0.0	0.14	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.66	0.0	0.0	0.0		
5	0.87	0.0	0.27	0.0	0.0	0.11E	0.0	0.0	0.06	0.02E	0.0	0.0		
6	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.02S	0.0	0.09E	0.0	0.54	0.0	0.70	0.0	0.0	0.0	0.80	0.0		
9	0.0 S	0.0	0.0	0.09F	0.64	0.0	1.37	0.0	0.0	0.73	0.0	0.0		
10	0.0	0.0 E	1.45	0.0	1.98	0.0	0.01E	0.0	0.0	0.0	0.0	0.0		
11	0.00E	0.0	1.17	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.51	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.20		
13	0.0	0.03E	0.0	0.0	0.01E	0.0	0.14	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.59	0.0	0.0	0.0	0.0 E	0.0	0.0	0.95	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.69	0.0		
16	0.0	0.0	0.0	0.0	0.01E	0.12	0.0	0.0	0.0	0.05E	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.57	0.0	0.0	0.0	0.37	0.0	0.0	0.0		
18	0.96	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E		
19	0.0	0.41	0.03E	0.32	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0		
20	0.27	0.0	0.17	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.05E		
21	1.24	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13		
22	0.0	0.10S	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.14		
23	0.01E	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0 Z	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.30	0.0	0.0	0.30	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.84	1.14	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.05E	0.0	0.0	1.14	0.0		
27	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	1.24	0.02E		
28	0.11	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	1.4R	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.07	3.26	3.24	3.92	6.28	7.37	3.72	0.91	2.84	0.80	5.93	0.56		
STA AV	2.14	2.64	2.30	4.09	4.10	3.60	1.48	2.23	2.66	2.64	3.05	2.34		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, and W-5A. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.007	1.266	0.011	0.151	0.003	0.005	0.009	0.001	0.0	0.0	0.0	0.015
2	0.002	0.036	0.015	0.126	0.002	0.862	0.012	0.001	0.0	0.0	0.0	0.001
3	0.002	0.023	0.012	0.038	0.004	0.653	0.007	0.002	0.0	0.0	0.0	0.001
4	0.001	0.018	0.013	0.007	0.003	0.038	0.005	0.002	0.0	0.0	0.0	0.0 T
5	0.165	0.014	0.020	0.006	0.003	0.021	0.005	0.002	0.0	0.0	0.0	0.0 T
6	0.025	0.011	0.029	0.007	0.002	0.014	0.007	0.001	0.0	0.0	0.0	0.0 T
7	0.001	0.007	0.016	0.008	0.002	0.008	0.007	0.001	0.0	0.0	0.0	0.001
8	0.0 T	0.007	0.018	0.008	0.005	0.007	0.014	0.001	0.0	0.0	0.0	0.0 T
9	0.299	0.008	0.023	0.009	0.006	0.007	0.537	0.001	0.0	0.0	0.0	0.0 T
10	0.139	0.012	0.655	0.007	1.351	0.007	0.009	0.002	0.0	0.0	0.0	0.0 T
11	0.065	0.012	2.107	0.006	0.023	0.004	0.008	0.002	0.0	0.0	0.0	0.0 T
12	0.021	0.012	0.052	0.454	0.016	0.004	0.009	0.004	0.0	0.0	0.0	0.0 T
13	0.012	0.011	0.013	0.031	0.013	0.004	0.013	0.002	0.0	0.0	0.0	0.0 T
14	0.011	0.075	0.010	0.012	0.009	0.004	0.012	0.001	0.0	0.0	0.0	0.0 T
15	0.008	0.023	0.009	0.011	0.007	0.005	0.013	0.001	0.0	0.0	0.0	0.0 T
16	0.007	0.016	0.009	0.011	0.007	0.006	0.013	0.0 T	0.0	0.0	0.0	0.0 T
17	0.005	0.017	0.008	0.011	1.038	0.005	0.012	0.0	0.0	0.0	0.0	0.0 T
18	0.270	0.020	0.009	0.010	0.022	0.005	0.012	0.0	0.0	0.0	0.0	0.0 T
19	0.043	0.081	0.009	0.018	0.007	0.005	0.032	0.0	0.0	0.0	0.0	0.0
20	0.092	0.024	0.011	0.014	0.007	0.007	0.015	0.0	0.0	0.0	0.0	0.0
21	1.623	0.021	0.003	0.028	0.005	0.004	0.018	0.0	0.0	0.0	0.0	0.0
22	0.230	0.018	0.003	0.009	0.004	0.005	0.016	0.0	0.0	0.0	0.0	0.0
23	0.054	0.017	0.005	0.005	0.004	0.006	0.012	0.0	0.0	0.0	0.0	0.0
24	0.030	0.017	0.005	0.004	0.004	1.609	0.009	0.0	0.0	0.0	0.0	0.0
25	0.020	0.014	0.004	0.003	0.044	0.476	0.007	0.0	0.0	0.0	0.0	0.0
26	0.015	0.012	0.004	0.004	0.018	0.365	0.004	0.0	0.0	0.0	0.0	0.0
27	0.015	0.012	0.004	0.005	0.010	0.006	0.002	0.0	0.0	0.0	0.0	0.0
28	0.031	0.178	0.004	0.005	0.005	0.007	0.002	0.0	0.0	0.0	0.0	0.0
29	0.021	0.012	0.004	0.003	0.004	0.009	0.002	0.0	0.0	0.0	0.0	0.0
30	0.038	0.005	0.003	0.004	0.004	0.009	0.001	0.0	0.0	0.0	0.109	0.0
31	0.027	0.005	0.004	0.004	0.004	0.004	0.001	0.0	0.0	0.0	0.0	0.0
MEAN	0.1058	0.0687	0.0998	0.0337	0.0850	0.1389	0.0267	0.0007	0.0	0.0	0.0036	0.0007
INCHES	1.845	1.122	1.741	0.569	1.482	2.344	0.465	0.013	0.0	0.0	0.061	0.012
STA AV	0.350	0.409	0.461	0.762	0.865	0.513	0.076	0.029	0.096	0.115	0.310	0.327

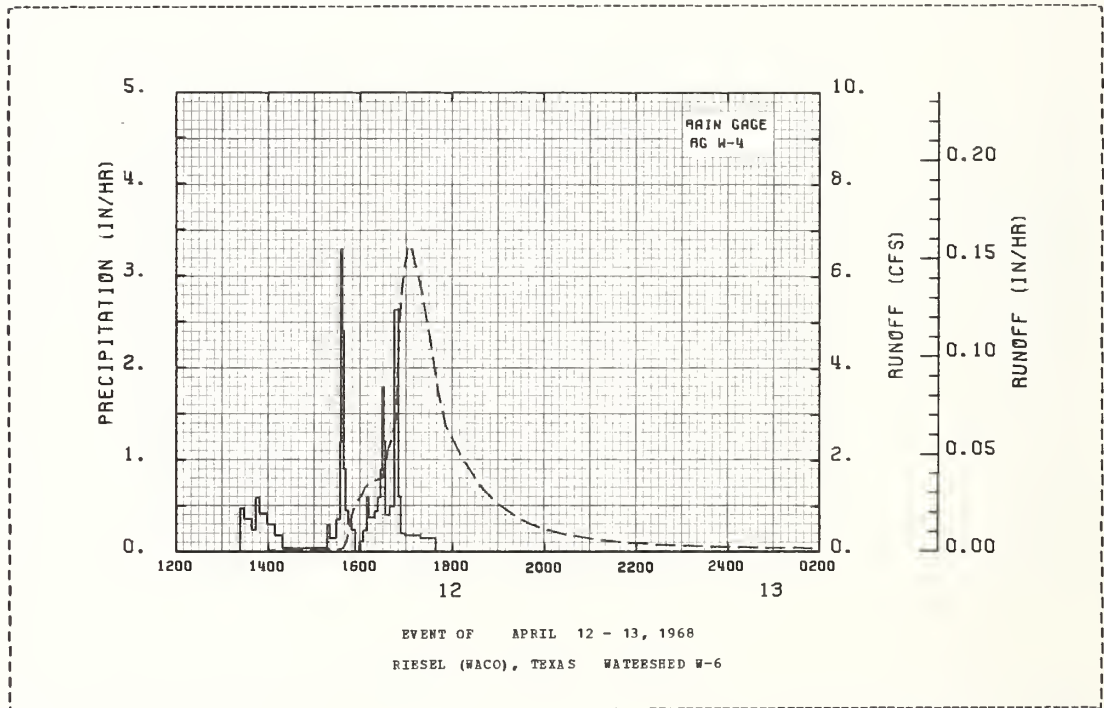
NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.562683. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-6												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 12 - 13, 1968												
4-12	RG W-4 0.0	0.002	4-12	RG W-4 1323	0.0	0.0	4-12	1356	0.03	0.0		
				1328	0.4800	0.04		1401	0.04	0.0001		
				1338	0.3600	0.10		1406	0.05	0.0002		
				1343	0.2400	0.12		1411	0.06	0.0003		
				1348	0.6000	0.17		1416	0.07	0.0004		
WATERSHED CONDITIONS:												
25% fall planted oats, 8 to												
10 inches high; 41% row												
grain sorghum, 1 to 2 inches												
high; 15% pasture, Bermuda-												
grass, good cover, moderately												
grazed; 7% gravel roads; 11%												
Johnsongrass and weeds, not												
tilled or grazed; 2% native												
grass waterways, dense												
cover. Cropland farmed on												
contour, not terraced.												
				1516	0.0429	0.36		1456	0.06	0.0012		
				1520	0.3000	0.38		1506	0.06	0.0014		
				1528	0.1500	0.40		1516	0.06	0.0016		
				1533	0.3600	0.43		1521	0.06	0.0017		
				1534	1.1999	0.45		1531	0.07	0.0020		
				1536	3.3001	0.56		1536	0.08	0.0022		
				1538	2.4000	0.64		1538	0.11	0.0023		
				1540	0.9000	0.67		1540	0.20	0.0024		
				1544	0.4500	0.70		1542	0.28	0.0026		
				1548	0.3000	0.72		1544	0.42	0.0029		
				1553	0.2400	0.74		1546	0.57	0.0033		
				1558	0.0	0.74		1548	0.80	0.0038		
				1603	0.1200	0.75		1551	0.95	0.0048		
				1608	0.2400	0.77		1556	1.11	0.0068		
				1610	0.6001	0.79		1601	1.25	0.0091		
				1618	0.3750	0.84		1606	1.43	0.0117		
				1622	0.4500	0.87		1611	1.52	0.0146		
				1626	0.6000	0.91		1616	1.57	0.0176		
				1628	0.8998	0.94		1621	1.57	0.0207		
				1630	1.7996	1.00		1626	1.62	0.0238		
				1632	1.2003	1.04		1628	1.63	0.0251		
				1638	0.4000	1.08		1631	1.79	0.0271		
				1644	0.5000	1.13		1636	2.27	0.0311		
				1649	2.6397	1.35		1641	2.52	0.0358		
				1652	0.6001	1.38		1646	2.93	0.0411		
				1658	0.2000	1.40		1648	3.68	0.0437		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED #6								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Eate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Oay	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)											
4-12			1718		0.1800	1.46	4-12	1650	4.76	0.0470	
			1738		0.1500	1.51		1652	5.39	0.0510	
								1656	6.03	0.0599	
								1658	6.28	0.0647	
								1700	6.47	0.0697	
								1702	6.68	0.0748	
								1706	6.62	0.0852	
								1711	6.28	0.0978	
								1716	5.92	0.1097	
								1721	5.55	0.1209	
								1731	4.57	0.1407	
								1741	3.48	0.1564	
								1751	2.74	0.1686	
								1801	2.41	0.1787	
								1811	2.06	0.1874	
								1821	1.82	0.1950	
								1831	1.55	0.2016	
								1841	1.34	0.2072	
								1851	1.17	0.2121	
								1901	1.01	0.2164	
								1921	0.78	0.2234	
								1941	0.60	0.2288	
								2001	0.48	0.2330	
								2031	0.36	0.2379	
								2101	0.28	0.2417	
								2131	0.22	0.2446	
								2201	0.18	0.2469	
								2231	0.15	0.2488	
								2301	0.13	0.2504	
								2400	0.10	0.2530	
							4-13	101	0.08	0.2551	
								201	0.07	0.2568	
								301	0.06	0.2583	
								401	0.05	0.2595	
								501	0.04	0.2605	
								600	0.04	0.2614	
								1200	0.02	0.2656	

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.023445.



RIESEL (WACO), TEXAS WATERSHED W-10

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 19.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-10	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	5.32	3.10	3.04	4.01	6.35	7.87	3.13	0.94	3.12	0.84	5.97	0.59	44.28	
O	2.520	0.984	1.565	1.048	2.553	3.432	0.634	0.0	0.0	0.0	1.195	0.065	13.996	
STA AV P	2.17	2.67	2.19	4.03	4.00	3.56	1.43	2.32	2.59	2.66	3.01	2.33	32.96	
O	0.501	0.480	0.454	0.944	0.964	0.632	0.092	0.096	0.202	0.260	0.488	0.426	5.538	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Date	Maximum Discharge		Maximum Volume for Selected Time Interval												
	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
1968 6-24	0.981	6-24	0.776	6-24	1.171	6-24	1.543	5-10	1.643	5-9	1.662	6-24	2.031	5-10	2.518

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
6-10 1941	5.010	4-19 1957	2.310	4-19 1957	2.550	5-11 1957	3.000	11-22 1940	3.330	11-22 1940	3.530	4-24 1966	5.160	5-19 1957	8.290

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, terraced. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, OSDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.25S	1.26	0.0	1.37	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.12	0.0	2.19	0.33	0.0	0.0	0.0	0.57	0.02E		
3	0.18	0.0	0.0	0.25	0.43	0.54	0.0	0.0	0.17	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.75	0.0	0.0	0.0		
5	0.84	0.0	0.24	0.0	0.0	0.17	0.0	0.0	0.06	0.01E	0.0	0.0		
6	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.19S	0.0	0.10E	0.0	0.58	0.0	0.57	0.0	0.0	0.0	0.81	0.0		
9	0.0 S	0.0	0.0	0.11	0.52	0.0	1.43	0.0	0.0	0.75	0.0	0.0		
10	0.0	0.0 E	0.90	0.0	2.10	0.0	0.01E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.49	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.48	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.13		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.12	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.59	0.0	0.0	0.0	0.0 E	0.0	0.0	1.00	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.73	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.10E	0.0	0.0	0.0	0.08E	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.52	0.0	0.0	0.0	0.27	0.0	0.0	0.0		
18	0.97	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E		
19	0.0	0.42	0.07E	0.31	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0		
20	0.25	0.0	0.14	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.07		
21	1.33	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.17		
22	0.0	0.10S	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.16		
23	0.01E	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0 E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.41	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.86	1.20	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.02E	0.0	0.0	1.14	0.0		
27	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	1.19	0.04E		
28	0.12	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	1.49	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.32	3.10	3.04	4.01	6.35	7.87	3.13	0.94	3.12	0.84	5.97	0.59		
STA AV	2.17	2.67	2.19	4.03	4.00	3.56	1.43	2.32	2.59	2.66	3.01	2.33		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-6. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.012	0.394	0.001	0.206	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.054
2	0.002	0.009	0.001	0.228	0.0	0.625	0.0	0.0	0.0	0.0	0.0	0.0
3	0.002	0.001	0.001	0.014	0.0	0.401	0.0	0.0	0.0	0.0	0.0	0.0
4	0.001	0.0 T	0.0 T	0.003	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0
5	0.318	0.0 T	0.001	0.0 T	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
6	0.050	0.0	0.007	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.001	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
8	0.001	0.0	0.0 T	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
9	0.512	0.0	0.001	0.0	0.001	0.0	0.525	0.0	0.0	0.0	0.0	0.0
10	0.085	0.0	0.195	0.0	1.377	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.008	0.0	1.057	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.001	0.0	0.029	0.342	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0 T	0.048	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0 T	0.102	0.0 T	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.010	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.001	0.0 T	0.0	0.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.206	0.001	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.023	0.066	0.0 T	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.016	0.006	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.735	0.002	0.0 T	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.106	0.001	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.005	0.002	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0 T	0.001	0.0	0.0 T	0.0	1.308	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.001	0.0	0.0	0.004	0.273	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0 T	0.0	0.0	0.004	0.200	0.0	0.0	0.0	0.0	0.011	0.0
27	0.0	0.0 T	0.0	0.0	0.002	0.0 T	0.0	0.0	0.0	0.0	0.237	0.0
28	0.001	0.211	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.010	0.0
29	0.0 T	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.731	0.0
31	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0673	0.0281	0.0418	0.0289	0.0682	0.0947	0.0169	0.0	0.0	0.0	0.0330	0.0017
INCHES	2.520	0.984	1.565	1.048	2.553	3.432	0.634	0.0	0.0	0.0	1.195	0.065
STA AV	0.501	0.480	0.454	0.944	0.964	0.632	0.092	0.096	0.202	0.260	0.488	0.426

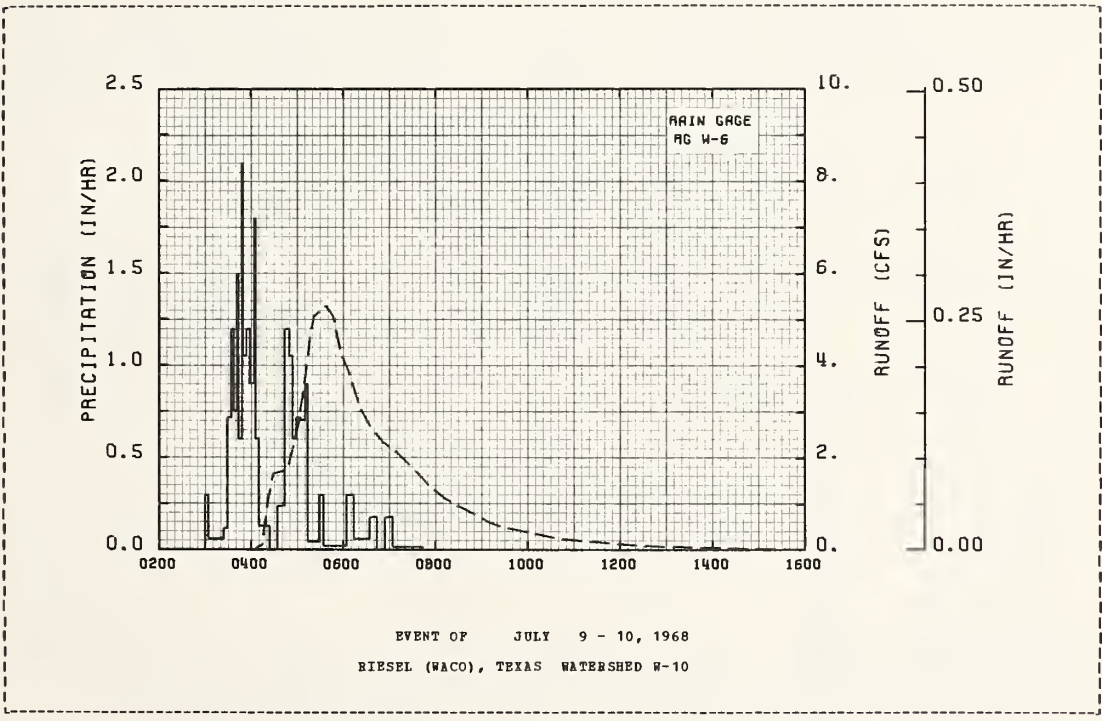
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.208198. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-10												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 9 - 10, 1968												
7- 9	RG W-6 0.0	0.0	7- 9	RG W-6	3:00	0.0	0.0	7- 9	3:31	0.0	0.0	
					3:04	0.3000	0.02		3:41	0.0	0.0	
					3:24	0.0600	0.04		3:51	0.0	0.0	
					3:29	0.1200	0.05		4:01	0.0	0.0	
					3:34	0.7200	0.11		4:03	0.01	0.0	
					3:38	1.2000	0.19		4:05	0.01	0.0	
					3:42	0.7500	0.24		4:06	0.02	0.0	
					3:44	1.5000	0.29		4:07	0.04	0.0	
					3:48	0.6000	0.33		4:08	0.07	0.0001	
					3:50	2.1000	0.40		4:09	0.09	0.0002	
					3:54	1.0500	0.47		4:14	0.11	0.0006	
					3:58	1.2000	0.55		4:15	0.13	0.0007	
					4:04	0.9000	0.64		4:16	0.23	0.0008	
					4:06	1.8000	0.70		4:17	0.45	0.0011	
					4:10	0.6000	0.74		4:18	0.60	0.0015	
					4:24	0.1286	0.77		4:19	0.72	0.0022	
					4:34	0.0	0.77		4:21	0.95	0.0035	
					4:44	0.2400	0.81		4:23	1.17	0.0054	
					4:50	1.2000	0.93		4:25	1.34	0.0074	
					4:54	1.0500	1.00		4:27	1.50	0.0099	
					4:59	0.6000	1.05		4:29	1.67	0.0124	
					5:04	0.7200	1.11		4:48	1.74	0.0395	
					5:10	0.7000	1.18		4:51	1.99	0.0443	
					5:14	0.9000	1.24		4:57	2.40	0.0555	
					5:28	0.0429	1.25		5:02	2.76	0.0661	
					5:34	0.3000	1.28		5:07	3.35	0.0787	
					6:04	0.0200	1.29		5:12	3.94	0.0945	
					6:14	0.3000	1.34		5:17	4.62	0.1122	
					6:34	0.0600	1.36		5:22	5.09	0.1323	
					6:44	0.1800	1.39		5:37	5.29	0.1976	
					6:54	0.0	1.39		5:47	5.07	0.2414	
					7:04	0.1800	1.42		5:57	4.26	0.2808	
					7:44	0.0150	1.43		6:07	3.86	0.3143	
									6:22	3.08	0.3580	
									6:37	2.61	0.3938	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-10							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 9 - 10, 1968 (CONTINUED)										
							7- 9	652	2.32	0.4249
								712	2.07	0.4621
								732	1.73	0.4938
								752	1.38	0.5197
								812	1.11	0.5407
								832	0.92	0.5577
								852	0.75	0.5717
								912	0.57	0.5829
								930	0.48	0.5909
								1000	0.38	0.6017
								1030	0.27	0.6098
								1100	0.20	0.6157
								1130	0.16	0.6202
								1200	0.12	0.6237
								1230	0.08	0.6262
								1300	0.06	0.6279
								1400	0.04	0.6303
								1500	0.02	0.6317
								1600	0.01	0.6326
								1800	0.0	0.6335
								2000	0.0	0.6338
								2400	0.0	0.6340
							7-10	600	0.0	0.6341
								1200	0.0	0.6341

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.



RIESEL (WACO), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Waco; Brazos Basin.

AREA: 309.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1968	P 5.06	3.35	3.10	4.32	6.82	8.88	5.50	0.48	3.57	0.79	6.05	0.61	48.54		
	Q 2.805	1.460	1.916	1.333	2.363	4.256	1.630	0.001	0.000	0.0	0.356	0.120	16.242		
STA AV	P 2.26	2.63	2.22	3.96	4.02	3.70	1.53	2.06	2.50	2.50	2.87	2.32	32.58		
	Q 0.528	0.536	0.466	0.791	0.781	0.601	0.128	0.048	0.106	0.096	0.331	0.313	4.723		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	6-2	1.476	6-2	0.991	6-2	1.271	6-2	1.572	6-2	1.635	6-2	1.999	6-2	2.384	6-1	2.448
MAXIMUMS FOR PERIOD OF RECORD																
	4-19	2.540	4-19	2.150	4-19	2.740	4-19	3.480	4-19	3.660	3-29	3.980	11-22	4.770	4-19	9.360
	1957		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 48% pasture; 16% cotton; 19% fall planted small grain, largely oats; 16% row grain sorghum; 1% gravel and paved roads. Cropland terraced, contour cultivation. No change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69, 69E, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.25S	1.36	0.0	1.57	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.17	0.0	3.39	1.64	0.0	0.0	0.0	0.73	0.03E			
3	0.17	0.0	0.0	0.31	0.71	0.56	0.0	0.0	0.33	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.87	0.0	0.0	0.0			
5	0.69	0.0	0.25	0.0	0.0	0.03E	0.0	0.0	0.07	0.01E	0.0	0.0			
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	1.07S	0.0	0.08E	0.0	0.72	0.0	0.72	0.0	0.0	0.0	0.86	0.0			
9	0.0 S	0.0	0.0	0.13	0.54	0.0	0.87	0.0	0.0	0.76	0.0	0.0			
10	0.0	0.00E	1.24	0.0	2.23	0.0	0.04E	0.0	0.0	0.0	0.0	0.0			
11	0.01E	0.0	1.24	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.00E	0.0	0.0	1.57	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.19			
13	0.0	0.03E	0.0	0.0	0.02E	0.0	0.22	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.07	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.71	0.0			
16	0.0	0.0	0.0	0.0	0.01E	0.24	0.0	0.0	0.0	0.01E	0.0	0.0			
17	0.0	0.01E	0.0	0.0	1.37	0.0	0.0	0.0	0.61	0.0	0.0	0.0			
18	0.96	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E			
19	0.0	0.41	0.07E	0.35	0.0	0.0	2.00	0.0	0.0	0.0	0.0	0.0			
20	0.26	0.0	0.15	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.09			
21	1.30	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.14			
22	0.0	0.11S	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.13			
23	0.01E	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0 E	0.0			
24	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.24	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.84	1.05	0.0 E	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.14E	0.0	0.0	1.05	0.0			
27	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	1.20	0.03E			
28	0.11E	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	1.46	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	5.06	3.35	3.10	4.32	6.82	8.88	5.50	0.48	3.57	0.79	6.05	0.61	48.54		
STA AV	2.26	2.63	2.22	3.96	4.02	3.70	1.53	2.06	2.50	2.50	2.87	2.32	32.58		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69, 69E, 70, 75A, 84A, 89, and W-2A. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 26 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACD), TEXAS WATERSHED Y					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.202	9.830	0.121	2.591	0.016	0.024	0.047	0.005	0.0	0.0	0.0	0.880
2	0.091	0.708	0.121	3.832	0.012	22.198	5.078	0.003	0.0	0.0	0.0	0.126
3	0.140	0.331	0.104	1.211	0.091	8.818	0.533	0.002	0.0 T	0.0	0.0	0.061
4	0.082	0.218	0.082	0.291	0.072	0.687	0.098	0.001	0.001	0.0	0.0	0.026
5	2.349	0.177	0.147	0.096	0.015	0.269	0.073	0.001	0.0 T	0.0	0.0	0.020
6	0.789	0.128	0.427	0.081	0.008	0.175	0.061	0.001	0.0 T	0.0	0.0	0.019
7	0.095	0.098	0.174	0.076	0.008	0.108	0.059	0.001	0.0	0.0	0.0	0.014
8	0.068	0.093	0.128	0.079	0.282	0.089	0.389	0.001	0.0	0.0	0.0	0.013
9	4.056	0.092	0.198	0.119	0.122	0.074	4.826	0.0 T	0.0	0.0	0.0	0.016
10	2.669	0.098	3.465	0.088	17.701	0.061	0.181	0.0 T	0.0	0.0	0.0	0.016
11	1.178	0.097	16.834	0.059	0.416	0.054	0.118	0.0 T	0.0	0.0	0.0	0.017
12	0.475	0.087	0.976	6.484	0.253	0.049	0.089	0.0 T	0.0	0.0	0.0	0.035
13	0.179	0.083	0.340	0.614	0.159	0.040	0.139	0.0	0.0	0.0	0.0	0.020
14	0.140	1.037	0.209	0.145	0.105	0.034	0.065	0.0	0.0	0.0	0.0	0.013
15	0.127	0.333	0.163	0.082	0.083	0.029	0.051	0.0	0.0	0.0	0.0	0.013
16	0.108	0.183	0.144	0.093	0.075	0.026	0.044	0.0	0.0	0.0	0.0	0.015
17	0.106	0.136	0.123	0.097	8.549	0.046	0.038	0.0	0.0	0.0	0.0	0.017
18	4.070	0.150	0.134	0.096	0.428	0.029	0.037	0.0	0.0	0.0	0.0	0.016
19	0.926	1.043	0.159	0.315	0.104	0.022	8.667	0.0	0.0	0.0	0.0	0.010
20	1.388	0.274	0.220	0.183	0.073	0.041	0.233	0.0	0.0	0.0	0.0	0.013
21	11.474	0.226	0.100	0.285	0.066	0.041	0.088	0.0	0.0	0.0	0.0	0.034
22	2.427	0.186	0.068	0.147	0.064	0.037	0.063	0.0	0.0	0.0	0.0	0.045
23	0.590	0.171	0.061	0.053	0.050	0.042	0.045	0.0	0.0	0.0	0.0	0.013
24	0.348	0.149	0.061	0.034	0.042	15.568	0.036	0.0	0.0	0.0	0.0	0.013
25	0.276	0.110	0.048	0.029	0.399	2.580	0.030	0.0	0.0	0.0	0.0	0.015
26	0.212	0.078	0.044	0.031	0.855	3.758	0.028	0.0	0.0	0.0	0.001	0.018
27	0.191	0.073	0.044	0.029	0.454	0.143	0.018	0.0	0.0	0.0	0.346	0.017
28	0.325	2.544	0.051	0.027	0.074	0.090	0.013	0.0	0.0	0.0	0.098	0.010
29	0.309	0.224	0.044	0.024	0.043	0.067	0.009	0.0	0.0	0.0	0.014	0.011
30	0.584		0.046	0.017	0.035	0.052	0.007	0.0	0.0	0.0	4.166	0.012
31	0.448		0.041		0.030		0.006	0.0				0.006
MEAN	1.1749	0.6538	0.8024	0.5768	0.9898	1.8417	0.6828	0.0005	0.0001	0.0	0.1541	0.0501
INCHES	2.805	1.460	1.916	1.333	2.363	4.256	1.630	0.001	0.000	0.0	0.356	0.120
STA AV	0.528	0.536	0.466	0.791	0.781	0.601	0.128	0.048	0.106	0.096	0.331	0.313

NDTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.077028. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 26 yr period.

1968		SELECTED RUNOFF EVENT					RIESEL (WACD), TEXAS WATERSHED Y					
ANTECEDENT CONDITIDNS		RAINFALL					RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG 70	0.002	7-19	RG 70	0.0	0.0	7-19	1302	0.04	0.0		
					1313	4.2000	0.21	1307	0.04	0.0		
					1320	3.3000	0.43	1309	0.05	0.0		
					1324	3.9000	0.69	1311	0.07	0.0		
					1328	3.9000	0.95	1313	0.09	0.0		
WATERSHED CONDITIDNS:												
48% pasture, Bermuda grass					1330	6.8999	1.18	1315	0.12	0.0		
and native grass, good					1332	4.2000	1.32	1316	0.15	0.0		
cover, moderately grazed;					1334	2.4000	1.40	1317	0.20	0.0		
16% cotton, 12 to 14 inches					1338	3.4500	1.63	1318	0.20	0.0		
high; 19% tilled, bare; 16%					1344	2.6000	1.89	1319	0.25	0.0		
row grain sorghum, maturing;												
1% gravel roads. Cropland					1348	1.6500	2.00	1320	0.31	0.0		
terraced, cultivated on					1352	0.7500	2.05	1321	0.37	0.0		
contour.								1322	0.41	0.0		
								1323	0.45	0.0		
								1324	0.56	0.0		
								1325	0.72	0.0		
								1326	0.98	0.0		
								1327	1.51	0.0001		
								1328	2.07	0.0002		
								1329	2.47	0.0003		
								1330	2.90	0.0005		
								1331	3.44	0.0007		
								1332	4.32	0.0009		
								1333	5.45	0.0011		
								1334	6.82	0.0015		
								1335	7.65	0.0019		
								1336	8.85	0.0023		
								1337	9.82	0.0028		
								1338	11.38	0.0035		
								1339	12.57	0.0041		
								1340	13.82	0.0048		
								1341	15.65	0.0055		
								1342	16.76	0.0065		
								1343	18.68	0.0074		
								1344	23.09	0.0084		

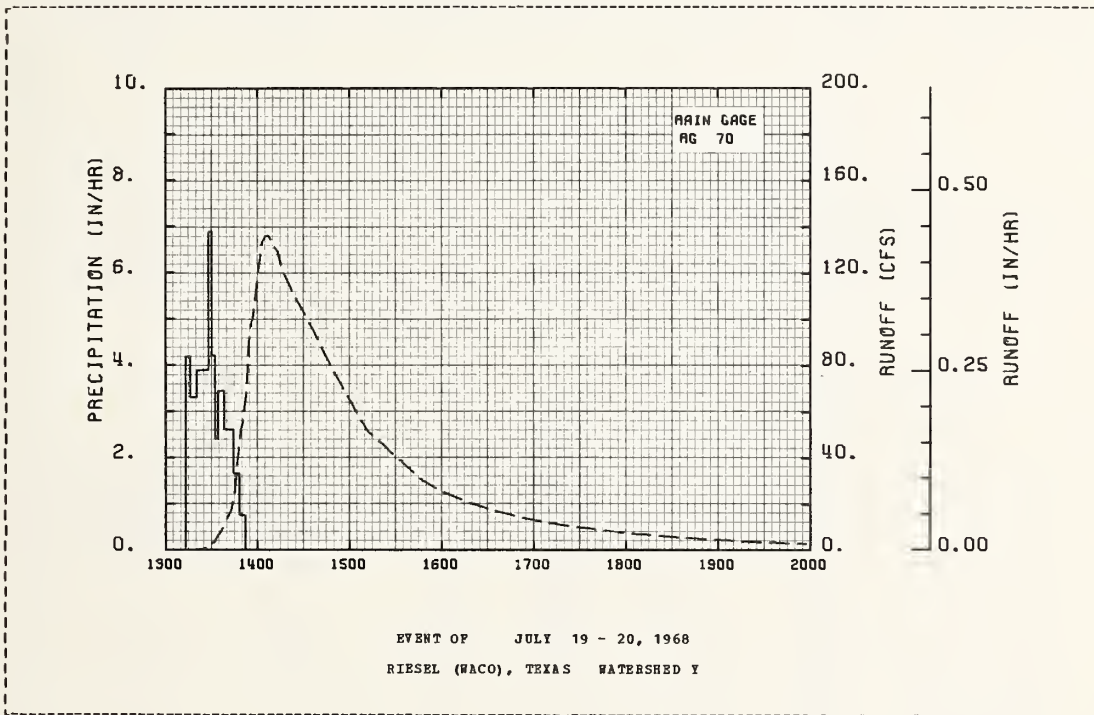
NDTES: To convert runoff in CPS to IN/HR, multiply by 0.003210.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHPD Y								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF			JULY 19 - 20, 1968 (CONTINUED)								
							7-19	1345	25.03	0.0099	
								1346	32.21	0.0113	
								1347	40.95	0.0131	
								1348	47.27	0.0153	
								1349	52.43	0.0184	
								1350	55.53	0.0211	
								1351	60.54	0.0240	
								1352	65.40	0.0272	
								1353	73.60	0.0316	
								1354	89.82	0.0357	
								1355	95.81	0.0404	
								1357	102.10	0.0516	
								1359	113.24	0.0624	
								1401	123.53	0.0758	
								1403	133.55	0.0887	
								1405	136.24	0.1039	
								1407	136.24	0.1176	
								1409	133.38	0.1328	
								1411	130.73	0.1460	
								1413	128.93	0.1606	
								1416	121.09	0.1810	
								1419	116.84	0.2004	
								1422	112.53	0.2177	
								1427	105.94	0.2478	
								1432	100.13	0.2749	
								1437	93.94	0.3004	
								1442	86.70	0.3253	
								1447	80.30	0.3473	
								1452	74.12	0.3676	
								1457	68.06	0.3872	
								1502	62.25	0.4044	
								1507	56.17	0.4200	
								1512	50.93	0.4348	
								1517	48.03	0.4478	
								1522	45.33	0.4601	
								1527	41.80	0.4721	
								1532	39.21	0.4828	
								1537	36.04	0.4927	
								1542	33.14	0.5022	
								1547	30.07	0.5105	
								1552	28.29	0.5182	
								1557	26.29	0.5257	
								1607	23.15	0.5387	
								1617	20.55	0.5505	
								1627	18.35	0.5610	
								1637	16.50	0.5702	
								1647	14.72	0.5786	
								1657	13.30	0.5862	
								1717	10.86	0.5991	
								1737	9.15	0.6098	
								1757	7.48	0.6188	
								1817	6.37	0.6262	
								1837	5.24	0.6324	
								1857	4.41	0.6376	
								1927	3.28	0.6438	
								1957	2.58	0.6485	
								2027	2.07	0.6522	
								2057	1.73	0.6553	
								2127	1.38	0.6578	
								2157	1.28	0.6599	
								2227	1.10	0.6618	
								2257	0.93	0.6634	
								2327	0.78	0.6648	
								2400	0.70	0.6661	
							7-20	27	0.64	0.6671	
								57	0.59	0.6681	
								157	0.50	0.6699	
								257	0.43	0.6714	
								357	0.38	0.6727	
								457	0.33	0.6738	
								557	0.29	0.6748	
								657	0.27	0.6757	
								757	0.25	0.6765	
								857	0.23	0.6773	
								1200	0.21	0.6795	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968 (CONTINUED)											
							7-20	1400	0.17	0.6807	
								1600	0.12	0.6816	
								1800	0.10	0.6823	
								2000	0.09	0.6829	
								2400	0.09	0.6840	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.



RIESEL (WACO), TEXAS WATERSHED Y-2

LOCATION: Falls Co., Texas; 18 mi. SE Waco; Brazos River Basin.

AREA: 132.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-2															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	5.06	3.38	3.23	4.34	6.83	8.81	5.68	0.42	3.65	0.80	6.05	0.59	48.83	P	5.06	3.38	3.23	4.34	6.83	8.81	5.68	0.42	3.65	0.80	6.05	0.59	48.83	
	O	2.472	1.278	1.869	1.240	2.333	4.480	1.898	0.0	0.0	0.0	0.313	0.071	15.953	O	2.472	1.278	1.869	1.240	2.333	4.480	1.898	0.0	0.0	0.0	0.313	0.071	15.953	
STA AV	P	2.26	2.66	2.50	4.01	4.53	3.59	1.60	2.08	2.62	3.04	2.48	33.88	P	2.26	2.66	2.50	4.01	4.53	3.59	1.60	2.08	2.62	3.04	2.48	33.88			
	O	0.469	0.594	0.652	0.940	1.170	0.604	0.131	0.048	0.097	0.116	0.349	0.437	5.607	O	0.469	0.594	0.652	0.940	1.170	0.604	0.131	0.048	0.097	0.116	0.349	0.437	5.607	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	6-2	1.436	6-2	1.098	6-2	1.414	6-2	1.747	6-2	1.794	6-2	2.148	6-2	2.550	5-27	2.605

MAXIMUMS FOR PERIOD OF RECORD

5-1	4.070	5-1	3.110	5-1	5.470	5-1	7.080	5-1	7.280	5-1	7.460	4-30	9.640	4-29	10.60
1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 20% cotton; 27% fall planted small grain, largely oats; 19% row grain sorghum; 33% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1, 1939. Precipitation data from Thiessen weighted method using rain gauges 69, 69B, 70, 75A, and 84A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y-2													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.25S	1.40	0.0	1.58	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.25S	1.40	0.0	1.58	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.18	0.0	3.41	1.63	0.0	0.0	0.0	0.74	0.02E		2	0.0	0.0	0.0	0.18	0.0	3.41	1.63	0.0	0.0	0.0	0.74	0.02E	
3	0.17	0.0	0.0	0.32	0.73	0.56	0.0	0.0	0.39	0.0	0.0	0.0	0.0	3	0.17	0.0	0.0	0.32	0.73	0.56	0.0	0.0	0.39	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.88	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.88	0.0	0.0	0.0	0.0
5	0.69	0.0	0.26	0.0	0.0	0.02E	0.0	0.0	0.08	0.01E	0.0	0.0	0.0	5	0.69	0.0	0.26	0.0	0.0	0.02E	0.0	0.0	0.08	0.01E	0.0	0.0	0.0
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.09S	0.0	0.08E	0.0	0.68	0.0	0.73	0.0	0.0	0.0	0.87	0.0	0.0	8	1.09S	0.0	0.08E	0.0	0.68	0.0	0.73	0.0	0.0	0.0	0.87	0.0	0.0
9	0.0 S	0.0	0.0	0.13	0.55	0.0	0.91	0.0	0.0	0.78	0.0	0.0	0.0	9	0.0 S	0.0	0.0	0.13	0.55	0.0	0.91	0.0	0.0	0.78	0.0	0.0	0.0
10	0.0	0.00E	1.32	0.0	2.21	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.00E	1.32	0.0	2.21	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0
11	0.01E	0.0	1.27	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.01E	0.0	1.27	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.00E	0.0	0.0	1.56	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.17	12	0.00E	0.0	0.0	1.56	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.17
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.08	0.0	0.0	0.0	0.0	14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.08	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.73	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.73	0.0	0.0
16	0.0	0.0	0.0	0.0	0.01E	0.26	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.01E	0.26	0.0	0.0	0.0	0.01E	0.0	0.0	0.0
17	0.0	0.02E	0.0	0.0	1.39	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	17	0.0	0.02E	0.0	0.0	1.39	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0
18	0.95	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	18	0.95	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0
19	0.0	0.41	0.07E	0.35	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.41	0.07E	0.35	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0	0.0
20	0.26	0.0	0.15	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.09	20	0.26	0.0	0.15	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.09
21	1.29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.13	21	1.29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.13
22	0.0	0.12S	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.13	22	0.0	0.12S	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.13
23	0.01E	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	23	0.01E	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.23	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.23	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.86	1.00	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.86	1.00	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.17E	0.0	0.0	1.05	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.17E	0.0	0.0	1.05	0.0	0.0
27	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	1.18	0.03E	0.0	27	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	1.18	0.03E	0.0
28	0.10E	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	28	0.10E	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.0	30	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.06	3.38	3.23	4.34	6.83	8.81	5.68	0.42	3.65	0.80	6.05	0.59	48.83	TOTAL	5.06	3.38	3.23	4.34	6.83	8.81	5.68	0.42	3.65	0.80	6.05	0.59	48.83
STA AV	2.26	2.66	2.50	4.01	4.53	3.59	1.60	2.08	2.62	2.50	3.04	2.48	33.88	STA AV	2.26	2.66	2.50	4.01	4.53	3.59	1.60	2.08	2.62	2.50	3.04	2.48	33.88

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69, 69B, 70, 75A, and 84A. Records began Jan. 1, 1939. STA AV based on 29 yr period.

1968 Day	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHEO Y-2		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.033	4.683	0.015	1.222	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.337
2	0.007	0.210	0.023	1.581	0.0	10.630	2.611	0.0	0.0	0.0	0.0	0.043
3	0.018	0.081	0.014	0.484	0.013	3.506	0.196	0.0	0.0	0.0	0.0	0.012
4	0.007	0.049	0.005	0.062	0.009	0.188	0.021	0.0	0.0	0.0	0.0	0.0 T
5	0.811	0.035	0.029	0.005	0.0	0.058	0.014	0.0	0.0	0.0	0.0	0.0
6	0.211	0.020	0.102	0.005	0.0	0.030	0.010	0.0	0.0	0.0	0.0	0.0
7	0.007	0.009	0.024	0.004	0.0	0.016	0.008	0.0	0.0	0.0	0.0	0.0
8	0.0 T	0.009	0.016	0.008	0.051	0.014	0.142	0.0	0.0	0.0	0.0	0.0
9	1.543	0.009	0.033	0.022	0.018	0.010	2.316	0.0	0.0	0.0	0.0	0.0
10	0.984	0.014	2.101	0.012	7.904	0.007	0.047	0.0	0.0	0.0	0.0	0.0
11	0.333	0.013	7.458	0.004	0.119	0.005	0.026	0.0	0.0	0.0	0.0	0.0
12	0.099	0.006	0.266	2.943	0.067	0.003	0.012	0.0	0.0	0.0	0.0	0.0
13	0.022	0.006	0.061	0.174	0.031	0.002	0.034	0.0	0.0	0.0	0.0	0.0
14	0.015	0.309	0.030	0.031	0.014	0.0 T	0.006	0.0	0.0	0.0	0.0	0.0
15	0.014	0.081	0.026	0.012	0.008	0.0	0.003	0.0	0.0	0.0	0.0	0.0
16	0.008	0.033	0.024	0.015	0.006	0.002	0.002	0.0	0.0	0.0	0.0	0.0
17	0.008	0.026	0.018	0.015	3.582	0.003	0.001	0.0	0.0	0.0	0.0	0.0
18	1.639	0.032	0.021	0.015	0.120	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
19	0.272	0.312	0.028	0.107	0.017	0.0	4.983	0.0	0.0	0.0	0.0	0.0
20	0.449	0.060	0.038	0.044	0.007	0.004	0.062	0.0	0.0	0.0	0.0	0.0
21	5.536	0.053	0.008	0.075	0.005	0.001	0.014	0.0	0.0	0.0	0.0	0.0
22	0.900	0.035	0.003	0.030	0.005	0.003	0.006	0.0	0.0	0.0	0.0	0.0
23	0.151	0.041	0.004	0.005	0.003	0.004	0.002	0.0	0.0	0.0	0.0	0.0
24	0.068	0.030	0.003	0.0 T	0.003	8.000	0.001	0.0	0.0	0.0	0.0	0.0
25	0.046	0.018	0.002	0.0	0.327	0.953	0.001	0.0	0.0	0.0	0.0	0.0
26	0.033	0.010	0.001	0.0	0.351	1.358	0.001	0.0	0.0	0.0	0.0	0.0
27	0.039	0.005	0.001	0.0	0.263	0.022	0.0 T	0.0	0.0	0.0	0.0	0.067
28	0.090	0.860	0.002	0.0	0.013	0.010	0.0	0.0	0.0	0.0	0.024	0.0
29	0.066	0.041	0.001	0.0	0.002	0.008	0.0	0.0	0.0	0.0	0.0 T	0.0
30	0.178		0.003	0.0	0.001	0.005	0.0	0.0	0.0	0.0	1.643	0.0
31	0.126		0.001		0.0 T		0.0	0.0	0.0	0.0		0.0
MEAN	0.4423	0.2445	0.3343	0.2292	0.4174	0.8281	0.3395	0.0	0.0	0.0	0.0578	0.0127
INCHES	2.472	1.278	1.869	1.240	2.333	4.480	1.898	0.0	0.0	0.0	0.313	0.071
STA AV	0.469	0.594	0.652	0.940	1.170	0.604	0.131	0.048	0.097	0.116	0.349	0.437

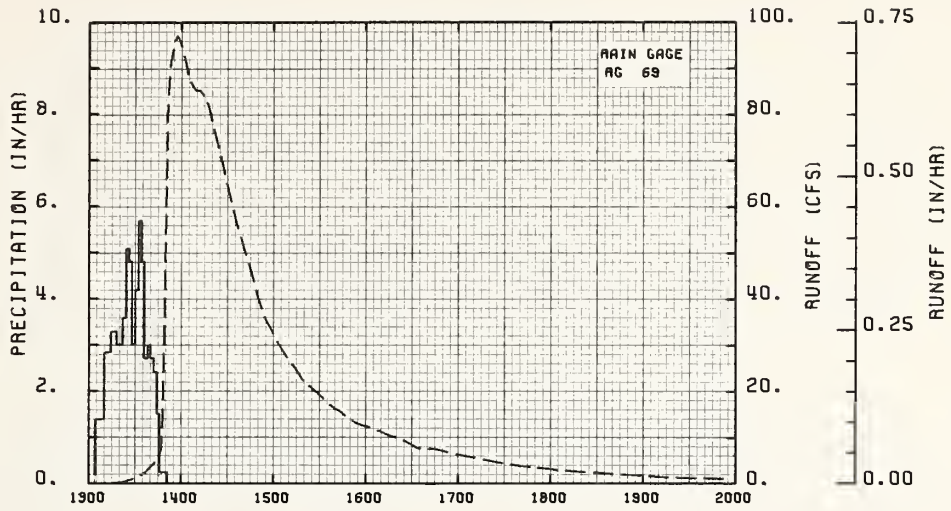
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.180314. Records began Jan. 1, 1939. STA AV based on 29 yr period.

1968	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS				WATERSHEO Y-2		
	ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 19 - 20, 1968										
7-19	RG 6 ⁹ 0.0	0.0	7-19	RG 6 ⁹ 1304	0.0	0.0	7-19	1305	0.0	0.0
				1310	1.4000	0.14		1307	0.01	0.0
				1314	2.8500	0.33		1309	0.03	0.0
				1318	3.3000	0.55		1311	0.07	0.0
				1322	3.0000	0.75		1313	0.11	0.0
WATERSHED CONOITIONS: 33% pasture, Bermuda grass and native grass, good cover, moderately grazed; 27% til- led, bare; 20% cotton, 12 to 14 inches high; 19% sor- ghum, maturing; 1% gravel roads. Cropland terraced, cultivated on contour.				1324	3.6000	0.87		1315	0.16	0.0
				1326	5.1001	1.04		1317	0.21	0.0
				1328	4.7999	1.20		1319	0.26	0.0001
				1330	3.0000	1.30		1321	0.33	0.0002
				1332	4.2000	1.44		1323	0.49	0.0003
				1334	5.6999	1.63		1325	0.75	0.0004
				1336	4.8001	1.79		1327	0.91	0.0006
				1338	2.7000	1.88		1329	1.13	0.0008
				1340	3.0000	1.98		1331	1.35	0.0011
				1342	2.7000	2.07		1333	1.73	0.0015
				1344	2.4000	2.15		1335	2.17	0.0020
				1346	1.5000	2.20		1337	2.63	0.0026
	1351	0.2400	2.22		1339	3.37	0.0034			
					1341	4.15	0.0043			
					1343	4.87	0.0055			
					1344	5.40	0.0061			
					1345	6.11	0.0069			
					1346	6.44	0.0076			
					1347	7.62	0.0084			
					1348	14.90	0.0097			
					1349	33.39	0.0132			
					1350	56.40	0.0185			
					1351	78.72	0.0264			
					1352	86.80	0.0361			
					1353	91.63	0.0492			
					1355	95.17	0.0711			
					1357	97.13	0.0965			
					1359	95.63	0.1191			
					1401	93.45	0.1441			
					1403	90.95	0.1657			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHEO Y-2				
ANTECEDENT CONOITIONS			RAINFALL			RDNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUEO)										
							7-19	1405	87.36	0.1892
								1407	86.36	0.2096
								1409	85.03	0.2322
								1412	84.92	0.2646
								1415	83.60	0.2967
								1418	81.20	0.3257
								1421	76.91	0.3559
								1424	72.70	0.3844
								1427	68.79	0.4114
								1430	64.26	0.4368
								1434	58.69	0.4675
								1439	52.66	0.5018
								1444	47.23	0.5326
								1449	41.09	0.5611
								1454	35.92	0.5848
								1459	32.77	0.6060
								1504	29.72	0.6262
								1509	27.08	0.6437
								1514	24.88	0.6597
								1519	22.34	0.6749
								1524	20.82	0.6882
								1529	19.34	0.7006
								1534	17.77	0.7126
								1539	16.31	0.7231
								1544	15.31	0.7328
								1549	14.04	0.7423
								1554	12.87	0.7506
								1559	12.28	0.7584
								1604	12.01	0.7662
								1614	10.45	0.7800
								1624	9.36	0.7925
								1634	7.49	0.8031
								1644	7.36	0.8122
								1659	6.23	0.8250
								1709	5.61	0.8325
								1718	5.05	0.8384
								1728	4.28	0.8443
								1738	3.80	0.8494
								1748	3.42	0.8539
								1803	2.87	0.8598
								1823	2.38	0.8664
								1843	1.94	0.8718
								1903	1.52	0.8761
								1923	1.25	0.8796
								1943	1.03	0.8824
								2003	0.87	0.8848
								2033	0.71	0.8878
								2103	0.56	0.8903
								2133	0.47	0.8921
								2203	0.39	0.8937
								2233	0.33	0.8951
								2303	0.28	0.8963
								2400	0.22	0.8981
							7-20	103	0.18	0.8997
								203	0.14	0.9009
								403	0.10	0.9027
								600	0.08	0.9040
								900	0.06	0.9056
								1200	0.06	0.9070
								1400	0.04	0.9078
								1600	0.02	0.9083
								1800	0.02	0.9086
								2000	0.01	0.9088
								2200	0.01	0.9090
								2400	0.02	0.9092

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y-2

RIESEL (WACO), TEXAS WATERSHED Y-4

LOCATION: Falls Co., Texas: 18 mi. SE of Waco; Brazos River Basin.

AREA: 79.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS		WATERSHED Y-4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1968	P 5.12	3.43	3.28	4.34	6.82	8.75	5.81	0.42	3.67	0.82	6.05	0.59	49.10				
	O 2.960	1.326	1.971	1.202	2.302	4.193	1.933	0.0	0.0	0.0	0.284	0.098	16.268				
STA AV	P 2.21	2.63	2.27	3.94	4.25	3.69	1.53	2.09	2.68	2.55	3.03	2.31	33.17				
	O 0.437	0.482	0.468	0.776	0.952	0.637	0.149	0.067	0.116	0.125	0.348	0.302	4.859				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days				
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	Date	Vol.	Date	Vol.	Date	Vol.		
1968	6-2	1.382	6-2	1.015	6-2	1.344	6-2	1.657	6-2	1.711	6-2	2.046	6-2	2.360	5-27	2.393

MAXIMUMS FOR PERIOD OF RECORD																
	6-10	3.120	4-19	2.160	4-19	2.850	3-29	3.340	3-29	3.530	3-29	3.960	4-23	5.120	4-19	9.460
	1941		1957		1957		1965		1965		1965		1957		1957	

NOTES: Watershed conditions: 8% cotton; 29% fall planted small grain, largely oats; 31% row grain sorghum; 31% pasture; 1% gravel and paved roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1, 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69, 69B, 75A, and 84A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS		WATERSHED Y-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.25S	1.43	0.0	1.60	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.18	0.0	3.37	1.61	0.0	0.0	0.0	0.74	0.02E				
3	0.17	0.0	0.0	0.32	0.73	0.54	0.0	0.0	0.40	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.8"	0.0	0.0	0.0				
5	0.73	0.0	0.26	0.0	0.0	0.01E	0.0	0.0	0.07	0.01E	0.0	0.0				
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	1.10S	0.0	0.09E	0.0	0.66	0.0	0.73	0.0	0.0	0.0	0.88	0.0				
9	0.0 S	0.0	0.0	0.13	0.56	0.0	0.95	0.0	0.0	0.80	0.0	0.0				
10	0.0	0.00E	1.35	0.0	2.20	0.0	0.03E	0.0	0.0	0.0	0.0	0.0				
11	0.01E	0.0	1.28	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.00E	0.0	0.0	1.56	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.17				
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.34	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.09	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.72	0.0				
16	0.0	0.0	0.0	0.0	0.01E	0.28	0.0	0.0	0.0	0.01E	0.0	0.0				
17	0.0	0.02E	0.0	0.0	1.40	0.0	0.0	0.0	0.64	0.0	0.0	0.0				
18	0.94	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E				
19	0.0	0.41	0.08E	0.34	0.0	0.0	2.16	0.0	0.0	0.0	0.0	0.0				
20	0.26	0.0	0.15	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0				
21	1.29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13				
22	0.0	0.12S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.13				
23	0.01E	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0 E	0.0				
24	0.0	0.0	0.0	0.0	0.0	2.59	0.0	0.0	0.22	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.85	0.96	0.0 E	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.19E	0.0	0.0	1.07	0.0				
27	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	1.16	0.04E				
28	0.10E	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.46	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	5.12	3.43	3.28	4.34	6.82	8.75	5.81	0.42	3.67	0.82	6.05	0.59				
STA AV	2.21	2.63	2.27	3.94	4.25	3.69	1.53	2.09	2.68	2.55	3.03	2.31				

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average using rain gauges 69, 69B, 75A, and 84A. Records began Jan. 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 26 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.022	2.985	0.008	0.538	0.0 T	0.002	0.011	0.0	0.0	0.0	0.0	0.292
2	0.006	0.139	0.013	0.852	0.0	5.835	1.607	0.0	0.0	0.0	0.0	0.030
3	0.013	0.061	0.008	0.366	0.016	2.105	0.129	0.0	0.0	0.0	0.0	0.007
4	0.005	0.034	0.006	0.052	0.007	0.130	0.022	0.0	0.0	0.0	0.0	0.0 T
5	0.557	0.025	0.018	0.010	0.0 T	0.038	0.021	0.0	0.0	0.0	0.0	0.0
6	0.167	0.016	0.050	0.011	0.0	0.021	0.019	0.0	0.0	0.0	0.0	0.0
7	0.004	0.009	0.016	0.009	0.0	0.014	0.013	0.0	0.0	0.0	0.0	0.0
8	0.002	0.010	0.014	0.011	0.038	0.013	0.079	0.0	0.0	0.0	0.0	0.0
9	2.393	0.011	0.028	0.022	0.018	0.009	1.312	0.0	0.0	0.0	0.0	0.0
10	0.852	0.014	1.430	0.013	4.645	0.007	0.037	0.0	0.0	0.0	0.0	0.0
11	0.312	0.013	4.523	0.008	0.086	0.005	0.020	0.0	0.0	0.0	0.0	0.0
12	0.080	0.008	0.183	1.693	0.051	0.004	0.011	0.0	0.0	0.0	0.0	0.0
13	0.014	0.008	0.050	0.135	0.028	0.003	0.024	0.0	0.0	0.0	0.0	0.0
14	0.009	0.185	0.032	0.037	0.014	0.002	0.005	0.0	0.0	0.0	0.0	0.0
15	0.009	0.044	0.029	0.020	0.009	0.003	0.003	0.0	0.0	0.0	0.0	0.0
16	0.006	0.020	0.027	0.018	0.009	0.008	0.003	0.0	0.0	0.0	0.0	0.0
17	0.006	0.017	0.026	0.015	2.123	0.007	0.002	0.0	0.0	0.0	0.0	0.0
18	0.861	0.018	0.023	0.015	0.084	0.005	0.002	0.0	0.0	0.0	0.0	0.0
19	0.180	0.188	0.028	0.078	0.020	0.007	3.079	0.0	0.0	0.0	0.0	0.0
20	0.321	0.032	0.032	0.037	0.012	0.010	0.047	0.0	0.0	0.0	0.0	0.0
21	2.957	0.027	0.010	0.052	0.010	0.004	0.012	0.0	0.0	0.0	0.0	0.0
22	0.669	0.020	0.008	0.024	0.008	0.006	0.007	0.0	0.0	0.0	0.0	0.0
23	0.092	0.026	0.012	0.006	0.006	0.007	0.005	0.0	0.0	0.0	0.0	0.0
24	0.049	0.017	0.007	0.004	0.008	4.451	0.004	0.0	0.0	0.0	0.0	0.0
25	0.037	0.011	0.006	0.002	0.168	0.505	0.004	0.0	0.0	0.0	0.0	0.0
26	0.026	0.008	0.005	0.002	0.162	0.810	0.004	0.0	0.0	0.0	0.0	0.0
27	0.026	0.005	0.006	0.002	0.177	0.024	0.004	0.0	0.0	0.0	0.005	0.0
28	0.049	0.483	0.006	0.002	0.012	0.015	0.003	0.0	0.0	0.0	0.002	0.0
29	0.041	0.021	0.005	0.001	0.005	0.014	0.002	0.0	0.0	0.0	0.0	0.0
30	0.104	0.005	0.005	0.0 T	0.004	0.011	0.001	0.0	0.0	0.0	0.944	0.0
31	0.065		0.003		0.004		0.0 T	0.0		0.0		0.0
MEAN	0.3205	0.1535	0.2134	0.1345	0.2492	0.4691	0.2093	0.0	0.0	0.0	0.0317	0.0106
INCHES	2.960	1.326	1.971	1.202	2.302	4.193	1.933	0.0	0.0	0.0	0.284	0.098
STA AV	0.437	0.482	0.468	0.776	0.952	0.637	0.149	0.067	0.116	0.125	0.348	0.302

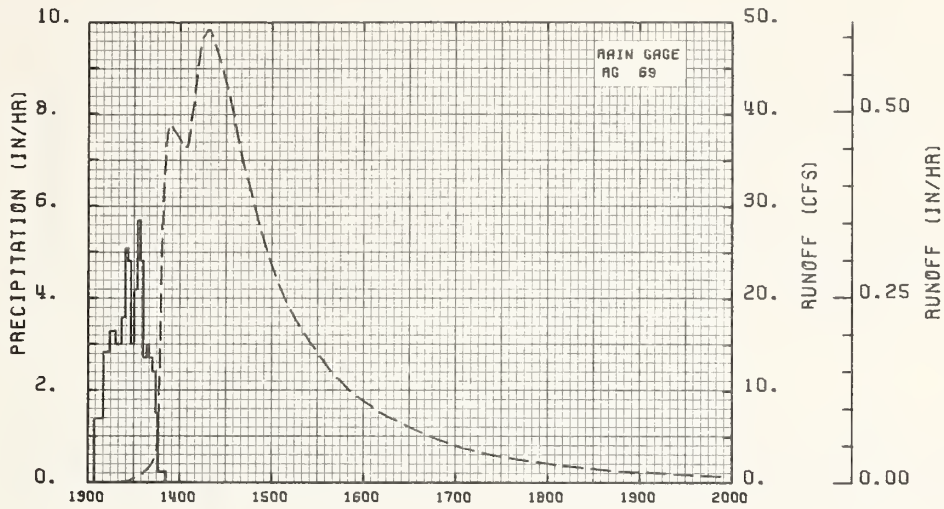
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.297891. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 26 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-4												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG 69 0.0	0.001	7-19	RG 69 1304	0.0	0.0	7-19	1307	0.01	0.0		
				1310	1.4000	0.14		1309	0.02	0.0		
				1314	2.8500	0.33		1311	0.03	0.0		
				1318	3.3000	0.55		1314	0.04	0.0		
				1322	3.0000	0.75		1316	0.06	0.0		
				1324	3.6000	0.87		1318	0.07	0.0		
				1326	5.1001	1.04		1320	0.09	0.0		
				1328	4.7999	1.20		1322	0.11	0.0		
				1330	3.0000	1.30		1324	0.14	0.0001		
				1332	4.2000	1.44		1326	0.19	0.0002		
				1334	5.6999	1.63		1327	0.26	0.0003		
				1336	4.8001	1.79		1328	0.33	0.0004		
				1338	2.7000	1.88		1329	0.48	0.0005		
				1340	3.0000	1.98		1330	0.55	0.0006		
				1342	2.7000	2.07		1331	0.62	0.0007		
				1344	2.4000	2.15		1332	0.71	0.0008		
				1346	1.5000	2.20		1333	0.80	0.0009		
				1351	0.2400	2.22		1334	0.90	0.0011		
								1336	1.11	0.0015		
								1337	1.25	0.0017		
								1338	1.41	0.0020		
								1339	1.62	0.0023		
								1340	1.77	0.0026		
								1341	1.96	0.0030		
								1342	2.29	0.0035		
								1343	2.68	0.0040		
								1344	3.10	0.0046		
								1345	3.91	0.0054		
								1346	6.98	0.0065		
								1347	14.99	0.0086		
								1348	25.61	0.0125		
								1349	30.70	0.0193		
								1350	34.16	0.0256		
								1351	36.63	0.0325		
								1352	38.20	0.0398		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.012412.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
							7-19	1353	38.97	0.0492
								1355	38.46	0.0642
								1400	37.13	0.1045
								1403	36.19	0.1258
								1405	36.69	0.1417
								1407	38.97	0.1564
								1409	41.36	0.1739
								1411	44.33	0.1905
								1413	46.84	0.2104
								1415	48.35	0.2312
								1418	49.18	0.2596
								1420	48.84	0.2810
								1425	46.36	0.3295
								1430	43.33	0.3773
								1433	41.36	0.4019
								1436	38.84	0.4272
								1439	36.19	0.4508
								1442	33.98	0.4729
								1445	32.30	0.4938
								1448	30.30	0.5120
								1451	28.40	0.5305
								1454	26.60	0.5478
								1457	25.01	0.5641
								1500	23.46	0.5794
								1505	21.18	0.6021
								1510	19.27	0.6227
								1515	17.77	0.6425
								1520	16.45	0.6599
								1525	15.17	0.6760
								1530	14.02	0.6916
								1535	12.86	0.7053
								1540	11.73	0.7178
								1545	10.93	0.7299
								1550	10.06	0.7406
								1555	9.38	0.7505
								1600	8.82	0.7602
								1605	8.24	0.7689
								1610	7.67	0.7770
								1615	7.15	0.7849
								1620	6.82	0.7920
								1625	6.42	0.7987
								1630	5.97	0.8053
								1635	5.59	0.8112
								1640	5.22	0.8167
								1645	4.86	0.8221
								1650	4.57	0.8269
								1704	3.74	0.8390
								1724	2.97	0.8528
								1744	2.40	0.8639
								1804	1.93	0.8729
								1824	1.56	0.8801
								1844	1.24	0.8859
								1904	1.11	0.8908
								1934	0.81	0.8967
								2004	0.65	0.9012
								2034	0.51	0.9048
								2104	0.39	0.9076
								2134	0.32	0.9098
								2204	0.26	0.9116
								2234	0.22	0.9131
								2304	0.19	0.9144
								2400	0.15	0.9164
							7-20	104	0.13	0.9183
								204	0.11	0.9198
								404	0.08	0.9221
								604	0.06	0.9239
								1200	0.04	0.9277
								1400	0.03	0.9285
								1600	0.01	0.9290
								1800	0.01	0.9293
								2400	0.02	0.9304

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.012412.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y-4

RIESEL (WACO), TEXAS WATERSHED Y-6

LOCATION: Falls Co., Texas; 18 mi. SE of Waco.; Brazos River Basin.

AREA: 16.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 5.10	3.42	3.26	4.29	6.81	8.70	5.64	0.36	3.65	0.83	5.95	0.59	48.60	
	O 1.713	0.832	1.530	0.780	1.999	2.993	1.072	0.0	0.0	0.0	0.208	0.045	11.173	
STA AV	P 2.12	2.71	2.13	4.00	4.05	3.87	1.57	2.12	2.63	2.69	3.01	2.27	33.17	
	O 0.309	0.369	0.330	0.694	0.829	0.609	0.120	0.048	0.106	0.221	0.354	0.280	4.268	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		Maximum Volume for Selected Time Interval													
	Date	Vol.	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1968	6-2	1.415	6-2	0.844	6-2	1.046	6-2	1.198	6-2	1.222	6-2	1.510	6-2	1.752	5-27	1.802
MAXIMUMS FOR PERIOD OF RECORD																
	6-10	3.790	3-29	1.900	3-29	2.340	3-29	2.950	3-29	3.130	3-29	3.670	11-22	4.870	4-19	8.490
	1941		1965		1965		1965		1965		1965		1940		1957	

NOTES: Watershed conditions: 93% row grain sorghum; 5% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, OSOA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69B and 75A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.25S	1.41	0.0	1.57	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.17	0.0	3.29	1.48	0.0	0.0	0.0	0.70	0.02E		
3	0.17	0.0	0.0	0.32	0.69	0.57	0.0	0.0	0.43	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.88	0.0	0.0	0.0		
5	0.74	0.0	0.27	0.0	0.0	0.02E	0.0	0.0	0.07	0.01E	0.0	0.0		
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.07S	0.0	0.08E	0.0	0.68	0.0	0.71	0.0	0.0	0.0	0.87	0.0		
9	0.0 S	0.0	0.0	0.13	0.58	0.0	1.02	0.0	0.0	0.81	0.0	0.0		
10	0.0	0.0 E	1.36	0.0	2.19	0.0	0.03E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.24	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.56	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.17		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.29	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.09	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.72	0.0		
16	0.0	0.0	0.0	0.0	0.01E	0.27	0.0	0.0	0.0	0.01E	0.0	0.0		
17	0.0	0.01E	0.0	0.0	1.39	0.0	0.0	0.0	0.60	0.0	0.0	0.0		
18	0.95	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E		
19	0.0	0.41	0.08E	0.32	0.0	0.0	2.11	0.0	0.0	0.0	0.0	0.0		
20	0.27	0.0	0.16	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.10		
21	1.30	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.12		
22	0.0	0.12S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.13		
23	0.01E	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0 E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.23	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.86	0.98	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.12E	0.0	0.0	1.04	0.0		
27	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	1.14	0.04E		
28	0.11E	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.46	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.10	3.42	3.26	4.29	6.81	8.70	5.64	0.36	3.65	0.83	5.95	0.59		
STA AV	2.12	2.71	2.13	4.00	4.05	3.87	1.57	2.12	2.63	2.69	3.01	2.27		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69B and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 24 yr period.

1968	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHED Y-6		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.001	0.403	0.002	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030
2	0.0 T	0.036	0.002	0.127	0.0	0.938	0.160	0.0	0.0	0.0	0.0	0.001
3	0.002	0.008	0.001	0.056	0.002	0.265	0.006	0.0	0.0	0.0	0.0	0.0 T
4	0.001	0.004	0.001	0.012	0.0 T	0.022	0.0 T	0.0	0.0	0.0	0.0	0.0
5	0.028	0.003	0.002	0.003	0.0	0.006	0.0 T	0.0	0.0	0.0	0.0	0.0
6	0.025	0.001	0.005	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.001	0.001	0.001	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0 T	0.001	0.001	0.001	0.005	0.001	0.007	0.0	0.0	0.0	0.0	0.0
9	0.123	0.001	0.002	0.002	0.002	0.001	0.142	0.0	0.0	0.0	0.0	0.0
10	0.087	0.001	0.241	0.001	0.820	0.0 T	0.006	0.0	0.0	0.0	0.0	0.0
11	0.052	0.001	0.720	0.0 T	0.018	0.0 T	0.003	0.0	0.0	0.0	0.0	0.0
12	0.012	0.0 T	0.047	0.202	0.007	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0
13	0.003	0.0 T	0.005	0.031	0.003	0.0	0.003	0.0	0.0	0.0	0.0	0.0
14	0.002	0.012	0.002	0.005	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
15	0.001	0.007	0.002	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.001	0.003	0.002	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0 T	0.002	0.001	0.002	0.379	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.078	0.002	0.0 T	0.002	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.038	0.016	0.001	0.017	0.003	0.0	0.401	0.0	0.0	0.0	0.0	0.0
20	0.039	0.004	0.003	0.004	0.001	0.0	0.005	0.0	0.0	0.0	0.0	0.0
21	0.496	0.004	0.002	0.006	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
22	0.132	0.004	0.001	0.003	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
23	0.018	0.007	0.001	0.001	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
24	0.007	0.003	0.001	0.001	0.0	0.614	0.0	0.0	0.0	0.0	0.0	0.0
25	0.004	0.002	0.0 T	0.0 T	0.057	0.111	0.0	0.0	0.0	0.0	0.0	0.0
26	0.002	0.001	0.0 T	0.0 T	0.010	0.084	0.0	0.0	0.0	0.0	0.0	0.0
27	0.002	0.0 T	0.0 T	0.0 T	0.040	0.002	0.0	0.0	0.0	0.0	0.0	0.0
28	0.006	0.041	0.0 T	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
29	0.004	0.004	0.0 T	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
30	0.011	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.143	0.0
31	0.008	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0378	0.0197	0.0338	0.0178	0.0442	0.0683	0.0237	0.0	0.0	0.0	0.0048	0.0010
INCHES	1.713	0.832	1.530	0.780	1.999	2.993	1.072	0.0	0.0	0.0	0.208	0.045
STA AV	0.309	0.369	0.330	0.694	0.829	0.609	0.120	0.048	0.106	0.221	0.354	0.280

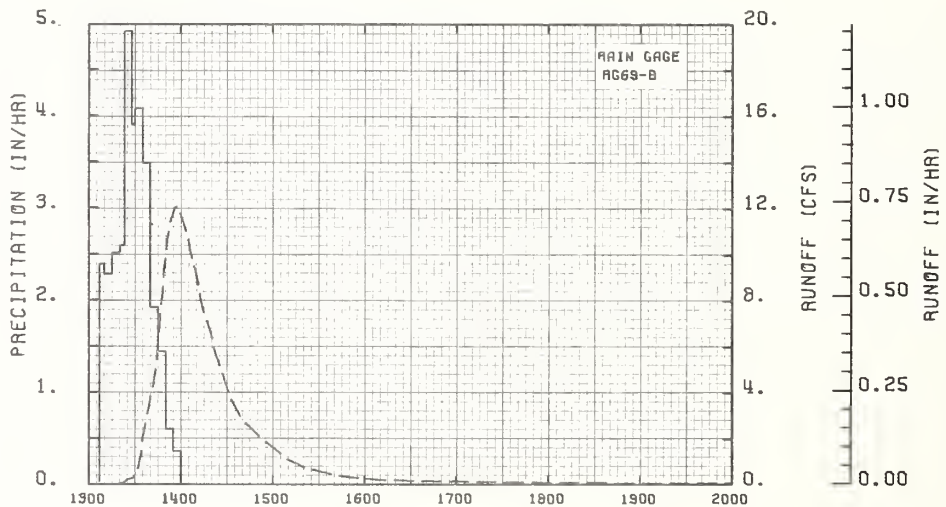
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.460215. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 24 yr period.

1968	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS				WATERSHED Y-6		
ANTECEDENT CONDITIONS		Date		RAINFALL		Date		RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 19 - 20, 1968										
7-19	RG 69-B 0.0	0.0	7-19	RG 69-8 1307	0.0	0.0	7-19	1307	0.0	0.0
				1310	2.4000	0.12		1309	0.0	0.0
				1315	2.2800	0.31		1311	0.0	0.0
				1320	2.5200	0.52		1313	0.0	0.0
				1323	2.6000	0.65		1315	0.01	0.0
				1328	4.9200	1.06		1317	0.02	0.0
				1330	3.8999	1.19		1319	0.03	0.0
				1335	4.0800	1.53		1321	0.07	0.0001
				1340	3.4800	1.82		1323	0.13	0.0003
				1345	1.9200	1.98		1325	0.24	0.0007
				1350	1.4400	2.10		1327	0.28	0.0012
				1355	0.6000	2.15		1329	0.31	0.0018
				1400	0.3600	2.18		1330	0.45	0.0023
								1331	0.50	0.0028
								1332	0.65	0.0034
								1333	1.07	0.0042
								1334	1.33	0.0056
								1335	2.09	0.0072
								1336	2.35	0.0093
								1339	3.44	0.0182
								1340	3.76	0.0216
								1341	4.08	0.0253
								1342	4.38	0.0303
								1343	4.83	0.0347
								1344	5.35	0.0395
								1345	6.31	0.0464
								1346	6.98	0.0527
								1347	7.81	0.0597
								1348	8.38	0.0674
								1349	9.39	0.0780
								1350	10.05	0.0872
								1351	10.65	0.0970
								1353	11.46	0.1206
								1356	12.08	0.1542
								1358	12.08	0.1800

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060842.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
							7-19	1401	11.49	0.2164
								1404	10.79	0.2508
								1407	9.86	0.2802
								1410	9.12	0.3095
								1413	7.96	0.3359
								1416	7.25	0.3594
								1419	6.72	0.3810
								1422	5.80	0.3988
								1426	5.04	0.4207
								1432	3.79	0.4480
								1435	3.40	0.4591
								1440	2.80	0.4746
								1445	2.47	0.4884
								1450	2.15	0.4999
								1455	1.86	0.5099
								1500	1.59	0.5189
								1505	1.33	0.5262
								1510	1.07	0.5322
								1515	0.91	0.5374
								1520	0.74	0.5415
								1525	0.63	0.5449
								1530	0.57	0.5480
								1540	0.41	0.5529
								1550	0.30	0.5565
								1600	0.25	0.5593
								1610	0.19	0.5615
								1630	0.15	0.5650
								1700	0.11	0.5690
								1800	0.07	0.5745
								1900	0.04	0.5777
								2000	0.03	0.5796
								2200	0.02	0.5825
								2400	0.01	0.5846
							7-20	600	0.01	0.5888
								1030	0.0	0.5905
								1330	0.0	0.5910
								1630	0.0	0.5912
								2030	0.0	0.5912
								2400	0.0	0.5912

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060842.



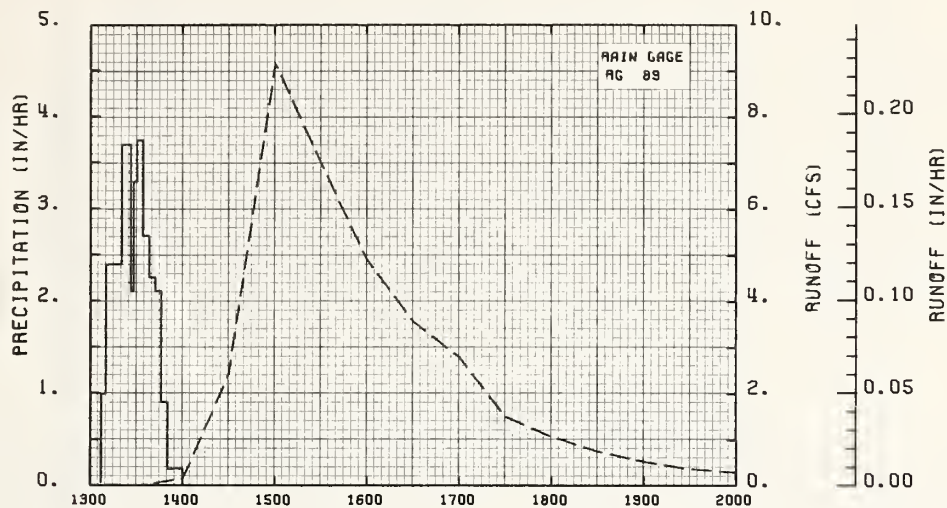
EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y-6

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.002	1.466	0.0 T	0.144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.062
2	0.001	0.015	0.0	0.494	0.0	2.345	0.255	0.0	0.0	0.0	0.0	0.0 T
3	0.001	0.001	0.0	0.086	0.0 T	1.384	0.031	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0 T	0.0	0.010	0.0 T	0.051	0.0 T	0.0	0.0	0.0	0.0	0.0
5	0.345	0.0	0.001	0.0 T	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
6	0.077	0.0	0.009	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
7	0.001	0.0	0.001	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
9	0.456	0.0	0.004	0.0	0.0 T	0.0	0.877	0.0	0.0	0.0	0.0	0.0
10	0.484	0.0	0.461	0.0	2.482	0.0	0.003	0.0	0.0	0.0	0.0	0.0
11	0.124	0.0	2.679	0.0	0.018	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
12	0.029	0.0	0.064	0.934	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.004	0.0	0.003	0.054	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.001	0.027	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0 T	0.0	0.0	1.286	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.593	0.001	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.065	0.073	0.0	0.0 T	0.001	0.0	0.733	0.0	0.0	0.0	0.0	0.0
20	0.144	0.011	0.001	0.0 T	0.0 T	0.0	0.007	0.0	0.0	0.0	0.0	0.0
21	1.969	0.007	0.001	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.175	0.005	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.022	0.005	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.006	0.002	0.0	0.0	0.0	2.515	0.0	0.0	0.0	0.0	0.0	0.0
25	0.002	0.0 T	0.0	0.0	0.0 T	0.397	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.0 T	0.0	0.0	0.019	0.630	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.003	0.001	0.0	0.0	0.0	0.0	0.008	0.0
28	0.002	0.423	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.004	0.0
29	0.002	0.008	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.499	0.0
31	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.1464	0.0709	0.1040	0.0576	0.1243	0.2444	0.0615	0.0	0.0	0.0	0.0170	0.0020
INCHES	2.700	1.223	1.918	1.028	2.294	4.362	1.134	0.0	0.0	0.0	0.304	0.037
STA AV	0.367	0.481	0.461	0.876	0.985	0.722	0.113	0.115	0.163	0.202	0.454	0.357

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.595038. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 24 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-7												
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG 89 0.0	0.0	7-19	RG 89 1307	0.0	0.0	7-19	1330	0.0	0.0		
				1310	1.0000	0.05		1400	0.16	0.0010		
				1320	2.4000	0.45		1430	2.44	0.0172		
				1326	3.7000	0.82		1500	9.15	0.0891		
				1328	2.1000	0.89		1530	6.97	0.1890		
WATERSHED CONDITIONS: 100% pasture, Bermuda grass, fair cover, moderately grazed.												
				1330	3.3000	1.00		1600	4.88	0.2624		
				1334	3.7500	1.25		1630	3.54	0.3146		
				1338	2.7000	1.43		1700	2.77	0.3538		
				1342	2.2500	1.58		1730	1.48	0.3802		
				1346	2.1000	1.72		1800	1.05	0.3959		
				1350	0.9000	1.78		1830	0.73	0.4070		
				1400	0.1800	1.81		1900	0.51	0.4147		
								1930	0.35	0.4201		
								2000	0.28	0.4240		
								2030	0.21	0.4270		
								2130	0.12	0.4311		
								2230	0.09	0.4337		
								2330	0.06	0.4355		
								2400	0.04	0.4361		
							7-20	200	0.03	0.4378		
								400	0.02	0.4388		
								600	0.01	0.4394		
								900	0.0	0.4399		
								1200	0.0	0.4402		
								1500	0.0	0.4403		
								1800	0.0	0.4403		
								2040	0.0	0.4403		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.024793.



EVENT OF JULY 19 - 20, 1968
 RIESEL (WACO), TEXAS WATERSHED Y-7

RIESEL (WACO), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 20.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	5.07	3.28	3.29	4.27	6.86	8.81	5.39	0.35	3.55	0.79	6.00	0.59	48.25
	O	2.097	0.993	1.658	0.839	2.462	4.210	1.518	0.0	0.0	0.138	0.022	13.937	
STA AV	P	2.04	2.72	2.23	4.10	3.97	4.02	1.61	2.16	2.74	2.80	3.10	2.30	33.78
	O	0.349	0.416	0.397	0.811	0.891	0.671	0.133	0.067	0.143	0.134	0.408	0.307	4.729

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
1968	6-2	2.093	6-2	1.119	6-2	1.382	6-2	1.515	6-2	1.533	6-2	1.966	6-2	2.355	5-27	2.446

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	6-10	3.290	4-19	2.410	4-19	2.800	4-23	3.320	4-23	3.370	3-29	3.590	11-22	5.640	4-19	9.100
	1941		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 95% cotton; 3% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. Precipitation data obtained from rain gage 75A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.24S	1.32	0.0	1.52	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.17	0.0	3.42	1.58	0.0	0.0	0.0	0.71	0.03E		
3	0.17	0.0	0.0	0.30	0.70	0.61	0.0	0.0	0.38	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.85	0.0	0.0	0.0		
5	0.77	0.0	0.25	0.0	0.0	0.03E	0.0	0.0	0.09	0.01E	0.0	0.0		
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.04S	0.0	0.08E	0.0	0.68	0.0	0.71	0.0	0.0	0.0	0.85	0.0		
9	0.0 S	0.0	0.0	0.12	0.55	0.0	0.93	0.0	0.0	0.76	0.0	0.0		
10	0.0	0.0 E	1.39	0.0	2.20	0.0	0.03E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.27	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.58	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.17		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.18	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.63	0.0	0.0	0.0	0.0 E	0.0	0.0	1.04	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.73	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.22	0.0	0.0	0.0	0.02E	0.0	0.0		
17	0.0	0.02E	0.0	0.0	1.39	0.0	0.0	0.58	0.0	0.0	0.0	0.0		
18	0.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E		
19	0.0	0.41	0.07E	0.35	0.0	0.0	1.96	0.0	0.0	0.0	0.0	0.0		
20	0.26	0.0	0.15	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.09		
21	1.28	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13		
22	0.0	0.12S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.13		
23	0.0 E	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.52	0.0	0.0	0.23	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.91	1.06	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.08E	0.0	0.0	1.03	0.0		
27	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	1.21	0.03E		
28	0.10E	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.43	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		5.07	3.28	3.29	4.27	6.86	8.81	5.39	0.35	3.55	0.79	6.00	0.59	
STA AV		2.04	2.72	2.23	4.10	3.97	4.02	1.61	2.16	2.74	2.80	3.10	2.30	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 75A. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.545	0.004	0.107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019
2	0.0	0.068	0.004	0.191	0.0	1.691	0.365	0.0	0.0	0.0	0.0	0.0
3	0.0	0.019	0.001	0.060	0.001	0.367	0.014	0.0	0.0	0.0	0.0	0.0
4	0.0	0.006	0.0	0.005	0.0 T	0.019	0.0 T	0.0	0.0	0.0	0.0	0.0
5	0.028	0.002	0.004	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
6	0.025	0.0 T	0.014	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.003	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
8	0.003	0.0	0.002	0.0	0.003	0.0	0.015	0.0	0.0	0.0	0.0	0.0
9	0.180	0.0	0.009	0.0	0.002	0.0	0.425	0.0	0.0	0.0	0.0	0.0
10	0.177	0.0	0.200	0.0	1.283	0.0	0.002	0.0	0.0	0.0	0.0	0.0
11	0.084	0.0	1.059	0.0	0.021	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
12	0.024	0.0	0.105	0.340	0.006	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
13	0.006	0.0	0.024	0.023	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0
14	0.004	0.022	0.007	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.001	0.011	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0 T	0.005	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0 T	0.005	0.001	0.0	0.582	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.126	0.004	0.0 T	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.062	0.044	0.001	0.003	0.0 T	0.0	0.500	0.0	0.0	0.0	0.0	0.0
20	0.089	0.012	0.006	0.0 T	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
21	0.717	0.014	0.0 T	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.179	0.007	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.041	0.015	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.017	0.007	0.0	0.0	0.0	1.238	0.0	0.0	0.0	0.0	0.0	0.0
25	0.007	0.003	0.0	0.0	0.155	0.235	0.0	0.0	0.0	0.0	0.0	0.0
26	0.002	0.001	0.0	0.0	0.013	0.126	0.0	0.0	0.0	0.0	0.0	0.0
27	0.003	0.0	0.0	0.0	0.073	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
28	0.012	0.069	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
29	0.006	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.120	0.0
31	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0591	0.0299	0.0467	0.0244	0.0694	0.1226	0.0428	0.0	0.0	0.0	0.0040	0.0006
INCHES	2.097	0.993	1.658	0.839	2.462	4.210	1.518	0.0	0.0	0.0	0.138	0.022
STA AV	0.349	0.416	0.397	0.811	0.891	0.671	0.133	0.067	0.143	0.134	0.408	0.307

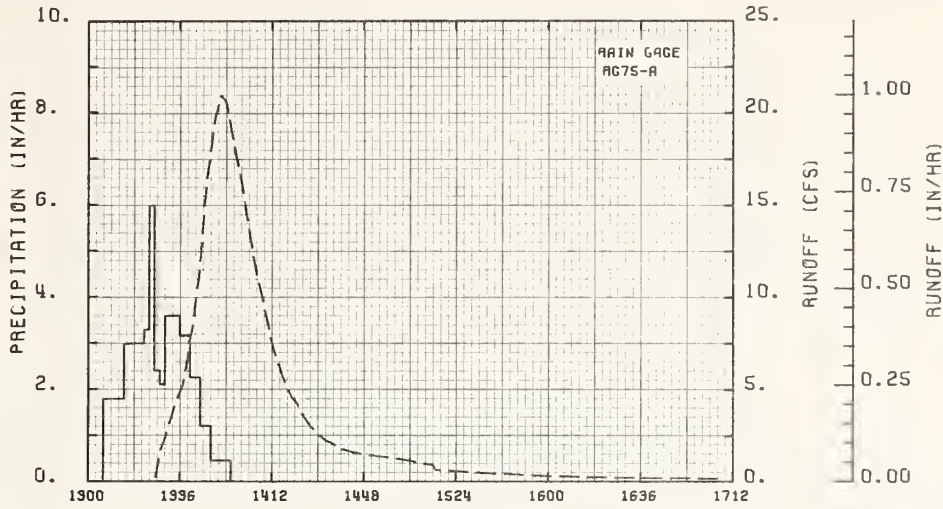
NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 1.144303. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-8											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968											
7-19	RG 75-A 0.0	0.0	7-19	RG 75-A 1306	0.0	0.0	7-19	1310	0.0	0.0	
				1310	1.8000	0.12		1312	0.0	0.0	
				1314	1.8000	0.24		1314	0.0	0.0	
				1318	3.0000	0.84		1319	0.01	0.0	
				1322	3.0000	0.64		1324	0.01	0.0	
WATERSHED CONDITIONS:											
	95% cotton, 12 to 14 inches			1324	3.3000	0.75		1326	0.01	0.0	
	high; 3% pasture, Bermuda-			1326	6.0001	0.95		1327	0.66	0.0003	
	grass, good cover, moderately			1328	2.4000	1.03		1328	1.62	0.0011	
	grazed; 2% gravel roads.			1330	2.1000	1.10		1329	1.94	0.0024	
	Cropland terraced, cultivated			1332	3.6001	1.22		1330	2.37	0.0044	
	on contour.			1336	3.6000	1.46		1331	2.78	0.0063	
				1340	3.1500	1.67		1332	3.25	0.0085	
				1344	2.2500	1.82		1333	3.68	0.0111	
				1348	1.2000	1.90		1334	4.18	0.0148	
				1356	0.4500	1.96		1335	4.51	0.0180	
								1336	4.87	0.0215	
								1337	5.28	0.0253	
								1338	5.91	0.0305	
								1339	6.84	0.0352	
								1340	7.76	0.0406	
								1341	8.53	0.0467	
								1342	9.64	0.0552	
								1343	10.70	0.0628	
								1344	11.96	0.0712	
								1345	13.99	0.0833	
								1346	15.73	0.0944	
								1347	16.93	0.1066	
								1348	17.82	0.1195	
								1349	19.11	0.1367	
								1350	19.93	0.1512	
								1352	20.91	0.1816	
								1354	20.54	0.2163	
								1356	19.11	0.2458	
								1358	17.64	0.2766	
								1400	16.36	0.3051	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047679.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-8							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
							7-19	1402	14.56	0.3281
								1404	12.81	0.3510
								1406	11.25	0.3689
								1408	10.11	0.3868
								1410	8.80	0.4009
								1412	7.53	0.4146
								1414	6.55	0.4251
								1416	5.80	0.4354
								1418	5.02	0.4435
								1420	4.53	0.4515
								1422	4.18	0.4580
								1424	3.59	0.4645
								1427	3.01	0.4725
								1430	2.54	0.4792
								1433	2.21	0.4845
								1436	2.02	0.4896
								1439	1.76	0.4942
								1442	1.63	0.4983
								1447	1.46	0.5044
								1452	1.37	0.5099
								1457	1.30	0.5154
								1502	1.20	0.5203
								1507	1.07	0.5247
								1515	0.88	0.5311
								1516	0.63	0.5317
								1524	0.54	0.5354
								1534	0.45	0.5393
								1544	0.39	0.5426
								1559	0.29	0.5466
								1619	0.22	0.5507
								1639	0.18	0.5539
								1659	0.16	0.5566
								1729	0.14	0.5602
								1759	0.10	0.5631
								1829	0.08	0.5652
								1859	0.05	0.5667
								1959	0.03	0.5687
								2059	0.02	0.5699
								2159	0.02	0.5708
								2400	0.01	0.5720
							7-20	600	0.01	0.5742
								1200	0.0	0.5754
								1400	0.0	0.5756
								1500	0.0	0.5756
								1700	0.0	0.5756

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047679.



EVENT OF JULY 19 - 20, 1968
 RIESEL (WACO), TEXAS WATERSHED Y-8

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RIESEL (WACO), TEXAS WATERSHED Y-10

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 18.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS		WATERSHED Y-10		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1968	P 5.13	3.47	3.28	4.35	6.80	8.72	5.88	0.43	3.69	0.83	6.04	0.59	49.20				
	O 3.104	1.168	2.058	0.946	1.474	4.265	1.855	0.0	0.0	0.0	0.454	0.247	15.571				
STA AV	P 2.19	2.61	2.17	3.98	4.06	3.75	1.53	2.11	2.62	2.59	2.95	2.31	32.89				
	O 0.446	0.420	0.454	0.921	0.787	0.683	0.148	0.087	0.202	0.183	0.421	0.336	5.089				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	6-2	1.344	6-2	1.025	6-2	1.393	6-2	1.733	3-10	1.896	6-2	2.128	6-2	2.348	5-28	2.369
MAXIMUMS FOR PERIOD OF RECORD																
	4-19	3.730	4-19	2.900	4-19	3.480	3-29	4.130	3-29	4.270	3-29	4.620	4-23	5.340	4-19	10.57
	1957		1957		1957		1965		1965		1965		1957		1957	

NOTES: Watershed conditions: 93% fall planted small grain, largely oats; 4% pasture; 3% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69 and 69B. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS		WATERSHED Y-10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.25S	1.45	0.0	1.61	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.18	0.0	3.33	1.58	0.0	0.0	0.0	0.73	0.02E				
3	0.17	0.0	0.0	0.33	0.72	0.53	0.0	0.0	0.41	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.89	0.0	0.0	0.0				
5	0.73	0.0	0.27	0.0	0.0	0.01E	0.0	0.0	0.07	0.01E	0.0	0.0				
6	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	1.11S	0.0	0.09E	0.0	0.66	0.0	0.73	0.0	0.0	0.0	0.89	0.9				
9	0.0 S	0.0	0.0	0.13	0.57	0.0	0.98	0.0	0.0	0.81	0.0	0.0				
10	0.0	0.00E	1.34	0.0	2.19	0.0	0.03E	0.0	0.0	0.0	0.0	0.0				
11	0.01E	0.0	1.28	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.00E	0.0	0.0	1.55	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.17				
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.37	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.10	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.72	0.0				
16	0.0	0.0	0.0	0.0	0.01E	0.29	0.0	0.0	0.0	0.00E	0.0	0.0				
17	0.0	0.01E	0.0	0.0	1.40	0.0	0.0	0.0	0.64	0.0	0.0	0.0				
18	0.93	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E				
19	0.0	0.41	0.08E	0.34	0.0	0.0	2.19	0.0	0.0	0.0	0.0	0.0				
20	0.26	0.0	0.16	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.09				
21	1.30	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13				
22	0.0	0.12S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.01E	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0 E	0.13				
24	0.0	0.0	0.0	0.0	0.0	2.60	0.0	0.0	0.22	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.84	0.93	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.21	0.0	0.0	1.07	0.0				
27	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	1.14	0.04E				
28	0.10E	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.47	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	5.13	3.47	3.28	4.35	6.80	8.72	5.88	0.43	3.69	0.83	6.04	0.59				
STA AV	2.19	2.61	2.17	3.98	4.06	3.75	1.53	2.11	2.62	2.59	2.95	2.31				

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69 and 69B. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.005	0.838	0.0	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.140
2	0.0 T	0.001	0.0	0.208	0.0	1.354	0.322	0.0	0.0	0.0	0.0	0.043
3	0.002	0.0	0.0	0.077	0.0	0.479	0.016	0.0	0.0	0.0	0.0	0.009
4	0.0 T	0.0	0.0	0.003	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.001
5	0.217	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0 T
6	0.046	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0
9	0.289	0.0	0.0	0.0	0.0 T	0.0	0.369	0.0	0.0	0.0	0.0	0.0
10	0.364	0.0	0.463	0.0	0.808	0.0	0.001	0.0	0.0	0.0	0.0	0.0
11	0.087	0.0	1.137	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.014	0.0	0.008	0.395	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0	0.003	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
14	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.333	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.304	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.025	0.005	0.0	0.0 T	0.0	0.0	0.739	0.0	0.0	0.0	0.0	0.0
20	0.098	0.0 T	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
21	0.899	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	1.202	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.001	0.106	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.171	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.015	0.0
28	0.0	0.061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0
29	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
30	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.328	0.0
31	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0782	0.0315	0.0519	0.0246	0.0372	0.1111	0.0468	0.0	0.0	0.0	0.0118	0.0062
INCHES	3.104	1.168	2.058	0.946	1.474	4.265	1.855	0.0	0.0	0.0	0.454	0.247
STA AV	0.446	0.420	0.454	0.921	0.787	0.683	0.148	0.087	0.202	0.183	0.421	0.336

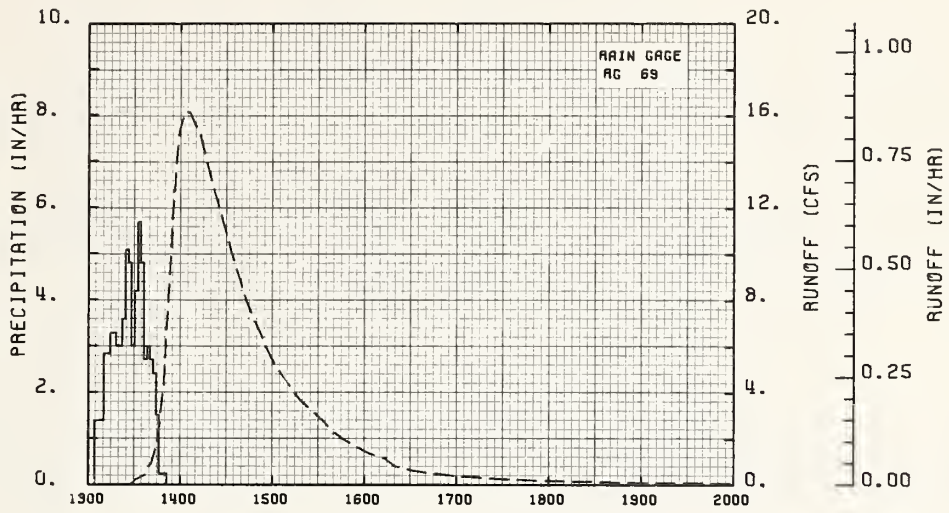
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.279651. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-10												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG 69 0.0	0.0	7-19	RG 69 1304	0.0	0.0	7-19	1315	0.0	0.0		
				1310	1.4000	0.14		1317	0.0	0.0		
				1314	2.8500	0.33		1320	0.0	0.0		
				1318	3.3000	0.55		1324	0.01	0.0		
				1322	3.0000	0.75		1325	0.01	0.0		
WATERSHED CONDITIONS: 93% tilled, bare; 4% pasture, Bermuda grass, good cover, moderately grazed; 3% gravel roads. Cropland terraced, contour cultivation.												
				1324	3.6000	0.87		1326	0.02	0.0		
				1326	5.1001	1.04		1327	0.04	0.0		
				1328	4.7999	1.20		1328	0.08	0.0		
				1330	3.0000	1.30		1329	0.13	0.0001		
				1332	4.2000	1.44		1330	0.18	0.0003		
				1334	5.6999	1.63		1331	0.25	0.0005		
				1336	4.8001	1.79		1333	0.33	0.0010		
				1338	2.7000	1.88		1335	0.41	0.0017		
				1340	3.0000	1.98		1337	0.46	0.0024		
				1342	2.7000	2.07		1338	0.58	0.0029		
				1344	2.4000	2.15		1339	0.74	0.0035		
				1346	1.5000	2.20		1340	0.89	0.0042		
				1351	0.2400	2.22		1341	0.94	0.0050		
								1342	1.22	0.0061		
								1343	1.41	0.0072		
								1344	1.73	0.0085		
								1345	1.97	0.0104		
								1346	2.49	0.0123		
								1347	3.21	0.0147		
								1348	3.78	0.0176		
								1349	4.20	0.0218		
								1350	5.66	0.0259		
								1351	7.01	0.0312		
								1352	8.14	0.0375		
								1353	9.47	0.0467		
								1354	10.59	0.0551		
								1355	11.96	0.0645		
								1356	12.81	0.0748		
								1357	13.89	0.0887		
								1358	14.62	0.1006		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-10							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			JULY 19 - 20, 1968 (CONTINUED)							
						7-19				
						1359 15.33 0.1131				
						1401 15.83 0.1423				
						1403 16.16 0.1689				
						1406 16.09 0.2126				
						1409 15.63 0.2555				
						1413 15.07 0.3099				
						1418 13.70 0.3728				
						1423 12.44 0.4327				
						1428 11.31 0.4846				
						1433 10.08 0.5314				
						1438 8.99 0.5751				
						1443 7.94 0.6121				
						1448 7.13 0.6450				
						1453 6.40 0.6760				
						1458 5.64 0.7023				
						1503 5.04 0.7257				
						1508 4.55 0.7477				
						1513 4.12 0.7667				
						1518 3.66 0.7837				
						1523 3.34 0.7998				
						1528 3.05 0.8138				
						1533 2.75 0.8265				
						1538 2.39 0.8383				
						1543 2.12 0.8482				
						1548 1.88 0.8569				
						1553 1.72 0.8652				
						1558 1.52 0.8723				
						1603 1.34 0.8786				
						1608 1.22 0.8845				
						1613 1.13 0.8896				
						1620 0.79 0.8956				
						1630 0.63 0.9020				
						1640 0.53 0.9071				
						1700 0.37 0.9152				
						1730 0.24 0.9233				
						1800 0.17 0.9288				
						1830 0.13 0.9328				
						1900 0.09 0.9358				
						2000 0.06 0.9398				
						2100 0.04 0.9423				
						2200 0.03 0.9439				
						2300 0.02 0.9451				
						2400 0.01 0.9459				
						7-20				
						300 0.0 0.9472				
						600 0.0 0.9477				
						900 0.0 0.9479				
						1030 0.0 0.9479				
						1300 0.0 0.9479				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.053319.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y-10

RIESEL (WACO), TEXAS WATERSHED SW-12

LOCATION: McLennan Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 2.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED SW-12	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	4.44	3.42	3.01	4.55	6.92	9.12	5.74	0.59	3.74	0.75	6.20	0.60	49.08	
	Q	3.083	1.898	2.269	1.606	2.51	4.339	2.039	0.0	0.0	0.135	0.017	17.901		
STA AV	P	2.17	2.68	2.14	4.00	4.02	3.86	1.56	2.09	2.61	2.59	2.95	2.27	32.93	
	Q	0.446	0.573	0.414	0.639	0.626	0.417	0.079	0.019	0.038	0.010	0.159	0.270	3.689	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
			Date	Vol.	Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	Date	Vol.		
	6-2	3.904	6-2	1.614	6-2	1.961	6-2	2.111	3-10	2.140	6-2	2.482	6-2	2.574	5-27	2.577

MAXIMUMS FOR PERIOD OF RECORD																
	3-29 1965	4.000	3-29 1965	3.070	3-29 1965	3.830	3-29 1965	4.620	3-29 1965	4.800	3-29 1965	5.340	3-29 1965	5.390	4-19 1957	8.530

NOTES: Watershed conditions: 100% native grass meadow mowed annually for hay. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 42.24-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. Precipitation data obtained from rain gage 70. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.25S	1.44	0.0	1.64	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.22	0.0	3.60	1.89	0.0	0.0	0.0	0.80	0.0		0.03E	
3	0.17	0.0	0.0	0.37	0.80	0.53	0.0	0.0	0.38	0.0	0.0	0.0		0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.96	0.0	0.0	0.0		0.0	
5	0.0	0.0	0.24	0.0	0.0	0.02E	0.0	0.0	0.08	0.02E	0.0	0.0		0.0	
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
8	1.16S	0.0	0.06E	0.0	0.70	0.0	0.75	0.0	0.0	0.0	0.89	0.0		0.0	
9	0.0 S	0.0	0.0	0.12	0.49	0.0	0.69	0.0	0.0	0.73	0.0	0.0		0.0	
10	0.0	0.0 E	1.27	0.0	2.31	0.0	0.09E	0.0	0.0	0.0	0.0	0.0		0.0	
11	-0.02E	0.0	1.14	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
12	0.0 E	0.0	0.0	1.59	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0		0.18	
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.27	0.0	0.0	0.0	0.0	0.0		0.0	
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.09	0.0	0.0	0.0		0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.75	0.0		0.0	
16	0.0	0.0	0.0	0.0	0.02E	0.29	0.0	0.0	0.0	0.0 E	0.0	0.0		0.0	
17	0.0	0.0 E	0.0	0.0	1.38	0.0	0.0	0.0	0.67	0.0	0.0	0.0		0.0	
18	0.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.01E	
19	0.0	0.42	0.08E	0.39	0.0	0.0	2.05	0.0	0.0	0.0	0.0	0.0		0.0	
20	0.26	0.0	0.14	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0		0.07	
21	1.29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0		0.14	
22	0.0	0.13S	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0		0.14	
23	0.01E	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
24	0.0	0.0	0.0	0.0	0.0	2.68	0.0	0.0	0.20	0.0	0.0	0.0		0.0	
25	0.0	0.0	0.0	0.0	0.82	1.03	0.0 E	0.0	0.0	0.0	0.0	0.0		0.0	
26	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.33	0.0	0.0	1.03	0.0		0.0	
27	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	1.19	0.03E		0.0	
28	0.10E	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0		0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
30	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48	0.0		0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
TOTAL	4.44	3.42	3.01	4.55	6.92	9.12	5.74	0.59	3.74	0.75	6.20	0.60			
STA AV	2.17	2.68	2.14	4.00	4.02	3.86	1.56	2.09	2.61	2.59	2.95	2.27			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 25 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHEO SW-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.004	0.174	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
2	0.0 T	0.0 T	0.0	0.033	0.0	0.267	0.088	0.0	0.0	0.0	0.0	0.0 T
3	0.002	0.0	0.0	0.014	0.0	0.054	0.0 T	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
5	0.046	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.092	0.0	0.0	0.0	0.0 T	0.0	0.025	0.0	0.0	0.0	0.0	0.0
10	0.009	0.0	0.111	0.0	0.215	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.001	0.0	0.172	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.001	0.0	0.0 T	0.090	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.003	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.098	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.066	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.001	0.012	0.0	0.0	0.0	0.0	0.141	0.0	0.0	0.0	0.0	0.0
20	0.014	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
21	0.133	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.159	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0 T	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
28	0.0	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.0
31	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0124	0.0082	0.0091	0.0067	0.0101	0.0180	0.0082	0.0	0.0	0.0	0.0006	0.0001
INCHES	3.083	1.898	2.269	1.606	2.515	4.339	2.039	0.0	0.0	0.0	0.135	0.017
STA AV	0.446	0.573	0.414	0.639	0.626	0.417	0.079	0.019	0.038	0.010	0.159	0.270

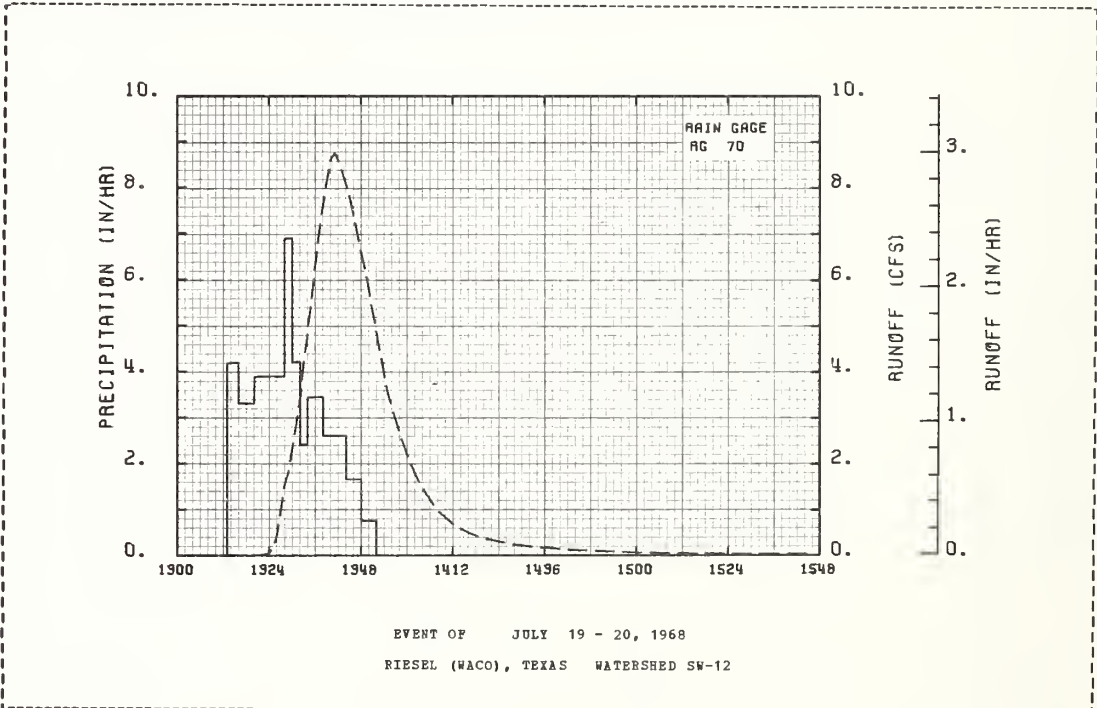
NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 8.013973. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 25 yr period.

1968		SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS				WATERSHEO SW-12	
ANTECEDENT CONOITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG 70 0.0	0.0	7-19	RG 70 1313	0.0	0.0	7-19	1308	0.0	0.0		
				1316	4.2000	0.21		1313	0.0	0.0		
				1320	3.3000	0.43		1317	0.01	0.0001		
				1324	3.9000	0.69		1320	0.01	0.0003		
				1328	3.9000	0.95		1322	0.02	0.0005		
				1330	6.8999	1.18		1323	0.04	0.0007		
				1332	4.2000	1.32		1324	0.07	0.0010		
				1334	2.4000	1.40		1325	0.17	0.0016		
				1338	3.4500	1.63		1326	0.49	0.0033		
				1344	2.6000	1.89		1327	1.01	0.0082		
				1348	1.6500	2.00		1328	1.54	0.0149		
				1352	0.7500	2.05		1329	1.86	0.0238		
								1330	2.35	0.0375		
								1331	2.83	0.0510		
								1332	3.42	0.0673		
								1333	4.23	0.0873		
								1334	4.90	0.1171		
								1335	5.55	0.1444		
								1336	6.32	0.1754		
								1337	6.98	0.2101		
								1338	7.63	0.2577		
								1339	8.15	0.2989		
								1340	8.60	0.3426		
								1341	8.76	0.3879		
								1342	8.58	0.4445		
								1343	8.34	0.4887		
								1345	7.77	0.5833		
								1347	6.96	0.6602		
								1349	6.23	0.7377		
								1351	5.29	0.7978		
								1352	4.85	0.8243		
								1353	4.39	0.8544		
								1354	3.92	0.8761		
								1355	3.51	0.8955		
								1356	3.22	0.9131		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333916.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-12							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
							7-19	1357	2.94	0.9332
								1358	2.66	0.9478
								1359	2.41	0.9610
								1400	2.19	0.9760
								1401	1.97	0.9868
								1402	1.78	0.9966
								1403	1.62	1.0055
								1404	1.48	1.0156
								1405	1.32	1.0229
								1406	1.21	1.0295
								1407	1.08	1.0355
								1408	0.97	1.0422
								1410	0.82	1.0515
								1412	0.68	1.0603
								1414	0.58	1.0669
								1416	0.49	1.0731
								1418	0.42	1.0778
								1420	0.37	1.0824
								1422	0.33	1.0861
								1424	0.29	1.0897
								1426	0.26	1.0925
								1428	0.23	1.0953
								1431	0.20	1.0989
								1434	0.17	1.1021
								1438	0.15	1.1056
								1443	0.11	1.1091
								1448	0.10	1.1119
								1453	0.08	1.1144
								1458	0.06	1.1163
								1508	0.04	1.1193
								1518	0.03	1.1214
								1528	0.02	1.1230
								1538	0.02	1.1242
								1558	0.01	1.1259
								1628	0.01	1.1274
								1800	0.0	1.1294
								2100	0.0	1.1302
								2400	0.0	1.1305
							7-20	1200	0.0	1.1309

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333916.



RIESEL (WACO), TEXAS WATERSHED SW-17

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 2.99 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS		WATERSHED SW-17		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1968	P 4.88	3.35	3.37	4.05	6.50	7.78	4.98	0.95	2.95	0.87	5.72	0.65	46.05				
	O 2.854	1.724	2.508	1.560	2.900	3.818	2.164	0.0	0.0	0.0	0.610	0.009	18.149				
STA AV	P 2.06	2.75	2.17	4.17	3.97	3.76	1.63	2.21	2.72	2.83	3.09	2.34	33.69				
	O 0.435	0.618	0.555	0.966	0.878	0.811	0.196	0.077	0.192	0.172	0.505	0.480	5.883				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	5-17	1.273	6-24	0.822	6-24	1.138	5-10	1.488	3-10	2.161	3-10	2.351	3-10	2.378	5- 9	2.637
MAXIMUMS FOR PERIOD OF RECORD																
	10-31	7.060	4-19	2.540	4-19	2.960	4-23	3.310	3-29	3.520	3-29	4.250	11-22	5.370	4-19	9.420
	1940		1957		1957		1957		1965		1965		1940		1957	

NOTES: Watershed conditions: 100% Bermuda grass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.28-5. Precipitation and runoff record began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. Precipitation data obtained from rain gage W-2. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS		WATERSHED SW-17	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	1.37	0.0	1.37	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.11	0.0	2.51	1.06	0.0	0.0	0.0	0.53	0.02E				
3	0.17	0.0	0.0	0.33	0.52	0.47	0.0	0.0	0.19	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.70	0.0	0.0	0.0				
5	0.85	0.0	0.28	0.0	0.0	0.09E	0.0	0.0	0.06	0.01E	0.0	0.0				
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	1.00S	0.0	0.08E	0.0	0.56	0.0	0.66	0.0	0.08	0.0	0.82	0.0				
9	0.0 S	0.0	0.0	0.10E	0.72	0.0	1.54	0.0	0.0	0.82	0.0	0.0				
10	0.0	0.0 E	1.42	0.0	2.13	0.0	0.01E	0.0	0.0	0.0	0.0	0.0				
11	0.01E	0.0	1.30	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0 E	0.0	0.0	1.55	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0			0.25	
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.17	0.0	0.0	0.0	0.0	0.0			0.0	
14	0.0	0.62	0.0	0.0	0.0	0.0 E	0.0	0.0	0.97	0.0	0.0	0.0			0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.69	0.0			0.0	
16	0.0	0.0	0.0	0.0	0.02E	0.13	0.0	0.0	0.0	0.04E	0.0	0.0			0.0	
17	0.0	0.0 E	0.0	0.0	1.46	0.0	0.0	0.0	0.42	0.0	0.0	0.0			0.0	
18	0.96	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 E	
19	0.0	0.39	0.07E	0.31	0.0	0.0	1.54	0.0	0.0	0.0	0.0	0.0			0.0	
20	0.28	0.0	0.15	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.09			0.0	
21	1.26	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13			0.0	
22	0.0	0.11S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.13			0.0	
23	0.01E	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0 E	0.0			0.0	
24	0.0	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.22	0.0	0.0	0.0			0.0	
25	0.0	0.0	0.0	0.0	0.80	1.12	0.0	0.0	0.0	0.0	0.0	0.0			0.0	
26	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.03E	0.0	0.0	1.11	0.0			0.0	
27	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	1.09	0.03E			0.0	
28	0.11	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0			0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	
30	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	1.40	0.0			0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	
TOTAL	4.88	3.35	3.37	4.05	6.50	7.78	4.98	0.95	2.95	0.87	5.72	0.65				
STA AV	2.06	2.75	2.17	4.17	3.97	3.76	1.63	2.21	2.72	2.83	3.09	2.34				

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-2. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 23 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-17												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.120	0.001	0.033	0.0 T	0.003	0.003	0.0	0.0	0.0	0.0	0.001
2	0.0	0.001	0.001	0.032	0.0 T	0.142	0.021	0.0	0.0	0.0	0.0	0.0
3	0.0	0.001	0.001	0.005	0.0 T	0.057	0.002	0.0	0.0	0.0	0.0	0.0
4	0.0	0.001	0.0 T	0.0 T	0.0 T	0.003	0.002	0.0	0.0	0.0	0.0	0.0
5	0.037	0.001	0.001	0.0 T	0.0 T	0.002	0.002	0.0	0.0	0.0	0.0	0.0
6	0.003	0.0 T	0.003	0.001	0.0 T	0.002	0.002	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0 T	0.001	0.001	0.0 T	0.002	0.003	0.0	0.0	0.0	0.0	0.0
8	0.0	0.001	0.001	0.001	0.001	0.002	0.005	0.0	0.0	0.0	0.0	0.0
9	0.096	0.001	0.002	0.001	0.001	0.002	0.117	0.0	0.0	0.0	0.0	0.0
10	0.015	0.001	0.101	0.001	0.210	0.002	0.002	0.0	0.0	0.0	0.0	0.0
11	0.002	0.001	0.197	0.001	0.001	0.003	0.003	0.0	0.0	0.0	0.0	0.0
12	0.001	0.001	0.002	0.093	0.001	0.003	0.003	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.001	0.001	0.002	0.001	0.004	0.004	0.0	0.0	0.0	0.0	0.0
14	0.0 T	0.011	0.001	0.001	0.001	0.004	0.004	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.002	0.0 T	0.001	0.001	0.003	0.005	0.0	0.0	0.0	0.0	0.0
16	0.0 T	0.002	0.0 T	0.001	0.001	0.001	0.007	0.0	0.0	0.0	0.0	0.0
17	0.0 T	0.002	0.0 T	0.001	0.121	0.001	0.006	0.0	0.0	0.0	0.0	0.0
18	0.045	0.002	0.0 T	0.001	0.002	0.0 T	0.005	0.0	0.0	0.0	0.0	0.0
19	0.003	0.010	0.0 T	0.004	0.001	0.0 T	0.062	0.0	0.0	0.0	0.0	0.0
20	0.007	0.002	0.0 T	0.003	0.001	0.001	0.002	0.0	0.0	0.0	0.0	0.0
21	0.135	0.002	0.0 T	0.004	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0
22	0.011	0.001	0.0 T	0.002	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0
23	0.0 T	0.002	0.0 T	0.002	0.001	0.002	0.002	0.0	0.0	0.0	0.0	0.0
24	0.0 T	0.003	0.0 T	0.002	0.001	0.174	0.002	0.0	0.0	0.0	0.0	0.0
25	0.0 T	0.003	0.0 T	0.002	0.006	0.040	0.003	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.003	0.0 T	0.001	0.005	0.021	0.001	0.0	0.0	0.0	0.004	0.0
27	0.0 T	0.003	0.0 T	0.0 T	0.002	0.001	0.001	0.0	0.0	0.0	0.016	0.0
28	0.001	0.038	0.0 T	0.0 T	0.001	0.001	0.0	0.0	0.0	0.0	0.0 T	0.0
29	0.0 T	0.002	0.0 T	0.0 T	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0
30	0.001	0.0 T	0.0 T	0.0 T	0.001	0.002	0.0	0.0	0.0	0.0	0.057	0.0
31	0.001	0.0 T	0.0 T	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0116	0.0075	0.0102	0.0065	0.0118	0.0160	0.0088	0.0	0.0	0.0	0.0026	0.0
INCHES	2.854	1.724	2.508	1.560	2.900	3.818	2.164	0.0	0.0	0.0	0.610	0.009
STA AV	0.435	0.618	0.555	0.966	0.878	0.811	0.196	0.077	0.192	0.172	0.505	0.480

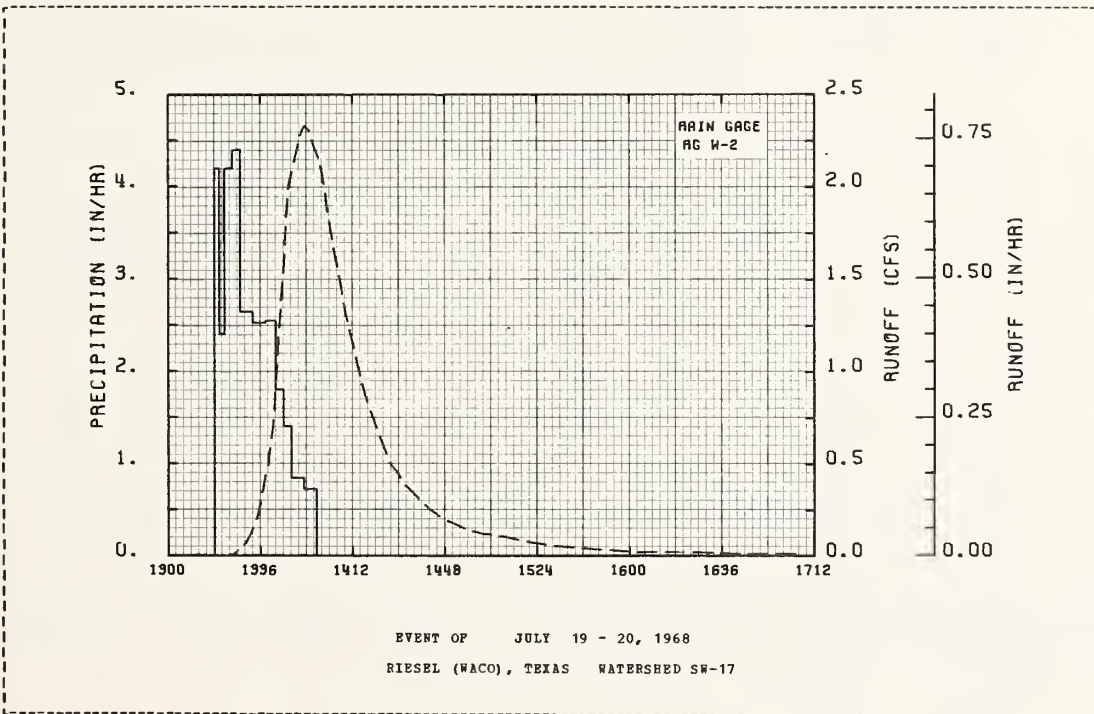
NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 7.960368. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 23 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-17												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG	H-2										
	0.0	0.020	7-19	RG	H-2		7-19	1324	0.01	0.0		
				1318	0.0	0.0		1325	0.01	0.0		
				1320	4.1999	0.14		1327	0.03	0.0002		
				1322	2.4000	0.22		1328	0.04	0.0004		
				1325	4.2000	0.43		1329	0.05	0.0006		
				1328	4.4000	0.65						
WATERSHED CONDITIONS:												
100% Bermuda grass pasture,												
10 inches high.												
				1333	2.6400	0.87		1330	0.07	0.0010		
				1338	2.5200	1.08		1331	0.09	0.0014		
				1342	2.5500	1.25		1332	0.12	0.0019		
				1345	1.8000	1.34		1333	0.15	0.0026		
				1348	1.4000	1.41		1334	0.19	0.0037		
				1353	0.8400	1.48		1335	0.22	0.0048		
				1358	0.7200	1.54		1336	0.29	0.0061		
								1337	0.37	0.0078		
								1338	0.44	0.0104		
								1339	0.50	0.0128		
								1340	0.61	0.0157		
								1341	0.72	0.0192		
								1342	0.94	0.0246		
								1343	1.18	0.0301		
								1344	1.36	0.0367		
								1345	1.55	0.0461		
								1346	1.81	0.0548		
								1347	2.00	0.0647		
								1349	2.13	0.0888		
								1351	2.25	0.1115		
								1353	2.33	0.1382		
								1355	2.30	0.1622		
								1357	2.21	0.1885		
								1359	2.14	0.2110		
								1401	2.00	0.2352		
								1402	1.89	0.2453		
								1404	1.71	0.2662		
								1407	1.50	0.2911		
								1409	1.33	0.3076		
								1411	1.21	0.3208		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331682.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-17								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968 (CONTINUED)											
								7-19	1413	1.09	0.3342
									1415	0.97	0.3462
									1417	0.86	0.3557
									1419	0.78	0.3653
									1422	0.66	0.3765
									1425	0.56	0.3868
									1427	0.49	0.3929
									1429	0.46	0.3978
									1432	0.39	0.4050
									1437	0.32	0.4147
									1442	0.25	0.4229
									1447	0.20	0.4290
									1452	0.17	0.4340
									1457	0.14	0.4385
									1502	0.12	0.4421
									1512	0.10	0.4482
									1522	0.07	0.4528
									1532	0.05	0.4563
									1542	0.04	0.4589
									1552	0.03	0.4609
									1602	0.02	0.4625
									1622	0.02	0.4648
									1642	0.01	0.4664
									1702	0.01	0.4676
									1800	0.01	0.4702
									2000	0.0	0.4736
									2400	0.0	0.4772
								7-20	2400	0.0	0.4911

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.331682.



RIESEL (WACD), TEXAS WATERSHED P-1

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACD), TEXAS WATERSHED P-1	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30
	O	2.048	1.515	1.784	1.525	2.987	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.858
STA AV	P	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62
	O	0.499	0.563	0.555	0.703	0.761	0.641	0.028	0.093	0.111	0.009	0.334	0.279	4.576

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
	5-17	3.192	5-10	0.882	5-10	1.194	5-10	1.740	5-9	1.823	5-9	1.828	5-8	1.828	5-9	2.957
MAXIMUMS PER PERIOD OF RECORD																
	6-10	7.180	3-29	2.160	3-29	2.930	3-29	3.420	3-29	3.640	3-29	4.630	4-24	5.620	4-24	7.360
	1941		1965		1965		1965		1965		1965		1966		1966	

NOTES: Watershed conditions: 100% Bermuda grass and Buffalograss pasture, heavily grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, OSDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gage W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACD), TEXAS WATERSHED P-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.18	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.16S	0.0	0.10E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS					WATERSHED P-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.010	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.002	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0 T	0.0	0.005	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0 T	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.015	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0007	0.0005	0.0006	0.0005	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	2.048	1.515	1.784	1.525	2.987	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.499	0.563	0.555	0.703	0.761	0.641	0.028	0.093	0.111	0.009	0.334	0.279	

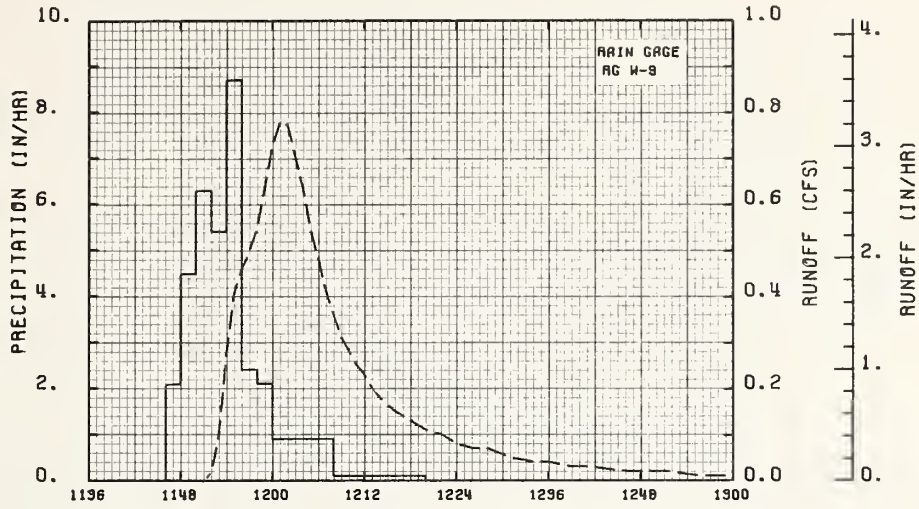
NOTES: To convert mean daily discharge in CPS to IN/OAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968				SELECTED RONOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED P-1	
ANTECEDENT CONDITIONS				RAINFALL					RONOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.					
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF MAY 17, 1968															
5-17	RG	W-9	0.0	5-17	RG	W-9	5-17	1151	0.0	0.0					
	0.0				1146	0.0		1152	0.02	0.0006					
					1148	2.1000	0.07	1153	0.10	0.0048					
					1150	4.4999	0.22	1154	0.28	0.0176					
					1152	6.3001	0.43	1155	0.41	0.0407					
					1154	5.3999	0.61								
WATERSHED CONDITIONS: 100% pasture, Bermudagrass and Buffalograss, 2 to 6 inches high, dense cover, grazed.															
					1156	8.7001	0.90	1156	0.46	0.0702					
					1158	2.4000	0.98	1157	0.50	0.1033					
					1200	2.1000	1.05	1159	0.55	0.1390					
					1208	0.9000	1.17	1159	0.64	0.1794					
					1220	0.1000	1.19	1200	0.73	0.2266					
					1320	0.0	1.19	1201	0.78	0.2780					
					1330	0.1800	1.22	1202	0.77	0.3306					
					1400	0.1400	1.29	1203	0.70	0.3804					
					1430	0.1800	1.38	1204	0.63	0.4261					
					1500	0.1800	1.47	1205	0.54	0.4655					
					1530	0.1600	1.55	1206	0.48	0.4998					
					1600	0.0800	1.59	1207	0.41	0.5299					
					1900	0.0100	1.62	1208	0.36	0.5563					
								1209	0.31	0.5790					
								1210	0.28	0.5991					
								1211	0.25	0.6171					
								1212	0.23	0.6335					
								1213	0.20	0.6480					
								1214	0.18	0.6609					
								1216	0.15	0.6837					
								1217	0.14	0.6937					
								1218	0.13	0.7028					
								1220	0.11	0.7192					
								1222	0.10	0.7333					
								1224	0.08	0.7456					
								1226	0.07	0.7563					
								1228	0.07	0.7659					
								1231	0.05	0.7782					
								1234	0.04	0.7883					
								1236	0.04	0.7938					

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED P-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 17, 1968 (CONTINUED)										
							5-17	1239	0.03	0.8006
								1241	0.03	0.8044
								1246	0.02	0.8122
								1251	0.02	0.8181
								1256	0.01	0.8229
								1301	0.01	0.8268
								1306	0.01	0.8300
								1311	0.01	0.8326
								1316	0.01	0.8348
								1326	0.01	0.8386
								1336	0.01	0.8422
								1356	0.01	0.8501
								1406	0.01	0.8548
								1416	0.01	0.8608
								1426	0.01	0.8690
								1436	0.02	0.8798
								1446	0.02	0.8937
								1456	0.03	0.9104
								1506	0.03	0.9302
								1531	0.03	0.9860
								1541	0.03	1.0075
								1546	0.03	1.0174
								1551	0.03	1.0268
								1556	0.02	1.0353
								1601	0.02	1.0427
								1606	0.02	1.0494
								1616	0.02	1.0619
								1626	0.01	1.0722
								1636	0.01	1.0806
								1646	0.01	1.0875
								1656	0.01	1.0931
								1716	0.01	1.1015
								1736	0.0	1.1075
								1756	0.0	1.1118
								1826	0.0	1.1161
								1856	0.0	1.1186
								1956	0.0	1.1221
								2056	0.0	1.1248
								2156	0.0	1.1271
								2256	0.0	1.1286
								2400	0.0	1.1290

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.



EVENT OF MAY 17, 1968
RIESEL (WACO), TEXAS WATERSHED P-1

RIESEL (WACO), TEXAS WATERSHED P-2

LOCATION: Falls Co., Texas; 19 mi. S.E. of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED P-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30	
	O	0.533	1.243	2.084	1.702	3.311	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.874	
STA AV	P	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62	
	O	0.456	0.674	0.780	0.781	0.831	0.882	0.065	0.149	0.186	0.037	0.529	0.436	5.806	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1968	5-17	3.336	5-10	0.943	5-10	1.302	5-10	1.888	5-9	2.037	5-9	2.083	5-9	2.126	5-9	3.164

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	6-10	6.650	3-29	2.240	3-29	3.110	3-29	3.940	3-29	4.500	3-29	6.220	3-29	6.220	3-29	6.240
	1941		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: 100% Bermudagrass and Buffalograss pasture, heavily grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gage W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED P-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.18	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	1.16S	0.0	0.10E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968		MEAN DAILY DISCHARGE (cfs)										RIESEL (WACD), TEXAS				WATERSHED P-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.0 T	0.007	0.0 T	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
5	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
7	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
9	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
10	0.0	0.0	0.006	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
11	0.0	0.0	0.014	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
12	0.0	0.0	0.001	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
13	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
14	0.0	0.001	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
17	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
18	0.001	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
19	0.0 T	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
20	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.003	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
22	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
23	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
28	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
MEAN	0.0002	0.0004	0.0007	0.0006	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
INCHES	0.533	1.243	2.084	1.702	3.311	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
STA AV	0.456	0.674	0.780	0.781	0.831	0.882	0.065	0.149	0.186	0.037	0.529	0.436					

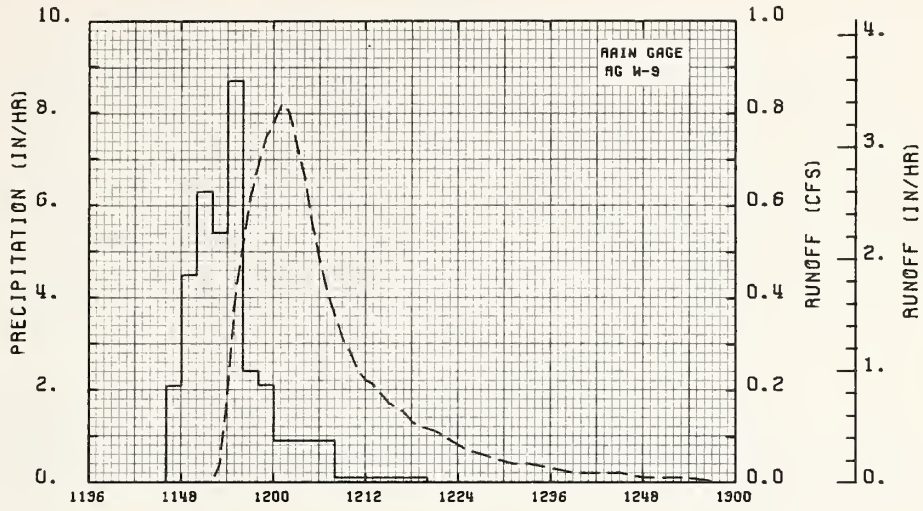
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968			SELECTED RUNOFF EVENT										RIESEL (WACO), TEXAS				WATERSHED P-2	
ANTECEDENT	CDNDITIDNS		RAINFALL				RONDFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.								
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)								
EVENT OF MAY 17 - 18, 1968																		
5-17	RG W-9 0.0	0.0	5-17	EG W-9	0.0	0.0	5-17	1147	0.0	0.0								
					1146	2.1000	0.07	1149	0.0	0.0001								
					1150	4.4999	0.22	1151	0.0	0.0002								
					1152	6.3001	0.43	1152	0.0	0.0003								
					1154	5.3999	0.61	1153	0.04	0.0017								
WATERSHED CDNDITIDNS:																		
100% pasture, Bermuda grass and Buffalo grass, 2 to 6 inches high, dense cover, grazed.																		
					1156	8.7001	0.90	1154	0.19	0.0095								
					1158	2.4000	0.98	1155	0.40	0.0295								
					1200	2.1000	1.05	1156	0.51	0.0602								
					1208	0.9000	1.17	1157	0.62	0.0990								
					1220	0.1000	1.19	1158	0.69	0.1432								
					1320	0.0	1.19	1159	0.75	0.1917								
					1330	0.1800	1.22	1200	0.78	0.2441								
					1400	0.1400	1.29	1201	0.82	0.2982								
					1430	0.1800	1.38	1202	0.80	0.3530								
					1500	0.1800	1.47	1203	0.73	0.4049								
					1530	0.1600	1.55	1204	0.66	0.4528								
					1600	0.0800	1.59	1205	0.56	0.4941								
					1900	0.0100	1.62	1206	0.48	0.5292								
								1207	0.41	0.5594								
								1208	0.36	0.5858								
								1209	0.31	0.6084								
								1210	0.28	0.6283								
								1211	0.24	0.6459								
								1212	0.22	0.6619								
								1213	0.21	0.6765								
								1214	0.19	0.6901								
								1215	0.17	0.7027								
								1216	0.16	0.7140								
								1217	0.15	0.7245								
								1218	0.13	0.7340								
								1219	0.12	0.7427								
								1221	0.11	0.7580								
								1223	0.09	0.7711								
								1225	0.07	0.7818								
								1227	0.06	0.7908								

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968 SELECTED RUNOFF EVENT			BLEESEL (WACO), TEXAS WATERSHED P-2								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF			MAY 17 - 18, 1968 (CONTINUED)								
							5-17	1229	0.05	0.7986	
								1231	0.04	0.8051	
								1233	0.04	0.8103	
								1236	0.03	0.8168	
								1239	0.02	0.8221	
								1242	0.02	0.8265	
								1245	0.02	0.8300	
								1248	0.01	0.8327	
								1253	0.01	0.8361	
								1258	0.0	0.8383	
								1303	0.0	0.8398	
								1308	0.0	0.8409	
								1313	0.0	0.8417	
								1328	0.0	0.8435	
								1343	0.0	0.8457	
								1358	0.0	0.8485	
								1403	0.0	0.8496	
								1408	0.0	0.8510	
								1413	0.01	0.8528	
								1418	0.01	0.8552	
								1423	0.01	0.8584	
								1428	0.01	0.8624	
								1433	0.02	0.8672	
								1438	0.02	0.8731	
								1443	0.02	0.8797	
								1458	0.02	0.9016	
								1508	0.03	0.9188	
								1528	0.03	0.9565	
								1548	0.02	0.9916	
								1558	0.02	1.0058	
								1608	0.01	1.0165	
								1618	0.01	1.0242	
								1628	0.01	1.0299	
								1638	0.01	1.0341	
								1648	0.0	1.0370	
								1658	0.0	1.0389	
								1728	0.0	1.0430	
								1800	0.0	1.0466	
								2000	0.0	1.0532	
								2400	0.0	1.0566	
							5-18	1100	0.0	1.0609	

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.



EVENT OF MA: 17 - 18, 1968
 RIESEL (WACO), TEXAS WATERSHED P-2

RIESEL (WACO), TEXAS WATERSHED P-3

LOCATION: Falls Co., Texas; 19 mi. S.E. of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED P-3	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30
	O	2.341	1.989	2.747	1.741	2.593	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.411
STA AV	P	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62
	O	0.594	0.764	0.660	0.821	0.975	0.817	0.056	0.111	0.204	0.074	0.492	0.390	5.959

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	5-17	1.747	5-10	0.808	3-10	1.238	3-10	1.701	3-10	2.368	3-10	2.559	3-10	2.629	3-4	2.745

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	6-10	7.630	6-10	2.130	3-29	2.690	3-29	3.200	3-29	3.430	3-29	4.270	4-24	5.860	4-23	6.960
	1941		1941		1965		1965		1965		1965		1966		1966	

NOTES: Watershed conditions: 100% Bermuda grass and Buffalograss pasture, lightly grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, OSDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gage W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED P-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.18	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.16S	0.0	0.10E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS WATERSHED P-3					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.010	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0 T	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.003	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.005	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0 T	0.0	0.011	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.001	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.004	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0 T	0.003	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.009	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0008	0.0007	0.0009	0.0006	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	2.341	1.989	2.747	1.741	2.593	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.594	0.764	0.660	0.821	0.975	0.817	0.056	0.111	0.204	0.074	0.492	0.390

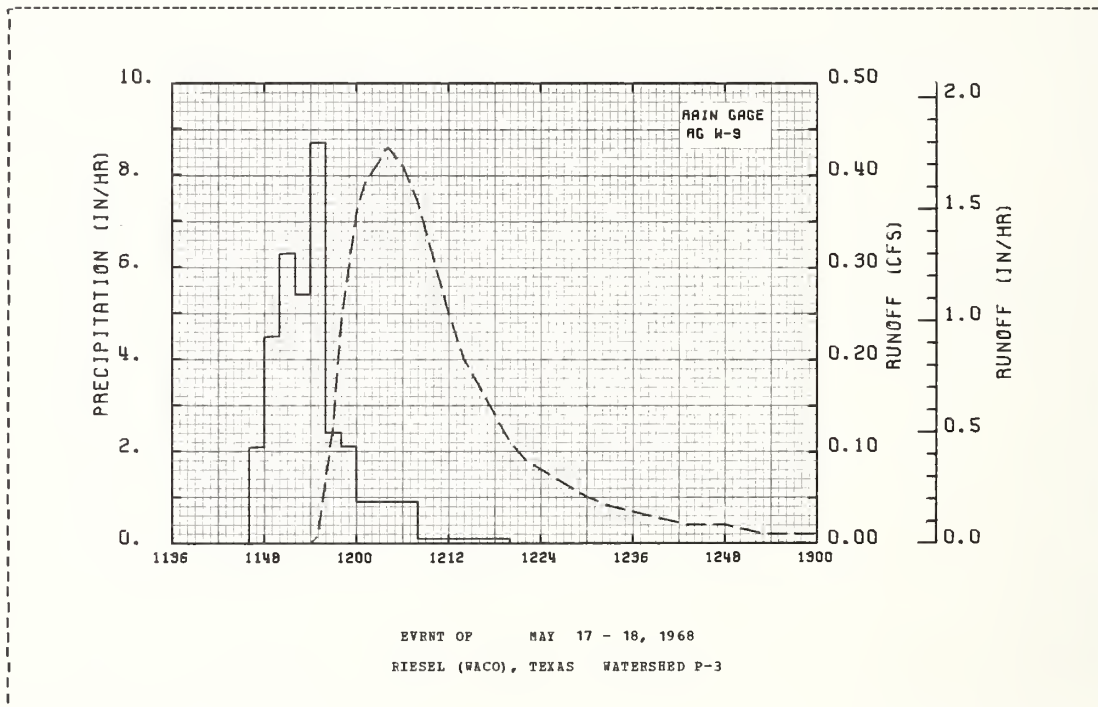
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968		SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS WATERSHED P-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 17 - 18, 1968												
5-17	RG	W-9	5-17	RG	W-9	0.0	5-17	1154	0.0	0.0		
	0.0	0.0		1146		0.0		1154	0.0	0.0005		
				1148		2.1000		1155	0.01	0.0005		
				1150		4.4999		1156	0.07	0.0033		
				1152		6.3001		1157	0.13	0.0102		
				1154		5.3999		1158	0.24	0.0228		
WATERSHED CONDITIONS:				1156		8.7001		1159	0.30	0.0412		
100% pasture, Bermuda grass				1158		2.4000		1200	0.36	0.0639		
and Buffalo grass, 6 to 36				1200		2.1000		1201	0.39	0.0894		
inches high, dense cover,				1208		0.9000		1204	0.43	0.1734		
lightly grazed.				1220		0.1000		1206	0.41	0.2301		
				1320		0.0		1208	0.37	0.2831		
				1330		0.1800		1210	0.31	0.3289		
				1400		0.1400		1212	0.25	0.3671		
				1430		0.1800		1214	0.20	0.3979		
				1500		0.1800		1216	0.17	0.4231		
				1530		0.1600		1218	0.14	0.4440		
				1600		0.0800		1220	0.11	0.4614		
				1900		0.0100		1222	0.09	0.4752		
								1224	0.08	0.4868		
								1226	0.07	0.4967		
								1228	0.06	0.5054		
								1230	0.05	0.5130		
								1233	0.04	0.5223		
								1238	0.03	0.5343		
								1243	0.02	0.5433		
								1248	0.02	0.5499		
								1253	0.01	0.5549		
								1303	0.01	0.5622		
								1313	0.01	0.5673		
								1323	0.01	0.5713		
								1328	0.01	0.5731		
								1338	0.01	0.5772		
								1348	0.01	0.5826		
								1403	0.01	0.5932		
								1413	0.02	0.6029		

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED P-3							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 17 - 18, 1968 (CONTINUED)										
							5-17	1423	0.02	0.6158
								1433	0.03	0.6323
								1443	0.03	0.6518
								1453	0.03	0.6731
								1503	0.03	0.6954
								1513	0.03	0.7185
								1518	0.03	0.7299
								1523	0.03	0.7410
								1533	0.03	0.7630
								1543	0.03	0.7834
								1553	0.03	0.8015
								1603	0.02	0.8173
								1613	0.02	0.8301
								1623	0.01	0.8401
								1633	0.01	0.8480
								1643	0.01	0.8545
								1703	0.01	0.8645
								1733	0.0	0.8742
								1800	0.0	0.8799
								1900	0.0	0.8876
								2100	0.0	0.8941
								2400	0.0	0.8988
							5-18	200	0.0	0.9007
								400	0.0	0.9018
								620	0.0	0.9020

NOTES: To convert runoff in CPS to IN/HR, multiply by 4.08119.



RIESEL (WACO), TEXAS WATERSHEO P-4

LOCATION: Falls Co., Texas; 19 mi. S.E. of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHEO P-4	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30	
	O 1.587	1.108	1.387	1.115	2.426	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.623	
STA AV	P 2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62	
	O 0.596	0.692	0.517	0.748	0.758	0.808	0.056	0.084	0.167	0.037	0.557	0.548	5.568	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	5-17	1.701	5-10	0.799	5-10	1.028	5-10	1.525	5-9	1.588	5-9	1.602	5-9	1.611	5-9	2.395

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	6-10	7.790	11-22	2.150	3-29	2.430	3-29	2.860	3-29	3.010	3-29	3.700	4-24	6.280	4-23	6.960
	1941		1940		1965		1965		1965		1965		1966		1966	

NOTES: Watershed conditions: 100% Bermudagrass and Buffalograss pasture, lightly grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gauge W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHEO P-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.18	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.16S	0.0	0.10E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62		

NOTES: For daily air temperatures in the vicinity, see Watershed C, p. 42.002-1. Precipitation values are from rain gauge W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 MEAN DAILY DISCHARGE (cfs)													RIESEL (WACD), TEXAS WATERSHED P-4			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	T 0.007	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	T 0.0	0.0	0.0	T 0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	T 0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
5	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
6	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	T 0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.002	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	T 0.0	0.0	0.004	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.010	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	T 0.005	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
15	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.005	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
19	0.0	T 0.001	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.006	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
MEAN	0.0005	0.0004	0.0005	0.0004	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
INCHES	1.587	1.108	1.387	1.115	2.426	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
STA AV	0.596	0.692	0.517	0.748	0.758	0.808	0.056	0.084	0.167	0.037	0.557	0.548				

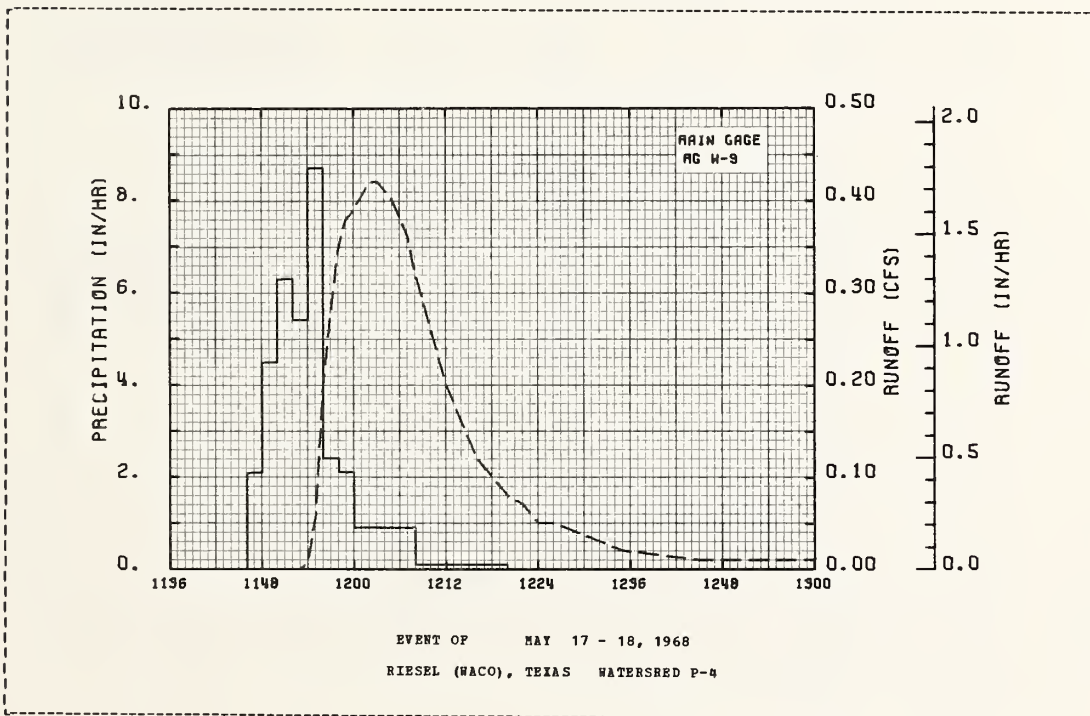
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS WATERSHED P-4							
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 17 - 18, 1968											
5-17	RG W-9 0.0	0.0	5-17	RG W-9 1146	0.0	0.0	5-17	1149	0.0	0.0	
				1148	2.1000	0.07		1150	0.0	0.0	
				1150	4.4999	0.22		1151	0.0	0.0001	
				1152	6.3001	0.43		1152	0.0	0.0002	
				1154	5.3999	0.61		1153	0.0	0.0004	
WATERSHED CONDITIONS: 100% pasture, 8eraudagrass and 8uffalograss, 6 to 36 inches high, dense cover, lightly grazed.											
				1156	8.7001	0.90		1154	0.01	0.0009	
				1158	2.4000	0.98		1155	0.06	0.0032	
				1200	2.1000	1.05		1156	0.20	0.0118	
				1208	0.9000	1.17		1157	0.28	0.0283	
				1220	0.1000	1.19		1158	0.35	0.0496	
				1320	0.0	1.19		1159	0.38	0.0742	
				1330	0.1800	1.22		1200	0.39	0.1008	
				1400	0.1400	1.29		1202	0.42	0.1558	
				1430	0.1800	1.38		1203	0.42	0.1840	
				1500	0.1800	1.47		1205	0.40	0.2400	
				1530	0.1600	1.55		1207	0.36	0.2917	
				1600	0.0800	1.59		1208	0.32	0.3151	
				1900	0.0100	1.62		1209	0.29	0.3359	
								1210	0.26	0.3545	
								1211	0.23	0.3710	
								1212	0.20	0.3860	
								1213	0.18	0.3991	
								1214	0.16	0.4107	
								1215	0.14	0.4211	
								1216	0.12	0.4302	
								1217	0.11	0.4382	
								1218	0.10	0.4453	
								1220	0.08	0.4577	
								1222	0.07	0.4679	
								1224	0.05	0.4763	
								1226	0.05	0.4833	
								1229	0.04	0.4921	
								1232	0.03	0.4991	
								1235	0.02	0.5048	
								1245	0.01	0.5176	

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED P-4								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF MAY 17 - 18, 1968 (CONTINUED)											
							5-17	1250	0.01	0.5215	
								1255	0.01	0.5245	
								1300	0.01	0.5268	
								1310	0.0	0.5302	
								1320	0.0	0.5326	
								1330	0.0	0.5346	
								1340	0.0	0.5371	
								1350	0.01	0.5412	
								1400	0.01	0.5473	
								1410	0.01	0.5550	
								1420	0.02	0.5648	
								1430	0.02	0.5780	
								1440	0.03	0.5941	
								1450	0.03	0.6120	
								1510	0.03	0.6510	
								1530	0.03	0.6900	
								1540	0.02	0.7076	
								1550	0.02	0.7227	
								1600	0.02	0.7346	
								1610	0.01	0.7441	
								1620	0.01	0.7518	
								1630	0.01	0.7576	
								1640	0.01	0.7620	
								1700	0.0	0.7683	
								1720	0.0	0.7721	
								1740	0.0	0.7743	
								1800	0.0	0.7754	
								2400	0.0	0.7822	
							5-18	600	0.0	0.7824	

NOTES: To convert runoff in CPS to IN/HR, multiply by 4.08119.



ALBUQUERQUE, NEW MEXICO WATERSHED W-I

LOCATION: Bernalillo, Co., N. M.: 19 mi. NW of Albuquerque, Rio Puerco, Rio Grande Basin.

AREA: 246.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														ALBUQUERQUE, NEW MEXICO WATERSHED W-I															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.0	0.0	0.0	0.0	0.41	0.02	2.30	1.57	0.03	0.48	0.0	0.0	4.81	P	0.0	0.0	0.0	0.0	0.41	0.02	2.30	1.57	0.03	0.48	0.0	0.0	4.81	
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.026	0.0	0.0	0.187	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.026	0.0	0.0	0.187	
STA AV	P	0.26	0.32	0.33	0.36	0.48	0.72	1.20	1.57	0.97	0.65	0.27	0.38	7.50	P	0.26	0.32	0.33	0.36	0.48	0.72	1.20	1.57	0.97	0.65	0.27	0.38	7.50	
	Q	0.0	0.0	0.0	0.0	0.0	0.019	0.025	0.077	0.058	0.020	0.0	0.0	0.200	Q	0.0	0.0	0.0	0.0	0.0	0.019	0.025	0.077	0.058	0.020	0.0	0.0	0.200	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	7-31	0.363	7-31	0.100	7-31	0.161	8-4	0.161	8-4	0.161	8-3	0.161	8-2	0.161	8-2	0.161		
MAXIMUMS FOR PERIOD OF RECORD																		
	8-24	0.920	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.530
	1957		1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: Rough broken rangeland. About 85% of area is bare. Sparse vegetation consists of short grasses (blue and black grass), shrubs and a few small juniper and piñon trees. Precipitation and runoff records started August, 1939. Record period interrupted for short intervals. Precipitation monthly values are Thiessen weighted averages from 3 rain gauges. STA AV amounts were computed using values for the months with complete records. For topographic map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, ARS, Jan. 1960, p. 47.1-4. Revised topographic map not available. For long-time precipitation records, see U.S. Weather Bureau records at Albuquerque, N. Mex.

1968 DAILY PRECIPITATION (inches)														ALBUQUERQUE, NEW MEXICO WATERSHED W-I													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.02E	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.48E	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.0	0.37E	0.0	0.0	0.23	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	0.0	0.0	0.0	0.0	0.41	0.02	2.30	1.57	0.03	0.48	0.0	0.0	TOTAL	0.0	0.0	0.0	0.0	0.41	0.02	2.30	1.57	0.03	0.48	0.0	0.0		
STA AV	0.26	0.32	0.33	0.36	0.48	0.72	1.20	1.57	0.97	0.65	0.27	0.38	STA AV	0.26	0.32	0.33	0.36	0.48	0.72	1.20	1.57	0.97	0.65	0.27	0.38		

NOTES: Daily amounts are Thiessen weighted amounts from 3 rain gauges (R-1, R-2, and R-7). Precipitation records began August, 1939, have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 MEAN DAILY DISCHARGE (cfs) ALBUQUERQUE, NEW MEXICO WATERSHED W-I												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E 0.0	0.265	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E 0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	1.668	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0538	0.0	0.0	0.0085	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.026	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.019	0.025	0.077	0.058	0.020	0.0	0.0

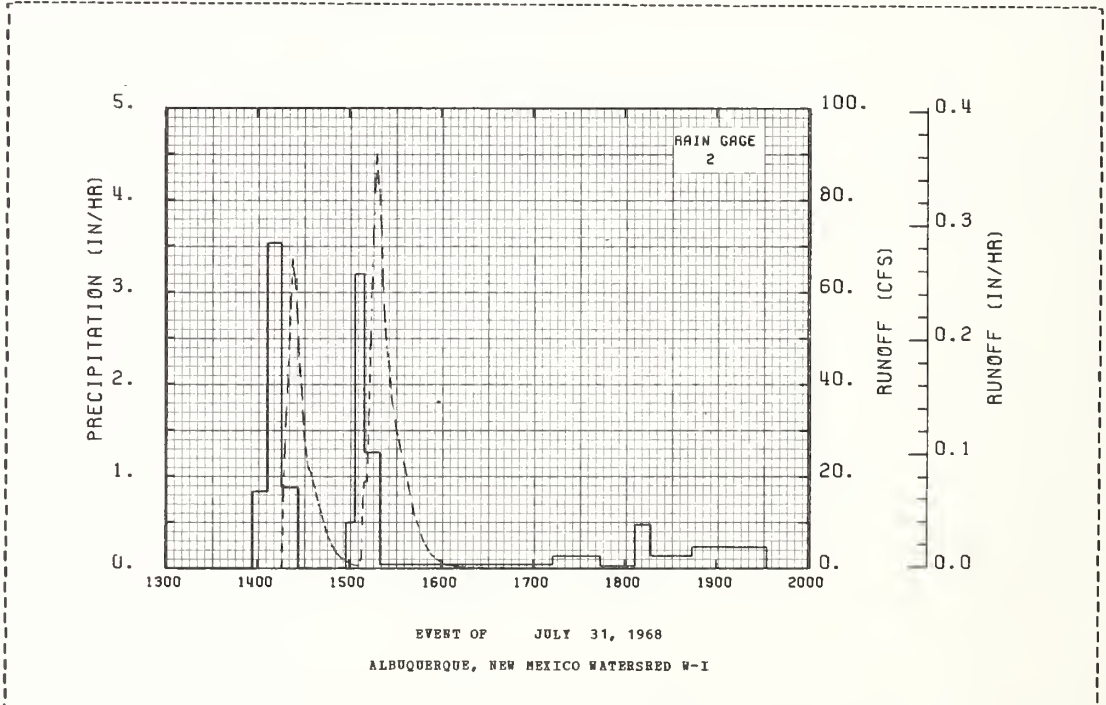
NOTES: To convert mean daily discharge amounts to CPS to IN/HR, multiply by 0.09675. Runoff records began August, 1939, have been continuous except for short periods of interrupted records. STA AV amounts were computed using value for the months with complete records.

1968 SELECTED RUNOFF EVENT ALBUQUERQUE, NEW MEXICO WATERSHED W-I												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 31, 1968												
7-31	RG 02 0.0	0.0	7-31	RG 02 1357	0.0	0.0	7-31	1416	0.0	0.0		
				1407	0.8400	0.14		1417	16.400	0.0005		
				1416	3.5333	0.67		1418	25.900	0.0018		
				1427	0.8727	0.83		1419	33.300	0.0041		
				1458	0.0	0.83		1420	40.600	0.0064		
				1504	0.5000	0.88		1421	49.400	0.0092		
				1510	3.2000	1.20		1422	58.200	0.0126		
				1520	1.2600	1.41		1423	67.200	0.0175		
				1713	0.0425	1.49		1424	64.000	0.0216		
				1744	0.1355	1.56		1425	62.500	0.0256		
				1807	0.0261	1.57		1426	55.300	0.0293		
				1817	0.4800	1.65		1427	47.600	0.0334		
				1844	0.1333	1.71		1428	42.800	0.0362		
				1907	0.2348	1.80		1429	38.400	0.0388		
				1933	0.2308	1.90		1430	32.200	0.0416		
								1431	28.500	0.0435		
								1432	25.100	0.0452		
								1433	22.200	0.0467		
								1434	21.400	0.0484		
								1435	20.700	0.0497		
								1437	18.200	0.0522		
								1439	15.500	0.0546		
								1441	12.900	0.0564		
								1443	10.600	0.0581		
								1445	8.240	0.0594		
								1447	6.300	0.0603		
								1449	4.830	0.0611		
								1451	3.730	0.0616		
								1453	2.760	0.0621		
								1455	2.150	0.0624		
								1459	1.260	0.0629		
								1502	0.790	0.0631		
								1504	0.560	0.0632		
								1506	0.410	0.0633		
								1508	2.250	0.0635		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00403.

1968 SELECTED RUNOFF EVENT			ALBUQUERQUE, NEW MEXICO WATERSHED W-I							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 31, 1968 (CONTINUED)										
							7-31	1509	14.900	0.0640
								1510	18.800	0.0651
								1511	19.200	0.0663
								1512	18.800	0.0678
								1513	33.300	0.0694
								1514	49.400	0.0720
								1515	61.100	0.0764
								1516	72.600	0.0806
								1517	83.700	0.0855
								1518	90.000	0.0910
								1519	84.500	0.0979
								1520	81.000	0.1031
								1521	74.300	0.1080
								1522	62.500	0.1123
								1523	54.700	0.1169
								1524	50.700	0.1202
								1525	47.000	0.1233
								1526	44.000	0.1262
								1527	40.000	0.1295
								1528	36.300	0.1319
								1531	30.000	0.1387
								1533	26.800	0.1423
								1537	21.100	0.1487
								1539	17.500	0.1514
								1542	12.300	0.1545
								1545	9.370	0.1567
								1548	6.300	0.1582
								1551	4.400	0.1593
								1554	2.760	0.1600
								1559	1.400	0.1607
								1604	0.690	0.1611
								1609	0.350	0.1613
								1614	0.170	0.1614
								1620	0.080	0.1615
								1627	0.030	0.1615
								1635	0.010	0.1615
								1641	0.0	0.1615
								1649	0.0	0.1615
								1702	0.0	0.1615

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00403.



ALBUQUERQUE, NEW MEXICO WATERSHED W-II

LOCATION: Bernalillo Co., N. M., 19 mi. NW of Albuquerque, Rio Puerco, Rio Grande Basin.

AREA: 40.10 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						ALBUQUERQUE, NEW MEXICO WATERSHED W-II								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	0.0	0.0	0.0	0.0	0.41	0.02	2.38	1.64	0.03	0.44	0.0	0.0	4.91
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.474	0.107	0.0	0.001	0.0	0.0	0.583
STA AV	P	0.24	0.26	0.33	0.37	0.49	0.72	1.18	1.57	0.96	0.70	0.27	0.40	7.49
	O	0.0	0.0	0.0	0.0	0.010	0.077	0.112	0.284	0.135	0.058	0.0	0.0	0.677

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge Date	Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		5 Days				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1968	7-31	1.323	7-31	0.336	7-31	0.464	7-31	0.473	8-4	0.474	8-3	0.474	8-2	0.474	8-2	0.569
MAXIMUMS FOR PERIOD OF RECORD																
	8-24	2.930	8-24	0.750	8-24	0.770	8-24	0.770	8-24	0.770	8-24	0.770	8-24	0.770	8-11	1.240
	1957		1957		1957		1957		1957		1957		1957		1967	

NOTES: Watershed conditions: Sparsely vegetated rangeland; about 80% of the area is bare. Vegetation consists of short grasses (blue and black grama, and galleta) and shrubs (sagebrush, saltbush, and rabbit brush). Vegetation is densest along lower two thirds of principal waterway. Precipitation and runoff records began July, 1939. Record period interrupted for short intervals. Precipitation monthly values are Thiessen weighted values from 2 rain gages. STA AV amounts were computed using values for the months with complete records. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, Misc. Pub. 945, p. 47-4. For long-time precipitation records, see U.S. Weather Bureau records at Albuquerque, N. Mex.

1968	DAILY PRECIPITATION (inches)					ALBUQUERQUE, NEW MEXICO WATERSHED W-II						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.03E	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.44E	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.36E	0.0	0.0	0.22E	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.41	0.02	2.38	1.64	0.03	0.44	0.0	0.0
STA AV	0.24	0.26	0.33	0.37	0.49	0.72	1.18	1.57	0.96	0.70	0.27	0.40

NOTES: Daily amounts are Thiessen weighted amounts from 2 rain gages (R-3 and R-5). Precipitation records began July, 1939, and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 MEAN DAILY DISCHARGE (cfs) ALBUQUERQUE, NEW MEXICO WATERSHED W-II												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.160	0.0	0.002	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.799	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0258	0.0058	0.0	0.0001	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.474	0.107	0.0	0.001	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.010	0.077	0.112	0.284	0.135	0.058	0.0	0.0

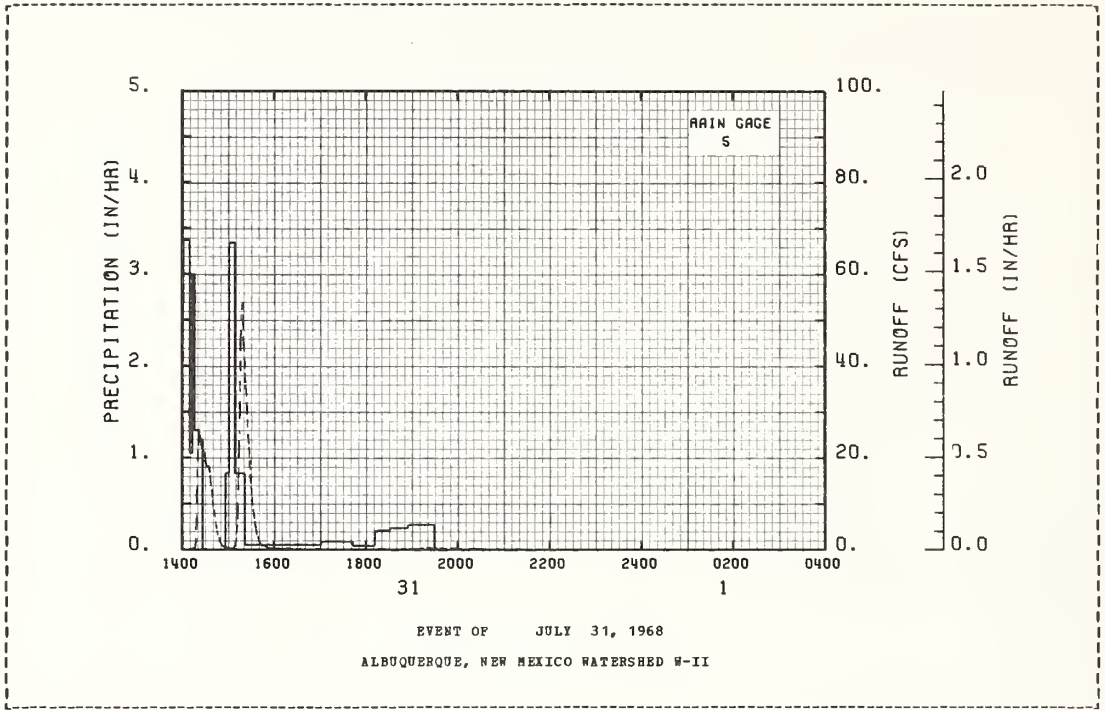
NOTES: To convert mean daily discharge amounts in CFS to IN/HR, multiply by 0.59356. Runoff records began July, 1939 and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 SELECTED RUNOFF EVENT ALBUQUERQUE, NEW MEXICO WATERSHED W-II												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 31, 1968												
7-31	RG 05 0.0	0.0	7-31	RG 05 1400	0.0	0.0	7-31	1413	0.0	0.0		
				1402	2.7000	0.09		1414	0.170	0.0		
				1410	3.3750	0.54		1417	0.470	0.0004		
				1414	1.0500	0.61		1418	0.580	0.0006		
				1417	3.0000	0.76		1419	6.140	0.0022		
WATERSHED CONDITIONS:			1423	1.3000	0.89		1420	12.300	0.0058			
Sparsely vegetated range-			1427	1.2000	0.97		1421	21.200	0.0123			
land; about 80% of the area			1457	0.0	0.97		1422	23.800	0.0210			
is bare. Vegetation consists			1502	0.8400	1.04		1423	25.000	0.0328			
of short grasses (blue and			1509	3.3429	1.43		1424	24.600	0.0424			
black grama, and galleta)												
and shrubs (sagebrush, salt-			1522	0.8308	1.61		1425	23.000	0.0516			
bush, and Rabbit brush).			1702	0.0480	1.69		1426	22.200	0.0603			
Vegetation is densest			1743	0.0878	1.75		1429	21.200	0.0876			
along lower two thirds of			1812	0.0414	1.77		1432	18.300	0.1124			
principal waterway.			1832	0.2100	1.84		1433	18.000	0.1194			
			1855	0.2348	1.93		1435	18.000	0.1351			
			1930	0.2743	2.09		1436	17.700	0.1420			
							1438	15.100	0.1563			
							1440	12.000	0.1668			
							1441	10.200	0.1711			
							1443	7.660	0.1789			
							1445	5.180	0.1845			
							1447	3.370	0.1878			
							1449	2.010	0.1901			
							1450	1.590	0.1908			
							1452	0.980	0.1918			
							1453	0.770	0.1922			
							1455	0.510	0.1927			
							1457	0.370	0.1931			
							1459	0.260	0.1933			
							1502	0.190	0.1936			
							1505	0.130	0.1938			
							1507	0.130	0.1939			
							1508	0.310	0.1940			
							1509	0.720	0.1942			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02473.

1968 SELECTED RUNOFF EVENT			ALBUQUERQUE, NEW MEXICO WATERSHED W-II							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 31, 1968 (CONTINUED)										
				7-31				1510	1.670	0.1947
								1511	1.830	0.1954
								1512	4.290	0.1969
								1513	8.020	0.1993
								1514	15.700	0.2039
								1515	22.200	0.2131
								1516	30.200	0.2232
								1517	45.600	0.2378
								1518	52.300	0.2567
								1519	53.500	0.2823
								1520	49.700	0.3022
								1521	44.400	0.3204
								1522	40.500	0.3368
								1523	37.200	0.3556
								1524	34.600	0.3695
								1525	30.600	0.3821
								1526	27.000	0.3932
								1527	23.800	0.4055
								1528	21.200	0.4142
								1529	18.300	0.4218
								1530	15.100	0.4299
								1531	12.800	0.4353
								1532	10.500	0.4398
								1534	7.660	0.4477
								1536	5.180	0.4527
								1538	3.640	0.4565
								1540	2.280	0.4588
								1541	1.670	0.4596
								1543	1.100	0.4608
								1546	0.720	0.4619
								1550	0.470	0.4629
								1553	0.310	0.4634
								1556	0.210	0.4637
								1606	0.120	0.4644
								1613	0.080	0.4647
								1619	0.060	0.4649
								1635	0.040	0.4652
								1655	0.020	0.4655
								1713	0.010	0.4656
								1742	0.010	0.4657
								1807	0.0	0.4658
								1817	0.0	0.4658
								1820	0.0	0.4658
								1822	0.010	0.4658
								1825	0.010	0.4658
								1847	0.010	0.4659
								1848	0.120	0.4659
								1850	0.120	0.4660
								1900	0.090	0.4664
								1904	0.100	0.4666
								1907	0.130	0.4667
								1909	0.210	0.4668
								1915	0.280	0.4674
								1923	0.400	0.4685
								1924	0.400	0.4687
								1933	0.310	0.4700
								1940	0.230	0.4708
								1957	0.170	0.4722
								2025	0.070	0.4736
								2130	0.0	0.4745

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.02473.



ALBUQUERQUE, NEW MEXICO WATERSHED W-III

LOCATION: Bernalillo Co., N. M.; 19 mi. NW of Albuquerque, Rio Puerco, Rio Grande Basin.

AREA: 176.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														ALBUQUERQUE, NEW MEXICO WATERSHED W-III
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0.0 0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.41 0.0	0.02 0.0	2.41 0.281	1.69 0.075	0.03 0.0	0.43 0.0	0.0 0.0	0.0 0.0	4.99 0.356	
STA AV	P 0.24 0 0.0	0.26 0.0	0.33 0.0	0.36 0.0	0.49 0.010	0.72 0.039	1.19 0.067	1.49 0.119	0.97 0.058	0.70 0.019	0.27 0.0	0.39 0.0	7.40 0.311	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	7-31	0.322	7-31	0.208	7-31	0.265	7-31	0.281	8- 4	0.281	8- 3	0.281	8- 2	0.281	8- 2	0.344
MAXIMUMS FOR PERIOD OF RECORD																
	8-15 1953	1.050	8-15 1953	0.440	9- 4 1947	0.500	9- 4 1947	0.510	9- 4 1947	0.510	9- 4 1947	0.510	9- 4 1947	0.510	9- 4 1947	0.770

NOTES: Watershed conditions: Sparsely vegetated rangeland; about 75% of the area is bare. Vegetation consists of short grasses (blue and black grama and galleta), and shrubs (sagebrush and snakeweed). Vegetation is comparatively heavy in a narrow strip along the principal waterway. Precipitation and runoff records began July, 1939. Record period interrupted for short intervals. Precipitation monthly values are Thiessen weighted amount from 3 rain gages. STA AV amounts were computed using values for the months with complete records. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 47.3-4. For long-time precipitation records, see U.S. Weather Bureau records at Albuquerque, N. Mex.

1968 DAILY PRECIPITATION (inches)														ALBUQUERQUE, NEW MEXICO WATERSHED W-III
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.03E	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70E	0.0	0.43E	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33E	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.36E	0.0	0.0	0.22E	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	2.03	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.0	0.0	0.0	0.41	0.02	2.41	1.69	0.03	0.43	0.0	0.0	0.0	
STA AV	0.24	0.26	0.33	0.36	0.49	0.72	1.19	1.49	0.97	0.70	0.27	0.39		

NOTES: Daily amounts are Thiessen weighted amounts from 3 rain gages (R-3, R-5, and R-8). Precipitation records began July, 1939 and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 MEAN DAILY DISCHARGE (cfs) ALBUQUERQUE, NEW MEXICO WATERSHED W-III												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.336	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.181	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	2.081	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0671	0.0179	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.281	0.075	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.010	0.039	0.067	0.119	0.058	0.019	0.0	0.0

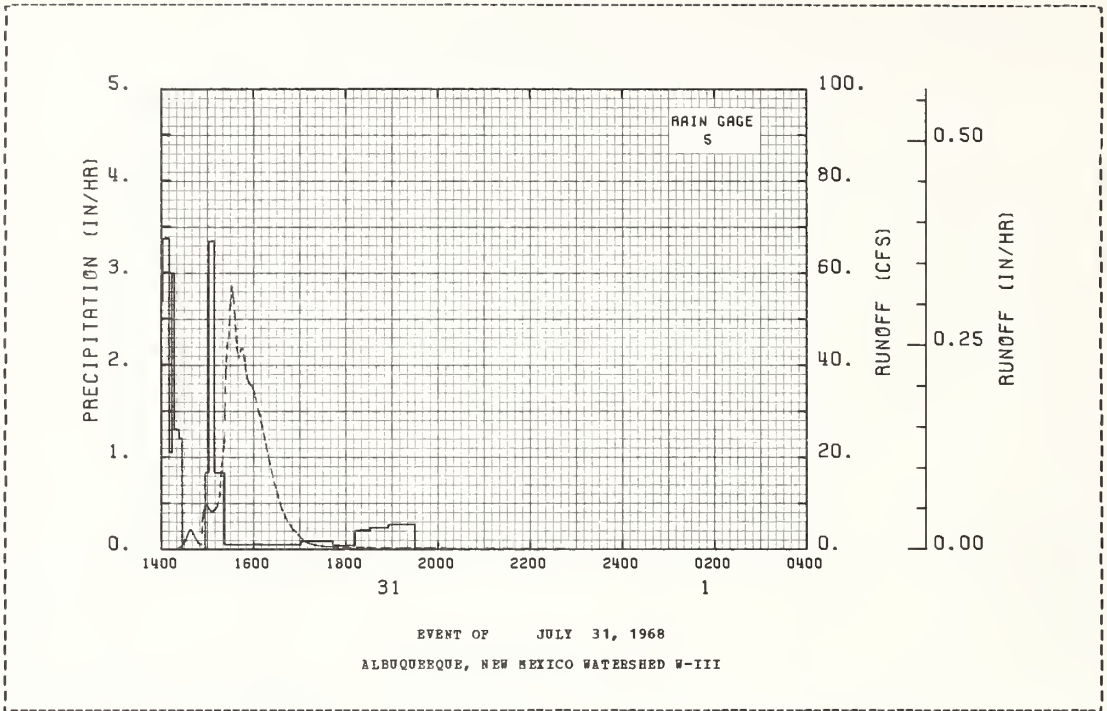
NOTES: To convert mean daily discharge amounts in CFS to IN/HR, multiply by 0.13524. Runoff records began July, 1939 and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 SELECTED RUNOFF EVENT ALBUQUERQUE, NEW MEXICO WATERSHED W-III												
ANTECEDENT CONDITIONS			RAINFALL				RONOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 31, 1968												
7-31	RG 05 0.0	0.0	7-31	RG 05 1400	0.0	0.0	7-31	1419	0.0	0.0		
				1402	2.7000	0.09		1420	0.150	0.0		
				1410	3.3750	0.54		1423	0.310	0.0001		
				1414	1.0500	0.61		1424	0.430	0.0001		
				1417	3.0000	0.76		1426	0.630	0.0002		
WATERSHED CONDITIONS:				1423	1.3000	0.89		1427	0.820	0.0003		
Sparsely vegetated range-				1427	1.2000	0.97		1428	1.170	0.0004		
land; about 75% of area is				1457	0.0	0.97		1429	1.510	0.0005		
bare. Vegetation consists				1502	0.8400	1.04		1431	1.830	0.0008		
of short grasses (blue and				1509	3.3429	1.43		1432	2.100	0.0010		
black grama and galleta)				1522	0.8308	1.61		1433	2.680	0.0012		
and shrubs (sagebrush,				1702	0.0480	1.69		1434	3.250	0.0015		
saltbush, and snakeweed).				1743	0.0878	1.75		1435	3.640	0.0018		
Vegetation is comparatively				1812	0.0414	1.77		1436	4.020	0.0021		
heavy in a narrow strip along				1832	0.2100	1.84		1437	4.290	0.0025		
the principal waterway.				1855	0.2348	1.93		1438	4.290	0.0030		
				1930	0.2743	2.09		1439	4.020	0.0034		
								1440	3.770	0.0037		
								1442	3.250	0.0044		
								1444	2.480	0.0049		
								1446	1.910	0.0053		
								1447	1.590	0.0055		
								1448	1.300	0.0056		
								1451	0.870	0.0059		
								1452	0.870	0.0060		
								1453	4.860	0.0063		
								1454	7.090	0.0068		
								1455	8.680	0.0075		
								1457	9.790	0.0093		
								1459	9.570	0.0110		
								1503	8.470	0.0144		
								1504	8.250	0.0153		
								1507	8.250	0.0175		
								1511	8.910	0.0207		
								1513	9.570	0.0225		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.

1968 SELECTED RONOFF EVENT			ALBUQUERQUE, NEW MEXICO WATERSHED W-III								
ANTECEDENT CONDITIONS			RAINFALL			RONOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JULY 31, 1968 (CONTINUED)											
				7-31				1514	10.200	0.0234	
								1516	12.000	0.0256	
								1517	14.200	0.0268	
								1518	16.700	0.0282	
								1519	18.700	0.0301	
								1520	20.100	0.0318	
								1521	22.000	0.0337	
								1522	23.500	0.0357	
								1523	30.600	0.0387	
								1524	38.600	0.0417	
								1525	41.800	0.0452	
								1526	44.300	0.0490	
								1528	46.600	0.0580	
								1529	49.600	0.0622	
								1530	53.000	0.0678	
								1531	54.900	0.0726	
								1532	57.200	0.0775	
								1533	55.600	0.0825	
								1534	54.200	0.0885	
								1536	50.400	0.0977	
								1537	47.700	0.1020	
								1538	45.400	0.1071	
								1539	43.000	0.1110	
								1541	41.400	0.1184	
								1544	43.600	0.1306	
								1546	43.600	0.1392	
								1548	41.400	0.1467	
								1550	39.300	0.1547	
								1552	37.000	0.1614	
								1554	36.100	0.1686	
								1556	35.600	0.1749	
								1559	35.100	0.1850	
								1601	34.000	0.1918	
								1603	32.500	0.1977	
								1607	29.700	0.2093	
								1611	26.900	0.2199	
								1614	24.400	0.2272	
								1617	22.000	0.2338	
								1620	19.400	0.2397	
								1624	16.400	0.2464	
								1628	13.700	0.2520	
								1631	12.000	0.2557	
								1636	9.130	0.2606	
								1642	6.710	0.2651	
								1649	4.700	0.2689	
								1654	3.770	0.2709	
								1659	2.910	0.2724	
								1703	2.190	0.2734	
								1708	1.510	0.2743	
								1711	1.300	0.2747	
								1716	1.040	0.2753	
								1719	0.820	0.2756	
								1724	0.720	0.2760	
								1729	0.630	0.2763	
								1738	0.510	0.2768	
								1744	0.430	0.2771	
								1803	0.310	0.2778	
								1820	0.260	0.2783	
								1831	0.260	0.2786	
								1854	0.210	0.2791	
								1911	0.210	0.2794	
								1920	0.230	0.2796	
								1934	0.230	0.2799	
								1947	0.210	0.2802	
								2014	0.130	0.2806	
								2040	0.080	0.2809	
								2245	0.0	0.2814	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.



OXFORD, MISSISSIPPI WATERSHED W-4A

LOCATION: Marshall Co., Miss.; 4.8 mi. SE of Holly Springs, on State Highway No. 4; Chews Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1580.00 acres 2.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-4A	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	6.44	1.85	6.10	5.04	5.90	2.88	1.07	2.38	8.84	6.07	7.55	4.84	58.94
	O	1.494	0.156	1.458	0.647	0.540	0.080	0.0	0.064	0.848	0.942	2.080	0.733	9.042
STA AV	P	3.77	4.73	4.90	4.54	4.06	2.94	3.98	3.37	5.00	2.44	4.33	5.07	49.14
	O	0.647	0.902	0.919	0.558	0.302	0.098	0.220	0.198	0.364	0.124	0.512	0.657	5.502

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	3-11	0.580		11-27	0.500	11-27	0.750	11-27	1.200	11-27	1.590	11-27	2.000	11-27	2.030	11-27	2.260

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge Rate	1 Hour Vol.	2 Hours Vol.	6 Hours Vol.	12 Hours Vol.	1 Day Vol.	2 Days Vol.	8 Days Vol.							
1962	2-23	0.840	0.720	2-23	1.130	3-4	1.560	3-4	1.620	1-31	2.380	1-30	3.340	1-27	3.900
	1962		1962	1962	1964	1964	1964	1957	1957	1957	1957	1957	1957	1957	1957

NOTES: Watershed conditions: About 13% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 39% in pasture and idle land, good cover April to October with fair cover remainder of year; 47% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1968. Reported as Watershed W-4 prior to 1965. Gauging station relocated upstream, Jan. 1965, reducing drainage area from 2,000 to 1,580 acres. About 29% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.1-4. Monthly precipitation Thiessen weighted from rain gauges 7, 8 and 18. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs 2H, Mississippi.

1968 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-4A	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.09	0.96	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.69		
2	0.04	0.0	0.0	0.79	0.0	1.31	0.0	0.37	0.0	0.0	0.0	0.0		
3	1.16	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.24	0.35	0.40	0.15		
4	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	1.11	0.0	0.0		
6	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.0	0.0		
7	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.19	0.0	0.0	0.87	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	2.17	0.0	0.68	0.02	0.0	0.0	0.13	0.0	0.17	0.08	0.0	0.0		
10	0.76	0.0	0.30	0.0	0.05	0.0	0.03	0.21	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.78	0.0	0.89	0.0	0.02	0.0	0.0	0.0	0.11	0.0		
12	0.53	0.0	0.03	0.0	0.03	0.0	0.0	1.40	0.0	0.0	0.0	0.61		
13	0.0	0.0	0.0	0.58	0.21	0.0	0.0	0.27	0.0	0.56	0.0	0.05		
14	0.0	0.0	0.0	0.80	1.66	0.0	0.0	0.01	0.0	1.83	0.0	0.0		
15	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.07	1.27	0.0	0.77	0.0		
16	0.0	0.0	0.08	0.0	0.62	0.0	0.0	0.0	4.03	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0	2.25	0.36	0.09	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.05		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.05		
20	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	0.99	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48		
22	0.0	0.0	0.73	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86		
23	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0		
25	0.0	0.0	0.0	0.0	0.69	1.05	0.0	0.0	0.32	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.23	0.52	0.01	0.0	0.01	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	4.27	0.87		
28	0.0	0.60	0.0	0.0	0.20	0.0	0.00	0.0	0.0	0.0	0.80	0.0		
29	0.0	0.11	0.0	0.03	0.06	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
30	0.22	0.09	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.46	0.02		
31	0.24	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.44	1.85	6.10	5.04	5.90	2.88	1.07	2.38	8.84	6.07	7.55	4.84		
STA AV	3.77	4.73	4.90	4.54	4.06	2.94	3.98	3.37	5.00	2.44	4.33	5.07		

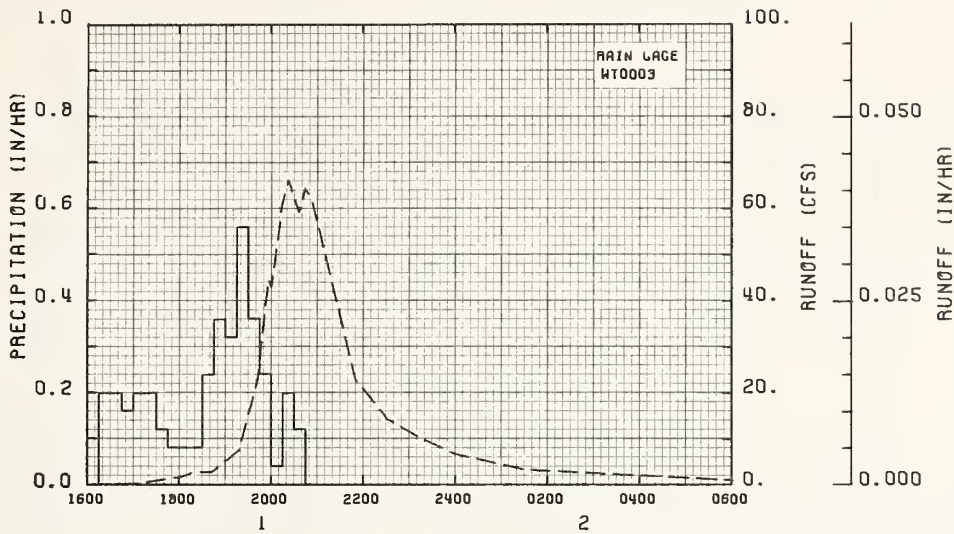
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gauges 7, 8 and 18. STA AV for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs)												
OXFORD, MISSISSIPPI WATERSHED W-4A												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	6.176	0.0	0.290	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.301
2	0.0	1.049	0.0	1.805	0.0	4.655	0.0	0.0	0.0	0.0	0.0	0.688
3	7.898	0.471	0.0	0.815	0.0	0.064	0.0	0.0	0.0	0.0	0.0	0.380
4	1.263	0.380	0.0	9.747	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.211
5	0.426	0.380	0.0	0.598	0.0	0.0	0.0	0.0	0.0	0.488	0.0	0.211
6	7.605	0.380	0.0	0.380	0.0	0.0	0.0	0.0	0.0	23.941	0.0	0.290
7	0.962	0.380	0.0	0.380	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.145
8	0.791	0.380	0.0	5.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034
9	37.379	0.380	0.203	0.688	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.127
10	32.559	0.235	0.796	0.301	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.235
11	2.239	0.0	72.808	0.066	0.887	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.702	0.0	5.285	0.0	0.053	0.0	0.0	3.975	0.0	0.0	0.0	0.315
13	1.759	0.0	0.483	1.430	0.0	0.0	0.0	0.278	0.0	0.936	0.0	0.740
14	0.906	0.0	0.380	13.778	10.022	0.0	0.0	0.0	0.0	37.188	0.0	0.0
15	0.598	0.0	0.380	1.183	0.483	0.0	0.0	0.0	0.287	0.0	0.232	0.0
16	0.290	0.0	0.290	0.574	4.108	0.0	0.0	0.0	29.286	0.0	0.021	0.0
17	0.290	0.0	0.290	0.471	17.194	0.0	0.0	0.0	22.268	0.0	0.0	0.0
18	0.290	0.0	0.290	0.380	0.483	0.0	0.0	0.0	4.463	0.0	0.0	0.0
19	0.380	0.0	0.211	0.380	0.211	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.301	0.0	0.211	0.380	0.211	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.132	0.0	1.279	0.290	0.290	0.0	0.0	0.0	0.0	0.0	0.0	6.166
22	0.132	0.0	4.160	1.050	0.290	0.0	0.0	0.0	0.0	0.0	0.0	18.198
23	0.132	0.0	0.483	0.677	0.290	0.0	0.0	0.0	0.0	0.0	0.0	0.598
24	0.132	0.0	4.371	0.404	0.211	0.0	0.0	0.0	0.0	0.0	0.753	0.145
25	0.132	0.0	1.554	0.132	0.806	0.340	0.0	0.0	0.0	0.0	0.0	0.0
26	0.132	0.0	0.918	0.301	0.338	0.238	0.0	0.0	0.0	0.0	0.0	0.066
27	0.211	0.0	0.483	0.471	0.0	0.0	0.0	0.0	0.0	0.0	96.782	4.166
28	0.211	0.142	0.483	0.380	0.0	0.0	0.0	0.0	0.0	0.0	38.417	1.515
29	0.066	0.015	0.574	0.150	0.0	0.0	0.0	0.0	0.0	0.0	0.918	0.380
30	0.0	0.0	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.951	0.471
31	0.235	0.0	0.380	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.301
MEAN	3.1990	0.3580	3.1220	1.4320	1.1570	0.1770	0.0	0.1370	1.8770	2.0180	4.6030	1.5700
INCHES	1.494	0.156	1.458	0.647	0.540	0.080	0.0	0.064	0.848	0.942	2.080	0.733
STA AV	0.647	0.902	0.919	0.558	0.302	0.098	0.220	0.198	0.364	0.124	0.512	0.657

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.01506. STA AV for 12 yr (1957-68) record period. Quality of records: Good, estimated to be within 10% of actual.

1968 SELECTED RONOFP EVENT												
OXFORD, MISSISSIPPI WATERSHED W-4A												
ANTECEDENT CONDITIONS			RAINFALL				RONOFP					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 9, 1968												
2- 1	RG WTD003	0.003	2- 1	RG WTD003	0.0	0.0	2- 1	1618	0.13	0.0		
	0.02			1630	0.1795	0.05		1702	0.29	0.0001		
				1645	0.1880	0.09		1800	1.73	0.0007		
				1700	0.1474	0.13		1818	2.77	0.0011		
				1715	0.1917	0.18		1842	2.77	0.0018		
WATERSHED CONDITIONS:												
About 13% of area in cultivation, primarily corn and cotton, poor to fair cover provided by residue from 1967 crop; 39% in pasture and idle land with fair to good cover; 47% in woods, good cover; 1% bare gullies.												
				1730	0.2167	0.23		1918	7.69	0.0038		
				1745	0.1160	0.26		1942	22.70	0.0076		
				1800	0.0832	0.28		1956	44.54	0.0125		
				1815	0.0840	0.30		2000	42.76	0.0143		
				1830	0.0874	0.32		2014	60.80	0.0219		
				1845	0.2320	0.38		2022	66.20	0.0272		
				1900	0.3720	0.47		2036	59.00	0.0364		
				1915	0.3160	0.55		2044	64.40	0.0416		
				1930	0.5640	0.69		2054	60.80	0.0482		
				1945	0.3440	0.78		2118	44.54	0.0614		
				2000	0.2520	0.84		2150	22.70	0.0727		
				2015	0.0559	0.86		2232	14.00	0.0808		
				2030	0.2000	0.91		2312	10.22	0.0859		
				2045	0.1129	0.94		2400	6.53	0.0901		
				2100	0.0156	0.94		2- 2	130	3.16	0.0947	
				2245	0.0	0.94			600	0.91	0.1004	
									1444	0.29	0.1037	
									2400	0.47	0.1059	
								2- 3	2400	0.47	0.1130	
								2- 4	2400	0.29	0.1187	
								2- 5	2400	0.47	0.1244	
								2- 6	2400	0.29	0.1301	
								2- 7	2400	0.47	0.1358	
								2- 8	2400	0.29	0.1415	
								2- 9	2400	0.47	0.1472	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 9, 1968
OXFORD, MISSISSIPPI WATERSHED W-4A

OXFORD, MISSISSIPPI WATERSHED W-5

LOCATION: Marshall Co., Miss.; 6.1 mi. SW of Holly Springs, on State Highway No. 4; Willie Wilkins Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1130.00 acres 1.76 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-5	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	6.49	1.86	6.47	5.16	5.83	2.80	1.30	1.99	9.95	5.46	7.68	5.13	60.13
	O	2.968	0.413	2.742	1.133	1.265	0.061	0.0	0.001	2.049	1.667	3.133	2.303	17.735
STA AV	P	3.86	4.72	5.07	4.59	4.21	2.97	3.95	3.75	4.89	2.37	4.37	5.15	49.90
	O	1.375	1.739	1.906	1.158	0.747	0.280	0.357	0.413	0.565	0.249	0.866	1.521	11.176

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	3-11	0.900	3-11	0.780	3-11	1.230	3-11	1.760	11-27	2.240	11-27	3.020	11-27	3.090	11-27	3.640

MAXIMUMS FOR PERIOD OF RECORD																
	3-4	1.190	3-4	0.990	3-4	1.630	3-4	2.120	2-9	2.800	2-9	3.100	1-30	3.720	1-27	5.250
	1964		1964		1964		1964		1966		1966		1966	1957	1957	1957

NOTES: Watershed conditions: About 11% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 58% in pasture and idle land, good cover April to October with fair cover remainder of year; 30% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1967. About 21% of drainage area above small desilting and retention dams. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, ARS, SWC, January 1960, p. 62.2-3. Monthly precipitation Thiessen weighted from rain gages 8 and 33. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see O.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY AIR TEMPERATURE (degrees F)														OXFORD, MISSISSIPPI WATERSHED W-5											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	37	19	66	52	35	18	65	48	80	53	86	68	94	69	93	72	87	57	83	56	78	59	52	44	
2	34	20	51	30	47	18	58	47	83	58	79	66	89	69	90	68	87	55	84	66	77	49	58	43	
3	42	31	54	26	60	26	74	58	80	60	86	63	83	60	94	68	80	64	71	52	68	57	52	38	
4	34	24	60	34	54	33	72	44	77	49	87	60	82	51	95	70	82	69	65	39	52	48	50	31	
5	36	23	59	30	62	32	51	35	78	43	86	63	86	50	93	72	80	68	66	39	56	50	50	28	
6	39	22	54	29	56	37	64	32	72	36	86	66	86	56	92	70	80	55	62	52	56	50	54	25	
7	21	10	42	28	64	27	68	47	77	48	88	60	89	60	90	69	80	51	63	48	50	46	42	25	
8	34	10	37	25	71	43	66	54	74	62	89	62	80	64	92	70	88	54	75	49	51	36	38	19	
9	36	32	50	21	59	55	66	54	76	63	92	64	86	64	94	72	78	64	77	50	50	33	46	19	
10	35	30	54	22	59	49	73	45	74	63	92	69	87	67	94	72	77	54	73	56	50	25	53	29	
11	37	28	31	19	53	47	77	43	72	66	94	70	82	66	88	72	78	48	74	61	40	36	59	29	
12	38	30	40	14	54	34	77	49	78	64	88	64	89	66	88	69	81	46	83	60	43	23	57	44	
13	30	17	36	22	45	28	65	58	72	64	86	58	91	66	83	72	82	46	81	66	54	22	54	31	
14	28	18	36	17	54	29	78	54	80	67	88	58	88	67	87	72	85	49	74	63	70	43	31	19	
15	36	25	39	28	63	43	67	44	80	65	91	64	93	70	91	72	77	55	82	64	68	57	32	17	
16	42	17	44	22	69	46	76	42	82	63	93	66	95	67	91	72	74	65	76	60	62	53	42	14	
17	50	22	42	30	71	39	74	62	72	60	84	66	94	70	94	74	81	63	74	60	67	46	47	32	
18	58	30	44	27	73	50	83	65	74	53	89	64	94	68	94	72	78	56	69	50	48	36	63	43	
19	61	28	51	20	70	52	83	63	66	50	90	67	88	70	96	72	80	54	70	37	45	26	52	40	
20	67	32	53	33	75	49	79	61	68	45	88	65	90	69	90	71	84	53	77	39	45	23	50	29	
21	69	33	33	17	49	33	75	50	71	52	90	65	90	72	94	71	87	62	78	40	61	24	46	38	
22	58	38	31	15	34	18	69	59	78	56	88	69	87	70	96	72	87	65	75	49	69	35	53	31	
23	49	29	40	21	35	18	73	49	82	62	86	69	86	68	95	72	86	60	68	38	71	49	36	27	
24	36	24	45	16	48	17	64	41	86	67	90	70	88	69	95	68	85	59	64	46	60	36	38	24	
25	46	26	44	33	62	30	77	40	87	64	84	72	91	72	93	68	79	57	55	33	63	29	44	19	
26	59	30	42	33	71	42	76	56	78	64	78	55	92	73	88	56	76	52	69	33	64	40	53	40	
27	59	43	50	36	71	45	76	56	72	54	78	55	94	75	82	59	80	50	73	46	65	56	63	50	
28	64	47	38	30	75	51	78	58	75	55	86	57	89	76	85	47	82	50	44	32	65	44	50	32	
29	66	50	39	27	79	53	72	52	80	58	90	66	84	72	85	56	83	53	62	28	53	36	49	24	
30	59	52			78	55	79	55	78	50	92	71	86	70	87	60	85	52	76	38	53	37	55	36	
31	63	52			64	54			84	58			88	73	86	56			80	58				41	17
AV.		46	28	45	26	60	37	71	50	77	57	87	64	88	67	90	68	81	56	71	48	58	40	48	30
MEAN		37.4		35.6		48.9		61.3		67.1		76.0		77.8		79.4		69.0		60.2		49.3		39.5	
STA AV		47	28	52	31	60	38	72	50	80	58	86	64	89	68	89	67	82	60	73	48	62	38	50	30

NOTES: Temperature data from O.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi. STA AV is for 12 yr (1957-68) record period.

1968		DAILY PRECIPITATION (inches)					OXFORD, MISSISSIPPI					WATERSHEO W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.06	0.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	
2	0.04	0.0	0.0	0.71	0.0	1.20	0.01	0.40	0.0	0.0	0.0	0.0	
3	1.18	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.30	0.40	0.43	0.20	
4	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	
5	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	1.12	0.0	0.0	
6	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.74	0.0	0.0	
7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.21	0.0	0.0	0.81	0.08	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
9	2.06	0.0	0.71	0.01	0.0	0.0	0.10	0.02	0.24	0.0	0.0	0.0	
10	0.85	0.0	0.32	0.0	0.05	0.0	0.16	0.05	0.0	0.0	0.0	0.0	
11	0.0	0.0	2.58	0.0	0.83	0.01	0.02	0.0	0.0	0.0	0.10	0.0	
12	0.56	0.0	0.04	0.0	0.01	0.0	0.0	0.90	0.0	0.0	0.0	0.62	
13	0.0	0.0	0.0	0.60	0.19	0.0	0.0	0.54	0.0	0.51	0.0	0.04	
14	0.0	0.0	0.0	0.92	1.72	0.0	0.0	0.0	0.0	1.33	0.0	0.0	
15	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.08	1.31	0.0	0.82	0.0	
16	0.0	0.0	0.10	0.0	0.74	0.0	0.0	0.0	4.45	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.0	2.62	0.36	0.10	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.05	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.06	
20	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.03	1.06	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.51	
22	0.0	0.0	0.95	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93	
23	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	
25	0.0	0.0	0.0	0.0	0.36	1.11	0.0	0.0	0.30	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.31	0.49	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	4.26	0.99	
28	0.0	0.60	0.0	0.0	0.20	0.0	0.04	0.0	0.0	0.0	0.77	0.0	
29	0.0	0.11	0.0	0.03	0.09	0.0	0.16	0.0	0.0	0.0	0.0	0.0	
30	0.24	0.0	0.22	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.48	0.06	
31	0.22	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.49	1.86	6.47	5.16	5.83	2.80	1.30	1.99	9.95	5.46	7.68	5.13	
STA AV	3.86	4.72	5.07	4.59	4.21	2.97	3.95	3.75	4.89	2.37	4.37	5.15	

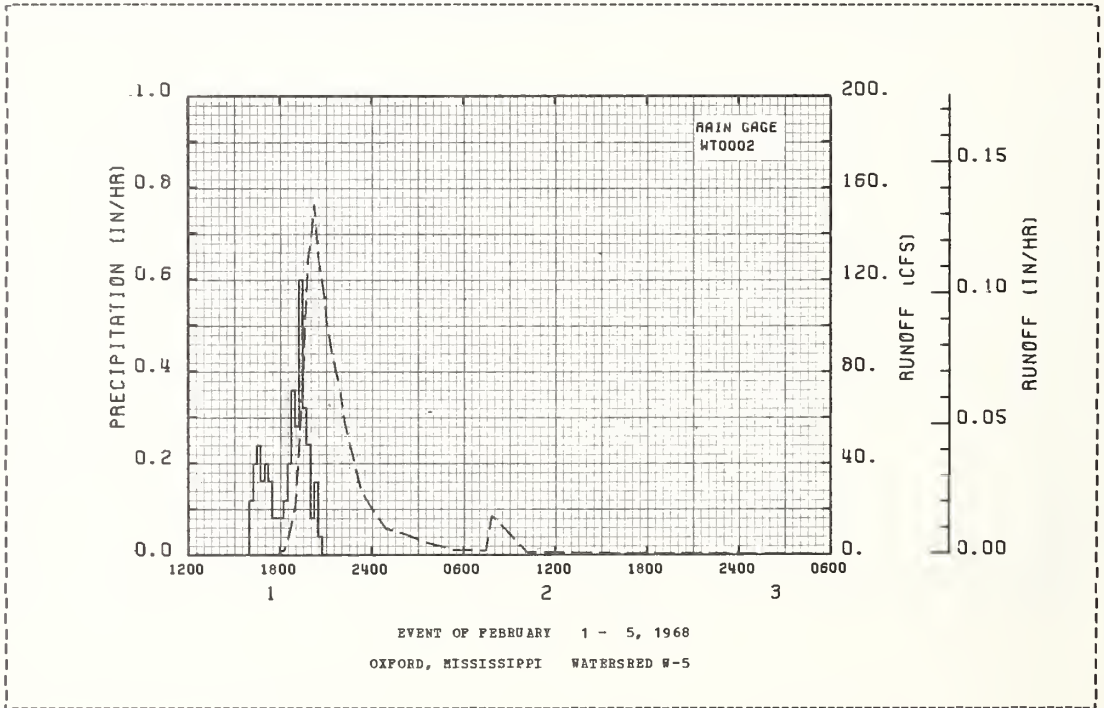
NOTES: Daily precipitation Thiessen weighted from rain gages 8 and 33. STA AV is for 12 yr (1957-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI					WATERSHEO W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	15.917	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.815	
2	0.0	3.327	0.0	5.883	0.0	2.836	0.0	0.0	0.0	0.0	0.0	1.059	
3	22.215	0.211	0.0	0.274	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	1.198	0.108	0.0	14.284	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.306	0.047	0.0	0.052	0.0	0.0	0.0	0.0	0.0	1.320	0.0	0.0	
6	16.980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.038	0.0	0.0	
7	2.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.321	0.0	0.0	
8	1.200	0.0	0.0	11.225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	51.960	0.0	0.137	0.814	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	40.866	0.0	1.047	0.212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	
11	1.525	0.0	91.608	0.122	0.232	0.0	0.0	0.0	0.0	0.0	0.0	0.100	
12	0.666	0.0	16.176	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.425	
13	0.531	0.0	0.831	2.537	0.0	0.0	0.0	0.033	0.0	0.668	0.0	1.373	
14	0.434	0.0	0.0	17.561	16.505	0.0	0.0	0.0	0.0	33.524	0.0	0.0	
15	0.228	0.0	0.0	0.511	0.741	0.0	0.0	0.0	0.0	0.938	0.031	0.0	
16	0.182	0.0	0.0	0.0	10.997	0.0	0.0	0.0	38.086	0.0	0.0	0.0	
17	0.343	0.0	0.0	0.0	31.428	0.0	0.0	0.0	52.899	0.322	0.0	0.0	
18	0.177	0.0	0.0	0.0	0.033	0.0	0.0	0.0	6.288	0.0	0.0	0.0	
19	0.078	0.0	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	5.392	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.344	
22	0.0	0.0	5.345	0.230	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.927	
23	0.0	0.0	0.733	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.046	
24	0.0	0.0	7.848	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.572	0.418	
25	0.0	0.0	0.921	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.122	0.0	0.108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.101	0.0	0.0	0.0	0.0	0.0	0.0	96.407	12.558	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.936	6.335	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.071	1.465	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.745	0.274	
31	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.155	
MEAN	4.5460	0.6760	4.1990	1.7940	1.9380	0.0960	0.0	0.0010	3.2420	2.5530	4.9590	3.5270	
INCHES	2.968	0.413	2.742	1.133	1.265	0.061	0.0	0.001	2.049	1.667	3.133	2.303	
STA AV	1.375	1.739	1.906	1.158	0.747	0.280	0.357	0.413	0.565	0.249	0.866	1.521	

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.02106. Quality of records: Good, estimated to be within 10% of actual. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-5				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF FEBRUARY 1 - 5, 1968										
2- 1	RG WTD002 0.0	0.0	2- 1	RG WTD002 1600	0.0	0.0	2- 1	1614	0.0	0.0
				1615	0.1080	0.03		1716	0.07	0.0
				1630	0.1920	0.07		1742	0.12	0.0
				1645	0.2482	0.14		1756	0.24	0.0
				1700	0.1400	0.17		1804	2.02	0.0001
				1715	0.2198	0.23		1818	2.42	0.0006
				1730	0.1568	0.27		1838	9.52	0.0023
				1745	0.0760	0.28		1902	22.00	0.0078
				1800	0.0770	0.30		1928	70.00	0.0253
				1815	0.0877	0.33		1952	128.86	0.0602
				1830	0.1197	0.36		2000	135.00	0.0757
				1845	0.1877	0.40		2010	144.00	0.0961
				1900	0.3560	0.49		2016	153.00	0.1091
				1915	0.2800	0.56		2032	130.40	0.1423
				1930	0.6120	0.71		2056	111.50	0.1848
				1945	0.3151	0.79		2106	99.60	0.2002
				2000	0.2400	0.85		2126	87.45	0.2276
				2015	0.0762	0.87		2150	75.97	0.2563
				2030	0.1649	0.91		2216	57.00	0.2816
				2045	0.0520	0.93		2236	47.86	0.2969
				2100	0.0080	0.93		2320	27.58	0.3212
				2115	0.0080	0.93		2400	20.13	0.3352
				2245	0.0	0.93	2- 2	58	11.07	0.3484
								206	9.07	0.3584
								338	5.10	0.3679
								522	2.02	0.3733
								728	1.83	0.3769
								750	17.18	0.3800
								1008	1.07	0.3984
								1314	0.84	0.4010
								1636	0.43	0.4029
								2040	0.36	0.4043
							2- 3	2400	0.30	0.4053
							2- 4	2400	0.12	0.4097
								2400	0.09	0.4120
							2- 5	2400	0.0	0.4130

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000878. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on previous page.



OXFORD, MISSISSIPPI WATERSHED W-10

LOCATION: Marshall Co., Miss.; 3.3 mi. NW of Chulahoma, on County road; Dry Fork Creek, Pigeon Roost Creek Watershed Yazoo River Basin.

AREA: 5530.00 acres 8.64 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-10	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	6.97	2.16	7.04	4.54	5.85	2.83	2.30	1.80	10.19	5.30	8.00	5.85	62.82
	O	2.756	0.395	2.566	0.511	1.223	0.109	0.0	0.013	1.338	0.572	1.943	1.320	12.746
STA AV	P	3.96	4.93	5.09	4.66	4.69	3.04	4.25	3.60	4.96	2.38	4.51	5.35	51.41
	O	1.178	1.281	1.597	0.992	0.793	0.192	0.455	0.392	0.558	0.161	0.704	1.284	9.586

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Date	Maximum Discharge		Maximum Volume for Selected Time Interval												
		Rate	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.							
	1-10	0.180	1-10	0.180	1-10	0.330	1-10	0.670	1-10	1.110	1-9	2.080	1-9	2.270	1-3	2.750

MAXIMUMS FOR PERIOD OF RECORD															
7-9	1.180	7-9	1.060	7-9	1.650	2-23	2.130	2-23	2.390	12-3	2.660	1-30	2.980	3-24	4.170
1967		1967		1967		1962		1962		1964		1957		1965	

NOTES: Watershed conditions: About 23% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 35% in pasture and idle land, good cover April to October with fair cover remainder of year; 40% in woods, good cover; 2% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1967. About 19% of drainage area above small desilting and retention dams. Monthly precipitation Thiessen weighted from rain gages 13, 14, 20, 24 and 26. Stream gauging station inoperative Mar. 4 to Dec. 2, 1968, runoff estimated for this period. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.3-3. Precipitation and runoff records began Jan. 1957. STA AV P is for 11 yr (1957-67) record period. STA AV O is for 10 yr (Jan. 1957 thru Sept. 1965 and Oct. 1966 thru Dec. 1967) record period. Maximum discharge and volumes were not determined for period when station was inoperative, Mar. 4 to Dec. 2, 1968. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08	1.19	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.77		
2	0.03	0.0	0.0	0.70	0.0	1.23	0.04	0.21	0.0	0.0	0.0	0.0		
3	1.24	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.51	0.49	0.46	0.19		
4	0.0	0.0	0.0	0.63	0.0	0.01	0.0	0.0	0.45	0.0	0.0	0.0		
5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.12	0.0	0.0		
6	0.69	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	1.76	0.0	0.0		
7	0.0	0.0	0.0	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
8	0.19	0.0	0.0	0.91	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	2.23	0.0	0.93	0.03	0.01	0.0	0.15	0.0	0.27	0.02	0.0	0.0		
10	1.06	0.0	0.35	0.0	0.08	0.0	0.50	0.13	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.79	0.0	0.86	0.07	0.08	0.0	0.0	0.0	0.14	0.0		
12	0.60	0.0	0.05	0.0	0.04	0.0	0.0	0.99	0.0	0.0	0.0	0.81		
13	0.0	0.0	0.0	0.66	0.12	0.0	0.36	0.28	0.0	0.30	0.0	0.00		
14	0.0	0.0	0.0	0.37	1.91	0.0	0.0	0.01	0.0	1.17	0.0	0.0		
15	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.04	1.34	0.0	0.81	0.0		
16	0.0	0.0	0.10	0.0	0.67	0.0	0.03	0.0	4.25	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.0	2.99	0.44	0.08	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.03	0.0	0.0	0.05		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.04		
20	0.0	0.0	0.25	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	1.09	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.62		
22	0.0	0.0	1.14	0.56	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.18		
23	0.11	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0		
25	0.0	0.0	0.0	0.0	0.47	0.80	0.0	0.0	0.20	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.25	0.72	0.0	0.0	0.01	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	4.50	1.13		
28	0.0	0.65	0.0	0.0	0.20	0.0	0.06	0.0	0.0	0.0	0.78	0.01		
29	0.0	0.12	0.0	0.05	0.05	0.0	0.46	0.0	0.0	0.0	0.0	0.0		
30	0.27	2.16	0.05	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.55	0.05		
31	0.24		0.28		0.0		0.0		0.0			0.0		
TOTAL	6.97	2.16	7.04	4.54	5.85	2.83	2.30	1.80	10.19	5.30	8.00	5.85		
STA AV	3.96	4.93	5.09	4.66	4.69	3.04	4.25	3.60	4.96	2.38	4.51	5.35		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 13, 14, 20, 24 and 26. STA AV is for 12 yr (1957-68) record period.

1968	MEAN DAILY DISCHARGE (cfs)						OXFORD, MISSISSIPPI WATERSHED W-10						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	76.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.99
2	0.0	15.34	0.0	0.0	8.90	0.0	20.90	0.0	0.0	0.0	0.0	0.0	0.0
3	55.32	0.03	0.0	0.0	5.00	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0
4	0.68	0.0	0.0	0.0	29.60	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
5	0.00	0.0	0.0	0.0	2.00	0.0	0.10	0.0	0.0	0.0	0.20	0.0	0.0
6	55.52	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	93.34	0.0	0.0
7	0.03	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0
8	0.03	0.0	0.0	0.0	36.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	246.77	0.0	2.30	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	281.47	0.0	15.30	1.40	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.39	0.0	379.80	0.20	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	65.70	0.10	0.20	0.0	0.0	2.90	0.0	0.0	0.0	0.0	0.12
13	0.0	0.0	2.40	15.80	0.10	0.0	0.0	0.10	0.0	0.03	0.0	0.0	0.42
14	0.0	0.0	0.20	5.20	108.90	0.0	0.0	0.0	0.0	36.15	0.0	0.05	0.0
15	0.0	0.0	0.20	2.80	3.60	0.0	0.0	0.0	0.20	0.68	0.06	0.0	0.0
16	0.0	0.0	0.10	0.20	44.60	0.0	0.0	0.0	196.20	0.0	0.06	0.0	0.0
17	0.0	0.0	0.10	0.10	115.80	0.0	0.0	0.0	79.60	2.28	0.0	0.0	0.0
18	0.02	0.0	0.10	0.10	2.00	0.0	0.0	0.0	34.70	0.15	0.0	0.0	0.0
19	0.05	0.0	0.10	0.0	0.20	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
20	0.0	0.0	0.10	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	9.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.03
22	0.0	0.0	31.80	2.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.80
23	0.0	0.0	13.60	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88
24	0.0	0.0	38.80	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.10
25	0.0	0.0	27.60	0.10	1.00	1.30	0.0	0.0	0.0	0.0	0.03	0.0	0.0
26	0.0	0.0	7.10	0.10	3.20	2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.60	2.60	0.20	0.20	0.0	0.0	0.0	0.0	313.87	53.26	0.0
28	0.0	0.0	0.20	0.20	0.10	0.0	0.0	0.0	0.0	0.0	135.82	23.13	0.0
29	0.0	0.0	0.10	0.10	0.10	0.0	0.0	0.0	0.0	0.0	0.93	2.39	0.0
30	0.0	0.0	0.10	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.78	0.0
31	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.0
MEAN	0.6550	3.1650	9.2320	3.9600	9.1650	0.8430	0.0	0.0970	0.3600	4.2890	5.0450	9.8930	0.0
INCHES	2.756	0.395	2.566	0.511	1.223	0.109	0.0	0.013	1.338	0.572	1.943	1.320	0.0
STA AV	1.178	1.281	1.597	0.992	0.793	0.192	0.455	0.392	0.558	0.161	0.704	1.284	0.0

NOTES: To convert discharge in CFS to IN/OAY, multiply by 0.0043041. Quality of records: Poor, estimated to be within 20% of actual. Gauging station inoperative Mar. 4 to Dec. 1968 - daily discharge estimated for this period. STA AV is for 11 yr (Jan. 1957 thru Sept. 1965 and Oct. 1966 thru Dec. 1968) record period.

1968	SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI WATERSHED W-10						
	ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 2, 1968										
2- 1	RG WT0005	0.0	2- 1	RG WT0005	0.0	0.0	2- 1	1706	0.0	0.0
				1545	0.0751	0.02		1720	0.06	0.0
				1615	0.1272	0.05		1744	0.12	0.0
				1630	0.2086	0.10		1804	0.40	0.0
				1645	0.2000	0.15		1826	2.06	0.0001
	WATERSHED CONDITIONS:			1700	0.1430	0.19		1848	9.83	0.0005
	About 23% of area in cultivation, primarily cotton, corn, and soybeans, poor to fair cover provided by residue from 1967 crop;			1715	0.1920	0.24		1920	125.00	0.0069
	35% in pasture and idle land, fair cover; 40% in woods, good cover; 2% in bare gullies.			1730	0.1960	0.29		1942	250.92	0.0193
				1745	0.1000	0.31		2000	358.00	0.0357
				1800	0.1000	0.34		2022	477.84	0.0632
				1815	0.2272	0.39		2030	524.26	0.0752
				1830	0.3360	0.48		2042	620.00	0.0957
				1845	0.3833	0.57		2100	635.00	0.1295
				1900	0.3840	0.67		2114	595.00	0.1552
				1915	0.4240	0.77		2136	514.59	0.1917
				1930	0.7197	0.95		2158	442.00	0.2232
				1945	0.3240	1.04		2218	382.00	0.2478
				2000	0.2877	1.11		2246	298.97	0.2763
				2015	0.1120	1.14		2316	247.98	0.3008
				2030	0.1760	1.18		2342	206.00	0.3184
				2045	0.0276	1.19		2400	185.00	0.3289
				2100	0.0160	1.19	2- 2	18	173.00	0.3385
				2115	0.0008	1.19		30	176.00	0.3448
				2245	0.0	1.19		44	167.00	0.3520
				2300	0.0126	1.19		222	47.17	0.3834
								430	3.32	0.3931
								618	1.32	0.3938
								1202	0.32	0.3947
								1806	0.12	0.3949
								2400	0.10	0.3950

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0001793. Thiessen weighted storm rainfall, rain gages 13, 14, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.

OXFORD, MISSISSIPPI WATERSHED W-12

LOCATION: Marshall Co., Miss.; 5.6 mi. SW of Holly Springs, on county road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 22800.00 acres 35.60 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-12	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	6.52	1.99	6.46	4.90	6.07	2.35	1.51	1.96	9.77	4.99	7.49	5.21	59.23	
O	1.811	0.261	1.837	0.530	0.792	0.106	0.029	0.028	1.220	0.665	1.982	1.240	10.501	
STA AV P	3.82	4.72	4.95	4.53	4.32	3.04	4.05	3.59	4.74	2.31	4.36	5.06	49.49	
O	0.774	1.021	1.207	0.612	0.533	0.174	0.250	0.231	0.322	0.110	0.449	0.772	6.458	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	3-11	0.280	3-11	0.270	3-11	0.520	11-27	1.090	11-27	1.500	11-27	1.930	11-27	1.950	11-27	2.230
MAXIMUMS FOR PERIOD OF RECORD																
	2-23	0.350	2-23	0.350	2-23	0.680	2-23	1.380	2-23	1.620	11-27	1.930	1-30	2.280	3-24	4.360
	1962		1962		1962		1962		1962		1968		1957		1965	

NOTES: Watershed conditions: About 17% in cultivation (cotton, corn, and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 47% in woods, good cover; 1% in bare gullies; 7% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1970. About 18% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 62.4-6. Monthly precipitation Thiessen weighted from 16 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see O.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.07	1.10	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.70	
2	0.03	0.0	0.0	0.73	0.0	1.03	0.01	0.20	0.0	0.0	0.0	0.0	0.0	
3	1.14	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.33	0.31	0.39	0.19	0.0	
4	0.0	0.0	0.0	0.73	0.0	0.03	0.0	0.0	0.39	0.0	0.0	0.0	0.0	
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.14	1.12	0.0	0.0	0.0	
6	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	1.61	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.18	0.0	0.0	0.97	0.19	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
9	2.12	0.0	0.75	0.02	0.01	0.0	0.08	0.00	0.20	0.02	0.0	0.0	0.0	
10	0.86	0.0	0.32	0.0	0.08	0.0	0.33	0.13	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	2.66	0.0	1.10	0.01	0.03	0.0	0.0	0.0	0.11	0.0	0.0	
12	0.59	0.0	0.04	0.0	0.04	0.0	0.0	0.99	0.0	0.0	0.0	0.0	0.65	
13	0.0	0.0	0.0	0.53	0.19	0.0	0.02	0.45	0.0	0.32	0.0	0.0	0.04	
14	0.0	0.0	0.0	0.66	1.75	0.0	0.0	0.05	0.0	1.24	0.0	0.0	0.0	
15	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	1.29	0.0	0.76	0.0	0.0	
16	0.0	0.0	0.07	0.0	0.63	0.0	0.02	0.01	4.24	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	1.01	0.01	0.0	0.0	2.71	0.38	0.09	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.00	0.08	0.0	0.0	0.0	0.04	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.06	
20	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.03	1.08	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40	
22	0.0	0.0	0.95	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	
23	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.65	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.57	0.62	0.0	0.0	0.36	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.23	0.65	0.01	0.0	0.02	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	4.25	1.07	0.0	
28	0.0	0.59	0.0	0.0	0.19	0.0	0.01	0.0	0.0	0.0	0.78	0.0	0.0	
29	0.0	0.11	0.01	0.03	0.09	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.26	0.07	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.46	0.04	0.0	
31	0.22	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.52	1.99	6.46	4.90	6.07	2.35	1.51	1.96	9.77	4.99	7.49	5.21		
STA AV	3.82	4.72	4.95	4.53	4.32	3.04	4.05	3.59	4.74	2.31	4.36	5.06		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 4 thru 9, 13, 15, 18 thru 20, 25, 29 thru 31 and 33. STA AV is for 12 yr (1957-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI				WATERSHED W-12		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.1	127.7	2.5	4.5	1.3	1.2	1.3	0.6	0.7	3.7	0.8	224.7	
2	0.7	46.6	2.0	29.1	1.4	45.9	0.9	0.7	0.7	3.8	0.8	16.5	
3	158.7	6.0	1.8	13.2	1.5	5.8	0.9	0.7	0.7	3.8	0.8	7.4	
4	21.4	4.8	1.7	114.7	1.4	3.5	0.8	0.8	0.7	3.4	0.8	7.6	
5	4.3	3.9	1.5	14.0	1.3	2.6	0.8	0.8	0.7	3.7	0.7	6.2	
6	152.6	3.4	1.3	8.9	1.1	2.0	0.8	0.7	0.7	349.3	0.7	4.8	
7	11.0	3.3	1.1	5.1	0.9	1.7	0.8	0.7	0.7	3.8	0.7	4.1	
8	7.2	2.9	1.0	145.5	0.9	1.7	0.9	0.7	0.7	1.5	0.7	3.6	
9	602.6	2.6	1.9	11.4	0.9	1.7	1.0	0.7	0.7	1.2	0.7	3.6	
10	696.7	2.5	11.7	4.1	1.1	1.7	0.9	0.7	0.7	1.0	0.8	3.4	
11	19.4	2.5	1070.1	3.0	42.6	1.7	0.8	0.7	0.7	0.9	0.7	3.1	
12	6.4	2.5	183.2	2.4	4.2	1.7	0.8	2.4	0.7	0.9	0.7	3.5	
13	3.0	2.3	23.1	14.8	2.1	1.7	0.9	3.9	0.7	0.8	0.8	10.8	
14	2.3	2.4	13.1	85.1	297.6	1.7	0.9	1.1	0.7	232.6	0.9	4.8	
15	2.0	2.6	10.8	11.0	7.4	1.7	0.8	0.8	1.1	12.9	1.5	3.8	
16	2.0	2.5	9.5	2.4	101.3	1.7	0.7	0.7	526.1	1.2	0.9	3.3	
17	2.0	2.4	8.8	1.3	260.0	1.7	0.7	0.7	385.1	1.7	0.8	3.1	
18	3.7	2.4	9.1	1.1	4.2	1.7	0.7	0.7	193.8	0.9	0.8	3.1	
19	4.6	2.3	8.3	1.1	2.4	1.7	2.9	0.7	9.0	0.8	0.7	2.9	
20	4.1	2.3	7.0	1.2	1.9	1.7	1.3	0.7	5.8	0.9	0.4	2.2	
21	3.7	2.3	26.7	1.3	1.9	1.7	0.8	0.7	4.6	0.9	0.3	111.9	
22	3.2	2.3	112.2	12.5	1.9	1.7	0.8	0.7	4.5	0.9	0.3	503.3	
23	3.0	2.3	37.2	4.8	2.0	1.7	0.8	0.7	3.9	0.9	0.3	17.0	
24	2.9	2.2	104.4	2.0	1.7	1.7	0.8	0.7	3.8	0.8	1.2	7.0	
25	2.9	2.1	55.8	1.7	5.3	1.7	0.8	0.7	4.1	0.8	0.1	5.6	
26	2.8	2.1	19.1	1.7	4.9	1.7	0.8	0.7	4.2	0.8	0.2	3.7	
27	2.4	2.3	8.5	4.8	1.1	1.7	0.7	0.7	3.8	0.8	1236.0	124.6	
28	2.2	3.4	7.0	2.1	1.1	1.7	0.7	0.7	3.3	0.8	630.0	79.5	
29	2.0	3.5	7.2	1.8	1.0	1.7	0.8	0.7	3.2	0.8	9.0	6.1	
30	1.9		6.9	1.5	1.3	1.7	0.8	0.7	3.3	0.7	5.7	3.9	
31	1.9		5.4		1.4		0.7	0.7		0.7		3.0	
MEAN	5.9570	8.6270	6.7800	6.9330	4.4850	3.3920	0.9050	0.8530	8.9580	0.5610	3.2890	8.3230	
INCHES	1.811	0.261	1.837	0.530	0.792	0.106	0.029	0.028	1.220	0.665	1.982	1.240	
STA AV	0.774	1.021	1.207	0.612	0.533	0.174	0.250	0.231	0.322	0.110	0.449	0.772	

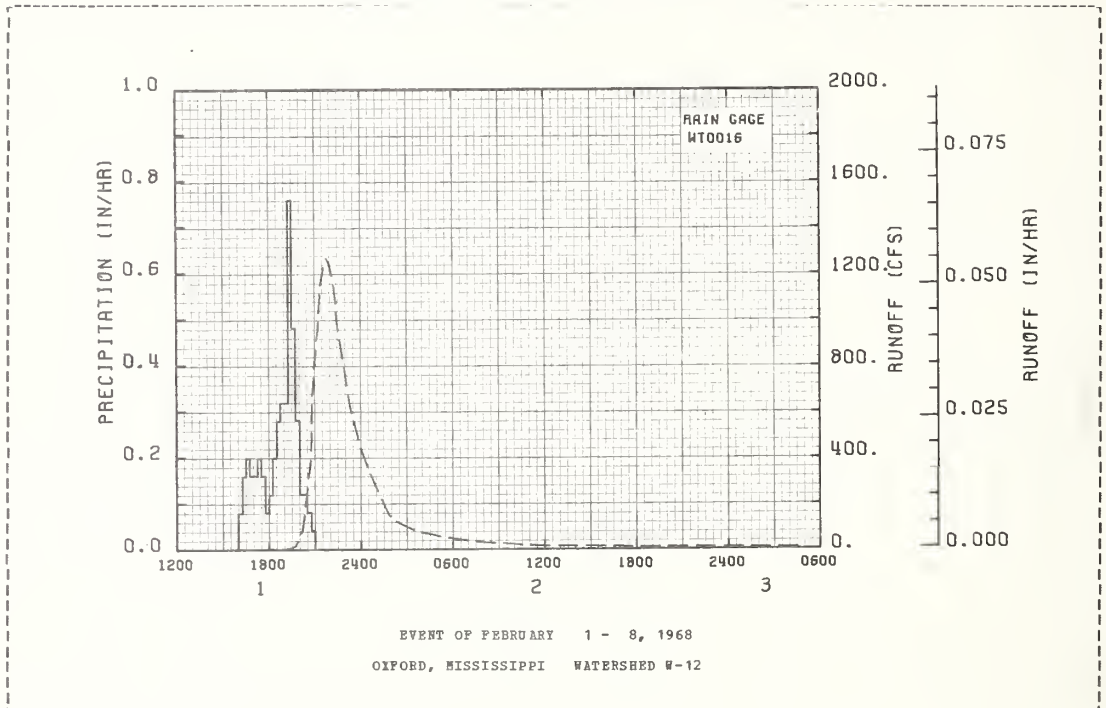
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0010439. Quality of records: Good, estimated to be within 10% of actual. STA AV is for 12 yr (1957-68) record period.

1968		SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI				WATERSHED W-12		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF FEBRUARY 1 - 8, 1968													
2- 1	RG WT0016		2- 1	RG WT0016			2- 1						
	0.0	0.001		1600	0.0	0.0		1552	1.55	0.0			
				1615	0.0955	0.02		1734	2.19	0.0001			
				1630	0.1640	0.06		1842	3.93	0.0003			
				1645	0.2080	0.12		1918	6.00	0.0004			
				1700	0.1440	0.15		1942	19.75	0.0006			
WATERSHED CONDITIONS:													
About 17% in cultivation													
primarily cotton, corn, and													
soybeans, poor to fair cover													
provided by residue from													
1967 crop; 28% in pasture													
and idle land, fair to good													
cover; 47% in woods, good													
cover; 1% in bare gullies;													
7% urban.													
				1715	0.1763	0.20		2000	54.56	0.0011			
				1730	0.2080	0.25		2008	79.93	0.0015			
				1745	0.1520	0.29		2012	93.88	0.0018			
				1800	0.0960	0.31		2044	394.30	0.0075			
				1815	0.1120	0.34		2050	655.00	0.0098			
				1830	0.2040	0.39		2102	838.00	0.0163			
				1845	0.2880	0.46		2112	958.00	0.0228			
				1900	0.3400	0.55		2124	1150.00	0.0320			
				1915	0.3198	0.63		2134	1222.00	0.0406			
				1930	0.7607	0.82		2146	1264.00	0.0514			
				1945	0.4917	0.94		2158	1240.00	0.0623			
				2000	0.2922	1.01		2216	1138.00	0.0778			
				2015	0.1040	1.04		2232	946.00	0.0899			
				2030	0.1041	1.06		2252	814.00	0.1027			
				2045	0.0759	1.08		2316	630.00	0.1153			
				2100	0.0246	1.09		2400	435.00	0.1323			
				2115	0.0040	1.09		26	357.92	0.1398			
				2130	0.0003	1.09	2- 2	58	275.00	0.1471			
				2145	0.0003	1.09		120	217.75	0.1510			
				2200	0.0003	1.09		148	152.60	0.1548			
				2215	0.0	1.09		210	121.81	0.1570			
				2230	0.0125	1.09		304	93.88	0.1612			
				2245	0.0	1.09		342	73.35	0.1635			
				2300	0.0076	1.10		428	65.21	0.1658			
				2315	0.0010	1.10		526	50.29	0.1682			
				2330	0.0	1.10		634	39.25	0.1704			
				2345	0.0	1.10		740	30.86	0.1721			
								918	23.11	0.1740			
								1052	17.44	0.1754			
								1208	12.75	0.1762			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000435. Thiessen weighted storm rainfall, rain gages 4 thru 9, 13, 15, 18 thru 20, 25, 29 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-12			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 8, 1968 (CONTINUED)										
							2- 2	1348	12.75	0.1771
								1828	7.42	0.1791
								2400	7.05	0.1808
							2- 3	2400	5.04	0.1871
							2- 4	2400	4.46	0.1921
							2- 5	2400	3.43	0.1962
							2- 6	2400	3.43	0.1998
							2- 7	2400	3.20	0.2033
							2- 8	2400	2.56	0.2063

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.0000435. Thiessen weighted storm rainfall, rain gages 4 thru 9, 13, 15, 18 thru 20, 25, 29 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-17

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Holy Springs on County road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 32100.00 acres 50.20 sq. miles

MONTHLY PRECIPITATION AND RDNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-17															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	6.61	2.08	6.56	4.86	5.96	2.17	1.67	2.11	9.78	4.69	7.57	5.24	59.29	P	6.61	2.08	6.56	4.86	5.96	2.17	1.67	2.11	9.78	4.69	7.57	5.24	59.29	
	O	2.614	0.581	2.252	0.967	1.161	0.278	0.262	0.242	1.575	0.857	2.330	1.575	14.694	O	2.614	0.581	2.252	0.967	1.161	0.278	0.262	0.242	1.575	0.857	2.330	1.575	14.694	
STA AV	P	3.87	4.77	4.95	4.59	4.34	3.06	4.12	3.77	4.61	2.30	4.34	5.14	49.84	P	3.87	4.77	4.95	4.59	4.34	3.06	4.12	3.77	4.61	2.30	4.34	5.14	49.84	
	O	1.089	1.332	1.581	0.924	0.858	0.344	0.471	0.497	0.516	0.301	0.717	1.094	9.722	O	1.089	1.332	1.581	0.924	0.858	0.344	0.471	0.497	0.516	0.301	0.717	1.094	9.722	

ANNDAL MAXIMDM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RDNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	3-11	0.200	3-11	0.200	3-11	0.390	11-27	1.030	11-27	1.470	11-27	2.000	11-27	2.080	11-27	2.490
MAXIMDMS FOR PERIOD OF RECORD																
	2-23	0.210	2-23	0.210	2-23	0.410	2-23	1.120	2-23	1.500	12-3	2.010	3-24	2.390	3-24	4.680
	1962		1962		1962		1962		1962		1964		1965		1965	

NOTES: Watershed conditions: About 19% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 38% in pasture and idle land, good cover April to October with fair cover remainder of year; 38% in woods, good cover; 2% in bare gullies; 3% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1965. About 22% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, DSDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from 21 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-17													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.07	1.18	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.71	1	0.07	1.18	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.71				
2	0.03	0.0	0.0	0.72	0.0	0.92	0.01	0.24	0.0	0.0	0.0	0.0	2	0.03	0.0	0.0	0.72	0.0	0.92	0.01	0.24	0.0	0.0				
3	1.15	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.36	0.29	0.38	0.21	3	1.15	0.0	0.0	0.02	0.0	0.0	0.36	0.29	0.38	0.21				
4	0.0	0.0	0.0	0.71	0.0	0.03	0.0	0.0	0.41	0.0	0.0	0.0	4	0.0	0.0	0.0	0.71	0.0	0.03	0.0	0.41	0.0	0.0				
5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.16	1.17	0.0	0.0	5	0.23	0.0	0.0	0.0	0.0	0.0	0.02	0.16	1.17	0.0				
6	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.02	0.0	1.56	0.0	0.0	6	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.02	0.0	0.0				
7	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0				
8	0.18	0.0	0.0	1.02	0.17	0.0	0.01	0.0	0.0	0.0	0.0	0.0	8	0.18	0.0	0.0	1.02	0.17	0.0	0.01	0.0	0.0	0.0				
9	2.12	0.0	0.76	0.03	0.01	0.0	0.07	0.00	0.21	0.02	0.0	0.0	9	2.12	0.0	0.76	0.03	0.01	0.0	0.07	0.00	0.21	0.02				
10	0.95	0.0	0.32	0.0	0.08	0.0	0.36	0.19	0.0	0.0	0.0	0.0	10	0.95	0.0	0.32	0.0	0.08	0.0	0.36	0.19	0.0	0.0				
11	0.0	0.0	2.61	0.0	1.11	0.01	0.02	0.0	0.0	0.0	0.11	0.0	11	0.0	0.0	2.61	0.0	1.11	0.01	0.02	0.0	0.11	0.0				
12	0.61	0.0	0.04	0.0	0.06	0.0	0.0	1.00	0.0	0.0	0.0	0.70	12	0.61	0.0	0.04	0.0	0.06	0.0	0.0	1.00	0.0	0.70				
13	0.0	0.0	0.0	0.54	0.16	0.0	0.03	0.43	0.0	0.24	0.0	0.03	13	0.0	0.0	0.0	0.54	0.16	0.0	0.03	0.43	0.0	0.24				
14	0.0	0.0	0.0	0.61	1.77	0.0	0.0	0.06	0.0	1.04	0.0	0.0	14	0.0	0.0	0.0	0.61	1.77	0.0	0.0	0.06	0.0	1.04				
15	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.10	1.25	0.0	0.75	0.0	15	0.0	0.17	0.0	0.0	0.0	0.0	0.10	1.25	0.0	0.75				
16	0.0	0.0	0.07	0.0	0.63	0.0	0.02	0.01	4.12	0.0	0.0	0.0	16	0.0	0.0	0.07	0.0	0.63	0.0	0.02	0.01	4.12	0.0				
17	0.0	0.0	0.0	0.0	0.96	0.01	0.0	0.02	2.76	0.38	0.09	0.0	17	0.0	0.0	0.0	0.0	0.96	0.01	0.0	0.02	2.76	0.38				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.00	0.06	0.0	0.0	0.04	18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.00	0.06	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.05	19	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0				
20	0.0	0.0	0.28	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.28	0.0	0.0	0.0	0.00	0.0	0.0	0.0				
21	0.0	0.03	1.09	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	1.39	21	0.0	0.03	1.09	0.01	0.0	0.0	0.00	0.0	0.0	0.0				
22	0.0	0.0	1.00	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04	22	0.0	0.0	1.00	0.61	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.14	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	23	0.14	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.65	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.65				
25	0.0	0.0	0.0	0.0	0.52	0.52	0.0	0.0	0.43	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.52	0.52	0.0	0.0	0.43	0.0				
26	0.0	0.0	0.0	0.0	0.20	0.68	0.00	0.0	0.02	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.20	0.68	0.00	0.0	0.02	0.0				
27	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	4.33	1.02	27	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	4.33				
28	0.0	0.58	0.0	0.0	0.20	0.0	0.01	0.0	0.0	0.0	0.79	0.00	28	0.0	0.58	0.0	0.0	0.20	0.0	0.01	0.0	0.0	0.79				
29	0.0	0.11	0.01	0.04	0.09	0.0	0.08	0.0	0.0	0.0	0.0	0.0	29	0.0	0.11	0.01	0.04	0.09	0.0	0.08	0.0	0.0	0.0				
30	0.26	0.06	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.48	0.04	30	0.26	0.06	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.48				
31	0.21	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.21	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	6.61	2.08	6.56	4.86	5.96	2.17	1.67	2.11	9.78	4.69	7.57	5.24	TOTAL	6.61	2.08	6.56	4.86	5.96	2.17	1.67	2.11	9.78	4.69	7.57	5.24		
STA AV	3.87	4.77	4.95	4.59	4.34	3.06	4.12	3.77	4.61	2.30	4.34	5.14	STA AV	3.87	4.77	4.95	4.59	4.34	3.06	4.12	3.77	4.61	2.30	4.34	5.14		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED #17												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	15.1	327.0	10.7	24.9	12.4	12.9	10.5	11.3	9.5	7.0	10.9	425.1
2	13.1	154.5	10.1	85.5	12.7	60.7	10.1	15.8	9.5	7.3	10.7	33.9
3	271.6	16.9	9.9	61.6	12.7	16.1	10.5	13.7	10.3	7.7	10.9	20.0
4	70.8	12.5	9.5	213.6	12.4	10.1	11.1	10.7	11.6	7.5	11.1	17.1
5	26.0	11.6	9.1	29.6	12.7	10.3	11.3	9.7	11.6	11.9	10.5	12.4
6	239.8	10.9	9.1	15.1	12.9	10.3	11.3	9.3	10.7	570.1	9.9	12.4
7	39.0	10.9	9.1	13.4	12.9	10.3	11.1	9.1	9.9	19.4	9.9	12.7
8	25.4	10.9	9.3	261.8	12.7	10.3	10.9	9.3	9.9	12.7	10.1	12.9
9	951.9	10.9	12.5	29.1	12.7	10.3	10.7	9.5	10.3	11.1	10.3	12.7
10	1311.6	11.1	38.6	19.2	13.4	10.5	10.3	9.5	9.5	11.1	10.3	12.4
11	117.4	10.9	1487.9	13.8	84.1	10.7	10.1	9.3	8.7	10.9	10.3	12.7
12	44.4	10.7	323.2	12.7	22.3	10.7	10.9	14.0	8.7	10.1	10.3	16.4
13	29.3	10.9	30.4	48.3	12.0	10.7	11.6	17.7	8.9	10.1	10.5	40.2
14	27.0	11.1	19.9	149.8	531.2	10.7	11.3	12.0	9.1	245.3	10.3	14.2
15	27.4	11.3	18.9	76.0	28.2	10.7	11.3	10.7	10.3	32.5	12.3	12.4
16	28.3	11.3	18.9	19.3	161.7	10.9	11.3	10.1	814.0	13.4	12.3	12.2
17	27.9	10.9	18.9	15.1	381.0	10.9	11.1	10.9	670.4	14.2	10.1	12.0
18	26.1	10.7	18.2	14.3	34.0	10.7	12.0	10.1	387.2	13.2	9.7	12.2
19	24.4	10.7	17.3	13.6	17.3	10.7	24.5	9.7	15.8	11.6	10.1	12.2
20	21.8	10.7	17.0	13.6	13.6	10.7	13.5	9.7	8.9	11.1	10.1	12.0
21	19.2	10.7	68.4	13.6	12.9	10.7	10.7	9.9	7.7	10.9	10.3	121.5
22	18.6	10.7	234.8	34.7	12.9	10.5	9.9	9.7	6.7	10.7	10.9	741.6
23	17.6	10.7	92.7	21.7	12.9	10.3	10.5	9.7	6.4	10.7	10.1	62.3
24	17.6	10.7	229.5	14.8	12.5	10.5	10.7	9.7	6.7	10.9	13.9	33.5
25	17.6	10.3	123.2	14.3	14.6	10.7	10.7	9.5	8.5	10.9	10.9	27.9
26	16.4	9.9	56.9	14.1	21.3	12.6	10.7	9.3	10.1	11.1	10.7	25.3
27	15.3	9.9	32.1	21.5	13.6	10.3	10.7	9.1	8.5	10.7	1760.3	151.5
28	14.8	11.6	27.0	14.3	13.1	10.1	10.7	9.1	8.4	10.3	1031.2	175.8
29	14.8	12.2	24.4	12.9	13.1	10.3	10.7	9.5	8.4	10.5	48.3	23.2
30	16.2		23.2	12.2	13.1	10.5	11.1	9.7	8.2	10.7	24.7	17.7
31	18.3		26.4		12.9		11.3	9.5		10.9		15.4
MEAN	13.700	27.000	97.970	43.480	50.510	12.510	11.400	10.530	70.800	37.300	4.730	68.510
INCHES	2.614	0.581	2.252	0.967	1.161	0.278	0.262	0.242	1.575	0.857	2.330	1.575
STA AV	1.089	1.332	1.581	0.924	0.858	0.344	0.471	0.497	0.516	0.301	0.717	1.094

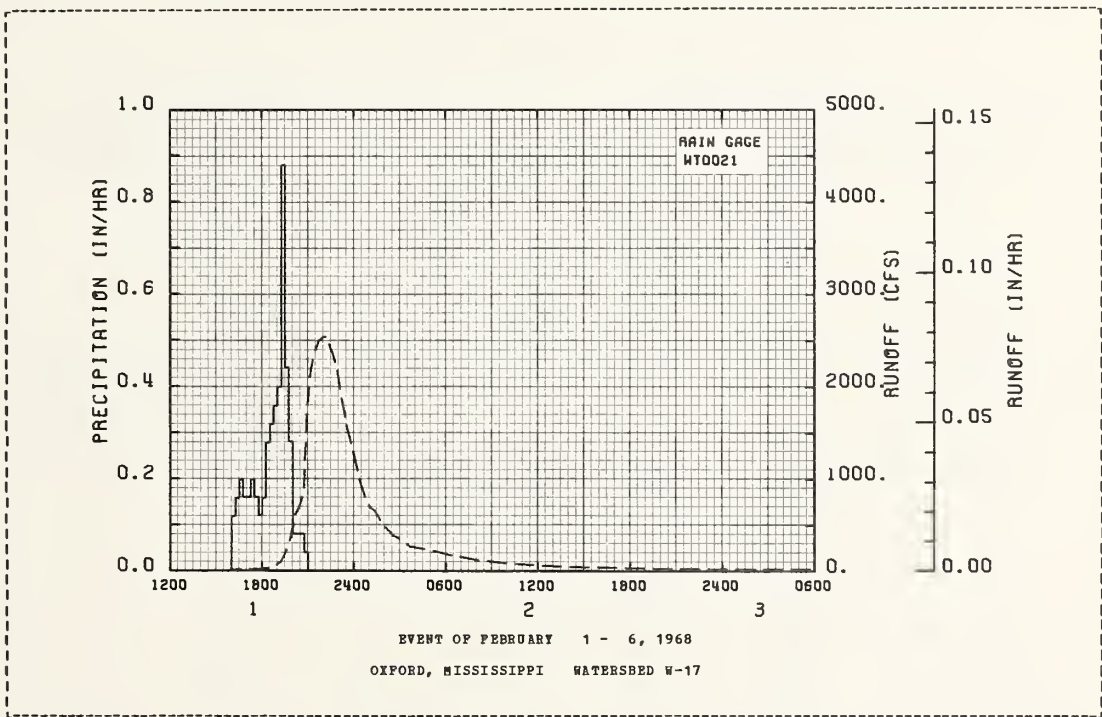
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0007415. Quality of records: Good, estimated to be within 10% of actual. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED #17											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 1 - 6, 1968											
RG WTD021			RG WTD021								
2- 1	0.0	0.009	2- 1	1500	0.0	0.0	2- 1	1600	17.00	0.0	
				1515	0.0039	0.00		1658	18.24	0.0005	
				1530	0.0039	0.00		1738	23.21	0.0009	
				1545	0.0039	0.00		1814	30.16	0.0014	
				1600	0.0200	0.01		1838	45.41	0.0019	
				1615	0.1155	0.04		1856	69.00	0.0024	
				1630	0.1600	0.08		1914	107.61	0.0032	
				1645	0.2200	0.13		1926	180.65	0.0041	
				1700	0.1442	0.17		1948	323.89	0.0070	
				1715	0.1688	0.21		1956	435.79	0.0086	
				1730	0.1920	0.26		2010	605.00	0.0124	
				1745	0.1520	0.30		2034	780.29	0.0210	
				1800	0.1110	0.32		2042	848.89	0.0244	
				1815	0.1562	0.36		2052	1464.00	0.0303	
				1830	0.2685	0.43		2056	1746.00	0.0336	
				1845	0.3368	0.51		2110	2190.00	0.0478	
				1900	0.3569	0.60		2126	2370.00	0.0666	
				1915	0.4080	0.70		2142	2502.00	0.0867	
				1930	0.8640	0.92		2158	2544.00	0.1075	
				1945	0.4520	1.03		2212	2532.00	0.1258	
				2000	0.2880	1.11		2236	2358.00	0.1560	
				2015	0.0960	1.13		2254	2172.00	0.1770	
				2030	0.0967	1.15		2316	1800.00	0.1995	
				2045	0.0720	1.17		2334	1542.00	0.2150	
				2100	0.0247	1.18		2400	1260.00	0.2338	
				2115	0.0	1.18	2- 2	28	921.00	0.2495	
				2130	0.0003	1.18		46	772.50	0.2573	
				2145	0.0003	1.18		102	695.30	0.2633	
				2200	0.0003	1.18		124	635.00	0.2708	
				2215	0.0010	1.18		152	504.26	0.2790	
				2230	0.0112	1.18		220	419.73	0.2857	
				2245	0.0	1.18		232	385.27	0.2882	
				2300	0.0040	1.18		302	335.89	0.2938	
				2315	0.0007	1.18		336	266.96	0.2991	
				2330	0.0	1.18		452	227.77	0.3088	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-17				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 6, 1968 (CONTINUED)										
				2345	0.0007	1.18	2- 2	622	166.72	0.3179
								716	141.09	0.3222
								754	121.94	0.3248
								924	90.66	0.3297
								1056	70.41	0.3335
								1226	56.00	0.3364
								1526	39.75	0.3408
								1830	29.23	0.3441
								2130	23.21	0.3465
								2400	20.96	0.3482
							2- 3	2400	12.90	0.3608
							2- 4	2400	12.00	0.3700
							2- 5	2400	11.12	0.3786
							2- 6	2400	10.69	0.3867

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-24

LOCATION: Marshall Co., Miss.; 2.2 mi. SW of Holly Springs on County road; Little Sand Ditch, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 512.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-24	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	6.62	2.24	6.94	4.72	5.65	1.62	1.32	1.51	9.55	4.64	7.48	5.28	57.56	
	O	2.959	0.536	1.633	1.641	0.507	0.005	0.0	0.000	1.248	1.042	2.319	2.778	14.668	
STA AV	P	3.91	4.87	5.06	4.53	4.45	2.94	4.11	3.51	4.42	2.27	4.33	5.07	49.46	
	O	1.136	1.511	1.456	1.118	0.629	0.110	0.220	0.293	0.269	0.142	0.569	1.047	8.501	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	11-27	0.900	11-27	0.680	11-27	0.890	11-27	1.250	11-27	1.640	11-27	2.180	11-27	2.270	11-27	2.970
MAXIMUMS FOR PERIOD OF RECORD																
	2-23 1962	1.040	2-23 1962	0.900	2-23 1962	1.360	2-23 1962	1.640	2-23 1962	1.860	3-28 1965	2.390	1-30 1957	3.160	3-24 1965	5.320

NOTES: Watershed conditions: About 4% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 13% in pasture and idle land, good cover April to October with fair cover remainder of year; 81% in woods, good cover; 2% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1968. About 7% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USOA Misc. Pub. 945, p. 62.7-4. Monthly precipitation Thiessen weighted from rain gages 4 and 30. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-24	
Oav	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.07	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70
2	0.03	0.0	0.0	0.71	0.0	0.53	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0
3	1.08	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.20	0.26	0.32	0.20	0.0	0.0
4	0.0	0.0	0.0	0.67	0.0	0.05	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0
5	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.24	1.29	0.0	0.0	0.0	0.0
6	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.21	0.0	0.0	1.22	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	2.16	0.0	0.74	0.03	0.03	0.0	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0
10	0.81	0.0	0.31	0.0	0.10	0.0	0.25	0.07	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	2.68	0.0	1.19	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0
12	0.74	0.0	0.05	0.0	0.07	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.67
13	0.0	0.0	0.0	0.44	0.15	0.0	0.02	0.46	0.0	0.03	0.0	0.0	0.0	0.06
14	0.0	0.0	0.0	0.48	1.49	0.0	0.0	0.07	0.0	1.35	0.0	0.0	0.0	0.0
15	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.03	1.19	0.0	0.73	0.0	0.0	0.0
16	0.0	0.0	0.06	0.0	0.61	0.0	0.0	0.02	3.87	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.81	0.07	0.0	0.0	2.54	0.39	0.09	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.11	0.0	0.0	0.0	0.0	0.04
19	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.06
20	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.05	1.15	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29
22	0.0	0.0	1.29	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04
23	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.67	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.70	0.30	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.08	0.66	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	4.23	1.18	0.0	0.0
28	0.0	0.57	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0
29	0.0	0.12	0.05	0.03	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.23		0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.45	0.04	0.0	0.0
31	0.21		0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		6.62	2.24	6.94	4.72	5.65	1.62	1.32	1.51	9.55	4.64	7.48	5.28	
STA AV		3.91	4.87	5.06	4.53	4.45	2.94	4.11	3.51	4.42	2.27	4.33	5.07	

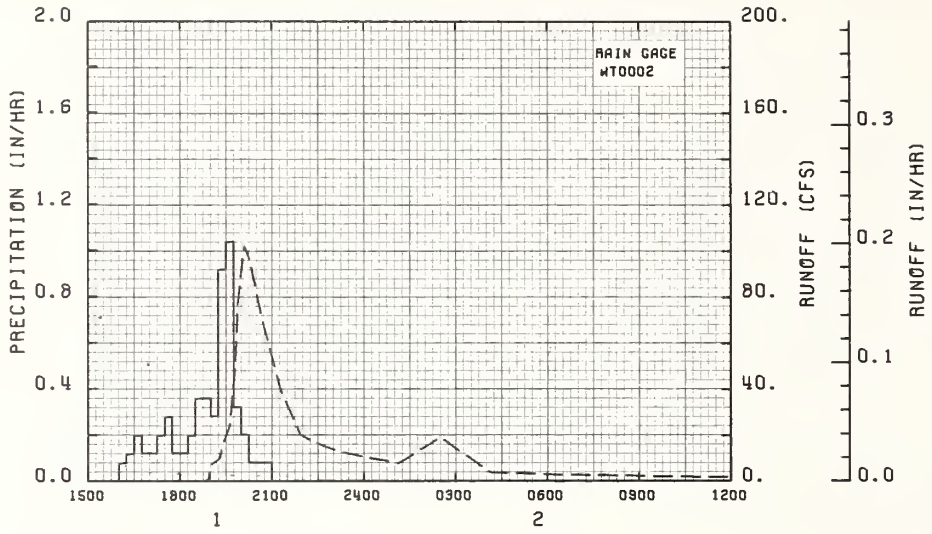
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 4 and 30. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs)				OXFORD, MISSISSIPPI WATERSHED W-24											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	7.312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.491			
2	0.0	3.130	0.0	0.150	0.0	0.109	0.0	0.0	0.0	0.0	0.0	2.289			
3	4.694	0.238	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.671			
4	0.370	0.216	0.0	0.770	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.409			
5	0.111	0.131	0.0	0.337	0.0	0.0	0.0	0.0	0.0	0.374	0.0	1.915			
6	3.125	0.114	0.0	0.175	0.0	0.0	0.0	0.0	0.0	15.212	0.0	1.387			
7	0.175	0.097	0.0	0.136	0.0	0.0	0.0	0.0	0.0	1.546	0.0	1.092			
8	0.175	0.097	0.0	30.398	0.0	0.0	0.0	0.0	0.0	0.065	0.0	0.930			
9	14.757	0.097	0.391	0.136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.768			
10	21.675	0.048	1.275	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.768			
11	5.782	0.0	24.468	0.0	0.988	0.0	0.0	0.0	0.0	0.0	0.0	0.930			
12	2.995	0.0	3.480	0.0	0.115	0.0	0.0	0.0	0.0	0.0	0.0	1.007			
13	1.936	0.0	0.661	0.074	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.845			
14	1.120	0.0	0.164	0.615	5.228	0.0	0.0	0.0	0.0	5.010	0.0	0.768			
15	0.768	0.055	0.083	0.499	0.034	0.0	0.0	0.0	0.084	0.004	0.260	0.768			
16	0.768	0.0	0.034	0.231	1.052	0.0	0.0	0.0	6.731	0.0	0.0	0.768			
17	0.768	0.0	0.0	0.231	1.826	0.0	0.0	0.0	13.552	0.197	0.0	0.768			
18	0.768	0.0	0.0	0.231	0.175	0.0	0.0	0.0	6.387	0.0	0.0	0.768			
19	0.768	0.0	0.0	0.231	0.175	0.0	0.0	0.0	0.027	0.0	0.0	0.768			
20	0.768	0.0	0.034	0.231	0.175	0.0	0.0	0.0	0.0	0.0	0.0	0.768			
21	0.535	0.0	2.277	0.231	0.175	0.0	0.0	0.0	0.0	0.0	0.0	3.943			
22	0.302	0.0	1.587	0.217	0.175	0.0	0.0	0.0	0.0	0.0	0.0	12.051			
23	0.302	0.0	0.065	0.115	0.175	0.0	0.0	0.0	0.0	0.0	0.0	1.584			
24	0.238	0.0	0.265	0.0	0.087	0.0	0.0	0.0	0.0	0.0	0.266	0.634			
25	0.175	0.0	0.221	0.0	0.530	0.0	0.0	0.0	0.066	0.0	0.0	0.500			
26	0.153	0.0	0.115	0.0	0.0	0.008	0.0	0.0	0.001	0.0	0.0	0.445			
27	0.131	0.0	0.0	0.185	0.0	0.0	0.0	0.0	0.0	0.0	34.898	4.586			
28	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.567	3.168			
29	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.549	1.591			
30	0.083	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.337	1.275			
31	0.114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.099			
MEAN	2.0530	0.3980	1.1330	1.1770	0.3520	0.0040	0.0	0.0001	0.8950	0.7230	1.6630	1.9280			
INCHES	2.959	0.536	1.633	1.641	0.507	0.005	0.0	0.000	1.248	1.042	2.319	2.778			
STA AV	1.136	1.511	1.456	1.118	0.629	0.110	0.220	0.293	0.269	0.142	0.569	1.047			

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.046488. Quality of records: Poor, estimated to be within 20% of actual. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT				OXFORD, MISSISSIPPI WATERSHED W-24											
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.					
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF FEBRUARY 1 - 7, 1968															
2- 1	RG WTD002 0.0	0.006	2- 1	RG WTD002 1600	0.0	0.0	2- 1	1852	0.17	0.0					
				1615	0.0607	0.02		1856	0.63	0.0001					
				1630	0.1200	0.05		1900	7.19	0.0006					
				1645	0.2160	0.10		1918	10.44	0.0057					
				1700	0.1240	0.13		1922	14.48	0.0073					
WATERSHED CONDITIONS:															
	About 4% of area in cultivation primarily cotton and corn, poor to fair cover provided by residue from 1967 crop; 13% in pasture and idle land, fair to good cover; 81% in woods, good cover; 2% in bare gullies.														
				1715	0.1110	0.16		1938	25.14	0.0175					
				1730	0.2040	0.21		1948	49.00	0.0295					
				1745	0.2920	0.28		1954	79.00	0.0419					
				1800	0.1280	0.31		2006	102.30	0.0770					
				1815	0.1280	0.35		2016	96.00	0.1090					
				1830	0.2166	0.40		2030	82.15	0.1493					
				1845	0.3480	0.49		2040	71.00	0.1740					
				1900	0.3480	0.57		2116	40.13	0.2386					
				1915	0.2927	0.65		2156	19.98	0.2774					
				1930	0.9160	0.88		2216	17.48	0.2895					
				1945	1.0290	1.13		2242	14.96	0.3031					
				2000	0.3160	1.21		2320	12.17	0.3197					
				2015	0.1884	1.26		2400	10.44	0.3343					
				2030	0.0633	1.27	2- 2	106	7.58	0.3535					
				2045	0.0633	1.29		228	19.00	0.3887					
				2100	0.0633	1.31		408	3.59	0.4252					
								616	2.67	0.4381					
								922	1.91	0.4518					
								1804	0.77	0.4743					
								2400	0.17	0.4797					
							2- 3	2400	0.30	0.4908					
							2- 4	2400	0.13	0.5009					
							2- 5	2400	0.13	0.5070					
							2- 6	2400	0.10	0.5123					
							2- 7	2400	0.10	0.5168					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001937. Thiessen weighted storm rainfall, rain gages 4 and 30. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 7, 1968
 OXFORD, MISSISSIPPI WATERSHED W-24

OXFORD, MISSISSIPPI WATERSHED W-28

LOCATION: Marshall Co., Miss.; 2.3 mi. SW of Holly Springs on State Highway No. 7; Walkers Bottom Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1080.00 acres 1.69 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-28	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	6.66	1.95	6.18	4.96	6.70	2.46	0.53	2.72	9.20	5.36	7.59	5.08	59.40	
	O	0.724	0.180	0.735	0.221	0.374	0.026	0.0	0.055	1.229	0.732	1.304	0.316	5.896	
STA AV	P	3.81	4.76	4.88	4.43	4.18	3.09	3.97	3.38	4.68	2.40	4.34	5.08	49.00	
	O	0.372	0.473	0.474	0.257	0.187	0.048	0.119	0.206	0.222	0.098	0.228	0.329	3.012	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	11-27	0.530	11-27	0.460	11-27	0.750	11-27	0.970	11-27	1.040	11-27	1.180	11-27	1.420

MAXIMUMS FOR PERIOD OF RECORD														
1967	8-2	0.630	8-2	0.570	8-2	0.900	8-2	1.220	8-2	1.390	1-31	1.450	1-30	2.020
	1967		1967		1967		1967		1967		1957		1957	
	1-27	2.680	1-27	2.680	1-27	2.680	1-27	2.680	1-27	2.680	1-27	2.680	1-27	2.680

NOTES: Watershed conditions: About 12% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 29% in pasture and idle land, good cover April to October with fair cover remainder of year; 58% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1967. About 61% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSOA Misc. Pub. 945, p. 62.8-5. Monthly precipitation Thiessen weighted from rain gages 5, 6 and 7. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see O.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-28	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.09	1.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.71		
2	0.04	0.0	0.0	0.82	0.0	1.16	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
3	1.11	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.24	0.26	0.38	0.19	0.0		
4	0.0	0.0	0.0	0.91	0.0	0.12	0.0	0.0	0.41	0.0	0.0	0.0	0.0		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	1.06	0.0	0.0	0.0		
6	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	1.73	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.17	0.0	0.0	0.90	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	2.21	0.0	0.68	0.01	0.01	0.0	0.07	0.0	0.18	0.05	0.0	0.0	0.0		
10	0.80	0.0	0.27	0.0	0.07	0.0	0.03	0.06	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.70	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0		
12	0.67	0.0	0.03	0.0	0.01	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.59		
13	0.0	0.0	0.0	0.53	0.19	0.0	0.0	0.45	0.0	0.32	0.0	0.09	0.0		
14	0.0	0.0	0.0	0.62	1.83	0.0	0.0	0.18	0.0	1.44	0.0	0.0	0.0		
15	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.23	1.32	0.0	0.75	0.0	0.0		
16	0.0	0.0	0.05	0.0	0.56	0.0	0.0	0.0	4.27	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	2.17	0.51	0.11	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.03	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.07	0.0		
20	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.07	0.99	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.44	0.0		
22	0.0	0.0	0.96	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.0		
23	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0		
25	0.0	0.0	0.0	0.0	1.07	0.54	0.0	0.0	0.38	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.13	0.63	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	4.38	0.99	0.0		
28	0.0	0.56	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0		
29	0.0	0.13	0.0	0.03	0.10	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.26	0.0	0.06	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.42	0.02	0.0		
31	0.23	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.66	1.95	6.18	4.96	6.70	2.46	0.53	2.72	9.20	5.36	7.59	5.08			
STA AV	3.81	4.76	4.88	4.43	4.18	3.09	3.97	3.38	4.68	2.40	4.34	5.08			

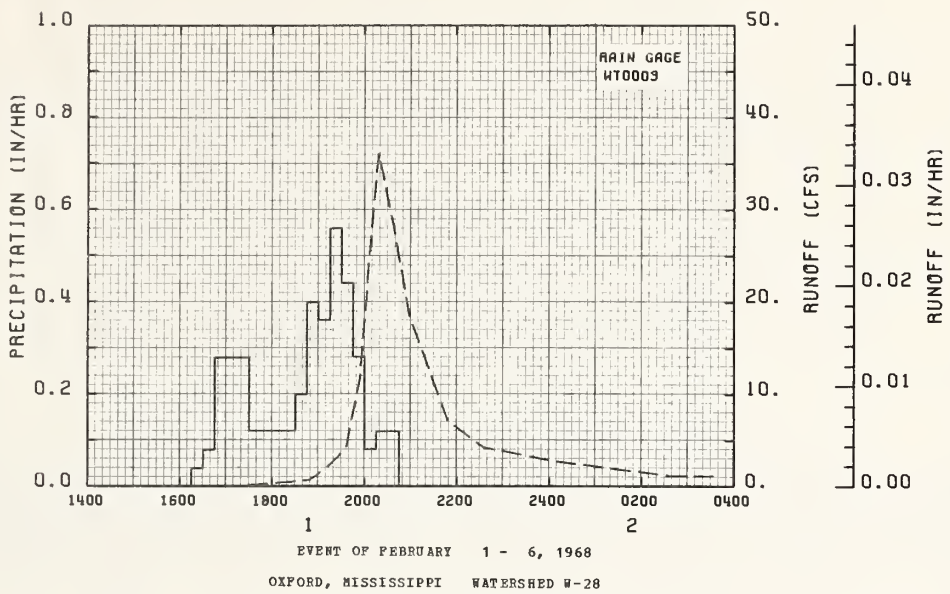
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 5, 6 and 7. STA AV is for 12 yr (1957-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI WATERSHED W-28					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	2.237	0.0	0.115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.076
2	0.0	0.994	0.0	0.649	0.0	1.152	0.0	0.0	0.0	0.0	0.0	0.177
3	0.017	0.531	0.0	0.215	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.090
4	0.0	0.425	0.0	1.754	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032
5	0.0	0.425	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.413	0.0	0.0
6	1.643	0.425	0.0	0.032	0.0	0.0	0.0	0.0	0.0	25.335	0.0	0.0
7	0.515	0.425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.226	0.425	0.0	1.146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	16.104	0.425	0.0	0.491	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	10.255	0.425	0.006	0.425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.073	0.332	24.263	0.394	0.759	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.332	0.240	2.272	0.331	0.008	0.0	0.0	2.479	0.0	0.0	0.0	0.0
13	0.240	0.240	0.332	0.571	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0
14	0.240	0.240	0.215	1.711	6.192	0.0	0.0	0.0	0.0	7.470	0.0	0.0
15	0.152	0.240	0.190	0.476	0.439	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.065	0.120	0.152	0.115	1.522	0.0	0.0	0.0	30.861	0.0	0.0	0.0
17	0.065	0.0	0.115	0.132	4.333	0.0	0.0	0.0	18.998	0.0	0.0	0.0
18	0.065	0.0	0.115	0.149	0.422	0.0	0.0	0.0	5.912	0.0	0.0	0.0
19	0.065	0.0	0.115	0.149	0.132	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.065	0.0	0.115	0.149	0.118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.065	0.0	0.783	0.149	0.087	0.0	0.0	0.0	0.0	0.0	0.0	1.012
22	0.065	0.0	1.462	0.297	0.087	0.0	0.0	0.0	0.0	0.0	0.0	4.000
23	0.065	0.0	0.558	0.181	0.076	0.0	0.0	0.0	0.0	0.0	0.0	0.468
24	0.065	0.0	1.082	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.300
25	0.065	0.0	0.362	0.0	1.739	0.0	0.0	0.0	0.0	0.0	0.0	0.300
26	0.065	0.0	0.245	0.0	0.703	0.0	0.0	0.0	0.0	0.0	0.0	0.270
27	0.065	0.0	0.190	0.279	0.224	0.0	0.0	0.0	0.0	0.0	45.431	1.555
28	0.065	0.0	0.190	0.038	0.074	0.0	0.0	0.0	0.0	0.0	10.051	0.547
29	0.065	0.0	0.215	0.014	0.0	0.0	0.0	0.0	0.0	0.0	2.464	0.190
30	0.065	0.0	0.215	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.210	0.169
31	0.065	0.0	0.152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.149
MEAN	1.0590	0.2810	1.0760	0.3340	0.5480	0.0400	0.0	0.0810	1.8590	1.0720	1.9720	0.4620
INCHES	0.724	0.180	0.735	0.221	0.374	0.026	0.0	0.055	1.229	0.732	1.304	0.316
STA AV	0.372	0.473	0.474	0.257	0.187	0.048	0.119	0.206	0.222	0.098	0.228	0.329

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0220387. Quality of records: Poor, estimated to be within 20% of actual. STA AV is for 12 yr (1957-68) record period.

1968		SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI WATERSHED W-28					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 6, 1968										
2- 1	RG WT0003 0.01	0.001	2- 1	RG WT0003 1615	0.0	0.0	2- 1	1554	0.0	0.0
				1630	0.0450	0.01		1720	0.11	0.0001
				1645	0.0640	0.03		1848	0.73	0.0007
				1700	0.2760	0.10		1912	2.21	0.0012
				1715	0.2840	0.17		1936	4.20	0.0024
WATERSHED CONDITIONS: About 12% of area in cultivation, primarily cotton and corn, poor to fair cover provided by residue from 1967 crop; 29% in pasture and idle land, fair to good cover; 58% in woods, good cover; 1% in bare gullies.				1730	0.2840	0.24		1954	11.82	0.0046
				1745	0.1160	0.27		2010	28.83	0.0096
				1800	0.1158	0.30		2018	36.11	0.0136
				1815	0.1320	0.33		2036	28.83	0.0225
				1830	0.1320	0.36		2058	18.49	0.0305
				1845	0.1800	0.41		2148	7.11	0.0403
				1900	0.3965	0.51		2234	4.20	0.0443
				1915	0.3640	0.60		2400	2.78	0.0489
				1930	0.5676	0.74	2- 2	236	1.12	0.0536
				1945	0.4565	0.85		2400	0.64	0.0709
				2000	0.2920	0.93	2- 3	2400	0.42	0.0826
				2015	0.1000	0.95	2- 4	2400	0.42	0.0920
				2030	0.1325	0.98	2- 5	2400	0.42	0.1014
				2045	0.1118	1.01	2- 6	2400	0.42	0.1108
				2100	0.0160	1.02				
				2115	0.0120	1.02				
				2330	0.0	1.02				
				2345	0.0120	1.02				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0009183. Thiessen weighted storm rainfall, rain gauges 5, 6 and 7. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-32

LOCATION: Marshall Co., Miss.; 4.6 mi. E of Walhill on County road; Cuffawa Creek, Pigeon Roost Creek Watershed Yazoo River Basin.

AREA: 20000.00 acres 31.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-32	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 6.75	2.09	6.96	4.33	5.54	3.11	2.41	1.64	9.61	5.00	7.80	5.59	60.81	
	O 3.009	0.431	3.082	0.577	1.381	0.137	0.0	0.004	1.507	0.791	2.686	1.969	15.574	
STA AV	P 3.90	4.85	5.04	4.61	4.69	2.99	4.21	3.41	5.00	2.29	4.43	5.23	50.64	
	O 1.204	1.640	1.916	1.001	1.041	0.149	0.385	0.339	0.547	0.139	0.728	1.383	10.474	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days					
1968	3-11	0.460	3-11	0.450	3-11	0.840	3-11	1.650	3-11	2.100	11-27	2.650	11-27	2.680	11-27	3.180
	2-23	0.570	2-23	0.560	7-9	0.960	12-3	1.940	12-3	2.450	12-3	3.480	12-3	3.720	3-24	6.130
	1962		1962		1967		1964		1964		1964		1964		1965	

NOTES: Watershed conditions: About 29% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 39% in pasture and idle land, good cover April to October with fair cover remainder of year; 30% in woods, good cover; 2% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1964. About 14% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 62.10-5. Monthly precipitation Thiessen weighted from 10 rain gauges. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-32	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08	1.11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.73	
2	0.03	0.0	0.0	0.64	0.0	1.24	0.04	0.12	0.0	0.0	0.0	0.0	0.0	
3	1.23	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.52	0.42	0.47	0.0	0.19	
4	0.0	0.0	0.0	0.62	0.0	0.01	0.0	0.0	0.47	0.0	0.0	0.0	0.0	
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.11	1.11	0.0	0.0	0.0	
6	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	1.68	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.20	0.0	0.0	0.87	0.08	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
9	2.14	0.0	0.93	0.04	0.01	0.0	0.17	0.0	0.30	0.03	0.0	0.0	0.0	
10	0.98	0.0	0.34	0.0	0.08	0.0	0.39	0.23	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	2.75	0.0	0.75	0.10	0.03	0.0	0.0	0.0	0.0	0.14	0.0	
12	0.61	0.0	0.04	0.0	0.04	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.79	
13	0.0	0.0	0.0	0.64	0.09	0.0	0.36	0.27	0.0	0.20	0.0	0.0	0.00	
14	0.0	0.0	0.0	0.25	1.79	0.0	0.0	0.02	0.0	1.02	0.0	0.0	0.0	
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.04	1.33	0.0	0.79	0.0	0.0	
16	0.0	0.0	0.11	0.0	0.69	0.0	0.11	0.0	4.09	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	2.55	0.51	0.08	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.08	0.02	0.0	0.0	0.0	0.05	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.04	
20	0.0	0.0	0.27	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.03	1.04	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.54	
22	0.0	0.0	1.11	0.55	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	1.14	
23	0.10	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.45	1.07	0.0	0.0	0.21	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.22	0.69	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	4.32	1.04	0.0	
28	0.0	0.64	0.0	0.0	0.20	0.0	0.05	0.0	0.0	0.0	0.78	0.00	0.0	
29	0.0	0.13	0.0	0.05	0.04	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.26	0.0	0.09	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.55	0.05	0.0	
31	0.21		0.27		0.0		0.0	0.0		0.0		0.0	0.0	
TOTAL	6.75	2.09	6.96	4.33	5.54	3.11	2.41	1.64	9.61	5.00	7.80	5.59		
STA AV	3.90	4.85	5.04	4.61	4.69	2.99	4.21	3.41	5.00	2.29	4.43	5.23		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gauges 3, 10 thru 14, 20, 21, 24 and 26. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-32												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	282.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	395.0
2	0.0	75.8	0.0	36.9	0.0	87.5	0.0	0.0	0.0	0.0	0.0	13.2
3	331.2	2.6	0.0	20.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.2
4	20.8	0.3	0.0	123.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
5	0.1	0.2	0.0	8.4	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1
6	131.1	0.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	466.7	0.0	0.3
7	3.9	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1
8	0.1	0.2	0.0	153.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9	966.7	0.2	10.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
10	1058.1	0.1	66.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
11	10.0	0.0	1651.3	0.2	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.3	0.0	285.8	0.0	0.8	0.0	0.0	3.5	0.0	0.0	0.0	0.7
13	1.2	0.0	10.3	65.9	0.0	0.0	0.0	0.2	0.0	0.1	0.0	25.6
14	1.2	0.0	0.7	21.5	453.7	0.0	0.0	0.0	0.0	180.7	0.0	1.7
15	1.2	0.0	0.3	11.6	6.0	0.0	0.0	0.0	0.6	3.4	0.3	0.2
16	0.7	0.0	0.2	0.1	185.9	0.0	0.0	0.0	696.4	0.0	0.3	0.1
17	0.2	0.0	0.2	0.0	482.3	0.0	0.0	0.0	395.2	11.4	0.0	0.0
18	0.1	0.0	0.2	0.0	8.8	0.0	0.0	0.0	173.6	0.8	0.0	0.0
19	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0
20	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	42.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182.5
22	0.0	0.0	138.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	727.4
23	0.0	0.0	59.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0
24	0.1	0.0	168.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2
25	0.1	0.0	119.8	0.0	1.4	22.5	0.0	0.0	0.0	0.0	0.2	1.0
26	0.0	0.0	30.7	0.0	4.3	4.9	0.0	0.0	0.0	0.0	0.0	1.1
27	0.0	0.0	2.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	1569.3	160.6
28	0.0	0.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	679.1	107.4
29	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	2.8
30	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0
31	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	1.5630	2.5010	3.5480	6.1610	7.4300	3.8360	0.0	0.1180	2.1990	1.4470	5.2260	3.3600
INCHES	3.009	0.431	3.082	0.577	1.381	0.137	0.0	0.004	1.507	0.791	2.686	1.969
STA AV	1.204	1.640	1.916	1.001	1.041	0.149	0.385	0.339	0.547	0.139	0.728	1.383

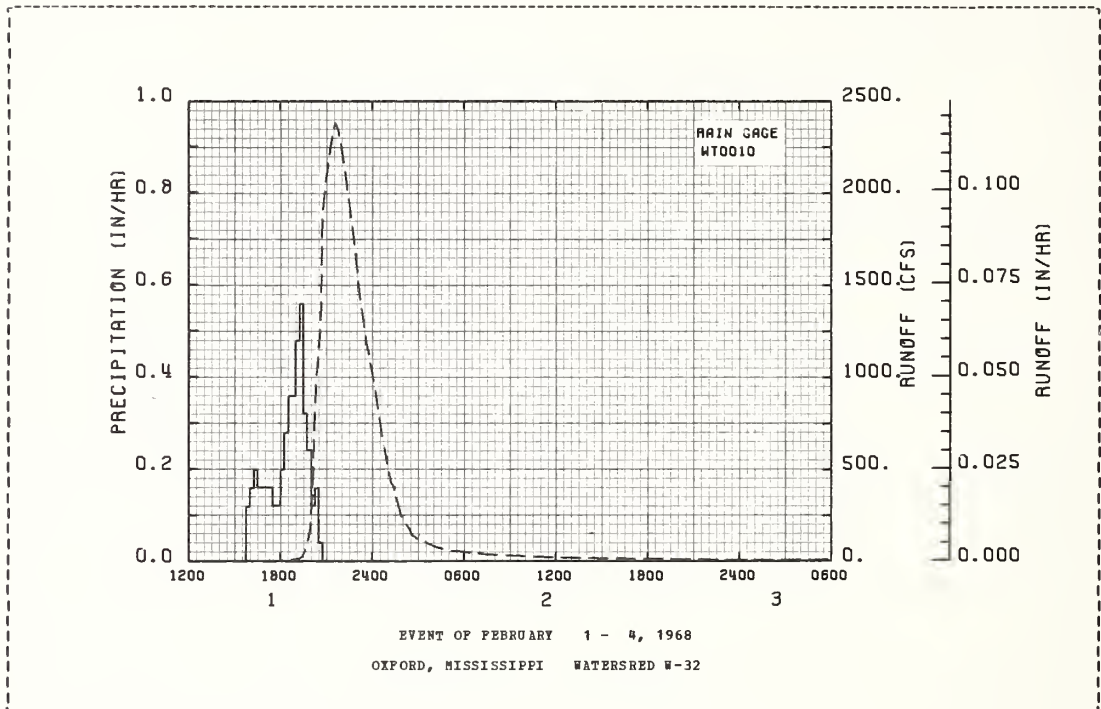
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0011901. Quality of records: Good, estimated to be within 10% of actual. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-32												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 4, 1968												
RG WTD010			RG WTD010									
2- 1	0.00	0.000	2- 1	1545	0.0	0.0	2- 1	1546	0.20	0.0		
				1600	0.1199	0.03		1710	0.93	0.0		
				1615	0.1475	0.07		1810	4.42	0.0001		
				1630	0.1926	0.11		1850	11.97	0.0004		
				1645	0.1601	0.15		1910	16.15	0.0006		
WATERSHED CONDITIONS:												
About 29% of area in cultivation, primarily cotton, corn and soybeans, poor to fair cover provided by residue from 1967 crop; 39% in pasture and idle land, fair to good cover; 30% in woods, good cover; 2% in bare gullies.												
				1700	0.1447	0.19		1926	28.84	0.0009		
				1715	0.1518	0.23		1944	87.20	0.0018		
				1730	0.1483	0.27		1958	198.04	0.0035		
				1745	0.1120	0.29		2008	464.62	0.0062		
				1800	0.1080	0.32		2018	939.69	0.0120		
				1815	0.2200	0.38		2038	1291.84	0.0305		
				1830	0.2960	0.45		2046	1890.00	0.0410		
				1845	0.3718	0.54		2054	2010.00	0.0539		
				1900	0.3680	0.63		2110	2190.00	0.0817		
				1915	0.4600	0.75		2124	2320.00	0.1078		
				1930	0.5672	0.89		2136	2380.00	0.1311		
				1945	0.3035	0.97		2150	2320.00	0.1583		
				2000	0.2440	1.03		2210	2140.00	0.1952		
				2015	0.1240	1.06		2232	1930.00	0.2322		
				2030	0.1400	1.09		2252	1700.00	0.2622		
				2045	0.0320	1.10		2314	1409.00	0.2905		
				2100	0.0160	1.11		2338	1180.00	0.3162		
				2115	0.0002	1.11		2400	1024.10	0.3362		
				2230	0.0	1.11		2- 2	50	593.76	0.3696	
				2245	0.0	1.11		114	423.22	0.3797		
				2300	0.0035	1.11		124	403.12	0.3831		
								142	302.00	0.3883		
								158	222.81	0.3918		
								222	180.26	0.3958		
								238	136.78	0.3979		
								304	112.96	0.4006		
								414	72.16	0.4060		
								518	54.12	0.4093		
								730	35.38	0.4142		
								1032	22.51	0.4186		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gauges 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-32				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF FEBRUARY 1 - 4, 1968 (CONTINUED)										
							2- 2	1502	13.18	0.4226
								1946	8.42	0.4251
								2400	4.93	0.4265
							2- 3	2400	0.30	0.4296
							2- 4	2400	0.24	0.4299

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gages 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-34

LOCATION: Marshall Co., Miss.; 8 mi. S of Byhalia on County road; Pigeon Roost Creek, Yazoo River Basin.

AREA: 75000.00 acres 117.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-34															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	6.72	2.20	6.69	4.81	5.58	2.25	1.82	2.15	9.49	4.60	7.65	5.24	59.21															
	O	3.238	1.015	3.084	1.575	1.441	0.417	0.379	0.338	1.600	1.044	2.872	2.343	19.346															
STA AV	P	3.85	4.78	4.99	4.65	4.43	3.02	4.18	3.82	4.73	2.23	4.27	5.20	50.15															
	O	1.443	1.780	2.044	1.314	1.193	0.484	0.737	0.679	0.803	0.435	0.973	1.589	13.474															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		11-28	0.130	11-28	0.120	11-28	0.250	11-28	0.720	11-27	1.400	11-27	2.270	11-27	2.450	11-27	3.070
MAXIMUMS FOR PERIOD OF RECORD																	
		7- 9	0.150	7- 9	0.150	7- 9	0.290	7- 9	0.800	7- 9	1.410	11-27	2.270	12- 3	2.720	3-24	4.770
		1967		1967		1967		1967		1967		1968		1964		1965	

NOTES: Watershed conditions: About 24% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 35% in pasture and idle land, good cover April to October with fair cover remainder of year; 39% in woods, good cover; 1% in bare gullies; 1% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1965. About 18% of area, principally in upper reaches above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USOA Misc. Pub. 945, p. 62.11-4. Monthly precipitation Thiessen weighted from 32 rain gauges. Monthly values of runoff include small amounts of flow through auxiliary Station 34-A. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see 0.5. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-34													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.07	1.29	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.00	0.0	0.70		1	0.07	1.29	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.00	0.0	0.70	
2	0.02	0.0	0.0	0.70	0.0	0.0	0.84	0.01	0.33	0.0	0.0	0.0		2	0.02	0.0	0.0	0.70	0.0	0.0	0.84	0.01	0.33	0.0	0.0	0.0	
3	1.15	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.46	0.34	0.39	0.22		3	1.15	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.46	0.34	0.39	0.22	
4	0.0	0.0	0.0	0.71	0.0	0.04	0.0	0.0	0.67	0.0	0.0	0.0		4	0.0	0.0	0.0	0.71	0.0	0.04	0.0	0.0	0.67	0.0	0.0	0.0	
5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.16	1.23	0.0	0.0		5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.16	1.23	0.0	0.0	
6	0.61	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.0	1.54	0.0	0.0		6	0.61	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.0	1.54	0.0	0.0	
7	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		7	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	
8	0.20	0.0	0.0	1.12	0.10	0.0	0.07	0.0	0.0	0.0	0.0	0.0		8	0.20	0.0	0.0	1.12	0.10	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
9	2.09	0.0	0.82	0.03	0.03	0.0	0.08	0.00	0.25	0.02	0.0	0.0		9	2.09	0.0	0.82	0.03	0.03	0.0	0.08	0.00	0.25	0.02	0.0	0.0	
10	1.13	0.0	0.32	0.0	0.09	0.0	0.37	0.26	0.0	0.0	0.0	0.0		10	1.13	0.0	0.32	0.0	0.09	0.0	0.37	0.26	0.0	0.0	0.0	0.0	
11	0.0	0.0	2.54	0.0	1.00	0.03	0.02	0.0	0.0	0.0	0.12	0.0		11	0.0	0.0	2.54	0.0	1.00	0.03	0.02	0.0	0.0	0.0	0.12	0.0	
12	0.62	0.0	0.04	0.0	0.06	0.0	0.0	0.88	0.0	0.0	0.0	0.80		12	0.62	0.0	0.04	0.0	0.06	0.0	0.0	0.88	0.0	0.0	0.0	0.80	
13	0.0	0.0	0.0	0.53	0.13	0.0	0.11	0.32	0.0	0.16	0.0	0.02		13	0.0	0.0	0.0	0.53	0.13	0.0	0.11	0.32	0.0	0.16	0.0	0.02	
14	0.0	0.0	0.0	0.45	1.68	0.0	0.0	0.05	0.0	0.78	0.0	0.0		14	0.0	0.0	0.0	0.45	1.68	0.0	0.0	0.05	0.0	0.78	0.0	0.0	
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.11	1.21	0.0	0.75	0.0		15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.11	1.21	0.0	0.75	0.0	
16	0.0	0.0	0.09	0.0	0.66	0.0	0.09	0.01	3.95	0.0	0.0	0.0		16	0.0	0.0	0.09	0.0	0.66	0.0	0.09	0.01	3.95	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.92	0.01	0.0	0.10	2.31	0.53	0.09	0.0		17	0.0	0.0	0.0	0.0	0.92	0.01	0.0	0.10	2.31	0.53	0.09	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.03	0.04	0.0	0.0	0.05		18	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.03	0.04	0.0	0.0	0.05	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.04		19	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.04	
20	0.0	0.0	0.37	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		20	0.0	0.0	0.37	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.03	1.05	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.39		21	0.0	0.03	1.05	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.39	
22	0.0	0.0	1.08	0.66	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.03		22	0.0	0.0	1.08	0.66	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.03	
23	0.13	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		23	0.13	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.63	0.0		24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.63	0.0	
25	0.0	0.0	0.0	0.0	0.44	0.61	0.0	0.0	0.42	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.44	0.61	0.0	0.0	0.42	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.19	0.72	0.00	0.0	0.02	0.0	0.0	0.0		26	0.0	0.0	0.0	0.0	0.19	0.72	0.00	0.0	0.02	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	4.35	0.95		27	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	4.35	0.95	
28	0.0	0.59	0.0	0.0	0.21	0.0	0.02	0.0	0.0	0.0	0.80	0.00		28	0.0	0.59	0.0	0.0	0.21	0.0	0.02	0.0	0.0	0.0	0.80	0.00	
29	0.0	0.12	0.00	0.04	0.08	0.0	0.23	0.0	0.0	0.0	0.0	0.0		29	0.0	0.12	0.00	0.04	0.08	0.0	0.23	0.0	0.0	0.0	0.0	0.0	
30	0.28	0.05	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.52	0.04		30	0.28	0.05	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.52	0.04	
31	0.20	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		31	0.20	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.72	2.20	6.69	4.81	5.58	2.25	1.82	2.15	9.49	4.60	7.65	5.24		TOTAL	6.72	2.20	6.69	4.81	5.58	2.25	1.82	2.15	9.49	4.60	7.65	5.24	
STA AV	3.85	4.78	4.99	4.65	4.43	3.02	4.18	3.82	4.73	2.23	4.27	5.20		STA AV	3.85	4.78	4.99	4.65	4.43	3.02	4.18	3.82	4.73	2.23	4.27	5.20	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gauges 1 thru 31 and 33. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-34												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	73.0	894.1	60.6	71.1	39.1	34.5	38.5	34.5	34.5	41.7	38.0	1415.6
2	60.0	919.4	55.1	233.1	39.1	169.5	38.0	51.3	34.1	42.4	37.1	157.9
3	968.7	120.8	52.5	288.2	39.7	66.7	36.9	40.2	36.2	43.2	39.7	85.7
4	297.6	76.3	51.6	750.8	39.1	35.3	36.9	32.4	57.8	42.4	43.4	89.2
5	86.3	60.6	50.7	175.3	38.5	34.9	37.4	31.0	42.0	47.2	43.3	65.0
6	595.6	57.8	49.0	66.9	39.1	34.9	37.9	31.0	33.4	1608.9	43.2	55.5
7	150.0	53.4	48.1	54.5	41.0	34.5	39.8	30.7	32.1	108.7	43.3	50.0
8	73.4	49.9	48.1	1339.3	41.7	34.5	42.4	31.8	32.4	46.5	44.0	45.7
9	2312.4	49.9	92.1	212.7	41.7	34.5	39.6	32.1	33.1	37.4	44.8	45.7
10	3749.5	49.9	349.4	90.3	42.4	34.1	38.2	33.5	32.4	36.5	44.8	46.5
11	394.9	49.0	2137.1	64.6	148.9	34.1	39.7	34.2	32.1	36.0	44.8	47.3
12	138.8	48.1	2740.4	54.5	131.6	34.5	39.1	35.5	32.1	36.0	44.8	75.7
13	154.0	47.3	157.7	155.5	46.7	34.9	39.1	63.2	31.4	36.0	43.3	272.9
14	77.4	46.4	89.8	241.7	1341.0	34.9	38.0	32.5	30.7	374.4	41.1	76.7
15	79.1	48.1	73.5	195.1	162.4	34.5	37.4	32.2	32.9	114.1	46.6	37.2
16	86.0	49.0	67.6	51.8	575.4	35.3	38.5	31.8	2103.0	29.3	55.1	33.4
17	88.0	45.7	61.8	48.9	1050.1	36.5	38.5	44.1	836.5	84.7	42.8	51.7
18	87.0	43.2	59.8	46.5	148.3	36.5	39.8	37.5	1056.8	56.0	39.4	50.0
19	76.1	42.5	59.8	43.2	58.5	35.6	63.6	32.1	66.6	33.9	38.7	50.9
20	66.3	43.3	69.4	41.8	44.9	35.2	47.6	30.6	50.7	31.8	39.3	50.9
21	60.6	44.8	446.1	41.0	41.2	36.1	37.4	29.5	42.7	32.1	39.9	459.3
22	56.9	44.8	683.9	148.4	38.5	36.9	35.7	30.3	39.1	33.9	41.2	2417.2
23	55.1	44.0	463.2	152.6	37.4	37.4	35.3	31.1	39.1	34.2	42.7	255.5
24	54.2	43.2	783.4	65.4	36.9	37.9	35.6	31.1	39.1	34.6	63.0	94.9
25	51.6	42.5	446.3	58.7	37.4	65.7	34.9	31.4	44.4	35.8	53.9	70.6
26	48.1	42.5	214.4	55.1	56.8	74.8	34.5	31.0	52.1	37.0	46.0	62.2
27	45.6	43.2	86.1	77.9	40.8	42.5	34.5	30.3	37.0	37.5	3037.1	226.4
28	44.8	44.0	61.2	54.7	36.5	39.7	34.5	30.3	36.0	38.6	4567.1	753.9
29	44.8	54.6	50.2	42.4	35.6	39.1	34.9	31.0	36.0	41.2	206.7	113.2
30	56.5	47.5	41.0	34.9	38.5	35.6	32.8	36.5	40.6	69.4	95.4	69.8
31	70.2		60.8		34.5		35.3	34.5		38.0		57.6
MEAN	29.120	10.290	13.460	65.440	46.450	43.800	38.550	34.370	68.090	6.150	1.680	38.190
INCHES	3.238	1.015	3.084	1.575	1.441	0.417	0.379	0.338	1.600	1.044	2.872	2.343
STA AV	1.443	1.780	2.044	1.314	1.193	0.484	0.737	0.679	0.803	0.435	0.973	1.589

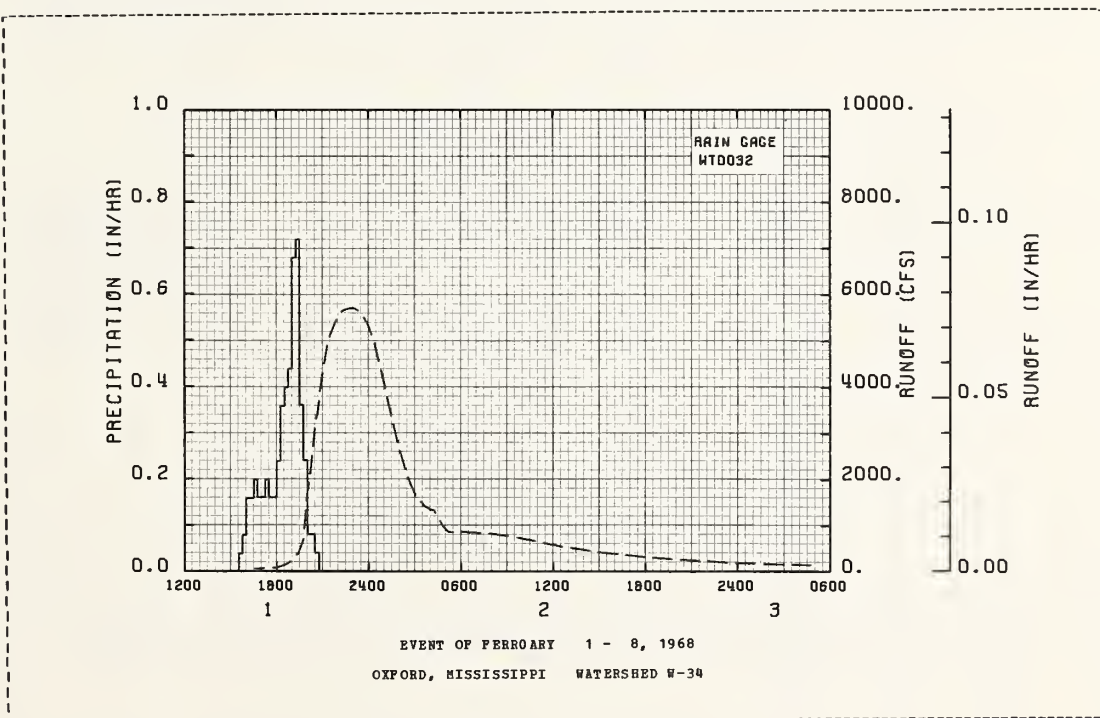
NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.00031736. Quality of records: Good, estimated to be within 10% of actual. Daily discharge values include relatively insignificant flow through auxiliary station 34-A. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-34												
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 8, 1968												
2- 1	RG WTD032 0.0	0.016	2- 1	RG WT0032 1500	0.0	0.0	2- 1	1634	72.05	0.0		
				1515	0.0030	0.00		1716	75.95	0.0007		
				1530	0.0049	0.00		1800	100.19	0.0016		
				1545	0.0350	0.01		1836	169.86	0.0027		
				1600	0.0846	0.03		1904	264.00	0.0040		
WATERSHED CONDITIONS:												
	About 24% of area in cultivation, primarily cotton, corn and soybeans, poor to fair cover provided by residue from 1967 crop; 35% in pasture and idle land, fair to good cover; 39% in woods, good cover; 1% in bare gullies; 1% urban.											
				1615	0.1447	0.07		1924	408.60	0.0055		
				1630	0.1720	0.11		1944	723.19	0.0080		
				1645	0.1880	0.16		2000	1766.00	0.0124		
				1700	0.1400	0.19		2012	1226.00	0.0175		
				1715	0.1755	0.24		2022	2669.00	0.0228		
				1730	0.1880	0.28		2030	3137.00	0.0279		
				1745	0.1751	0.33		2040	3470.00	0.0352		
				1800	0.1640	0.37		2056	4189.99	0.0487		
				1815	0.2480	0.43		2114	4799.98	0.0665		
				1830	0.3481	0.52		2130	5149.98	0.0841		
				1845	0.3838	0.61		2152	5449.98	0.1098		
				1900	0.4240	0.72		2212	5614.37	0.1342		
				1915	0.6876	0.89		2230	5691.98	0.1566		
				1930	0.7000	1.07		2246	5713.98	0.1767		
				1945	0.3672	1.16		2310	5669.99	0.2068		
				2000	0.2520	1.22		2334	5549.58	0.2365		
				2015	0.0921	1.24		2400	5299.98	0.2676		
				2030	0.0964	1.27		24	4919.98	0.2946		
				2045	0.0487	1.28	2- 2	44	4439.98	0.3152		
				2100	0.0200	1.29		106	3910.00	0.3354		
				2115	0.0040	1.29		134	3209.00	0.3574		
				2130	0.0001	1.29		158	2696.00	0.3730		
				2145	0.0001	1.29		218	2286.00	0.3840		
				2200	0.0001	1.29		244	1870.00	0.3959		
				2215	0.0004	1.29		308	1590.00	0.4051		
				2230	0.0048	1.29		338	1415.00	0.4150		
				2245	0.0073	1.29		400	1331.00	0.4217		
				2300	0.0033	1.29		414	1317.00	0.4258		
				2315	0.0003	1.29		438	1086.00	0.4322		
				2330	0.0	1.29		454	935.28	0.4358		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-34				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 8, 1968 (CONTINUED)										
			2345	0.0003	1.29	2- 2	510	847.00	0.4389	
							540	847.00	0.4445	
							554	855.00	0.4471	
							636	838.99	0.4549	
							722	822.87	0.4633	
							812	799.12	0.4722	
							904	761.20	0.4811	
							958	704.05	0.4898	
							1052	645.80	0.4978	
							1146	581.00	0.5051	
							1238	526.60	0.5114	
							1338	475.72	0.5180	
							1442	421.40	0.5243	
							1550	383.00	0.5303	
							1716	326.90	0.5370	
							1822	297.72	0.5415	
							1928	266.75	0.5456	
							2100	237.00	0.5507	
							2232	207.42	0.5552	
							2400	179.97	0.5590	
						2- 3	212	160.00	0.5639	
							502	137.00	0.5695	
							858	121.49	0.5762	
							1434	108.59	0.5847	
							2006	100.19	0.5923	
							2400	89.92	0.5972	
						2- 4	2400	62.34	0.6214	
						2- 5	2400	58.59	0.6406	
						2- 6	2400	56.77	0.6589	
						2- 7	2400	49.73	0.6758	
						2- 8	2400	49.73	0.6916	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-35

LOCATION: Marshall Co., Miss.; 0.3 mi. W of Chulahoma on State Highway No. 4; Cuffawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 7550.00 acres 11.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-35	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	6.58	1.93	6.97	4.15	5.26	3.78	2.26	1.49	9.88	5.19	7.55	5.53	60.57	
Q	3.196	0.342	3.563	0.615	0.871	0.278	0.0	0.0	1.761	0.890	2.928	2.155	16.599	
STA AV P	3.83	4.79	5.04	4.54	4.82	3.00	4.14	3.18	5.20	2.24	4.34	5.15	50.26	
Q	1.421	1.743	2.002	1.041	1.072	0.142	0.357	0.293	0.559	0.111	0.711	1.371	10.825	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
Maximum Discharge Date	Maximum Volume for Selected Time Interval											
	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.					
1968 3-11 0.710	3-11 0.680	3-11 1.230	3-11 2.080	3-11 2.450	11-27 2.890	11-27 2.920	11-27 3.430					

MAXIMUMS FOR PERIOD OF RECORD												
5-26 1963 0.880	5-26 1963 0.840	5-26 1963 1.480	2-23 1962 2.190	5-6 1967 2.710	12-3 1964 3.090	1-30 1957 3.460	3-24 1965 5.690					

NOTES: Watershed conditions: About 32% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 29% in pasture and idle land; good cover April to October with fair cover remainder of year; 38% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1971. About 22% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 62.12-5. Monthly precipitation Thiessen weighted from 5 rain gauges. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-35	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	
2	0.03	0.0	0.0	0.62	0.0	1.56	0.07	0.03	0.0	0.0	0.0	0.0	0.0	
3	1.25	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.50	0.37	0.53	0.19	0.0	
4	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.08	1.07	0.0	0.0	0.0	
6	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.77	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.21	0.0	0.0	0.79	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	2.12	0.0	0.92	0.05	0.00	0.0	0.20	0.0	0.31	0.04	0.0	0.0	0.0	
10	0.89	0.0	0.31	0.0	0.07	0.0	0.30	0.40	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	2.84	0.0	0.57	0.11	0.01	0.0	0.0	0.0	0.13	0.0	0.0	
12	0.57	0.0	0.03	0.0	0.04	0.0	0.0	0.67	0.0	0.29	0.0	0.0	0.73	
13	0.0	0.0	0.0	0.62	0.09	0.0	0.21	0.27	0.0	0.29	0.0	0.01	0.0	
14	0.0	0.0	0.0	0.16	1.62	0.0	0.0	0.02	0.0	1.15	0.0	0.0	0.0	
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.04	1.42	0.0	0.80	0.0	0.0	
16	0.0	0.0	0.13	0.0	0.78	0.0	0.02	0.0	4.17	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.0	2.72	0.50	0.11	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.01	0.0	0.0	0.0	0.05	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.04	
20	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.03	1.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.58	
22	0.0	0.0	1.10	0.50	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	1.06	
23	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.43	1.52	0.0	0.0	0.22	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.22	0.59	0.0	0.0	0.00	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	4.04	1.09	0.0	
28	0.0	0.65	0.0	0.0	0.19	0.0	0.03	0.0	0.0	0.0	0.67	0.0	0.0	
29	0.0	0.14	0.0	0.04	0.02	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.27	0.0	0.18	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.54	0.06	0.0	
31	0.21	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.58	1.93	6.97	4.15	5.26	3.78	2.26	1.49	9.88	5.19	7.55	5.53		
STA AV	3.83	4.79	5.04	4.54	4.82	3.00	4.14	3.18	5.20	2.24	4.34	5.15		

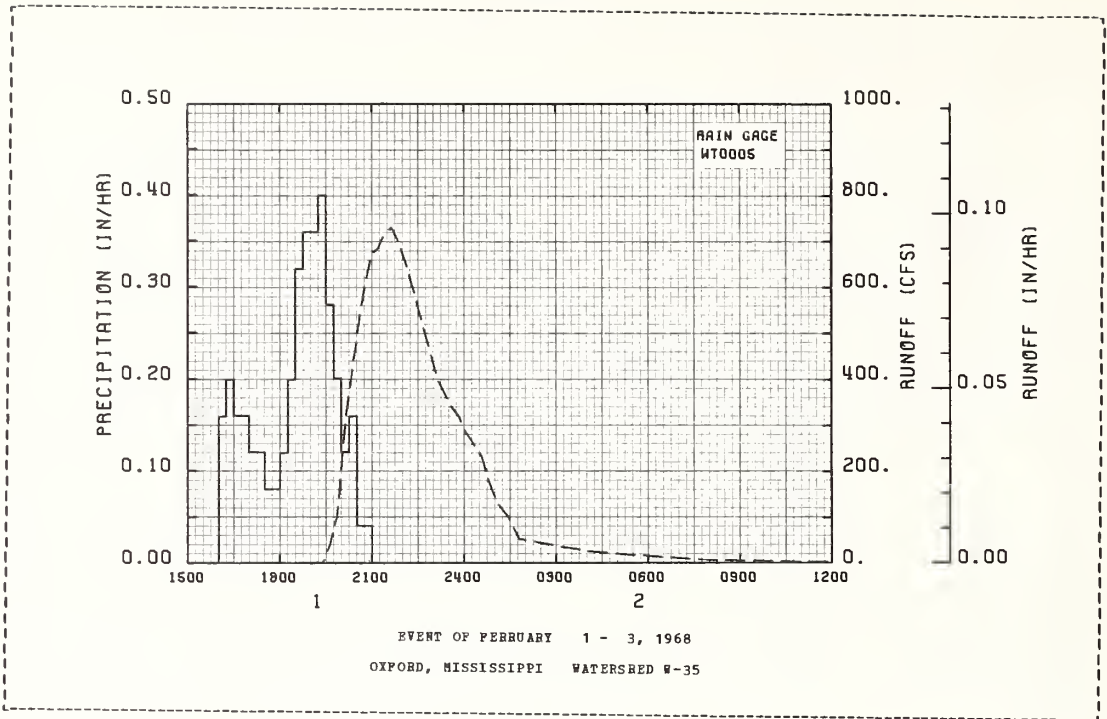
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gauges 10, 11, 20, 21 and 24. STA AV is for 12 yr (1957-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI WATERSHED W-35						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	88.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.73	
2	0.0	19.68	0.0	25.27	0.0	54.59	0.0	0.0	0.0	0.0	0.0	1.52	
3	166.28	0.01	0.0	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	
4	6.95	0.0	0.0	66.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	
5	0.0	0.0	0.0	2.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	60.52	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	204.62	0.0	0.0	
7	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	57.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	369.41	0.0	4.70	4.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	399.66	0.0	11.35	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	1.15	0.0	757.55	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	2.04	0.0	75.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	
13	0.53	0.0	2.77	29.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.30	
14	0.32	0.0	0.09	1.20	71.35	0.0	0.0	0.0	0.0	73.66	0.0	0.0	
15	0.28	0.0	0.0	0.61	0.03	0.0	0.0	0.0	0.0	0.27	0.06	0.0	
16	0.77	0.0	0.0	0.0	60.26	0.0	0.0	0.0	256.63	0.0	0.0	0.0	
17	2.00	0.0	0.0	0.0	144.15	0.0	0.0	0.0	226.52	3.73	0.0	0.0	
18	1.75	0.0	0.0	0.0	0.60	0.0	0.0	0.0	75.31	0.0	0.0	0.0	
19	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.23	0.0	28.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.04	
22	0.08	0.0	82.57	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	294.69	
23	0.0	0.0	41.16	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.08	
24	0.0	0.0	83.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.39	0.15	
25	0.0	0.0	37.49	0.0	0.0	32.10	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	3.20	0.0	0.0	1.58	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.57	0.55	0.0	0.0	0.0	0.0	0.0	0.0	670.40	83.59	
28	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	254.07	40.67	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.90	0.76	
30	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	
31	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	2.7060	3.7390	6.4620	6.5020	8.9160	2.9420	0.0	0.0	8.6160	9.1060	0.9610	2.0510	
INCHES	3.196	0.342	3.563	0.615	0.871	0.278	0.0	0.0	1.761	0.890	2.928	2.155	
STA AV	1.421	1.743	2.002	1.041	1.072	0.142	0.357	0.293	0.559	0.111	0.711	1.371	

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.0031526. Quality of records: Fair, estimated to be within 15% of actual. STA AV is for 12 yr (1957-68) record period.

1968		SELECTED RONDFF EVENT					OXFORD, MISSISSIPPI WATERSHED W-35						
ANTECEDENT CDNDITIDNS			RAINFALL				RONDFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT DP FEBROARY 1 - 3, 1968													
2- 1	EG WTD005	0.02	0.0	2- 1	EG WTD005	1600	0.0	0.0	2- 1	1912	0.0	0.0	
						1615	0.1442	0.04		1924	2.04	0.0	
						1630	0.1960	0.08		1938	42.75	0.0007	
						1645	0.1475	0.12		1952	104.68	0.0030	
						1700	0.1475	0.16		2006	288.96	0.0090	
WATERSHED CDNDITIDNS:				1715	0.1321	0.19	2022	428.28	0.0216				
About 32% of area in culti-				1730	0.1160	0.22	2038	550.00	0.0387				
vation, primarily cotton,				1745	0.0880	0.24	2048	615.00	0.0514				
corn and soybeans, poor to				1800	0.0880	0.26	2058	670.00	0.0655				
fair cover provided by resi-				1815	0.1166	0.29	2112	685.00	0.0863				
due from 1967 crop; 29% in													
pasture and idle land, fair				1830	0.1920	0.34	2122	710.00	0.1016				
to good cover; 38% in woods,				1845	0.3280	0.42	2138	730.00	0.1268				
good cover; 1% in bare				1900	0.3480	0.51	2154	690.00	0.1517				
gullies.				1915	0.3647	0.60	2212	630.00	0.1777				
				1930	0.3880	0.70	2232	545.00	0.2034				
				1945	0.2840	0.77	2254	454.36	0.2275				
				2000	0.2130	0.82	2310	393.00	0.2423				
				2015	0.1360	0.86	2336	337.00	0.2631				
				2030	0.1400	0.89	2350	316.98	0.2731				
				2045	0.0350	0.90	2400	288.96	0.2797				
				2100	0.0232	0.91	2- 2	34	231.43	0.2991			
							46	184.06	0.3046				
							56	154.69	0.3083				
							108	124.03	0.3120				
							128	95.85	0.3168				
							148	51.36	0.3200				
							226	42.75	0.3239				
							406	23.70	0.3312				
							600	13.85	0.3359				
							758	5.37	0.3384				
							1048	2.50	0.3399				
							1500	1.40	0.3410				
							2002	0.65	0.3417				
							2400	0.26	0.3419				
							2- 3	132	0.0	0.3419			

NOTES: To convert CFS to IN/HR, multiply by 0.0001314. Thiessen weighted storm rainfall, rain gages 10, 11, 20, 21 and 24. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-17A

LOCATION: Marshall Co., Miss.: 7.8 mi. SW of Rolly Springs on County road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 3200.00 acres 5.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-17A	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	6.55	2.26	6.24	5.03	4.95	1.27	2.25	2.89	10.15	4.04	7.38	4.93	57.93
	O	1.898	0.599	2.230	0.951	0.520	0.0	0.003	0.001	1.148	0.471	3.501	1.020	12.342
STA AV	P	3.50	4.45	5.04	4.67	4.08	2.57	4.57	4.41	4.30	2.10	3.53	5.18	48.38
	O	0.736	1.245	1.530	0.741	0.602	0.055	0.373	0.382	0.468	0.088	0.382	0.865	7.467

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	3-11	0.300	3-11	0.290	3-11	0.580	11-27	1.540	11-27	2.500	11-27	3.440	11-27	3.480	11-27	3.800

MAXIMUMS FOR PERIOD OF RECORD																
	7-9 1967	0.490	7-9 1967	0.490	7-9 1967	0.960	7-9 1967	2.570	7-9 1967	3.510	7-9 1967	3.650	7-9 1967	3.660	2-23 1962	4.150

NOTES: Watershed conditions: About 13% of area in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 18% in pasture and idle land, good cover April to October with fair cover remainder of year; 68% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories and are based on the latest survey completed in 1970. About 46% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from rain gages 2, 17, 22 and 28. Precipitation and runoff records began Jan. 1957; but station averages were computed starting with 1958. Maximum discharges and volumes were not computed prior to 1961; poor records 1958-60. For long-time precipitation records, see U.S. Weather Bureau Station records at Rolly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-17A	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69		
2	0.02	0.0	0.0	0.70	0.0	0.24	0.0	0.51	0.0	0.0	0.0	0.0		
3	1.09	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.42	0.20	0.27	0.27		
4	0.0	0.0	0.0	0.72	0.0	0.01	0.0	0.0	1.03	0.0	0.0	0.0		
5	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.26	1.41	0.0	0.0		
6	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.17	0.0	0.0	1.38	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
9	2.00	0.0	0.74	0.02	0.05	0.0	0.0	0.0	0.23	0.04	0.0	0.0		
10	1.24	0.0	0.28	0.0	0.09	0.0	0.43	0.53	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.33	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
12	0.66	0.0	0.03	0.0	0.07	0.0	0.0	0.89	0.0	0.0	0.0	0.82		
13	0.0	0.0	0.0	0.50	0.08	0.0	0.0	0.29	0.0	0.00	0.0	0.0		
14	0.0	0.0	0.0	0.46	1.66	0.0	0.0	0.11	0.0	0.46	0.0	0.0		
15	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.23	1.02	0.0	0.68	0.0		
16	0.0	0.0	0.07	0.0	0.78	0.0	0.0	0.0	3.58	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.72	0.02	0.0	0.27	2.59	0.54	0.13	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.02	0.03	0.0	0.0	0.04		
19	0.0	0.0	0.0	0.0	0.0	0.0	1.41	0.0	0.0	0.0	0.0	0.03		
20	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.01	0.99	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27		
22	0.0	0.0	1.07	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98		
23	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0		
25	0.0	0.0	0.0	0.0	0.35	0.29	0.0	0.0	0.97	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.08	0.71	0.0	0.0	0.03	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	4.28	0.81		
28	0.0	0.46	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.81	0.0		
29	0.0	0.13	0.0	0.04	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
30	0.27	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.49	0.03		
31	0.22	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.55	2.26	6.24	5.03	4.95	1.27	2.25	2.89	10.15	4.04	7.38	4.93		
STA AV	3.50	4.45	5.04	4.67	4.08	2.57	4.57	4.41	4.30	2.10	3.53	5.18		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 2, 17, 22 and 28. STA AV is for 11 yr (1958-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)						OXFORD, MISSISSIPPI WATERSHED W-17A					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.05	66.83	0.07	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.07	39.56	
2	0.0	11.41	0.07	2.53	0.0	0.0	0.0	0.10	0.0	0.0	0.09	1.87	
3	13.87	0.12	0.08	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.26	
4	0.09	0.12	0.04	32.56	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.23	
5	0.08	0.14	0.0	3.55	0.0	0.0	0.0	0.0	0.0	0.04	0.07	0.17	
6	3.47	0.14	0.0	0.09	0.0	0.0	0.0	0.0	0.0	61.84	0.08	0.11	
7	0.10	0.06	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.36	0.08	0.10	
8	0.04	0.04	0.03	67.88	0.0	0.0	0.0	0.0	0.0	0.04	0.08	0.09	
9	84.31	0.08	0.08	0.89	0.0	0.0	0.0	0.0	0.0	0.03	0.08	0.09	
10	140.93	0.08	0.23	0.08	0.0	0.0	0.0	0.0	0.0	0.03	0.08	0.09	
11	8.60	0.08	211.94	0.07	0.05	0.0	0.0	0.0	0.0	0.03	0.08	0.09	
12	0.66	0.08	44.06	0.07	0.07	0.0	0.0	0.07	0.0	0.03	0.08	0.19	
13	0.35	0.08	2.39	3.24	0.08	0.0	0.0	0.0	0.0	0.03	0.08	0.58	
14	0.26	0.08	0.91	8.76	30.76	0.0	0.0	0.0	0.0	0.03	0.08	0.12	
15	0.23	0.07	0.84	2.28	1.03	0.0	0.0	0.0	0.05	0.0	0.08	0.11	
16	0.26	0.07	0.50	0.41	20.37	0.0	0.0	0.0	68.83	0.0	0.08	0.09	
17	0.26	0.08	0.23	0.24	16.35	0.0	0.0	0.02	39.24	0.0	0.08	0.09	
18	0.20	0.08	0.17	0.20	0.57	0.0	0.00	0.0	46.08	0.03	0.08	0.09	
19	0.16	0.08	0.13	0.23	0.08	0.0	0.33	0.0	0.09	0.03	0.08	0.09	
20	0.13	0.08	0.13	0.23	0.08	0.0	0.02	0.0	0.07	0.03	0.08	0.08	
21	0.12	0.08	5.29	0.17	0.08	0.0	0.0	0.0	0.03	0.06	0.08	5.51	
22	0.11	0.08	7.01	3.30	0.08	0.0	0.0	0.0	0.0	0.07	0.08	69.74	
23	0.11	0.07	2.97	0.16	0.08	0.0	0.0	0.0	0.0	0.08	0.08	7.26	
24	0.10	0.07	10.93	0.06	0.08	0.0	0.0	0.0	0.0	0.04	0.08	1.09	
25	0.09	0.08	9.13	0.0	0.08	0.0	0.0	0.0	0.0	0.04	0.08	0.84	
26	0.09	0.08	1.65	0.0	0.08	0.0	0.0	0.0	0.0	0.08	0.08	0.58	
27	0.09	0.08	0.53	0.07	0.04	0.0	0.0	0.0	0.0	0.08	297.83	4.97	
28	0.09	0.08	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.08	169.98	2.82	
29	0.09	0.08	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.32	0.10	
30	0.09	0.08	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.57	0.08	
31	0.09	0.08	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.08	0.03	
MEAN	8.2300	2.7750	9.6720	4.2610	2.2570	0.0	0.0110	0.0060	5.1470	2.0420	5.6900	4.4220	
INCHES	1.898	0.599	2.230	0.951	0.520	0.0	0.003	0.001	1.148	0.471	3.501	1.020	
STA AV	0.736	1.245	1.530	0.741	0.602	0.055	0.373	0.382	0.468	0.088	0.382	0.865	

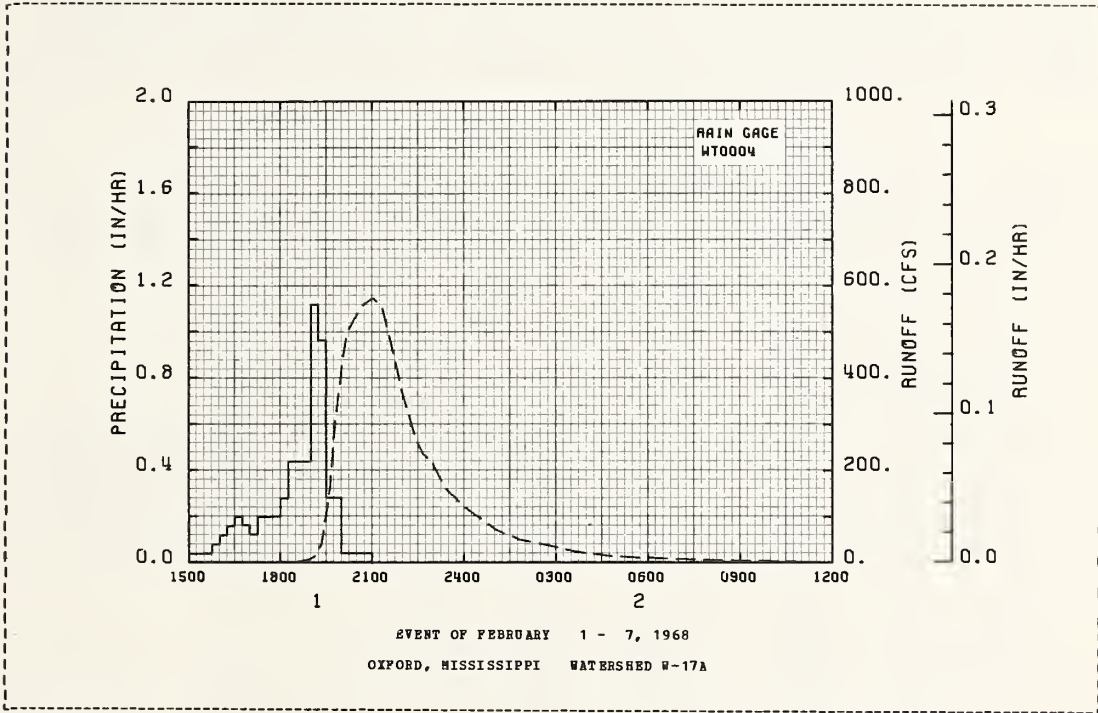
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0074380. Quality of records: Poor, estimated to be within 20% of actual. STA AV is for 11 yr (1958-68) record period.

1968			SELECTED RONOFP EVENT						OXFORD, MISSISSIPPI WATERSHED W-17A					
ANTECEDENT CONDITIONS			RAINFALL			RONOFP								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF FEBRUARY 1 - 7, 1968														
2- 1	RG WTD004 0.0	0.001	2- 1	RG WT0004	0.0	0.0	2- 1	1610	0.09	0.0				
				1515	0.0320	0.01		1720	0.09	0.0				
				1530	0.0320	0.02		1806	0.17	0.0				
				1545	0.0320	0.02		1826	0.63	0.0				
				1600	0.0596	0.04		1836	2.65	0.0001				
				1615	0.1233	0.07		1856	7.60	0.0006				
				1630	0.1400	0.10		1910	16.29	0.0015				
				1645	0.1840	0.15		1920	38.98	0.0029				
				1700	0.1760	0.19		1932	118.90	0.0078				
				1715	0.1240	0.23		1938	168.83	0.0123				
				1730	0.1960	0.27		1946	288.00	0.0217				
				1745	0.2155	0.33		2000	420.00	0.0473				
				1800	0.2155	0.38		2010	496.00	0.0709				
				1815	0.2760	0.45		2026	530.00	0.1133				
				1830	0.4480	0.56		2042	558.00	0.1583				
				1845	0.4440	0.67		2100	574.00	0.2109				
				1900	0.4400	0.78		2120	552.00	0.2690				
				1915	1.1040	1.06		2140	462.00	0.3214				
				1930	0.9405	1.30		2200	364.00	0.3641				
				1945	0.2956	1.37		2226	266.00	0.4064				
				2000	0.2956	1.44		2240	234.00	0.4245				
				2015	0.0569	1.46		2258	215.85	0.4454				
				2030	0.0569	1.47		2324	158.69	0.4706				
				2045	0.0485	1.48		2400	120.44	0.4966				
				2100	0.0480	1.50	2- 2	22	102.03	0.5092				
				2115	0.0168	1.50		44	85.00	0.5198				
								102	69.63	0.5270				
								148	48.94	0.5411				
								242	36.95	0.5531				
								332	23.72	0.5609				
								452	12.50	0.5684				
								758	4.82	0.5767				
								1104	1.47	0.5797				
								1706	0.10	0.5812				
								2100	0.09	0.5813				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0003099. Thiessen weighted storm rainfall, rain gauges 2, 17, 22 and 28. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-17A			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 7, 1968 (CONTINUED)										
							2- 2	2400	0.12	0.5814
							2- 3	2400	0.12	0.5823
							2- 4	2400	0.12	0.5832
							2- 5	2400	0.17	0.5843
							2- 6	2400	0.12	0.5854
							2- 7	2400	0.0	0.5858

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0003099. Thiessen weighted storm rainfall, rain gages 2, 17, 22 and 28. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-35A

LOCATION: Marshall Co., Miss.; 0.3 mi. W of Chulahoma on State Highway No. 4; Cuffawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1090.00 acres 1.70 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-35A	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	6.63	2.06	6.69	4.14	5.46	3.17	2.58	1.60	9.43	4.88	7.59	5.66	59.90
	O	6.492	0.764	4.450	1.359	1.567	0.187	0.004	0.001	2.029	0.894	3.967	2.883	24.597
STA AV	P	3.48	4.60	5.19	4.32	4.46	2.67	4.37	3.30	4.69	2.10	3.89	5.19	48.26
	O	1.517	1.797	2.395	1.060	1.124	0.135	0.537	0.455	0.530	0.127	0.652	1.580	11.909

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days	
		Rate	Vol.	Rate	Vol.	Rate	Vol.	Rate	Vol.	Rate	Vol.	Rate	Vol.
1968	11-27	0.800	0.770	1.400	2.210	2.930	3.710	3.800	3.800	3.800	3.800	3.800	4.540
MAXIMUMS FOR PERIOD OF RECORD													
	7-9 1967	1.300	1.270	2.390	3.240	3.280	3.710	3.800	3.800	3.800	3.800	3.800	5.120
	1967	1967	1967	1967	1967	1967	1968	1968	1968	1968	1968	1965	

NOTES: Watershed conditions: About 24% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 45% in pasture and idle land, good cover April to October with fair cover remainder of year; 30% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1971. About 8% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.12-5. Monthly precipitation Thiessen weighted from rain gages 3, 11, 24 and 26. Precipitation and runoff records began Jan. 1957; but station averages were computed starting with 1958. Maximum discharges and volumes were not computed prior to 1961; but records 1957-60. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-35A	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.08	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.75	
2	0.04	0.0	0.0	0.59	0.0	1.30	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
3	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.43	0.49	0.18	0.18	
4	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	
5	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.10	1.09	0.0	0.0	0.0	
6	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.71	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.22	0.0	0.0	0.84	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	2.07	0.0	0.95	0.04	0.00	0.0	0.18	0.0	0.32	0.04	0.0	0.0	0.0	
10	0.92	0.0	0.33	0.0	0.09	0.0	0.40	0.25	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	2.73	0.0	0.64	0.11	0.0	0.0	0.0	0.0	0.13	0.0	0.0	
12	0.62	0.0	0.02	0.0	0.04	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.76	
13	0.0	0.0	0.0	0.67	0.06	0.0	0.47	0.21	0.0	0.02	0.0	0.0	0.00	
14	0.0	0.0	0.0	0.21	1.82	0.0	0.0	0.04	0.0	1.03	0.0	0.0	0.0	
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.05	1.33	0.0	0.77	0.0	0.0	
16	0.0	0.0	0.12	0.0	0.70	0.0	0.07	0.0	4.19	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	1.18	0.0	0.0	0.0	2.21	0.57	0.08	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.02	0.0	0.0	0.0	0.04	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.04	
20	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.03	0.97	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.59	
22	0.0	0.0	1.04	0.52	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.18	
23	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.52	1.06	0.0	0.0	0.21	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.16	0.70	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	4.15	1.06	0.0	
28	0.0	0.64	0.0	0.0	0.19	0.0	0.05	0.0	0.0	0.0	0.77	0.0	0.0	
29	0.0	0.13	0.0	0.05	0.02	0.0	0.82	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.26	0.08	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.55	0.05	0.0	
31	0.19	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	6.63	2.06	6.69	4.14	5.46	3.17	2.58	1.60	9.43	4.88	7.59	5.66	59.90	
STA AV	3.48	4.60	5.19	4.32	4.46	2.67	4.37	3.30	4.69	2.10	3.89	5.19	48.26	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 3, 11, 24 and 26. STA AV is for 11 yr (1958-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI WATERSHED W-35A					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.49	23.22	1.02	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.39
2	1.37	5.45	0.45	5.04	0.0	7.79	0.0	0.0	0.0	0.0	0.0	2.00
3	26.73	1.38	0.0	3.08	0.0	0.38	0.0	0.0	0.0	0.0	0.0	1.42
4	6.66	0.81	0.0	9.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.15
5	3.28	0.81	0.0	2.38	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.61
6	36.65	0.63	0.0	1.37	0.0	0.0	0.0	0.0	0.0	35.28	0.0	0.29
7	12.12	0.17	0.0	0.92	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.04
8	15.68	0.0	0.0	13.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	74.48	0.0	4.64	2.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	86.46	0.0	8.53	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	4.67	0.0	123.06	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3.14	0.0	7.35	0.70	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.40
13	3.09	0.0	1.99	6.82	0.0	0.0	0.15	0.05	0.0	0.0	0.0	4.80
14	3.20	0.0	1.14	3.77	22.42	0.0	0.01	0.0	0.0	2.14	0.0	0.72
15	2.49	0.0	0.81	2.24	1.86	0.0	0.0	0.0	0.0	0.31	0.39	0.05
16	2.69	0.0	0.70	1.14	10.39	0.0	0.0	0.0	62.46	0.0	0.31	0.06
17	2.49	0.0	0.52	0.91	36.02	0.0	0.0	0.0	20.31	2.26	0.0	0.0
18	1.98	0.0	0.21	0.63	1.05	0.0	0.0	0.0	10.16	0.59	0.0	0.0
19	1.61	0.0	0.04	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1.49	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.26	0.0	8.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.32
22	0.91	0.0	11.46	1.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.77
23	0.91	0.0	6.43	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.38
24	0.71	0.0	13.43	0.10	0.0	0.0	0.0	0.0	0.0	0.0	3.17	1.73
25	0.25	0.0	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	1.37
26	0.0	0.0	2.70	0.0	0.02	0.41	0.0	0.0	0.0	0.0	0.0	1.03
27	0.0	0.0	1.14	1.98	0.0	0.0	0.0	0.0	0.0	0.0	132.65	12.64
28	0.0	0.90	0.91	0.45	0.0	0.0	0.0	0.0	0.0	0.0	40.58	7.27
29	0.0	1.62	0.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.12	1.73
30	0.35	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.63	1.14
31	1.15	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71
MEAN	9.5900	1.2060	6.5740	2.0740	2.3150	0.2860	0.0050	0.0020	3.0980	1.3200	6.0550	4.2590
INCHES	6.492	0.764	4.450	1.359	1.567	0.187	0.004	0.001	2.029	0.894	3.967	2.883
STA AV	1.517	1.797	2.395	1.060	1.124	0.135	0.537	0.455	0.530	0.127	0.652	1.580

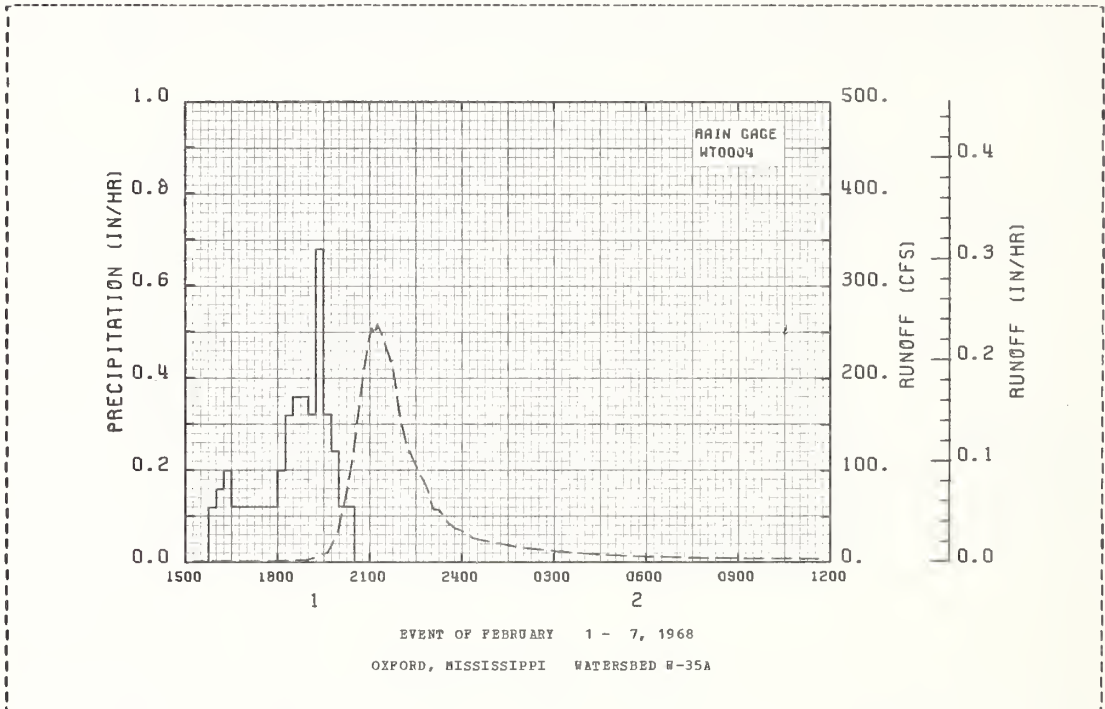
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0218365. Quality of records: Fair, estimated to be within 15% of actual. STA AV is for 11 yr (1958-68) record period.

1968		SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI WATERSHED W-35A					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 7, 1968												
RG WTD004			RG WTD004									
2- 1	0.0	0.021	2- 1	1545	0.0	0.0	2- 1	1518	1.37	0.0		
				1600	0.1247	0.03		1734	1.61	0.0031		
				1615	0.1440	0.07		1830	2.10	0.0047		
				1630	0.1880	0.11		1856	3.15	0.0057		
				1645	0.1280	0.15		1918	6.43	0.0073		
WATERSHED CONDITIONS:				1700	0.1280	0.18		1938	11.32	0.0100		
About 24% of area in culti-				1715	0.1280	0.21		1958	33.32	0.0168		
vation, primarily cotton				1730	0.1280	0.24		2016	79.52	0.0322		
and corn, poor to fair cover				1745	0.1158	0.27		2026	111.44	0.0467		
provided by residue from				1800	0.1157	0.30		2038	164.47	0.0718		
1967 crop; 45% in pasture				1815	0.1921	0.35		2048	204.99	0.0998		
and idle land, fair to good				1830	0.3234	0.43		2056	235.33	0.1265		
cover; 30% in woods, good				1845	0.3760	0.52		2104	254.27	0.1562		
cover; 1% in bare gullies.				1900	0.3760	0.62		2110	245.89	0.1789		
				1915	0.3120	0.69		2114	258.44	0.1942		
				1930	0.6840	0.87		2126	243.78	0.2399		
				1945	0.3280	0.95		2146	208.99	0.3086		
				2000	0.2318	1.01		2158	162.75	0.3424		
				2015	0.1360	1.04		2212	126.37	0.3731		
				2030	0.1360	1.07		2232	102.55	0.4078		
				2045	0.0195	1.08		2244	88.65	0.4252		
				2100	0.0080	1.08		2252	80.79	0.4355		
								2304	57.19	0.4481		
								2316	56.12	0.4584		
								2334	42.12	0.4718		
								2346	36.72	0.4790		
								2400	33.32	0.4864		
							2- 2	22	25.52	0.4962		
								110	20.00	0.5128		
								158	15.13	0.5256		
								330	9.83	0.5430		
								522	6.43	0.5568		
								800	4.03	0.5693		
								1220	2.87	0.5829		
								1820	1.85	0.5958		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0009099. Thiessen weighted storm rainfall, rain gages 3, 11, 24 and 26. For 30-day antecedent P and O, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-35A				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 7, 1968 (CONTINUED)										
							2- 2	2128	1.85	0.6011
							2- 3	2400	1.85	0.6054
							2- 4	2400	0.91	0.6356
							2- 5	2400	0.70	0.6532
							2- 6	2400	0.91	0.6708
							2- 6	2400	0.34	0.6845
							2- 7	2400	0.0	0.6882

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0009099. Thiessen weighted storm rainfall, rain gages 3, 11, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.



TOMBSTONE, ARIZONA WATERSHED W-1

LOCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 36900.00 acres 57.66 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-1														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	0.63	1.38	1.33	0.32	0.0	0.02	3.40	4.71	0.47	0.01	0.41	0.60	13.28														
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.059	0.0	0.0	0.0	0.0	0.059														
STA AV	P	0.63	1.38	1.33	0.32	0.00	0.02	3.40	4.71	0.47	0.01	0.41	0.60	13.28														
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.054	0.005	0.0	0.0	0.0	0.079														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
	Date	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
		1968	8-25	0.021	8-25	0.014	8-25	0.023	8-25	0.033	8-25	0.033	8-24	0.033	8-23	0.033	8-23

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
7-22	0.130	7-22	0.080	9- 9	0.130	9- 9	0.160	9- 9	0.190	9- 9	0.190	9- 8	0.230	9- 8	0.310
1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964

NOTES: Watershed Conditions: 65% of area in desert shrubs (whitethorn, creosotebush and tarbush) with 25% cover and 2% grass cover. 35% is grassland with approximately 20% grass cover (crown spread) and 5% shrub cover. For topography, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation data: Records began January 1954. Monthly totals are Thiessen weighted averages of 98 gauges. Station averages are based on 1 yr only, previously published data are being reevaluated. Runoff data: Records began April 1964. Station averages are for 1966 and 1968. Data for 1964-65 and 1967 are not available for STA AV computations. These data are being reevaluated. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY AIR TEMPERATURE (degrees F)														TOMBSTONE, ARIZONA WATERSHED W-1													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	56	30	61	31	64	43	76	48	83	54	93	58	96	64	84	65	81	57	89	58	75	54	54	34			
2	62	38	62	35	65	45	69	45	80	51	100	63	96	69	90	61	88	60	81	59	72	46	50	35			
3	59	40	66	37	62	42	59	38	80	52	98	66	89	60	90	61	85	61	80	59	77	47	53	27			
4	55	32	62	37	60	36	69	38	81	50	94	64	78	64	83	60	88	61	79	57	74	50	62	34			
5	55	30	67	37	67	39	76	42	82	54	88	64	84	62	90	62	93	61	82	47	71	75	70	41			
6	57	30	66	43	64	46	68	48	78	48	82	59	82	60	86	62	90	64	84	53	69	43	68	40			
7	44	40	64	43	64	46	72	38	82	47	80	60	88	64	91	62	91	61	84	56	74	43	64	42			
8	46	33	66	48	59	45	76	42	83	50	78	56	92	64	91	63	96	64	83	57	64	40	61	34			
9	53	33	48	48	53	41	73	45	78	56	77	52	96	67	90	64	94	64	83	56	71	40	62	44			
10	52	40	54	45	48	33	73	48	78	48	85	49	98	70	83	60	91	64	85	55	74	43	67	46			
11	58	34	61	45	52	35	73	47	78	53	93	56	98	68	91	62	86	62	84	55	74	48	68	46			
12	53	34	54	43	56	32	67	45	75	52	98	60	96	66	93	63	84	62	86	56	77	52	58	34			
13	58	35	57	42	68	37	74	46	79	41	90	66	95	68	88	64	87	60	89	60	65	51	60	34			
14	66	34	57	40	66	44	79	47	80	51	98	61	94	66	88	63	82	62	89	62	49	43	62	37			
15	68	43	60	37	67	36	79	52	84	47	97	62	95	66	92	58	82	60	78	59	53	39	71	43			
16	67	41	65	40	68	50	70	48	82	51	100	60	98	65	91	63	82	59	77	44	59	43	69	43			
17	57	42	64	41	60	49	73	47	82	48	105	67	96	68	90	65	85	56	78	46	61	44	60	37			
18	52	30	62	37	58	38	69	46	86	50	105	70	96	65	91	60	88	59	84	54	67	40	47	23			
19	53	30	70	39	50	35	67	30	91	53	105	70	91	65	93	62	88	60	83	53	72	43	58	28			
20	54	32	70	43	52	30	72	40	94	58	104	72	93	64	71	60	84	61	82	56	68	47	50	36			
21	60	34	72	43	54	29	67	41	92	58	106	69	91	63	86	59	86	60	80	49	73	45	36	20			
22	62	38	64	45	64	34	61	41	86	63	104	70	93	64	88	60	86	61	83	48	70	42	42	16			
23	58	39	70	38	74	43	62	32	84	51	102	70	91	63	89	58	86	55	84	49	74	42	67	26			
24	65	34	78	42	74	42	66	37	84	55	94	69	92	65	90	61	87	55	83	55	75	49	63	37			
25	66	41	76	45	77	47	76	41	87	50	97	64	87	65	85	61	88	62	87	53	66	52	65	44			
26	52	44	79	49	79	46	78	45	91	56	100	65	86	62	88	59	87	62	86	54	51	29	53	44			
27	59	43	74	49	77	50	79	47	97	57	99	68	88	64	90	62	88	58	84	49	54	33	42	27			
28	58	46	68	48	80	48	84	48	98	61	98	62	80	62	91	66	86	58	88	56	53	30	56	29			
29	61	42	63	42	79	48	77	52	96	63	94	68	91	63	84	62	84	58	87	55	45	35	56	30			
30	66	40			76	56	85	50	93	63	95	64	88	65	84	61	88	62	88	57	52	29	57	27			
31	58	43			69	48			90	54			0	0	79	60			78	50			60	34			
AV.	57	37	60	39	64	41	70	42	85	53	92	61	88	62	87	61	84	58	83	54	63	42	58	34			
MEAN	47.4		49.9		53.3		56.2		69.1		76.9		75.5		74.7		71.3		68.8		53.2		46.7				
STA AV	58	35	59	35	67	41	74	45	84	53	90	61	91	66	89	65	84	60	80	53	67	44	58	36			

NOTES: STA AV values are based on 5 yr (1964-1968) record period.

1968 DAILY PRECIPITATION (inches)												
TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.17E	0.00	0.0	0.0	0.0
2	0.0	0.0	0.06	0.03	0.0	0.0	0.60E	0.14E	0.08	0.00	0.0	0.0
3	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.24E	0.18	0.00	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.08P	0.04E	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.73E	0.28	0.0	0.0	0.0	0.0
6	0.0	0.0	0.02	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0
7	0.35M	0.0	0.04E	0.0	0.0	0.0	0.00	0.21E	0.0	0.0	0.0	0.0
8	0.11M	0.0	0.06E	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
9	0.0	0.41E	0.52M	0.19E	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0
10	0.07S	0.30E	0.61M	0.06E	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
11	0.0	0.08E	0.00	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
12	0.0	0.29E	0.0	0.01	0.0	0.0	0.0	0.10	0.00	0.0	0.0	0.0
13	0.0	0.28E	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.07E	0.0
14	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.00	0.22E	0.0	0.34E	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.37E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.00	0.0	0.0	0.02	0.00	0.23E	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.46E	1.10E	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.07M
22	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.81E	0.0	0.0	0.0	0.0
26	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.40E
27	0.01	0.01	0.0	0.00	0.0	0.0	0.37E	0.0	0.0	0.0	0.0	0.13E
28	0.08E	0.0	0.0	0.0	0.0	0.0	0.09E	0.09E	0.0	0.0	0.0	0.0
29	0.00	0.0	0.0	0.02	0.0	0.0	0.11	0.30	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.16E	0.0	0.00	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.66E	0.0	0.0	0.0	0.0
TOTAL	0.63	1.38	1.33	0.32	0.0	0.02	3.40	4.71	0.47	0.01	0.41	0.60
STA AV	0.63	1.38	1.33	0.32	0.00	0.02	3.40	4.71	0.47	0.01	0.41	0.60

NOTES: Data are Thiessen weighted averages of values from 98 gauges. STA AV are for 1968 only. Data for previous years are being reevaluated.

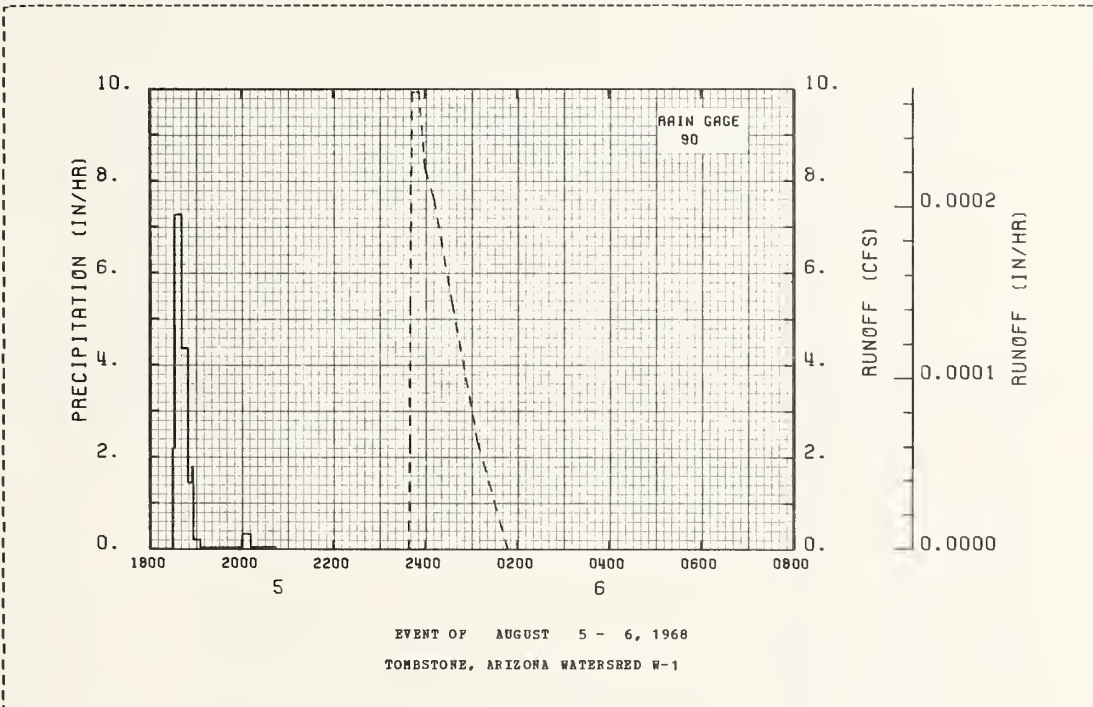
1968 MEAN DAILY DISCHARGE (cfs)												
TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.474E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.128E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.291E	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042E	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.107E	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.629E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.702E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0187	2.9288	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.059	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.054	0.005	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV values based on 1966 and 1968 data, other data are being reevaluated.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 5 - 6, 1968											
8-5	BG 90 0.0	0.0	8-5	BG 90 1830	0.0	0.0	8-5	2339	0.0	0.0	
				1833	2.2005	0.11		2340	2.310	0.0	
				1842	7.2662	1.20		2341	5.300	0.0	
				1850	4.3501	1.78		2343	9.930	0.0	
				1855	1.4401	1.90		2352	9.930	0.0	
				1857	1.7996	1.96		2400	8.260	0.0	
				1906	0.2000	1.99	8-6	12	7.580	0.0	
				2001	0.0327	2.02		36	5.300	0.0001	
				2012	0.3273	2.08		109	2.310	0.0002	
				2045	0.0364	2.10		148	0.0	0.0002	

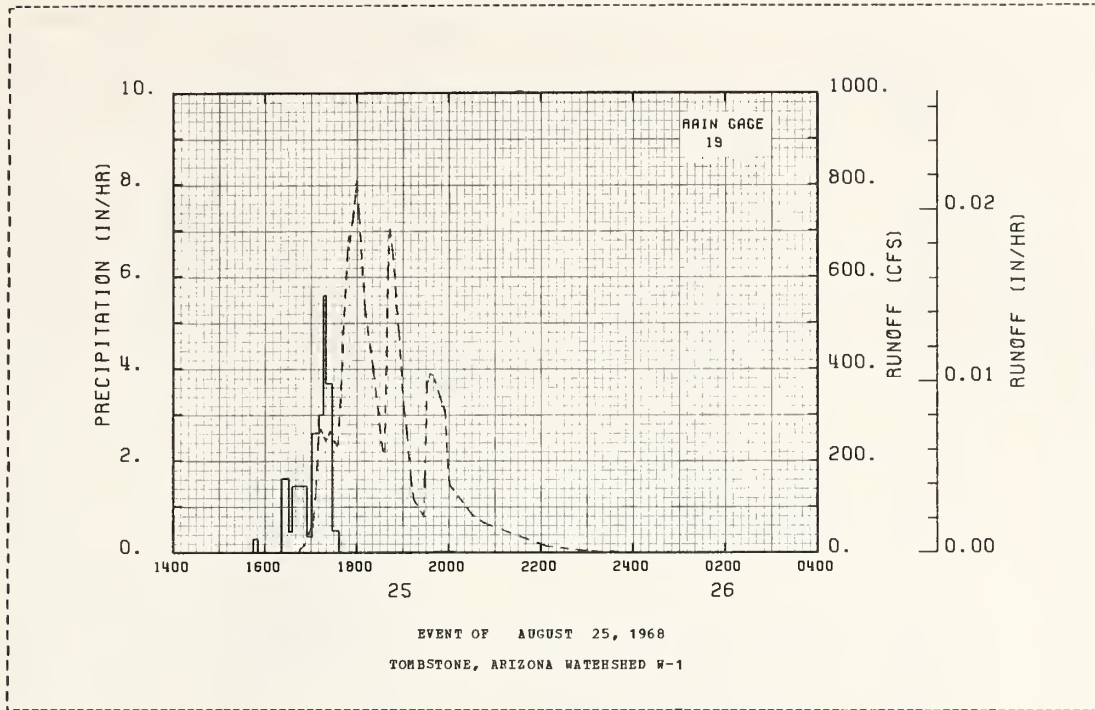
WATERSHED CONDITIONS:
 65% of area in desert shrubs (Whitethorn, creosotebush and tarbush) with 23% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.



1968			SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968											
8-25	RG 19 0.0	0.0	8-25	RG 19 1545	0.0	0.0	8-25	1645	0.0	0.0	
				1551	0.3000	0.03		1647	8.600	0.0	
				1622	0.0	0.03		1652	16.290	0.0	
				1632	1.6200	0.30		1700	53.260	0.0001	
				1636	0.4500	0.33		1703	56.880	0.0002	
WATERSHED CONDITIONS:				1655	1.4526	0.79	1704	77.000	0.0002		
65% of area in desert shrubs (Whitethorn, creosotebush and tarbush) with 23% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.				1702	0.3429	0.83	1707	134.000	0.0003		
				1711	2.6001	1.22	1710	246.980	0.0006		
				1717	2.9998	1.52	1713	269.240	0.0010		
				1720	5.5997	1.80	1720	241.600	0.0018		
				1728	3.6751	2.29	1725	263.560	0.0024		
				1737	0.4667	2.36	1734	231.070	0.0034		
				1941	0.0048	2.37	1736	236.300	0.0036		
				2009	0.0214	2.38	1748	653.480	0.0060		
							1749	687.580	0.0064		
							1751	673.720	0.0070		
							1755	730.000	0.0083		
							1758	774.820	0.0093		
							1759	787.840	0.0096		
							1800	807.530	0.0100		
							1803	730.000	0.0110		
							1811	529.490	0.0132		
							1822	395.850	0.0155		
							1834	220.630	0.0172		
							1837	220.630	0.0175		
							1841	615.000	0.0182		
							1843	701.580	0.0188		
							1847	653.480	0.0200		
							1855	477.690	0.0220		
							1902	308.660	0.0232		
							1906	260.000	0.0237		
							1911	158.000	0.0242		
							1915	114.260	0.0245		
							1928	77.000	0.0251		
							1929	158.000	0.0251		
							1932	367.360	0.0255		
							1936	390.060	0.0262		
							1940	384.320	0.0269		
							1949	334.670	0.0284		
							1955	308.660	0.0292		
							2001	147.400	0.0298		
							2030	82.980	0.0313		
							2047	62.750	0.0319		
							2207	12.930	0.0333		
							2255	3.170	0.0335		
							2313	1.510	0.0335		
							2340	0.0	0.0335		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.

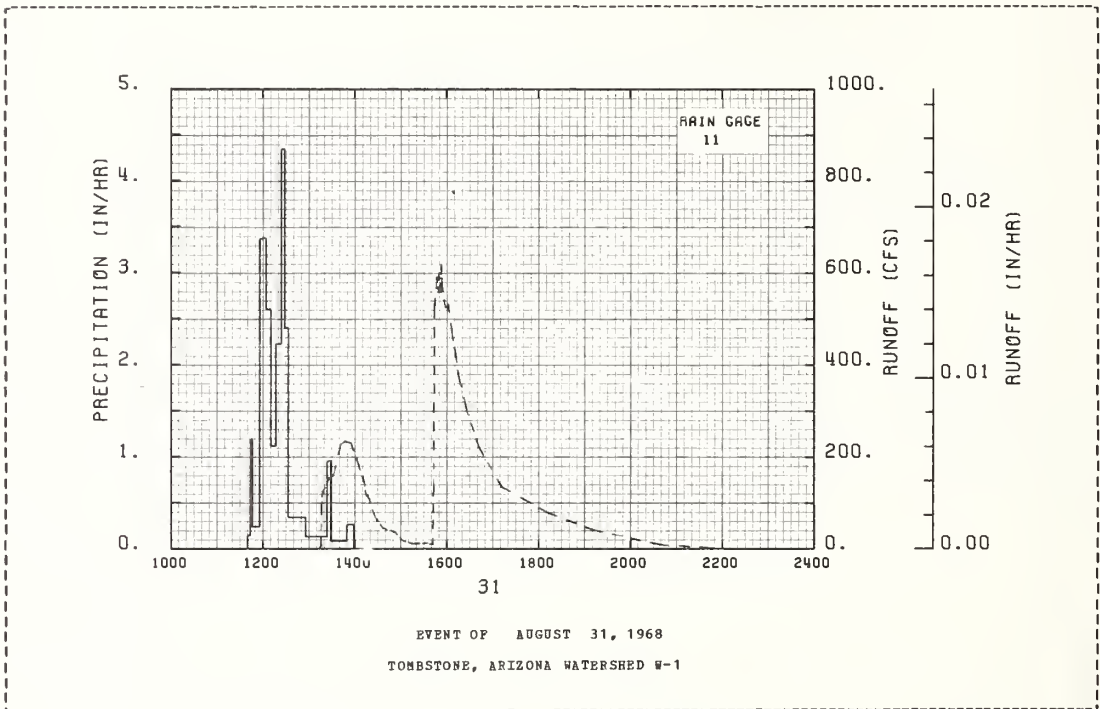


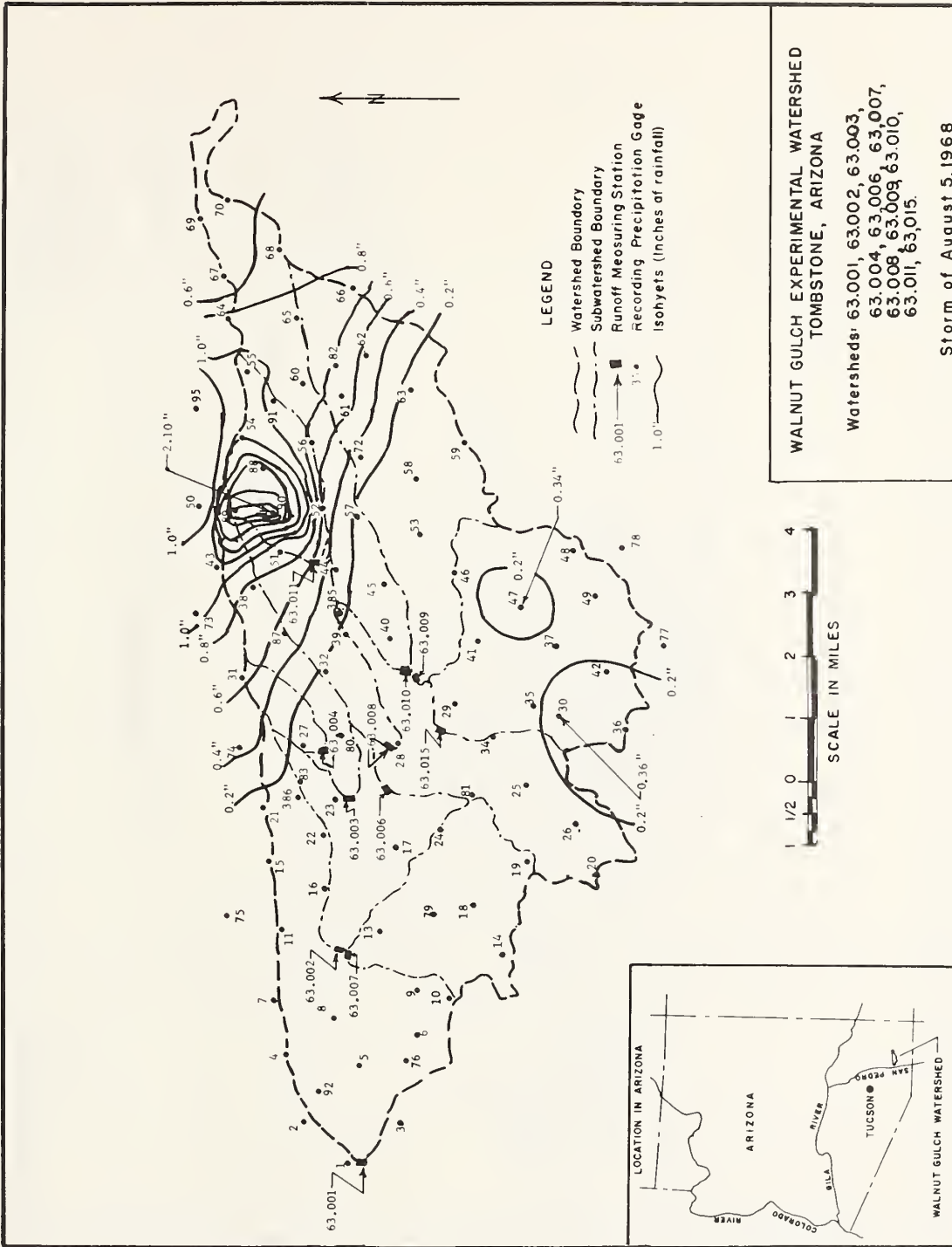
1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31, 1968										
RG 11			RG 11							
8-31	0.01	0.0	8-31	1140	0.0	0.0	8-31	1315	0.0	0.0
				1144	0.1500	0.01		1316	6.920	0.0
				1146	1.2000	0.05		1317	92.610	0.0
				1156	0.2400	0.09		1318	124.490	0.0
				1204	3.3750	0.54		1327	155.350	0.0006
WATERSHED CONDITIONS:										
65% of area in desert shrubs (Whitethorn, creosotebush and tarbush) with 23% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.										
				1210	2.6000	0.80		1332	158.650	0.0009
				1217	1.1143	0.93		1342	229.280	0.0018
				1224	2.2286	1.19		1347	233.610	0.0023
				1228	4.3500	1.48		1355	229.280	0.0031
				1233	2.4000	1.68		1405	181.570	0.0040
				1256	0.3391	1.81		1412	145.670	0.0045
				1324	0.1286	1.87		1415	116.000	0.0047
				1329	0.9600	1.95		1417	116.000	0.0048
				1350	0.0857	1.98		1427	67.190	0.0052
				1359	0.2667	2.02		1437	44.040	0.0054
								1452	35.780	0.0057
								1503	17.210	0.0058
								1514	10.630	0.0059
								1522	10.630	0.0059
								1532	12.890	0.0060
								1542	9.250	0.0060
								1543	134.000	0.0060
								1544	523.750	0.0061
								1547	590.560	0.0069
								1549	556.520	0.0074
								1550	599.270	0.0076
								1552	556.520	0.0081
								1553	616.940	0.0084
								1554	573.380	0.0086
								1558	523.750	0.0096
								1602	531.830	0.0105
								1607	467.060	0.0116
								1612	419.710	0.0126
								1616	370.000	0.0133
								1625	306.590	0.0146

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31, 1968 (CONTINUED)										
							8-31	1642	220.840	0.0166
								1712	134.000	0.0190
								1813	77.000	0.0219
								1912	40.100	0.0234
								2038	8.600	0.0243
								2144	1.260	0.0244
								2200	0.0	0.0244

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.

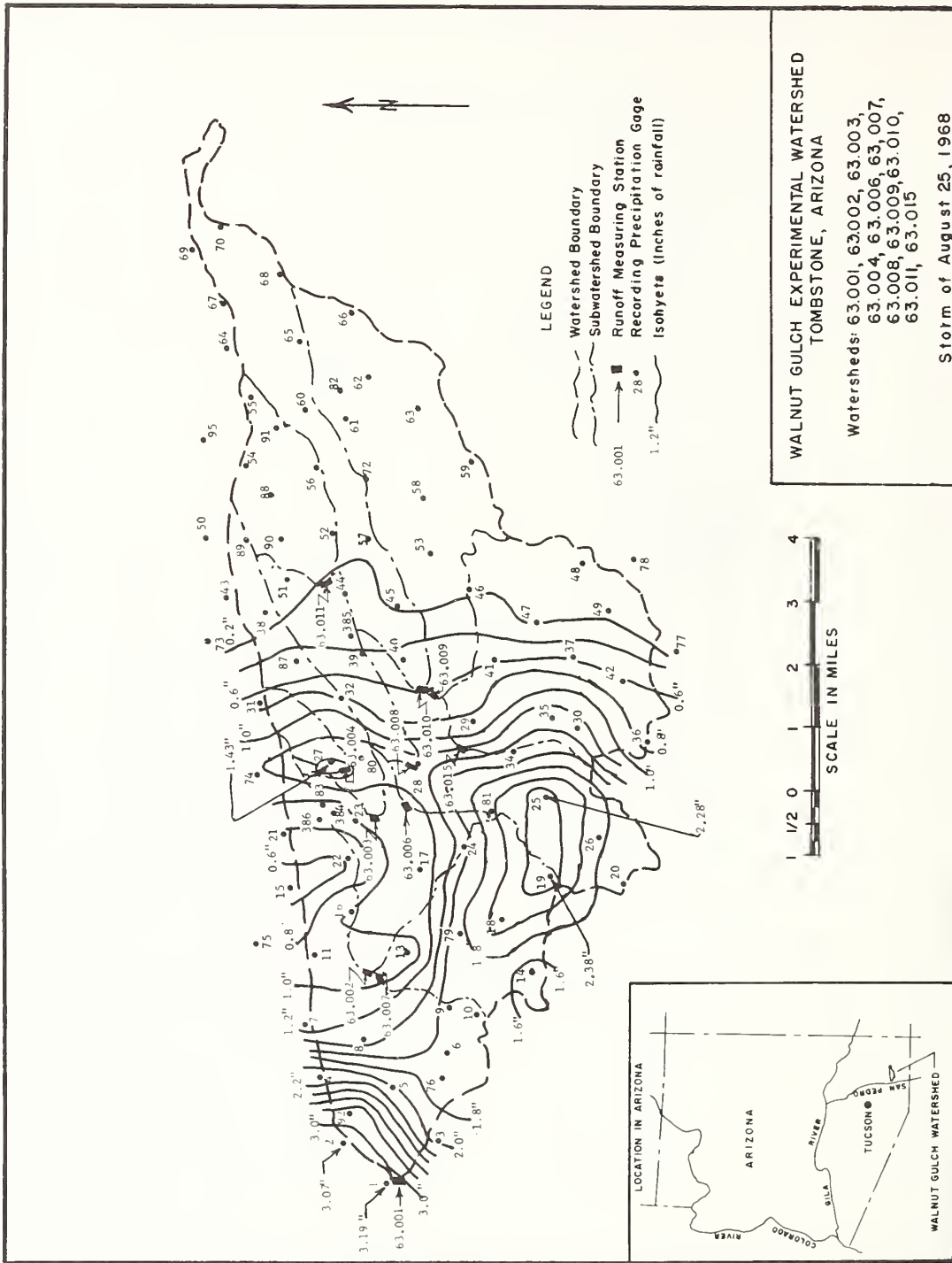




**WALNUT GULCH EXPERIMENTAL WATERSHED
TOMBSTONE, ARIZONA**

Watersheds: 63.001, 63.002, 63.003,
63.004, 63.006, 63.007,
63.008, 63.009, 63.010,
63.011, 63.015.

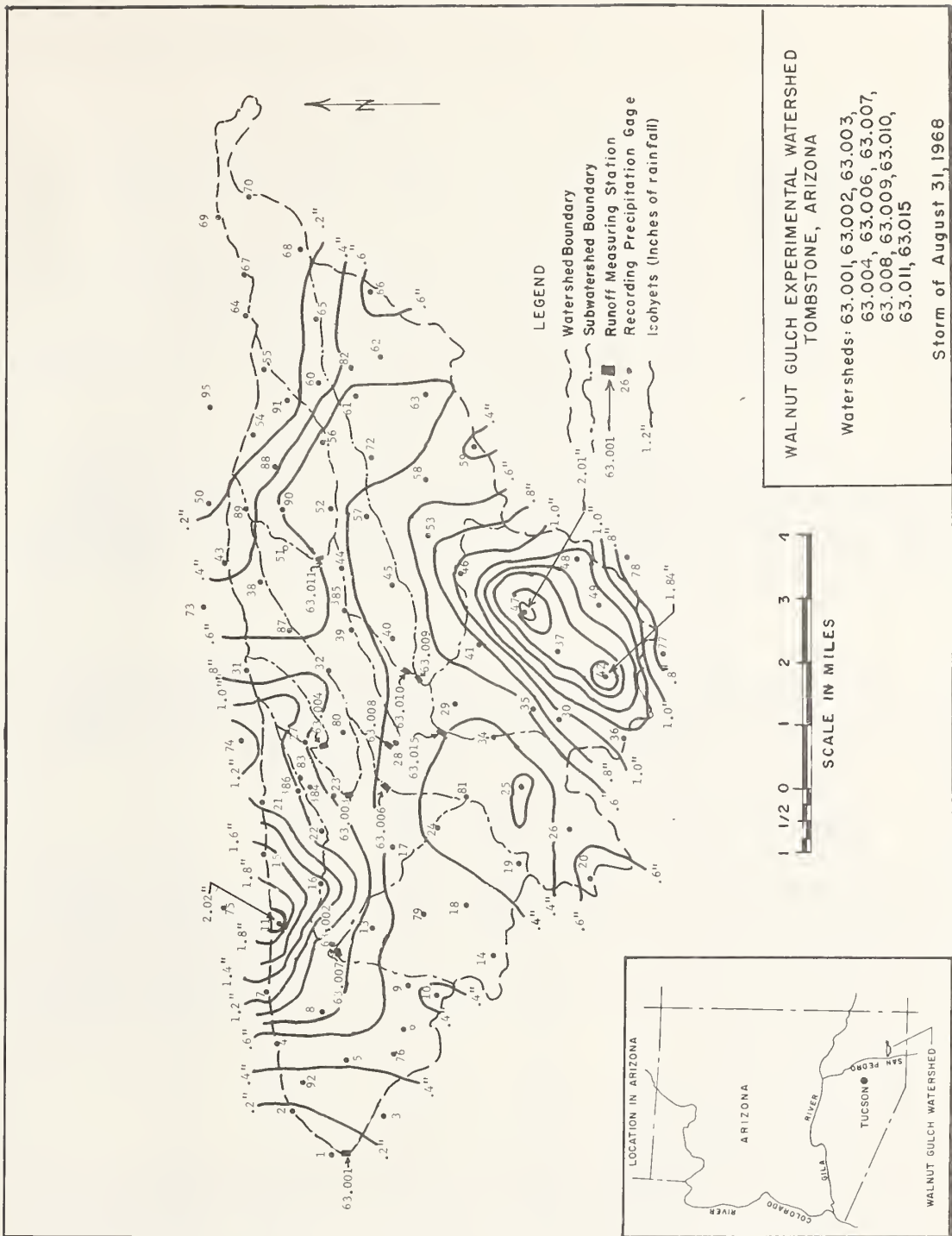
Storm of August 5, 1968



**WALNUT GULCH EXPERIMENTAL WATERSHED
TOMBSTONE, ARIZONA**

Watersheds: 63.001, 63.002, 63.003,
63.004, 63.006, 63.007,
63.008, 63.009, 63.010,
63.011, 63.015

Storm of August 25, 1968



**WALNUT GULCH EXPERIMENTAL WATERSHED
TOMBSTONE, ARIZONA**

Watersheds: 63.001, 63.002, 63.003,
63.004, 63.006, 63.007,
63.008, 63.009, 63.010,
63.011, 63.015

Storm of August 31, 1968

TOMBSTONE, ARIZONA WATERSHED W-2

LOCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 28100.00 acres 43.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA WATERSHED W-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.62	1.46	1.27	0.31	0.0	0.02	3.33	4.53	0.51	0.01	0.44	0.64	13.14
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.062	0.000	0.0	0.0	0.0	0.063
STA AV	P	0.63	1.46	1.27	0.31	0.00	0.02	3.33	4.53	0.51	0.01	0.44	0.64	13.14
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.071	0.005	0.0	0.0	0.0	0.142

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Date	Maximum Discharge Rate	1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	Maximum Volume for Selected Time Interval				2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.		
						6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.					
	8-31	0.031	8-31	0.023	8-31	0.035	8-31	0.043	8-31	0.045	8-31	0.046	8-30	0.046	8-24	0.060

MAXIMOMS FOR PERIOD OF RECORD																
1959	Date	Maximum Discharge Rate	Date	1 Hour Vol.	Date	2 Hours Vol.	Date	6 Hours Vol.	Date	12 Hours Vol.	Date	1 Day Vol.	Date	2 Days Vol.	Date	8 Days Vol.
	7-26	0.160	7-26	0.130	7-26	0.170	7-26	0.210	9-9	0.240	9-9	0.240	9-9	0.240	9-9	0.430
	1959		1959		1969		1959		1964		1964		1964		1964	

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitethorn, creosotebrush, tarbush and mertonia), with a 25% crown spread cover. 45% of area supports grass (black grama, curly mesquite, tobosa, blue grama and sideoats grama), with a basal area of 2.5%, and a shrub cover of approximately 6% crown spread. For topographic, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSDA Misc. Pub. 1226. Precipitation Data: Records began January 1954. Monthly totals are Thiessen weighted averages from 84 gages. Station averages are based on one year only, previously published data are being reevaluated. Runoff Data: Records began July 1959. Station averages are for 1966 and 1968. Temperature Data: See table of daily maximum and minimum value included for Watershed 63.001.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.21E	0.00	0.0	0.0	0.0		
2	0.0	0.0	0.07	0.04	0.0	0.0	0.52E	0.16E	0.10	0.00	0.0	0.0		
3	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.19E	0.21	0.00	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.04E	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.67E	0.35	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.01	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.0	0.0		
7	0.34M	0.0	0.05E	0.0	0.0	0.0	0.00	0.25E	0.0	0.0	0.0	0.0		
8	0.11M	0.0	0.07E	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0		
9	0.0	0.41E	0.46M	0.18E	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0		
10	0.07S	0.33E	0.57M	0.04E	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.09E	0.00	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.29E	0.0	0.01	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
13	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.07E	0.0		
14	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.19E	0.0	0.37E	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.00	0.0	0.0	0.02	0.00	0.14E	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.50E	1.12E	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.08M		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.56E	0.0	0.0	0.0	0.0		
26	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.43E		
27	0.01	0.01	0.0	0.00	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.13E		
28	0.09E	0.0	0.0	0.0	0.0	0.0	0.07E	0.11E	0.0	0.0	0.0	0.0		
29	0.00	0.0	0.0	0.03	0.0	0.0	0.13	0.36	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.14	0.0	0.00	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.65	0.0	0.0	0.0	0.0		
TOTAL	0.62	1.46	1.27	0.31	0.0	0.02	3.33	4.53	0.51	0.01	0.44	0.64		
STA AV	0.63	1.46	1.27	0.31	0.00	0.02	3.33	4.53	0.51	0.01	0.44	0.64		

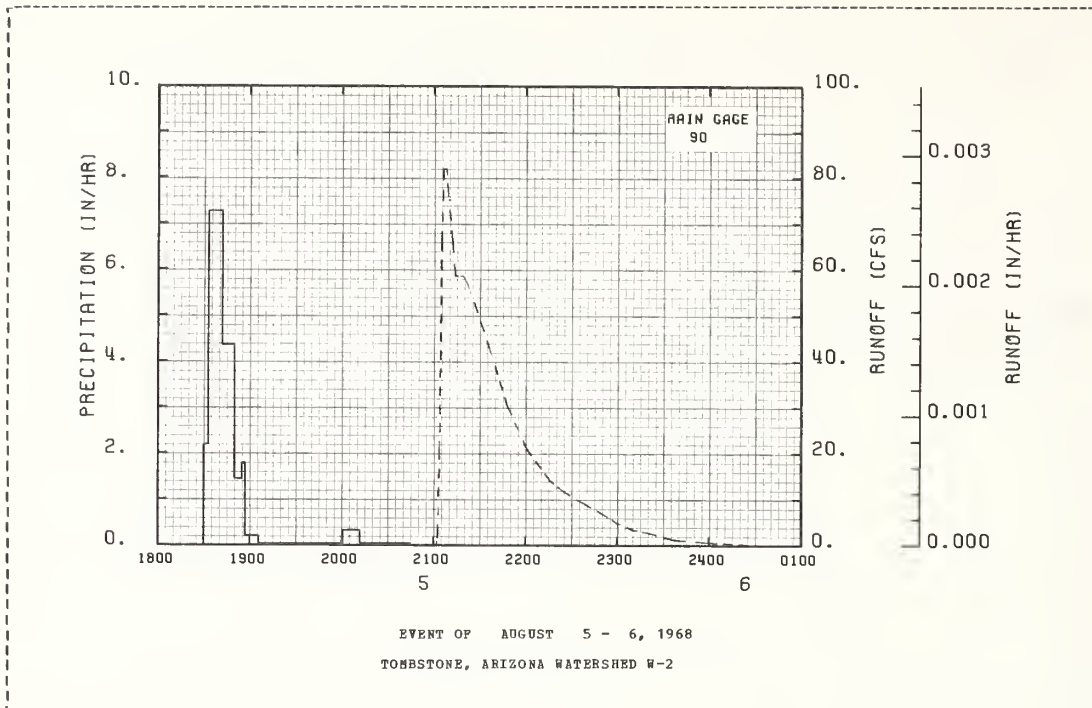
NOTES: Data are Thiessen weighted averages of values from 84 gages. STA AV are for 1968 only. Data for previous years are being reevaluated.

1968		MEAN DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA WATERSHED W-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.482E	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	1.049E	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.382E	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.695E	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.134	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.688E	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.085	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0338	2.3672	0.0161	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.062	0.000	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.071	0.005	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000845. STA AV are for 1966 and 1968.

1968			SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA WATERSHED W-2			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 5 - 6, 1968												
8- 5	RG 90 0.0	0.0	8- 5	RG 90 1830	0.0	0.0	8- 5	2102	0.0	0.0		
				1833	2.2005	0.11		2103	2.590	0.0		
				1842	7.2662	1.20		2104	20.820	0.0		
				1850	4.3501	1.78		2105	66.050	0.0		
				1855	1.4401	1.90		2106	81.800	0.0		
WATERSHED CONDITIONS:				1857	1.7996	1.96		2108	81.800	0.0001		
Oak woodland and desert shrubs				1906	0.2000	1.99		2109	77.060	0.0001		
(Whitethorn, creosotebush,				2001	0.0327	2.02		2112	66.050	0.0002		
tarbush, and Mortonia) with				2012	0.3273	2.08		2114	58.360	0.0003		
a crown spread of 25% cover,				2045	0.0364	2.10		2119	58.360	0.0005		
occupy 55% of the area. The								2122	56.750	0.0006		
remaining 45% supports grass								2137	42.200	0.0010		
(black grama, curly mesquite,								2148	30.310	0.0012		
tobosa, blue grama, and								2201	20.820	0.0014		
sideoats grama) with a								2216	14.050	0.0016		
basal area of 2.5% cover,												
and a shrub cover of												
approximately 6% crown spread.												
								2224	11.810	0.0017		
								2239	8.870	0.0018		
								2251	6.600	0.0019		
								2300	4.740	0.0019		
								2310	3.350	0.0019		
								2320	2.590	0.0019		
								2337	1.110	0.0019		
								2400	0.490	0.0019		
								8- 6	25	0.0		
										0.0019		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.

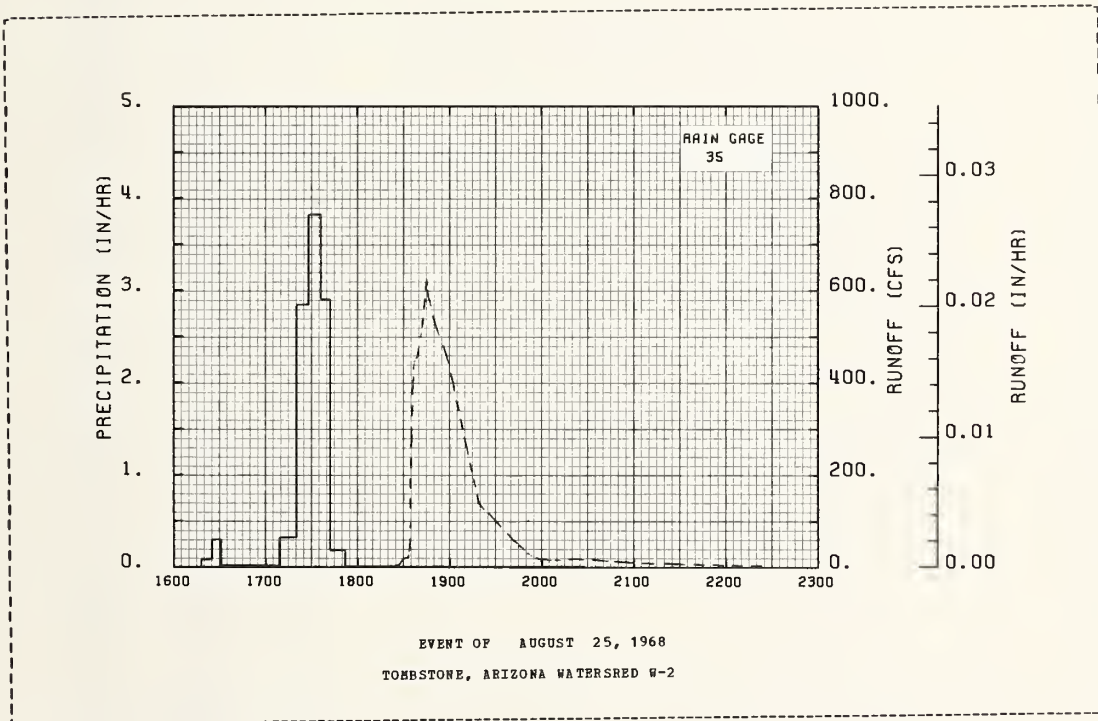


1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968											
8-25	RG 35 0.0	0.0	8-25	RG 35 1618	0.0	0.0	8-25	1723	0.0	0.0	
				1625	0.0857	0.01		1736	0.490	0.0	
				1631	0.3000	0.04		1748	1.000	0.0	
				1709	0.0158	0.05		1754	1.110	0.0	
				1720	0.3273	0.11		1800	0.770	0.0	
WATERSHED CONDITIONS: Oak woodland and desert shrubs (Whitethorn, creosotebush, tarbush, and mortouia) with a crown spread of 25% cover, occupy 55% of the area. The remaining 45% supports grass (black grama, curly mesquite, tobosa, blue grama, and sidecoats grama) with a basal area of 2.5% cover, and a shrub cover of approximately 6% crown spread.				1728	2.8500	0.49		1808	1.230	0.0	
				1736	3.8251	1.00		1812	2.240	0.0	
				1742	2.8998	1.29		1816	1.490	0.0	
				1752	0.1800	1.32		1821	2.590	0.0	
				2028	0.0038	1.33		1824	1.630	0.0	
									1826	4.740	0.0
									1828	8.870	0.0
									1829	17.200	0.0
									1831	20.000	0.0
									1833	21.670	0.0
									1834	42.200	0.0
									1835	281.100	0.0001
									1836	400.000	0.0003
									1837	445.880	0.0005
						1839	457.830	0.0011			
						1842	520.590	0.0020			
						1845	624.280	0.0030			
						1846	588.410	0.0033			
						1851	520.590	0.0049			
						1858	457.830	0.0069			
						1902	400.000	0.0079			
						1911	260.280	0.0096			
						1919	137.900	0.0106			
						1929	103.090	0.0113			
						1942	56.750	0.0119			
						1947	42.200	0.0120			
						1953	24.350	0.0121			
						1958	17.880	0.0122			
						2002	15.900	0.0122			
						2005	15.270	0.0122			

NOTES: To convert runoff in cfs to in/hr, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.

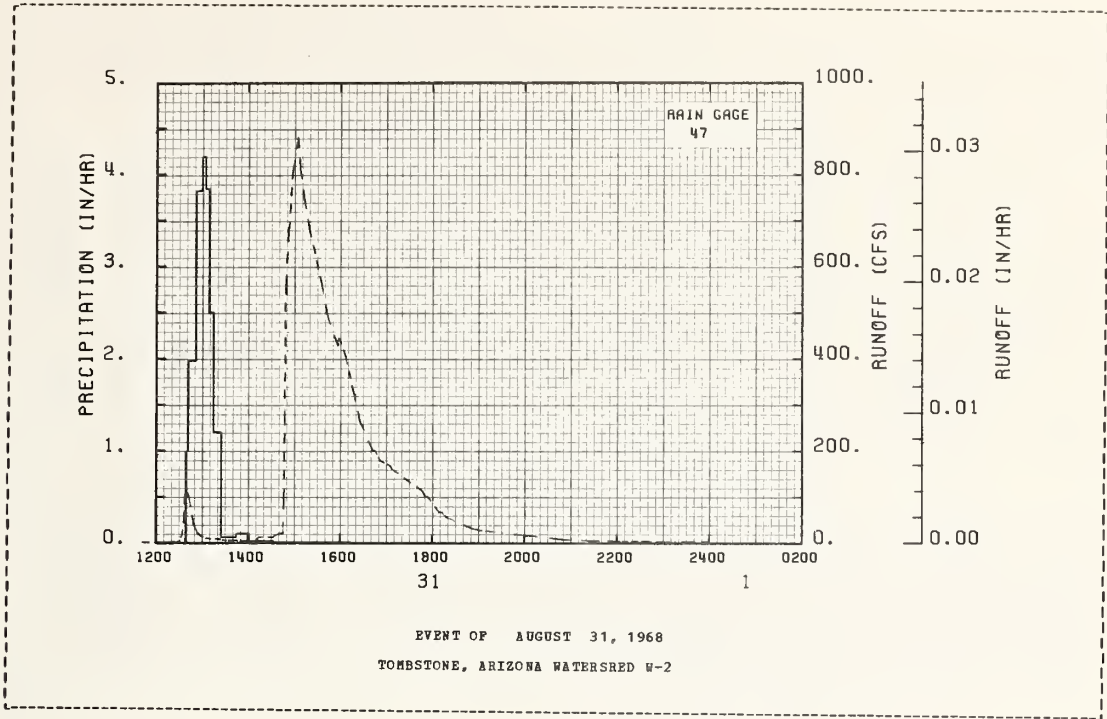
1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968 (CONTINUED)											
							8-25	2011	15.900	0.0123	
								2021	18.570	0.0124	
								2039	14.050	0.0126	
								2052	11.280	0.0127	
								2127	6.600	0.0129	
								2223	2.590	0.0131	
								2317	0.880	0.0132	
								2400	0.330	0.0132	

NOTES: To convert rnnoff in CPS to IN/HR, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.



1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31, 1968										
8-31	RG 47 0.0	0.000	8-31	RG 47 1239	0.0	0.0	8-31	1143	0.290	0.0
				1242	1.0000	0.05		1208	0.460	0.0
				1252	1.9800	0.38		1216	1.600	0.0
				1300	3.8250	0.89		1218	1.500	0.0
				1304	4.2000	1.17		1223	1.600	0.0
				1309	3.8400	1.49		1225	1.800	0.0
				1315	2.5000	1.74		1231	4.160	0.0
				1325	1.2000	1.94		1234	16.730	0.0
				1345	0.0600	1.96		1235	20.000	0.0
				1402	0.1059	1.99		1237	55.300	0.0
				1433	0.0194	2.00		1238	100.490	0.0001
				1614	0.0059	2.01		1240	122.060	0.0002
								1243	100.490	0.0004
								1250	38.000	0.0007
								1254	22.450	0.0008
								1258	15.260	0.0008
								1310	8.120	0.0009
								1322	8.120	0.0010
								1330	5.400	0.0010
								1338	5.400	0.0010
								1343	4.830	0.0010
								1355	3.470	0.0010
								1400	3.880	0.0010
								1405	3.340	0.0010
								1408	3.610	0.0010
								1411	3.610	0.0010
								1413	10.400	0.0010
								1415	12.640	0.0010
								1433	12.640	0.0011
								1437	18.310	0.0011
								1442	21.200	0.0012
								1446	21.200	0.0012
								1447	100.490	0.0012
								1448	276.840	0.0013
								1449	560.000	0.0016
								1453	679.220	0.0031
								1458	810.090	0.0053
								1505	879.900	0.0088
								1508	810.090	0.0103
								1513	743.200	0.0125
								1520	679.220	0.0154
								1536	560.000	0.0212
								1543	493.900	0.0234
								1557	426.780	0.0272
								1558	444.510	0.0274
								1607	403.810	0.0296
								1618	324.240	0.0320
								1626	263.480	0.0334
								1643	198.690	0.0357
								1646	198.690	0.0361
								1653	176.600	0.0369
								1706	166.090	0.0382
								1708	159.290	0.0384
								1748	110.960	0.0416
								1751	100.490	0.0418
								1754	100.490	0.0420
								1809	65.570	0.0427
								1813	65.570	0.0429
								1818	55.300	0.0431
								1853	29.510	0.0440
								1900	26.520	0.0441
								1916	23.760	0.0443
								2003	15.260	0.0448
								2049	6.990	0.0451
								2128	4.160	0.0452
								2200	3.470	0.0453
								2213	3.210	0.0453
								2223	3.080	0.0453
								2238	2.740	0.0453
								2300	2.110	0.0453
								2308	2.010	0.0453
								2333	1.900	0.0453
								2400	1.700	0.0453

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise County; 1.3 miles north of Tombstone; tributary of Walnut Gulch; San Pedro River, Gila River, Colorado River Basin.

AREA: 2220.00 acres 3.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-3															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.56	1.53	1.13	0.33	0.0	0.03	2.43	4.07	0.67	0.0	0.38	0.59	11.72															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.035	0.0	0.0	0.0	0.0	0.036															
STA AV	P	0.58	0.40	0.43	0.16	0.07	0.25	3.59	3.00	1.28	0.47	0.44	0.79	11.47															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.103	0.027	0.0	0.0	0.0	0.158															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval						8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	Date	Vol.		
1968		8-25	0.063	8-25	0.022	8-25	0.023	8-31	0.023	8-31	0.023	8-30	0.023	8-29	0.023	8-23	0.034
MAXIMUMS FOR PERIOD OF RECORD																	
		8-16	0.580	8-17	0.240	8-17	0.280	8-17	0.280	8-17	0.280	8-17	0.280	8-17	0.280	8-14	0.420
		1958		1961		1961		1961		1961		1961		1961		1958	

NOTES: Watershed conditions: Vegetative cover; Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. No. 1226. Precipitation Data: Records began 1955. Monthly totals are Thiessen weighted averages of 13 gages. Station averages based on record period 1955-68. Runoff Data: Records began 1958. Station averages based on record period 1958-68. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA WATERSHED W-3													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		0.0	0.0	0.03	0.00	0.0	0.0	0.0	0.07	0.00	0.0	0.0	0.0														
2		0.0	0.0	0.01	0.06	0.0	0.0	0.57E	0.30	0.12	0.0	0.0	0.0														
3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.33	0.0	0.0	0.0														
4		0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.04E	0.0	0.0	0.0	0.0														
5		0.0	0.0	0.0	0.0	0.0	0.0	0.67E	0.50	0.0	0.0	0.0	0.0														
6		0.01M	0.0	0.03	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0														
7		0.38M	0.0	0.01	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0														
8		0.07M	0.00	0.02M	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0														
9		0.00S	0.38	0.50M	0.19	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0														
10		0.06S	0.30	0.53M	0.00	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0														
11		0.0	0.06	0.0	0.01	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0														
12		0.0	0.44	0.0	0.04	0.0	0.0	0.0	0.15	0.0	0.0	0.00	0.0														
13		0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.09	0.0														
14		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.29	0.0														
15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
16		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
17		0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0														
18		0.0	0.0	0.00	0.0	0.0	0.00	0.35E	0.00	0.0	0.0	0.0	0.0														
19		0.0	0.0	0.00	0.0	0.0	0.03	0.00	0.11	0.0	0.0	0.0	0.0														
20		0.0	0.0	0.0	0.0	0.0	0.0	0.31E	1.05	0.0	0.0	0.0	0.00M														
21		0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.05M														
22		0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0														
23		0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0														
24		0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.00	0.0	0.0	0.0	0.0														
25		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.01														
26		0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.40														
27		0.00	0.00	0.0	0.00	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.14														
28		0.03	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0														
29		0.00	0.0	0.0	0.03	0.0	0.0	0.00	0.14	0.0	0.0	0.0	0.0														
30		0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.03	0.0	0.0	0.0	0.0														
31		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0														
TOTAL		0.56	1.53	1.13	0.33	0.0	0.03	2.43	4.07	0.67	0.0	0.38	0.59														
STA AV		0.58	0.40	0.43	0.16	0.07	0.25	3.59	3.00	1.28	0.47	0.44	0.79														

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV are based on record period 1955-68.

1968		MEAN DAILY DISCHARGE (cfs)					TOMBSTONE, ARIZONA WATERSHED W-3					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.029E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020E	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.012E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.027E	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.162E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.044E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.069E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0036	0.1049	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.035	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.103	0.027	0.0	0.0	0.0

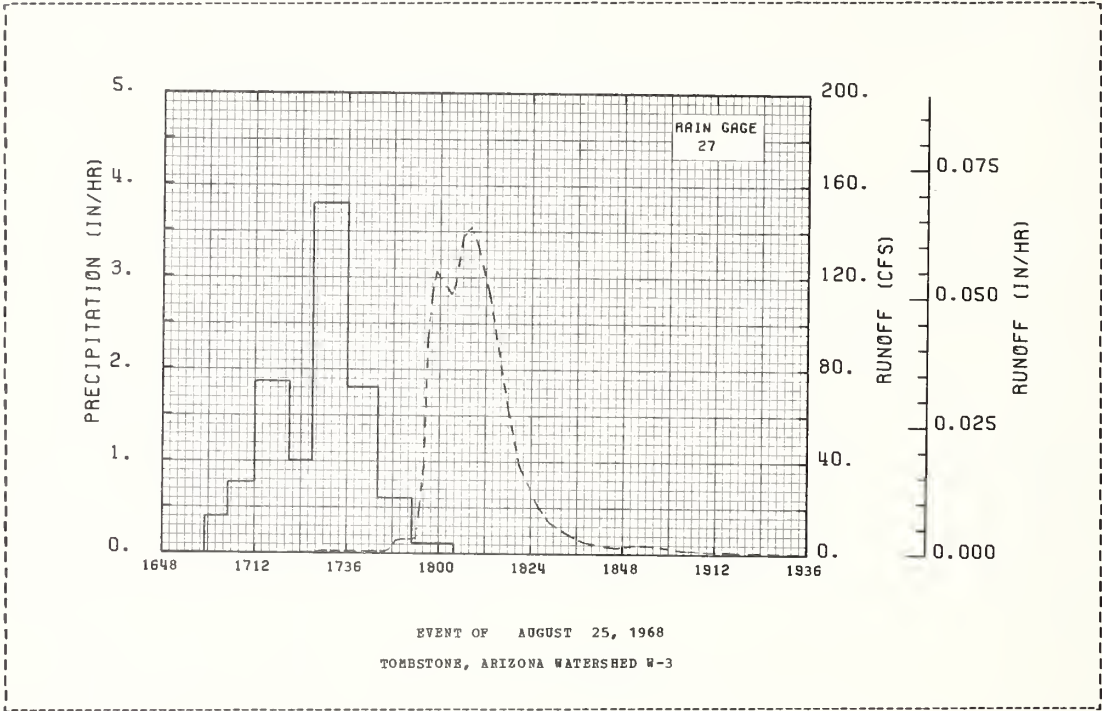
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.010721. STA AV based on record period 1955-1968.

1968		SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA WATERSHED W-3				
ANTECEDENT CONDITIONS		Date			RAINFALL		Date			RUNOFF	
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968											
8-25	RG 27 0.0	0.0	8-25	RG 27 1659	0.0	0.0	8-25	1721	0.0	0.0	
				1705	0.4000	0.04		1722	0.160	0.0	
				1712	0.7714	0.13		1726	0.270	0.0	
				1721	1.8667	0.41		1729	0.860	0.0	
				1727	0.9999	0.51		1730	0.930	0.0	
WATERSHED CONDITIONS:											
Vegetative Cover: Desert shrubs (whitethorn, creosote-bush, and tarbrus) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover, occupy 55% of the area.											
Grasses (black grama, curly mesquite, tobosa) with a basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area.											
				1736	3.8002	1.08		1733	0.930	0.0	
				1744	1.8000	1.32		1737	0.860	0.0	
				1753	0.6000	1.41		1742	0.860	0.0	
				1804	0.1091	1.43		1743	1.000	0.0	
								1746	1.000	0.0	
								1747	1.660	0.0	
								1749	5.890	0.0001	
								1751	6.280	0.0002	
								1753	6.280	0.0003	
								1754	6.690	0.0003	
								1755	20.000	0.0004	
								1756	37.890	0.0006	
								1757	93.630	0.0012	
								1758	112.370	0.0019	
								1759	122.460	0.0027	
								1803	112.370	0.0062	
								1804	116.350	0.0072	
								1806	137.420	0.0090	
								1808	141.870	0.0112	
								1810	133.050	0.0131	
								1813	112.370	0.0159	
								1818	62.200	0.0191	
								1821	37.890	0.0202	
								1826	20.000	0.0213	
								1829	13.230	0.0217	
								1834	7.980	0.0221	
								1838	4.810	0.0223	
								1846	2.510	0.0225	
								1850	3.850	0.0226	
								1854	3.850	0.0227	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000447. For isohyetal map of event, see information included for Watershed 63.001.

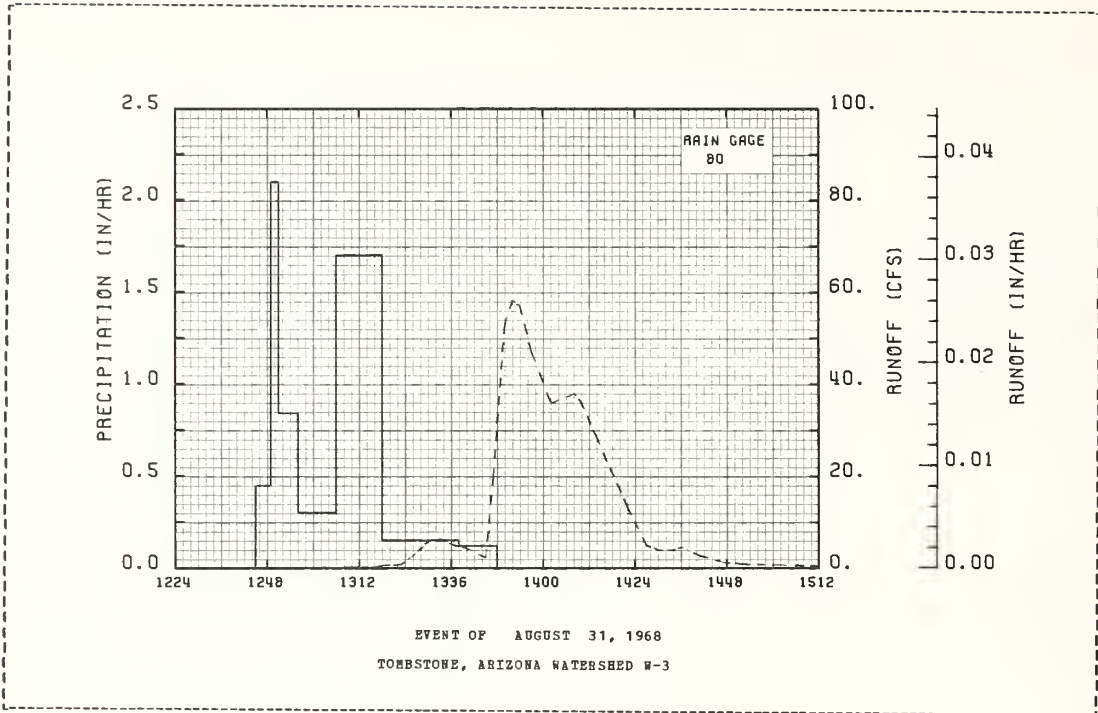
1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-3								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968 (CONTINUED)											
							8-25	1904	1.310	0.0229	
								1906	1.310	0.0229	
								1911	0.730	0.0229	
								1916	0.730	0.0229	
								1934	0.210	0.0230	
								2046	0.0	0.0231	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00047. For isohyetal map of event, see information included for Watershed 63.001.



1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-3								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 31, 1968											
8-31	RG 80 0.0	0.0	8-31	RG 80 1245	0.0	0.0	8-31	1256	0.0	0.0	
				1249	0.4500	0.03		1259	0.050	0.0	
				1251	2.1000	0.10		1302	0.050	0.0	
				1256	0.8400	0.17		1303	0.160	0.0	
				1306	0.3000	0.22		1311	0.160	0.0	
WATERSHED CONDITIONS:											
Vegetative Cover: Desert				1318	1.7000	0.56	1314	0.100	0.0		
shrubs (whitethorn, creosote-				1338	0.1500	0.61	1316	0.100	0.0		
bush, and tarbrush) with a				1348	0.1200	0.63	1318	0.590	0.0		
crown spread approximately							1319	0.660	0.0		
30% and grasses with basal							1322	0.730	0.0		
area of approximately 0.8%											
cover, occupy 55% of the							1323	0.860	0.0		
area. Grasses (black grama,							1326	2.750	0.0		
curly mesquite, tobosa) with							1328	4.160	0.0001		
a basal area of 2.6% cover							1330	5.890	0.0002		
and shrub cover of 2% occupy							1333	6.280	0.0003		
the remaining 45% of the											
area.							1337	4.810	0.0005		
							1340	4.160	0.0006		
							1345	2.060	0.0007		
							1347	20.000	0.0009		
							1350	52.940	0.0017		
							1352	58.130	0.0025		
							1354	56.810	0.0034		
							1357	46.820	0.0046		
							1402	35.820	0.0061		
							1408	37.890	0.0078		
							1410	35.820	0.0083		
							1414	28.170	0.0092		
							1422	13.230	0.0104		
							1427	4.810	0.0107		
							1430	3.850	0.0108		
							1434	3.850	0.0109		
							1436	4.480	0.0110		
							1441	2.510	0.0111		
							1447	1.150	0.0112		
							1452	0.790	0.0112		
							1502	0.590	0.0113		
							1512	0.340	0.0113		
							1520	0.210	0.0113		
							1540	0.100	0.0113		
							1645	0.0	0.0113		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA W-4

LOCATION: Cochise County, Arizona; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 560.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA W-4
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.64	1.33	1.15	0.35	0.0	0.05	2.93	4.14	0.50	0.0	0.37	0.58	12.02
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.042	0.0	0.0	0.0	0.0	0.042
STA AV	P	0.53	0.39	0.44	0.16	0.07	0.26	3.49	3.08	1.29	0.46	0.43	0.77	11.36
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.440	0.132	0.018	0.0	0.0	0.0	0.590

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		8-31	0.038	8-31	0.022	8-31	0.026	8-31	0.027	8-31	0.027	8-30	0.027	8-29	0.027	8-23	0.041
MAXIMUMS FOR PERIOD OF RECORD																	
		7-19	2.250	7-19	0.980	7-19	1.100	7-19	1.100	7-19	1.100	7-19	1.630	7-19	1.630	7-19	4.370
		1955		1955		1955		1955		1955		1955		1955		1955	

NOTES: Watershed conditions: Vegetative cover: 100% dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basal cover. For topography, geological, and vegetative maps, see pages 63.1-3, 63.1-4 and 63.1-5 respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSDA Misc. Pub. 1226. Precipitation Data: Record began July 1954. Monthly totals are Thiessen weighted averages of three rain gages. STA AV values are based on record period 1955-1968. Runoff Data: Records began Jan. 1955. STA AV based on 12 yr (1955-58) and (1961-68) record period. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA W-4
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.06	0.0	0.0	0.80	0.14	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.28	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.04	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.30	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.06	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.42M	0.0	0.01	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
8	0.09M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.41	0.51M	0.21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
10	0.09S	0.26	0.55M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.38	0.0	0.03	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.25	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.01	0.0	0.0	0.05	0.00	0.11	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	1.03	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.05M
22	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41
27	0.0	0.00	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.12
28	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.01	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.64	1.33	1.15	0.35	0.0	0.05	2.93	4.14	0.50	0.0	0.37	0.58	0.0	12.02
STA AV	0.53	0.39	0.44	0.16	0.07	0.26	3.49	3.08	1.29	0.46	0.43	0.77	0.0	11.36

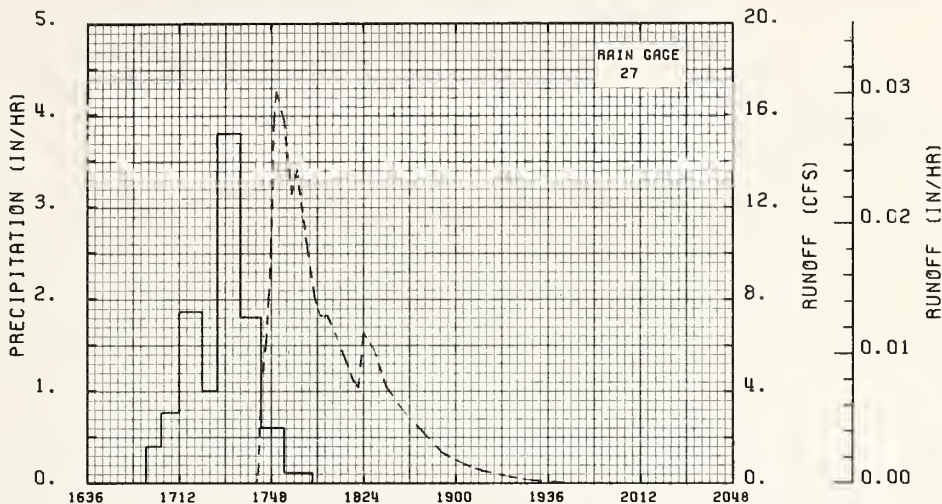
NOTES: Data are Thiessen weighted averages of values from three gages. STA AV are for record period 1955-1968.

1968		MEAN DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA W-4					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.343E	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.643E	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	0.0318	0.0	0.0	0.0	0.0	
INCBES	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.042	0.0	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.440	0.132	0.018	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.042502. STA AV based on record period (1955-58) and (1961-68).

1968		SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-4					
ANTECEDENT CONDITIONS		Date		Date		Date		Date		Date		Date	
Mo-Day	Painfall (inches)	Mo-Day	Runoff (inches)	Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	Mo-Day	Time of Day
EVENT OF AUGUST 25, 1968													
8-25	RG 27 0.0	0.0	8-25	RG 27 1659	0.0	0.0	0.0	8-25	1742	0.0	0.0		
					1705	0.4000	0.04		1743	0.530	0.0		
					1712	0.7714	0.13		1744	3.900	0.0001		
					1721	1.8667	0.41		1746	6.170	0.0004		
					1727	0.9999	0.51		1747	8.040	0.0006		
WATERSHED CONDITIONS:					1736	3.8002	1.08		1748	10.260	0.0009		
100% of area dominated by					1744	1.8000	1.32		1749	15.740	0.0013		
desert shrubs (whitethorn,					1753	0.6000	1.41		1750	17.010	0.0018		
creosotebush and tarbush)					1804	0.1091	1.43		1753	15.740	0.0033		
with a crown spread of									1756	12.550	0.0045		
approximately 33% and an									1758	13.660	0.0053		
understory of grasses with									1802	10.260	0.0067		
approximately 0.6% basal									1805	8.040	0.0075		
cover.									1807	7.260	0.0079		
									1810	7.260	0.0086		
									1817	5.350	0.0099		
									1820	4.450	0.0103		
									1822	4.170	0.0105		
									1824	6.520	0.0108		
									1828	5.830	0.0115		
									1833	4.170	0.0122		
									1840	3.050	0.0129		
									1847	2.230	0.0134		
									1855	1.290	0.0138		
									1903	0.820	0.0140		
									1910	0.530	0.0141		
									1921	0.260	0.0142		
									1929	0.120	0.0142		
									1942	0.0	0.0142		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.001771. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 25, 1968
TOBSTONE, ARIZONA W-4

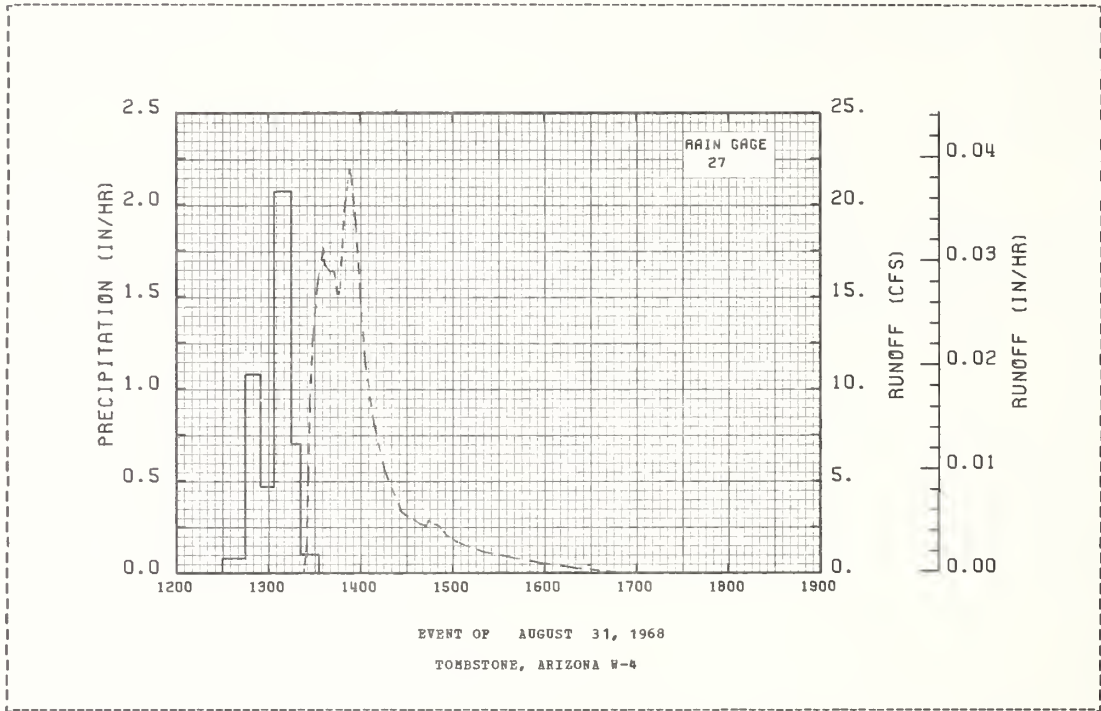
1968 SELECTED RUNOFF EVENT			TOBSTONE, ARIZONA W-4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 31, 1968										
8-31	RG 27 0.0	0.0	8-31	RG 27 1230	0.0	0.0	8-31	1323	0.0	0.0
				1245	0.0800	0.02		1324	0.680	0.0
				1255	1.0800	0.20		1325	1.410	0.0
				1304	0.4667	0.27		1326	5.350	0.0001
				1315	2.0727	0.65		1327	9.330	0.0004
				1321	0.7000	0.72		1329	12.820	0.0010
				1333	0.1000	0.74		1332	15.740	0.0023
								1336	17.660	0.0043
								1337	16.680	0.0048
								1340	16.360	0.0063
								1343	16.360	0.0078
								1345	15.120	0.0088
								1346	15.120	0.0092
								1347	15.740	0.0096
								1350	20.090	0.0112
								1352	21.180	0.0123
								1353	21.930	0.0130
								1354	21.560	0.0136
								1357	19.020	0.0154
								1400	15.120	0.0169
								1403	11.500	0.0180
								1409	8.040	0.0198
								1416	5.500	0.0212
								1427	3.280	0.0226
								1439	2.620	0.0236
								1443	2.520	0.0239
								1444	2.830	0.0240
								1451	2.520	0.0246
								1456	2.050	0.0249
								1502	1.710	0.0252
								1506	1.560	0.0254
								1521	1.110	0.0260
								1538	0.820	0.0265
								1557	0.530	0.0269
								1619	0.260	0.0272

WATERSHED CONDITIONS:
100% of area dominated by desert shrubs (white-thorn, creosotebush, and tarbush) with a crown spread of approximately 33% and an understory of grasses with approximately 0.6% basal cover.

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.001771. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-4							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31, 1968 (CONTINUED)										
								1647	0.0	0.0273

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.001771. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA W-6

LOCATION: Cochise County; 3/4 mile north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 23500.00 acres 36.70 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA W-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0.64	1.49	1.26	0.30	0.0	0.02	3.35	4.57	0.48	0.01	0.46	0.67	13.24	
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.062	0.001	0.0	0.0	0.0	0.066	
STA AV	P 0.64	1.49	1.26	0.30	0.00	0.02	3.35	4.57	0.48	0.01	0.46	0.67	13.24	
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.061	0.011	0.0	0.0	0.0	0.153	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
8-25	0.034		8-31	0.021	8-31	0.027	8-31	0.034	8-31	0.034	8-30	0.034	8-29	0.038	8-25	0.054
MAXIMOMS FOR PERIOD OF RECORD																
7-26	0.100		7-28	0.080	7-28	0.100	7-28	0.110	7-28	0.110	7-28	0.110	7-28	0.120	8-19	0.180
1966			1966		1966		1966		1966		1966		1966		1963	

NOTES: Watershed conditions: Vegetative cover: Oak woodland and desert shrubs (whitethorn, creosotebush, tarbush, mormonia) occupy approximately 45% of area, with a crown spread of 25% cover. The remaining 55% of the area supports a grass cover (black grama, curly mesquite, tobosa, blue grama, and sideoats grama) with a basal area of 2.5% cover and a shrub cover of approximately 6% crown spread. For topographic, geologic and vegetative maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSDA Misc. Pub. 1226. Precipitation Data: Records began 1962. Monthly totals are Thiessen weighted averages of values from 51 gauges. Station averages are based on 1968 only. Runoff Data: Records began 1962. STA AV based on 1966 and 1968 data, other years of record are being reevaluated. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.24	0.00	0.0	0.0	0.0		
2	0.0	0.0	0.09	0.03	0.0	0.0	0.45E	0.16	0.11	0.00	0.0	0.0		
3	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.17E	0.20	0.00	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.04E	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.64E	0.36	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.01	0.0	0.0	0.0	0.06	0.05	0.0	0.0	0.0	0.0		
7	0.34M	0.0	0.05E	0.0	0.0	0.0	0.00	0.28E	0.0	0.0	0.0	0.0		
8	0.12M	0.0	0.09E	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
9	0.0	0.41E	0.43M	0.18E	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
10	0.07S	0.34E	0.56M	0.05E	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.10E	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.28E	0.0	0.01	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
13	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.07E	0.0		
14	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.17E	0.0	0.39E	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.00	0.0	0.0	0.02	0.00	0.13E	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.54E	1.12E	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.09M		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.49E	0.0	0.0	0.0	0.0		
26	0.00	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.44E		
27	0.01	0.01	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.14E		
28	0.10E	0.0	0.0	0.0	0.0	0.0	0.06E	0.13E	0.0	0.0	0.0	0.0		
29	0.00	0.0	0.0	0.03	0.0	0.0	0.15	0.39	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.15	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.63	0.0	0.0	0.0	0.0		
TOTAL	0.64	1.49	1.26	0.30	0.0	0.02	3.35	4.57	0.48	0.01	0.46	0.67		
STA AV	0.64	1.49	1.26	0.30	0.00	0.02	3.35	4.57	0.48	0.01	0.46	0.67		

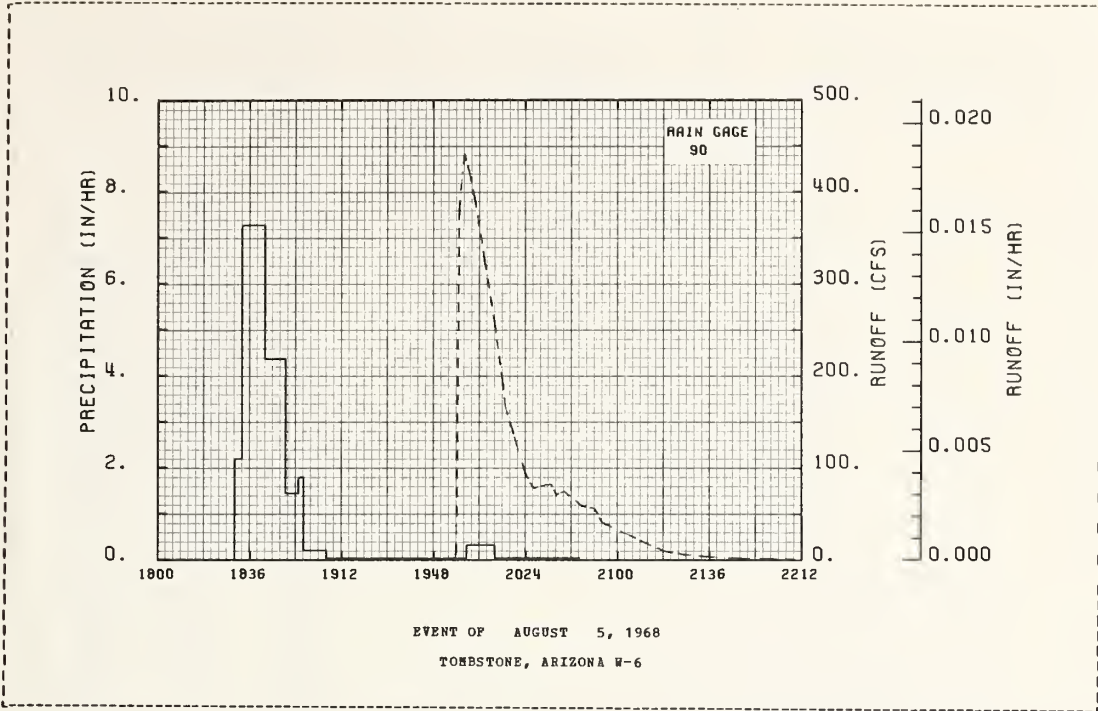
NOTES: Daily precipitation are Thiessen weighted averages of values from 51 gauges. STA AV based on 1968 data.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	2.198E	1.133E	0.818E	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081E	0.245E	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.024E	6.964E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.012E	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.050E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.262E	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.414E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.134E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.725E	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.308E	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.939E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0864	1.9859	0.0354	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.062	0.001	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.061	0.011	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001013. STA AV based on 1966 and 1968 data. Other years of record are being reevaluated.

1968 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-6												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 5, 1968												
8-5	RG 90 0.0	0.0	8-5	RG 90	0.0	0.0	8-5	1956	0.0	0.0		
					1830	2.2005	0.11	1957	8.480	0.0		
					1842	7.2662	1.20	1958	380.370	0.0001		
					1850	4.3501	1.78	1959	412.040	0.0004		
					1855	1.4401	1.90	2000	440.740	0.0008		
WATERSHED CONDITIONS:												
Vegetative Cover: Oak												
woodland and desert shrubs												
(whitethorn, creosotebush,												
tarbush, mormonia) occupy												
approximately 45% of the												
area, with a crown spread												
of 25% cover. The remaining												
55% of the area supports a												
grass cover (black grama,												
curly mesquite, tobosa, blue												
grama, and sideoats grama)												
with basal area of 2.5% cover												
and shrub cover of 6% crown												
spread.												
					1857	1.7996	1.96	2002	420.150	0.0014		
					1906	0.2000	1.99	2004	392.100	0.0020		
					2001	0.0327	2.02	2008	324.110	0.0030		
					2012	0.3273	2.08	2012	255.340	0.0038		
					2045	0.0364	2.10	2015	193.890	0.0043		
								2016	165.980	0.0044		
								2019	140.000	0.0047		
								2020	128.960	0.0048		
								2024	93.230	0.0051		
								2027	78.250	0.0053		
								2032	82.000	0.0056		
								2034	82.000	0.0057		
								2036	71.130	0.0058		
								2039	74.630	0.0060		
								2046	58.340	0.0063		
								2051	55.430	0.0065		
								2054	40.150	0.0066		
								2105	25.940	0.0069		
								2111	17.920	0.0070		
								2118	9.450	0.0071		
								2120	8.480	0.0071		
								2126	5.550	0.0071		
								2135	3.260	0.0071		
								2148	1.550	0.0071		
								2200	0.760	0.0071		
								2209	0.530	0.0071		
								2218	0.390	0.0071		
								2230	0.180	0.0071		
								2245	0.050	0.0071		
								2300	0.0	0.0071		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.

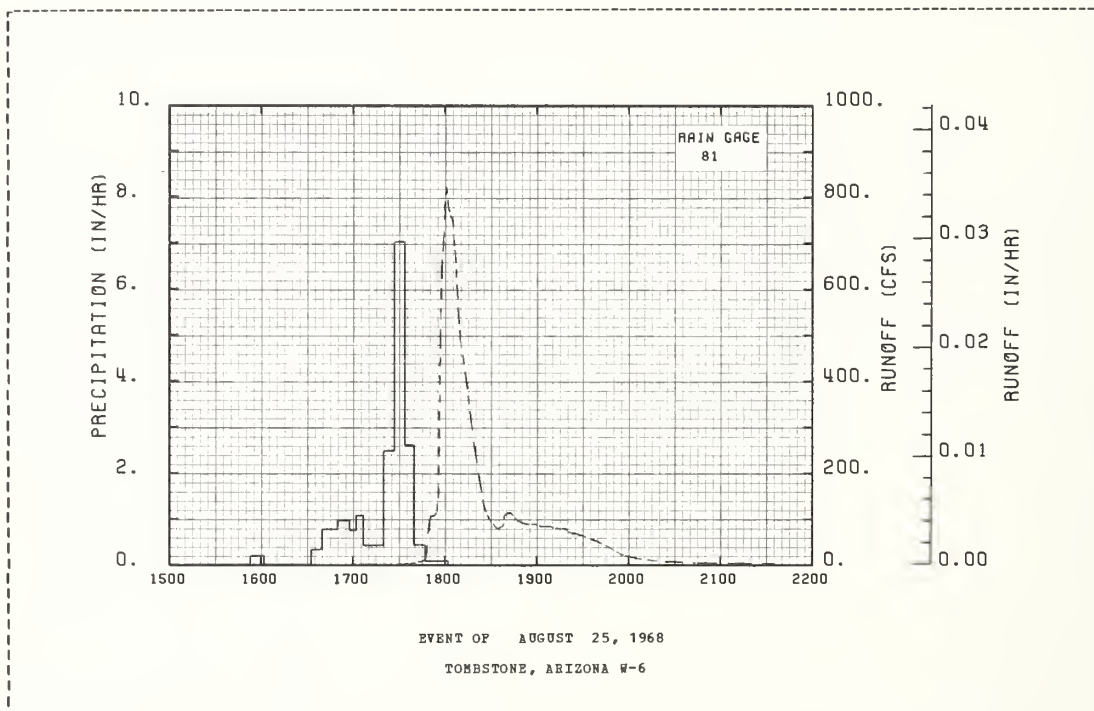


1968 SELECTED RUNOFF EVENT			TOHSTONE, ARIZONA W-6								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 25, 1968											
8-25	RG 81 0.0	0.0	8-25	RG 81 1553	0.0	0.0	8-25	1705	0.0	0.0	
				1602	0.2000	0.03		1710	0.390	0.0	
				1633	0.0	0.03		1725	0.390	0.0	
				1640	0.3429	0.07		1731	1.170	0.0	
				1650	0.7800	0.20		1736	1.770	0.0	
				1658	0.9750	0.33		1739	3.730	0.0	
				1702	0.7500	0.38		1745	8.480	0.0	
				1707	1.0801	0.47		1747	11.000	0.0	
				1720	0.4154	0.56		1748	17.920	0.0	
				1727	2.4857	0.85		1750	96.720	0.0001	
				1734	7.0284	1.67		1751	105.680	0.0002	
				1740	2.6002	1.93		1753	107.990	0.0004	
				1747	0.4286	1.98		1754	110.310	0.0005	
				1802	0.0800	2.00		1755	122.330	0.0006	
								1756	159.300	0.0007	
								1757	491.490	0.0010	
								1758	645.910	0.0014	
								1759	701.940	0.0018	
								1800	778.190	0.0024	
								1801	820.840	0.0029	
								1802	778.190	0.0034	
								1805	748.410	0.0050	
								1806	701.940	0.0055	
								1807	673.640	0.0060	
								1808	592.150	0.0065	
								1809	540.670	0.0069	
								1810	491.490	0.0072	
								1814	400.000	0.0084	
								1817	315.470	0.0092	
								1820	241.030	0.0098	
								1823	176.660	0.0102	
								1826	122.330	0.0105	
								1829	98.920	0.0107	
								1833	82.000	0.0110	
								1835	78.250	0.0111	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 25, 1968 (CONTINUED)										
							8-25	1838	86.080	0.0113
								1839	107.990	0.0114
								1841	112.670	0.0115
								1843	112.670	0.0117
								1848	94.540	0.0121
								1853	88.160	0.0124
								1859	88.160	0.0128
								1903	82.000	0.0130
								1905	84.030	0.0131
								1908	84.030	0.0133
								1909	82.000	0.0134
								1915	78.250	0.0137
								1918	78.250	0.0139
								1923	67.760	0.0142
								1925	67.760	0.0143
								1928	64.500	0.0144
								1940	49.930	0.0149
								1948	35.830	0.0151
								1955	22.260	0.0152
								2000	17.920	0.0153
								2005	13.330	0.0154
								2017	8.020	0.0155
								2028	5.550	0.0156
								2050	3.030	0.0157
								2113	1.550	0.0157
								2135	0.840	0.0157
								2206	0.390	0.0157
								2230	0.180	0.0157
								2245	0.110	0.0157
								2300	0.0	0.0157

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.

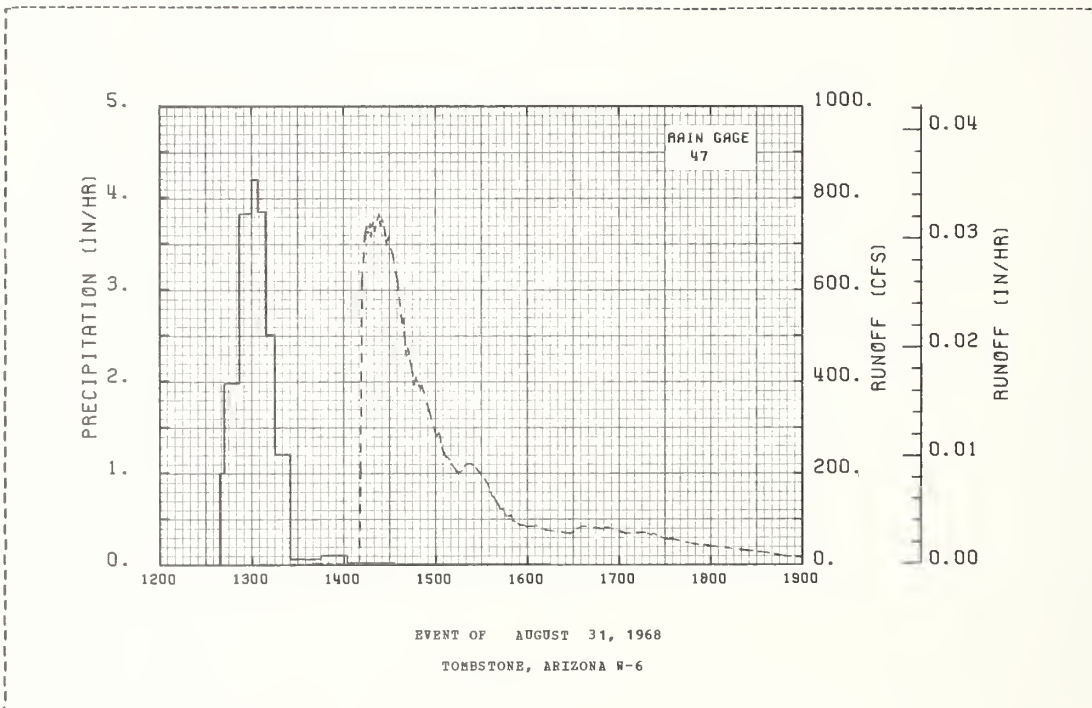


1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-6									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF AUGUST 31, 1968												
8-31	RG 47 0.0	0.0	8-31	RG 47	0.0	0.0	8-31	1306	0.0	0.0		
					1242	1.0000		1309	0.110	0.0		
					1252	1.9800		1313	0.110	0.0		
					1300	3.8250		1316	0.180	0.0		
					1304	4.2000		1320	0.460	0.0		
WATERSHED CONDITIONS:												
Vegetative Cover: Oak					1309	3.8400	1.49	1326	0.460	0.0		
woodland and desert shrubs					1315	2.5000	1.74	1327	0.530	0.0		
(whitethorn, creosotebush,					1325	1.2000	1.94	1331	0.530	0.0		
tarbush, mertonia) occupy					1345	0.0600	1.96	1334	0.390	0.0		
approximately 45% of the					1402	0.1059	1.99	1336	0.320	0.0		
area, with a crown spread												
of 25% cover. The remaining					1433	0.0194	2.00	1338	0.690	0.0		
55% of the area supports a					1614	0.0059	2.01	1340	2.810	0.0		
grass cover (black grama,								1342	3.490	0.0		
curly mesquite, tobosa, blue								1344	3.490	0.0		
grama, and sideoats grama)								1352	1.770	0.0		
with a basal area of 2.5%												
cover and shrub cover of 6%								1357	1.350	0.0		
crown spread.								1400	1.350	0.0		
								1403	2.190	0.0		
								1405	2.190	0.0		
								1410	1.550	0.0		
								1411	207.580	0.0001		
								1412	618.740	0.0004		
								1414	725.000	0.0013		
								1415	736.660	0.0019		
								1416	719.200	0.0024		
								1417	742.520	0.0029		
								1418	713.420	0.0034		
								1419	748.410	0.0040		
								1420	725.000	0.0045		
								1423	766.210	0.0061		
								1424	736.660	0.0066		
								1425	754.320	0.0071		
								1427	725.000	0.0082		
								1428	696.240	0.0087		
								1429	713.420	0.0092		
								1432	673.640	0.0107		
								1435	618.740	0.0121		
								1438	525.680	0.0133		
								1439	535.650	0.0136		
								1440	491.490	0.0139		
								1441	453.790	0.0142		
								1442	472.450	0.0146		
								1444	430.970	0.0152		
								1445	417.560	0.0155		
								1446	391.090	0.0158		
								1447	408.730	0.0161		
								1450	382.290	0.0169		
								1451	391.090	0.0172		
								1456	331.570	0.0185		
								1500	284.480	0.0194		
								1501	280.720	0.0196		
								1502	288.270	0.0198		
								1503	276.990	0.0200		
								1505	244.510	0.0204		
								1507	234.140	0.0207		
								1508	234.140	0.0209		
								1512	210.820	0.0215		
								1513	207.580	0.0216		
								1514	201.200	0.0217		
								1516	201.200	0.0220		
								1520	220.660	0.0226		
								1523	220.660	0.0231		
								1528	204.380	0.0238		
								1534	176.660	0.0246		
								1537	148.240	0.0249		
								1538	148.240	0.0250		
								1540	134.970	0.0252		
								1541	129.840	0.0253		
								1542	122.330	0.0254		
								1544	122.330	0.0256		
								1546	105.680	0.0258		
								1549	107.990	0.0260		
								1551	94.540	0.0261		
								1555	86.080	0.0264		
								1557	86.080	0.0265		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr) ¹	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31, 1968 (CONTINUED)										
							8-31	1600	82.000	0.0267
								1601	84.030	0.0268
								1604	84.030	0.0270
								1605	86.080	0.0271
								1612	74.630	0.0275
								1628	67.760	0.0283
								1635	84.030	0.0287
								1648	78.250	0.0294
								1652	82.000	0.0296
								1704	67.760	0.0302
								1715	71.130	0.0307
								1721	64.500	0.0310
								1722	67.760	0.0310
								1730	55.430	0.0314
								1735	55.430	0.0316
								1748	44.840	0.0321
								1800	40.150	0.0325
								1824	30.000	0.0331
								1835	25.940	0.0333
								1845	20.010	0.0335
								1850	16.930	0.0336
								1859	15.060	0.0337
								1945	9.450	0.0341
								2033	6.320	0.0344
								2115	3.260	0.0345
								2147	1.550	0.0346
								2218	0.530	0.0346
								2230	0.250	0.0346
								2240	0.0	0.0346

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA W-8

LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 3830.00 acres 5.98 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA W-8	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0.62	1.66	1.18	0.29	0.0	0.04	1.95	4.37 ⁹	0.78	0.00	0.49	0.64	12.04	
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.079	0.011	0.0	0.0	0.0	0.096	
STA AV	P 0.62	1.67	1.18	0.29	0.00	0.04	1.95	4.37	0.78	0.00	0.50	0.64	12.04	
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.064	0.005	0.0	0.0	0.0	0.118	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	8-5	0.147	8-5	0.047	8-5	0.051	8-5	0.051	8-5	0.051	8-4	0.051	8-3	0.051	7-28	0.059
MAXIMUMS FOR PERIOD OF RECORD																
	7-22	1.110	7-22	0.310	7-22	0.320	7-22	0.340	7-22	0.340	7-22	0.340	7-22	0.340	7-22	0.340
	1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Vegetative cover; approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 15 gages. Station averages are based on 1968 data. Runoff Data: Records began 1963. STA AV are based on 1966 and 1968 data, other years of records are being reevaluated. Temperature Data: See table of daily maximum and minimum values included for watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968	DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA W-8	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.09	0.06	0.0	0.0	0.0	0.21E	0.56	0.28	0.00	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.33	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02E	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52E	0.87	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.05	0.0	0.0	0.0	0.0	
7	0.40M	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	
8	0.08M	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	
9	0.0	0.35E	0.45M	0.16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
10	0.06S	0.35E	0.51M	0.01	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.39E	0.0	0.03	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	
13	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.07	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.16	0.0	0.43	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23E	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.01	0.0	0.0	0.04	0.01	0.10	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37E	1.09	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.07M	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.27	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	
27	0.00	0.00	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.14E	
28	0.06	0.0	0.0	0.0	0.0	0.0	0.00	0.04	0.0	0.0	0.0	0.0	0.0	
29	0.00	0.0	0.0	0.02	0.0	0.0	0.00	0.07	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.08	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.62	1.66	1.18	0.29	0.0	0.04	1.95	4.37	0.78	0.00	0.49	0.64	12.04	
STA AV	0.62	1.67	1.18	0.29	0.00	0.04	1.95	4.37	0.78	0.00	0.50	0.64	12.04	

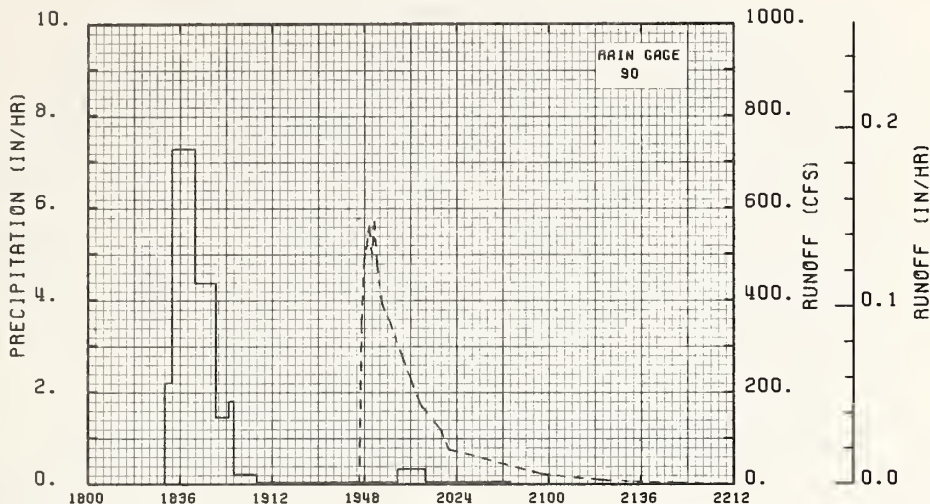
NOTES: Data are Thiessen weighted averages from 15 rain gages. STA AV are based on 1968 data.

1968		MEAN DAILY DISCHARGE (cfs)										TOMBSTONE, ARIZONA W-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.593E	1.286E	1.327E	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.428E	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027E	8.271E	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.033E	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.206E	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.914E	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.115E	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.224E	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0315	0.4095	0.0585	0.0	0.0	
INCRES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.079	0.011	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.064	0.005	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.006214. STA AV are based on data for 1966 and 1968, other years of data are being reevaluated.

1968		SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA W-8				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 5, 1968										
8-5	RG 90 0.0	0.0	8-5	RG 90 1830	0.0	0.0	8-5	1946	0.0	0.0
				1833	2.2005	0.11		1947	350.000	0.0007
				1842	7.2662	1.20		1948	488.690	0.0024
				1850	4.3501	1.78		1949	521.350	0.0050
				1855	1.4401	1.90		1950	560.080	0.0072
WATERSHED CONDITIONS:										
Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%.										
				1857	1.7996	1.96		1951	488.690	0.0093
				1906	0.2000	1.99		1952	570.000	0.0114
				2001	0.0327	2.02		1953	475.040	0.0140
				2012	0.3273	2.08		1955	389.380	0.0175
				2045	0.0364	2.10		1958	350.000	0.0224
								2003	274.070	0.0290
								2006	229.640	0.0323
								2010	171.800	0.0358
								2018	114.530	0.0407
								2021	74.260	0.0419
								2057	20.940	0.0493
								2120	7.900	0.0507
								2133	4.400	0.0510
								2150	1.000	0.0512
								2208	0.100	0.0512
								2230	0.0	0.0512

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 5, 1968
TOMBSTONE, ARIZONA W-8

1968 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-8

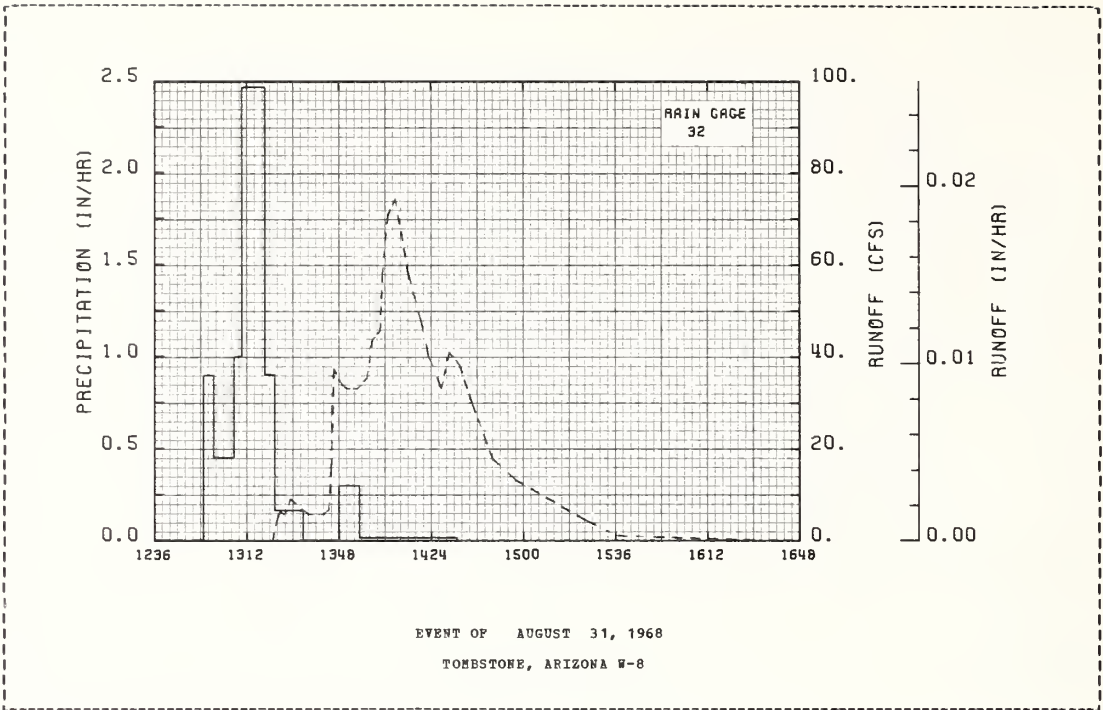
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)

EVENT OF AUGUST 31, 1968

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
8-31	0.0	0.0	8-31	1255	0.0	0.0	8-31	1322	0.0	0.0
				1259	0.9000	0.06		1324	5.050	0.0
				1307	0.4500	0.12		1325	6.070	0.0
				1310	1.0000	0.17		1327	5.720	0.0001
				1319	2.4667	0.54		1329	8.960	0.0002
				1323	0.9000	0.60		1336	5.720	0.0004
				1334	0.1636	0.63		1342	5.720	0.0006
				1348	0.0	0.63		1344	6.780	0.0007
				1356	0.3000	0.67		1345	15.870	0.0008
				1434	0.0158	0.68		1346	37.320	0.0009
								1349	33.870	0.0014
								1351	33.030	0.0017
								1355	33.030	0.0023
								1359	35.580	0.0029
								1401	43.750	0.0033
								1404	45.670	0.0039
								1405	58.000	0.0041
								1407	70.810	0.0046
								1410	74.260	0.0056
								1415	58.000	0.0071
								1420	47.630	0.0082
								1423	40.020	0.0088
								1428	33.030	0.0096
								1431	40.930	0.0101
								1435	38.210	0.0108
								1440	29.770	0.0115
								1448	17.690	0.0123
								1457	13.100	0.0129
								1524	4.400	0.0139
								1537	1.000	0.0141
								1630	0.0	0.0142

WATERSHED CONDITIONS:
Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA W-11

LOCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 2035.00 acres 3.18 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA W-11
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P 0.66	1.53	1.23	0.30	0.0	0.03	1.66	4.99	0.66	0.01	0.58	0.63	12.29
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.226	0.035	0.0	0.0	0.0	0.262
STA AV	P 0.66	1.53	1.23	0.30	0.00	0.03	1.66	4.99	0.66	0.01	0.58	0.63	12.29
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.155	0.143	0.018	0.0	0.0	0.0	0.316

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	8-5	0.427	8-5	0.136	8-5	0.139	8-5	0.139	8-5	0.139	8-5	0.139	8-4	0.139	7-29	0.209

MAXIMUMS FOR PERIOD OF RECORD																
1964	9-11	0.520	9-10	0.620	9-9	0.750	9-9	0.770	9-9	0.970	9-9	0.970	9-10	1.460	9-8	1.700
1964	1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Approximately 20% of the area dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 9 rain gages. STA AV are based on 1968 data only. Runoff Data: Records began 1963. STA AV are based on 1966 and 1968 data, other years of record are being reevaluated. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968	DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA W-11
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.15	0.07	0.0	0.0	0.03	0.87	0.34	0.01	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.20	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.47	1.26	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.00	0.0	0.0	0.0	0.01	0.09	0.0	0.0	0.0	0.0	
7	0.40M	0.0	0.04	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	
8	0.09M	0.0	0.04	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
9	0.0	0.33E	0.43M	0.15	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
10	0.07S	0.32E	0.48M	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.20E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.33E	0.0	0.04	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	
13	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.52	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.01	0.0	0.0	0.03	0.01	0.11	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.32	1.09	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.07M	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.08	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	
27	0.00	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.13E	
28	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
29	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.10	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	
TOTAL	0.66	1.53	1.23	0.30	0.0	0.03	1.66	4.99	0.66	0.01	0.58	0.63	
STA AV	0.66	1.53	1.23	0.30	0.00	0.03	1.66	4.99	0.66	0.01	0.58	0.63	

NOTES: Data are Thiessen weighted averages of 9 rain gages. STA AV are 1968 data only.

1968		MEAN DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA W-11					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.978E	3.031E	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.945E	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016E	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.408E	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6241	0.1010	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.226	0.035	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.155	0.143	0.018	0.0	0.0	0.0	

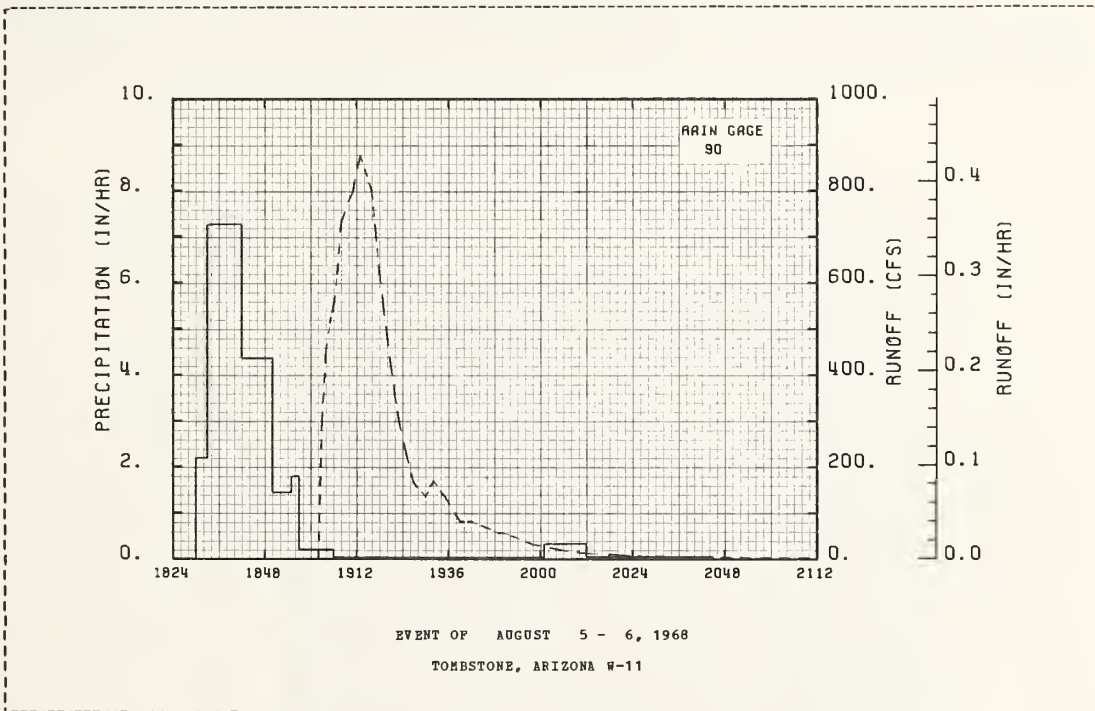
NOTES: To convert mean daily discharge values in CFS to IN/DAY, multiply by 0.011695. STA AV values are based on 1966 and 1968 data, other years of record are being reevaluated.

1968			SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-11			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 5 - 6, 1968												
8-5	RG 90 0.0	0.0	8-5	RG 90 1830	0.0	0.0	8-5	1902	0.0	0.0		
				1833	2.2005	0.11		1903	300.000	0.0011		
				1842	7.2662	1.20		1904	447.330	0.0047		
				1850	4.3501	1.78		1905	513.410	0.0084		
				1855	1.4401	1.90		1906	547.960	0.0124		
				1857	1.7996	1.96		1907	620.000	0.0168		
				1906	0.2000	1.99		1908	733.480	0.0232		
				2001	0.0327	2.02		1911	798.580	0.0407		
				2012	0.3273	2.08		1913	876.400	0.0550		
				2045	0.0364	2.10		1916	798.580	0.0757		
								1917	706.440	0.0814		
								1918	620.000	0.0865		
								1919	547.960	0.0921		
								1920	479.870	0.0960		
								1921	415.800	0.0994		
								1922	355.820	0.1023		
								1923	300.000	0.1054		
								1925	226.900	0.1094		
								1927	163.080	0.1127		
								1930	134.820	0.1164		
								1932	169.160	0.1187		
								1935	134.820	0.1225		
								1939	80.550	0.1260		
								1942	80.550	0.1280		
								1946	66.550	0.1304		
								1949	55.180	0.1319		
								1951	53.990	0.1327		
								1953	47.160	0.1336		
								1958	30.600	0.1352		
								2005	18.920	0.1366		
								2012	10.600	0.1374		
								2021	7.500	0.1381		
								2037	2.400	0.1387		
								2110	0.690	0.1391		
								2128	0.460	0.1392		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487. For isohyetal map of event, see information included for Watershed 63.001.

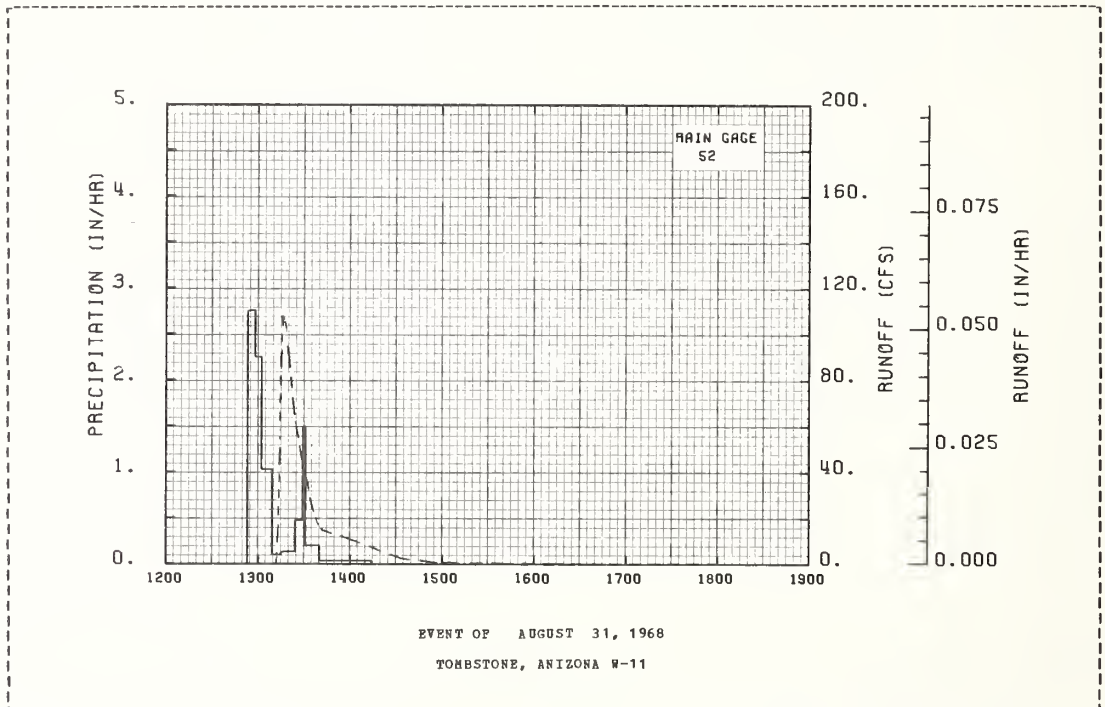
1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 5 - 6, 1968 (CONTINUED)										
							8- 5	2153	0.320	0.1393
								2321	0.250	0.1395
								2400	0.180	0.1396
							8- 6	145	0.110	0.1397
								400	0.0	0.1398

NOTES: To convert rnnoff in CPS to IN/HR, multiply by 0.000487. For isohyetal map of event, see information included for Watershed 63.001.



1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Nainfall	Nunoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31, 1968										
8-31	NG 52 0.0	0.0	8-31	NG 52	0.0	0.0	8-31	1310	0.0	0.0
				1258	2.7600	0.23		1312	0.390	0.0
				1302	2.2500	0.38		1313	13.960	0.0001
				1309	1.0286	0.50		1314	47.160	0.0003
				1315	0.1000	0.51		1315	89.720	0.0010
WATERSHED CONDITIONS:				1324	0.1333	0.53		1316	107.850	0.0018
Vegetative cover: Approx-				1329	0.4800	0.57		1318	103.640	0.0034
imately 20% of the area is				1331	1.5000	0.62		1320	89.720	0.0051
dominated by desert shrubs				1340	0.2000	0.65		1323	67.890	0.0071
(whitethorn, creosotebush,				1414	0.0353	0.67		1325	58.830	0.0081
tarbush) with a crown										
spread of approximately										
30% cover and an understory										
of grasses with basal area										
of less than 1%. The re-										
maining 80% of the area										
supports a grass cover										
(black grama, curly										
mesquite, sideoats grama)										
with basal cover of about										
2.5% interspersed with										
desert shrubs averaging										
less than 5% crown cover.										
								1328	47.160	0.0094
								1332	35.380	0.0107
								1335	25.240	0.0115
								1339	17.190	0.0122
								1342	14.650	0.0126
								1400	10.600	0.0145
								1433	2.400	0.0162
								1453	0.760	0.0165
								1505	0.530	0.0166
								1540	0.250	0.0167
								1613	0.110	0.0167
								1800	0.0	0.0167

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487. For isohyetal map of the event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County; 3/4 miles east of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 5912.00 acres 9.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA W-15
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.59	1.29	1.23	0.34	0.0	0.02	4.34	5.17	0.35	0.01	0.38	0.69	14.40
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.221	0.000	0.0	0.0	0.0	0.225
STA AV	P	0.58	0.69	0.37	0.16	0.17	0.17	4.18	3.62	1.34	0.03	0.30	1.71	13.33
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.153	0.030	0.0	0.0	0.0	0.214

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days				
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1968	8-31	0.181	8-31	0.118	8-31	0.148	8-31	0.174	8-31	0.176	8-31	0.176	8-29	0.202	8-24	0.221
MAXIMUMS FOR PERIOD OF RECORD																
	8-31	0.181	8-19	0.130	8-19	0.170	8-19	0.200	8-19	0.200	8-19	0.230	8-19	0.250	8-19	0.250
	1968		1966		1966		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a crown spread of approximately 30% and an understory of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sideoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. STA AV are based on record period 1965-1968. Runoff Data: Records began January 1965. STA AV are based on record period 1965-1968. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968	DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA W-15
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.00	0.02	0.0	0.0	0.62	0.10	0.00	0.00	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	0.15	0.01	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.04	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.16	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.00	0.0	0.0	0.0	0.03	0.00	0.0	0.0	0.0	0.0	0.0
7	0.30M	0.0	0.06E	0.0	0.0	0.0	0.0	0.38E	0.0	0.0	0.0	0.0	0.0
8	0.12M	0.0	0.10E	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
9	0.0	0.43E	0.43M	0.21E	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
10	0.06S	0.32	0.61M	0.09E	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.05	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
13	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.07E	0.0	0.0
14	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.30E	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.20E	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.51	1.06E	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.10M
22	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.45E
27	0.01	0.02	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.14E
28	0.09E	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.01	0.0	0.0	0.44	0.86	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.06	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.07	1.16	0.0	0.0	0.0	0.0	0.0
TOTAL	0.59	1.29	1.23	0.34	0.0	0.02	4.34	5.17	0.35	0.01	0.38	0.69	14.40
STA AV	0.58	0.69	0.37	0.16	0.17	0.17	4.18	3.62	1.34	0.03	0.30	1.71	13.33

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV are based on period of record 1965-1968.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-15												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013E	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.010E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.599E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.750E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.236E	6.100E	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.466E	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.783E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0321	1.7726	0.0004	0.0	0.0	0.0
INCBES	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.221	0.000	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.153	0.030	0.0	0.0	0.0

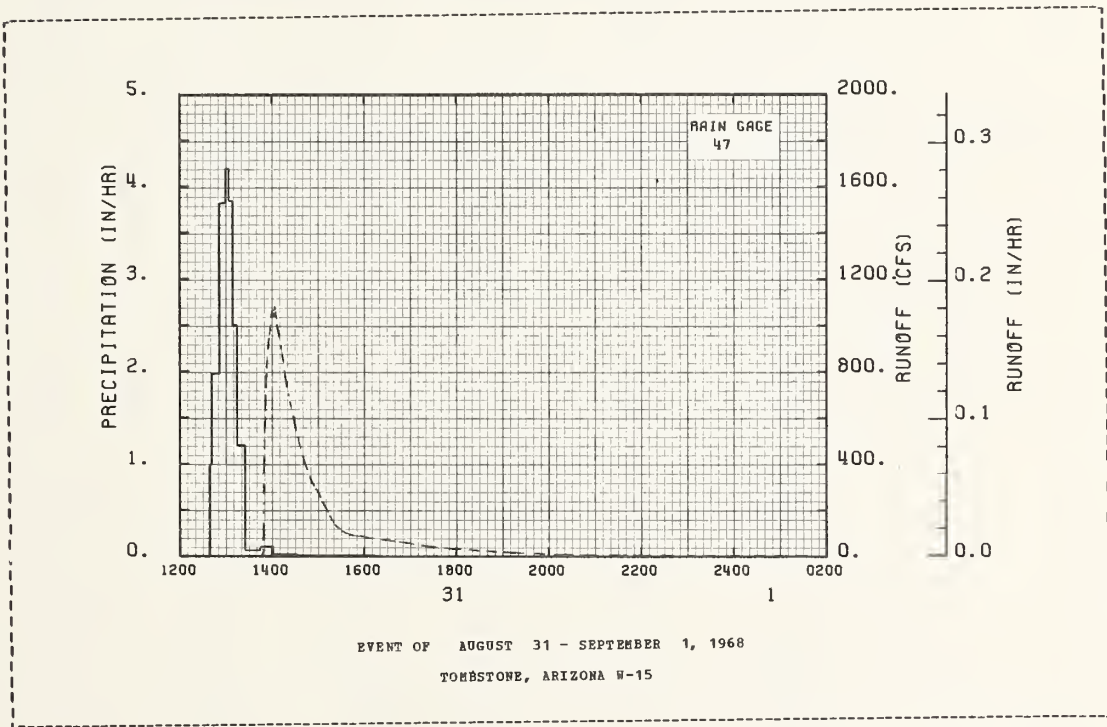
NOTES: To convert mean daily discharge in CPS to IN/HR, multiply by 0.004022. STA AV are based on record period 1965-68.

1968 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-15												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 31 - SEPTEMBER 1, 1968												
8-31	RG 47 0.0	0.0	8-31	RG 47 1239	0.0	0.0	8-31	1319	0.0	0.0		
				1242	1.0000	0.05		1324	0.24	0.0		
				1252	1.9800	0.38		1329	0.24	0.0		
				1300	3.8250	0.89		1332	0.18	0.0		
				1304	4.2000	1.17		1337	0.18	0.0		
WATERSHED CONDITIONS:				1309	3.8400	1.49		1343	0.24	0.0		
Vegetative cover: Desert shrubs (whitethorn, creosote-bush, tarbush) occupy 78% of area with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. 22% of the area supports a grass cover (black grama, tobosa, blue grama, sideoats grama and curly mesquite) of approximately 2% basal area.				1315	2.5000	1.74		1348	0.24	0.0		
				1325	1.2000	1.94		1349	104.43	0.0002		
				1345	0.0600	1.96		1350	401.60	0.0009		
				1402	0.1059	1.99		1351	572.41	0.0022		
				1433	0.0194	2.00		1352	665.91	0.0038		
				1614	0.0059	2.01		1353	766.43	0.0061		
								1354	845.26	0.0082		
								1356	926.96	0.0128		
								1358	983.36	0.0184		
								1400	1064.02	0.0244		
								1403	1040.74	0.0327		
								1404	1081.64	0.0362		
								1406	1040.74	0.0418		
								1408	983.36	0.0478		
								1414	872.11	0.0630		
								1418	766.43	0.0721		
								1424	665.91	0.0843		
								1430	572.41	0.0948		
								1436	485.41	0.1035		
								1443	401.60	0.1122		
								1453	316.48	0.1223		
								1500	278.03	0.1281		
								1510	209.37	0.1348		
								1519	151.85	0.1394		
								1525	124.56	0.1417		
								1536	98.16	0.1451		
								1544	90.12	0.1472		
								1553	84.35	0.1494		
								1557	84.35	0.1503		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000168. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-15							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31 - SEPTEMBER 1, 1968 (CONTINUED)										
			8-31	1605				1605	78.78	0.1521
				1633				1633	66.61	0.1578
				1654				1654	55.56	0.1614
				1726				1726	39.16	0.1656
				1755				1755	29.96	0.1684
				1914				1914	13.41	0.1732
				2022				2022	5.20	0.1750
				2051				2051	3.37	0.1753
				2133				2133	1.98	0.1756
				2200				2200	1.53	0.1757
				2240				2240	0.99	0.1758
				2330				2330	0.60	0.1759
				2400				2400	0.38	0.1759
			9-1	135				135	0.0	0.1760

NOTES: To convert runoff in CFS to IN/RR, multiply by 0.000168. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA WATERSHED 63.103

LOCATION: Cochise County; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin

AREA: 560.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA WATERSHED 63.103	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0	0.60 0.0	0.90 0.0	1.17 0.0	0.68 0.0	0.0 0.0	0.0 0.0	3.28 0.045	4.07 0.491	0.36 0.0	0.0 0.0	0.33 0.0	0.42 0.0	11.81 0.536
STA AV	P 0	0.44 0.0	0.57 0.0	0.36 0.0	0.25 0.0	0.11 0.0	0.19 0.0	3.40 0.064	2.77 0.303	1.98 0.060	0.05 0.0	0.24 0.0	1.89 0.015	12.24 0.442

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	8-31	1.163	8-31	0.311	8-31	0.315	8-31	0.315	8-31	0.315	8-30	0.315	8-29	0.341	8-23	0.491
MAXIMUMS FOR PERIOD OF RECORD																
	8-13 1965	2.070	8-13 1965	0.530	8-13 1965	0.530	8-13 1965	0.530	8-13 1965	0.530	8-13 1965	0.530	8-13 1965	0.530	8-13 1965	0.530

NOTES: Watershed Conditions: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of about 25% and an understory of grasses with about 0.6% basal cover. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSOA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began January 1965. Monthly totals are values from gage No. 83. STA AV are based on 1965-1968 data. Runoff Data: Records began January 1965. STA AV are based on data for the record period 1965-1968. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED 63.103	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.07	0.0	0.0	1.02	0.05	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.09	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.08	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
7	0.40M	0.0	0.03	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
8	0.10M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.42	0.48M	0.22	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0		
10	0.10S	0.07	0.56M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.27	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.25	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.05	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32		
27	0.0	0.02	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.02	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0		
TOTAL	0.60	0.90	1.17	0.68	0.0	0.0	3.28	4.07	0.36	0.0	0.33	0.42		
STA AV	0.44	0.57	0.36	0.25	0.11	0.19	3.40	2.77	1.98	0.05	0.24	1.89		

NOTES: Data are values from gage No. 83. STA AV values are based on record period 1965-1968.

1968		MEAN DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA WATERSHED 63.103					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0005	0.0055	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.491	0.0	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.303	0.060	0.0	0.0	0.015	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.04250. STA AV based on record period 1965-1968.

TOMBSTONE, ARIZONA WATERSHED 63.111

LOCATION: Cochise County; 6-1/2 miles NW of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 143.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA WATERSHED 63.111	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.71	1.39	1.59	0.29	0.0	0.0	2.48	4.60	0.33	0.00	0.66	0.60	12.68
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.015	0.0	0.0	0.0	0.0	0.022
STA AV	P	0.56	0.43	0.39	0.14	0.03	0.15	3.89	2.43	2.51	0.16	0.61	1.00	12.29
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.421	0.156	0.360	0.0	0.0	0.0	0.937

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	8-31	0.025		7-20	0.006	7-24	0.006	7-24	0.006	7-24	0.006	7-24	0.006	7-23	0.006	8-23	0.012

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	7-22	2.900	7-22	0.830	7-22	0.830	7-22	0.830	7-22	0.840	7-22	0.840	9-10	1.340	9-10	1.450
	1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Representative of desert grassland. Vegetation dominated by short grasses (blue, sideots, black and hairy grammas and curly mesquite) with basal cover of approximately 2.5%. Shrubs present include soapweed, mesquite, and burroweed with a total canopy of approximately 20%. For topographic, geologic and vegetation maps see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1962. Monthly totals are Thiessen weighted average values from rain gage stations No. 61 and 82. STA AV are based on record period 1962-1968. Runoff Data: Records began 1962. STA AV are based on record period 1962-1968. Temperature Data: See table of maximum and minimum values included with the data for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records, at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED 63.111	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.33	0.04	0.0	0.0	0.06	0.13	0.13	0.00	0.0	0.0		
3	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.02	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.73	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.32	0.0	0.0	0.0	0.0		
7	0.26M	0.0	0.10	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0		
8	0.17M	0.0	0.18	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0		
9	0.0	0.40	0.41M	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.08S	0.38	0.50M	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.23	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.60	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.57	1.11	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04M		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38		
27	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.18		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0		
TOTAL	0.71	1.39	1.59	0.29	0.0	0.0	2.48	4.60	0.33	0.00	0.66	0.60		
STA AV	0.56	0.43	0.39	0.14	0.03	0.15	3.89	2.43	2.51	0.16	0.61	1.00		

NOTES: Data are Thiessen weighted values from rain gages No. 61 and 82. STA AV are based on record period 1962-1968.

1968		MEAN DAILY DISCHARGE (cfs)					TOMBSTONE, ARIZONA WATERSHED 63.111					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.003E	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0013	0.0030	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.015	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.421	0.156	0.360	0.0	0.0	0.0

NOTES: To convert mean daily discharge values in CFS to IN/DAY, multiply by 0.166445. STA AV are based on record period 1962-1968.

SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Guadalupe and Quay Counties; 30 miles east of Santa Rosa; Alamogordo Creek, Tributary of Pecos River.

AREA: 42880.00 acres 67.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													SANTA ROSA, NEW MEXICO WATERSHED W-1													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1968	P	0.69	0.16	0.77	0.65	0.45	0.51	4.33	1.78	0.11	0.65	0.51	0.10	10.71												
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0	0.039												
STA AV	P	0.69	0.16	0.77	0.65	0.46	0.51	4.33	1.78	0.11	0.65	0.51	0.10	10.71												
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0	0.039												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1968		7-25	0.012	7-25	0.011	7-25	0.017	7-25	0.023	7-25	0.025	7-25	0.025	7-24	0.028	7-18	0.029
MAXIMUMS FOR PERIOD OF RECORD																	
		7-25	0.012	7-25	0.011	7-25	0.017	7-25	0.023	7-25	0.025	7-25	0.025	7-24	0.028	7-18	0.029
		1968		1968		1968		1968		1968		1968		1968		1968	

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring molly. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are weighted averages of 63 rain gages. Precipitation and runoff records began in 1955. Data published prior to these for 1968 are being revised and will be republished in a later volume. STA AV values are based on the one year (1968) only. Topographic map of watershed has not been published. For long-time precipitation records, see D.S. Weather Bureau records at Santa Rosa, New Mexico.

1968 DAILY PRECIPITATION (inches)													SANTA ROSA, NEW MEXICO WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.06E	0.0	0.04	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
2	0.0	0.0	0.0	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0									
3	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.02	0.02E	0.49E	0.09	0.0	0.0	0.0	0.0	0.0									
4	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
5	0.0	0.0	0.0	0.0	0.0	0.0	0.99E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
6	0.0	0.0	0.0	0.0	0.0	0.0	0.71E	0.0	0.01	0.0	0.0	0.16E	0.0	0.0	0.0	0.0									
7	0.0	0.0	0.0	0.0	0.0	0.15	0.15E	0.01	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0									
8	0.03E	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
9	0.03E	0.0	0.0	0.0	0.00	0.0	0.15	0.33E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
10	0.0	0.0	0.56E	0.0	0.02E	0.0	0.01	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
11	0.0	0.0	0.09E	0.0	0.02	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
12	0.0	0.0	0.01	0.0	0.17	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
13	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
14	0.0	0.02	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0									
15	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
16	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0									
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0									
18	0.0	0.0	0.0	0.0	0.0	0.0	0.83E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0									
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
20	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
21	0.40E	0.00	0.0	0.0	0.0	0.0	0.34E	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
22	0.23E	0.02	0.0	0.29E	0.0	0.07E	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
23	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
24	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
25	0.0	0.0	0.0	0.0	0.0	0.12	0.36E	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
26	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
27	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
28	0.0	0.0	0.0	0.25E	0.22E	0.0	0.0	0.19E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
29	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.60E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
31	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.50E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
TOTAL	0.69	0.16	0.77	0.65	0.45	0.51	4.33	1.78	0.11	0.65	0.51	0.10	10.71												
STA AV	0.69	0.16	0.77	0.65	0.46	0.51	4.33	1.78	0.11	0.65	0.51	0.10	10.71												

NOTES: Daily values are Thiessen weighted average amounts from 63 rain gages. Precipitation records began in 1955. Data published prior to these for 1968 are being revised and will be republished in later volume. STA AV are based on 1968 data only.

1968 MEAN DAILY DISCHARGE (cfs) SANTA ROSA, NEW MEXICO WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.001E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	3.085E	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.001	0.003E	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0 E	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.380	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.890	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	5.275E	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	44.299	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	1.551	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.102	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.078	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.913	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0002	1.7902	0.4869	0.0008	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0

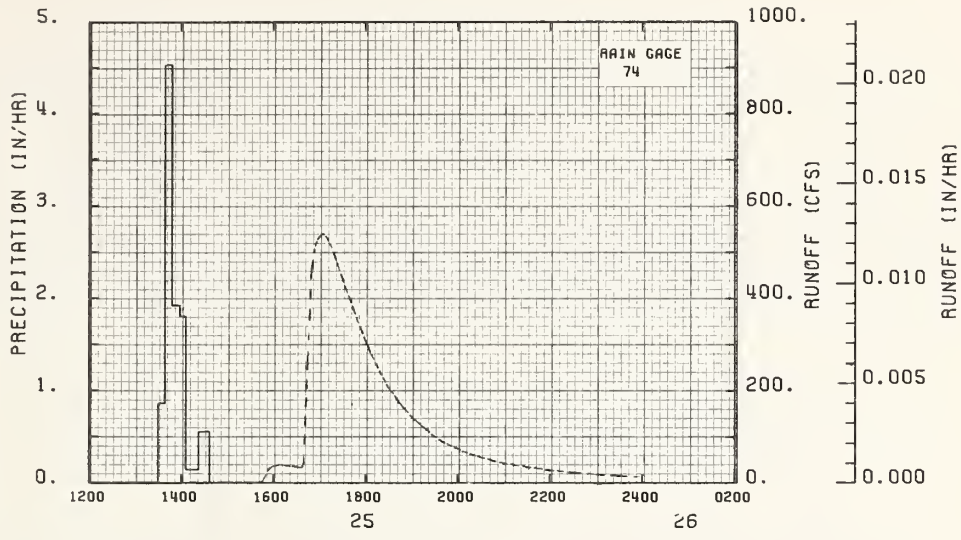
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000554. Runoff records started in 1955 but data published prior to these for 1968 are being revised and are to be republished in a later volume. STA AV are based on 1968 data only.

1968 SELECTED RUNOFF EVENT SANTA ROSA, NEW MEXICO WATERSHED W-1												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 25, 1968												
7-25	RG 74 0.0	0.001	7-25	RG 74 1330	0.0	0.0	7-25	1412	0.220	0.0		
				1339	0.8667	0.13		1415	0.250	0.0		
				1348	4.5333	0.81		1437	0.280	0.0		
				1358	1.9200	1.13		1445	0.310	0.0		
				1406	1.8000	1.37		1450	0.400	0.0		
				1423	0.1412	1.41		1455	0.500	0.0		
				1437	0.5571	1.54		1500	0.710	0.0		
								1505	0.830	0.0		
								1515	0.970	0.0		
								1527	1.050	0.0		
								1538	1.130	0.0		
								1543	1.220	0.0		
								1545	1.600	0.0		
								1550	14.400	0.0		
								1555	30.900	0.0		
								1600	36.500	0.0001		
								1605	37.900	0.0002		
								1607	38.600	0.0002		
								1613	37.900	0.0003		
								1618	35.800	0.0004		
								1630	33.900	0.0006		
								1633	33.300	0.0006		
								1638	33.300	0.0007		
								1640	45.000	0.0007		
								1645	266.000	0.0010		
								1650	465.000	0.0017		
								1655	518.000	0.0026		
								1700	534.000	0.0036		
								1705	540.000	0.0046		
								1710	529.000	0.0056		
								1715	513.000	0.0066		
								1720	491.000	0.0076		
								1725	465.000	0.0085		
								1730	442.000	0.0094		
								1735	417.000	0.0102		

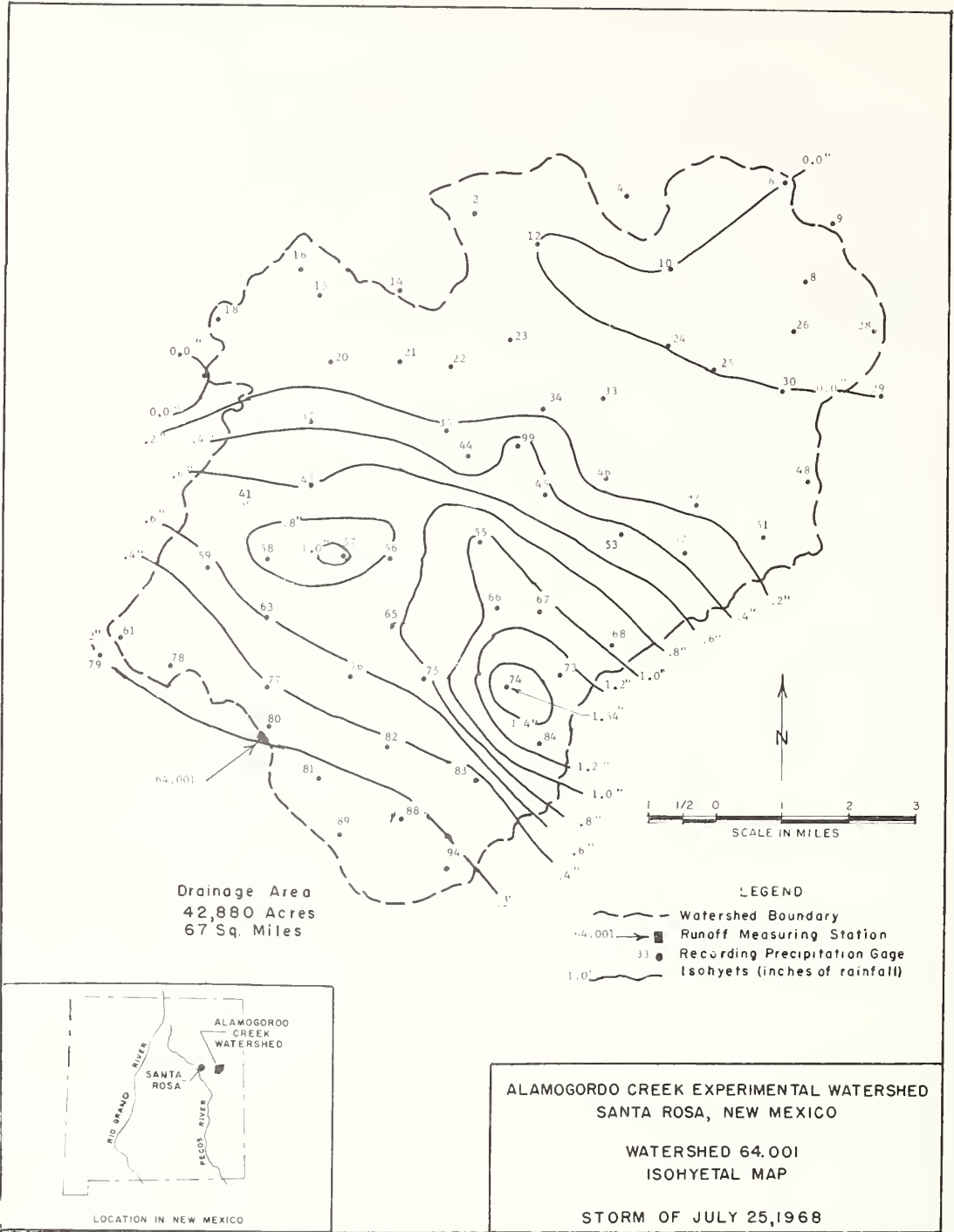
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231. For isohyetal map of event, see following page, as appropriate.

1968 SELECTED RUNOFF EVENT			SANTA ROSA, NEW MEXICO WATERSHED W-1								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 25, 1968 (CONTINUED)											
							7-25	1740	397.000	0.0110	
								1745	373.000	0.0118	
								1750	349.000	0.0125	
								1755	329.000	0.0131	
								1800	307.000	0.0137	
								1805	288.000	0.0143	
								1810	270.000	0.0148	
								1815	254.000	0.0153	
								1820	235.000	0.0158	
								1825	222.000	0.0162	
								1830	205.000	0.0166	
								1835	195.000	0.0170	
								1840	183.000	0.0174	
								1845	171.000	0.0178	
								1850	161.000	0.0181	
								1855	152.000	0.0184	
								1900	142.000	0.0187	
								1905	135.000	0.0190	
								1910	127.000	0.0192	
								1915	120.000	0.0194	
								1920	114.000	0.0196	
								1930	98.900	0.0200	
								1940	88.100	0.0204	
								1950	79.900	0.0207	
								2000	72.800	0.0210	
								2010	64.800	0.0213	
								2020	59.300	0.0215	
								2030	54.000	0.0217	
								2045	47.300	0.0220	
								2100	41.400	0.0223	
								2115	37.200	0.0225	
								2130	33.300	0.0227	
								2145	29.700	0.0229	
								2200	26.200	0.0231	
								2215	23.700	0.0232	
								2230	21.200	0.0233	
								2300	17.400	0.0235	
								2330	14.000	0.0237	
								2400	11.300	0.0238	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000231. For isohyetal map of event, see following page, as appropriate.



EVENT OF JULY 25, 1968
 SANTA ROSA, NEW MEXICO WATERSHED W-1



NEWELL, SDUTH DAKOTA WATERSHED W-2

LOCATIDN: Butte Co., South Dakota, 33 mi. NE of Newell, Sand Creek, South Moreau River Watershed.

AREA: 115.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.21	0.28	0.16	0.31	1.69	3.40	1.29	0.83	1.04	0.05	0.52	0.76	10.54
	O	0.0	0.100	0.0	0.0	0.002	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.103
STA AV	P	0.20	0.24	0.45	1.09	2.11	3.29	1.65	1.08	1.15	0.41	0.30	0.26	12.24
	O	0.009	0.073	0.136	0.009	0.100	0.091	0.100	0.000	0.009	0.0	0.0	0.0	0.528

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 19%, good - 64%, fair - 17%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.2-4. Precipitation from rain gage W-2A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	0.14S		
2	0.0	0.0	0.0	0.07S	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.02S		
3	0.0	0.0	0.0	0.03S	0.0	0.23	0.0	0.05	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15S	0.0		
5	0.03S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.02S	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.07S	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.07	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.10S	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.13S	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08S		
13	0.0	0.0	0.0	0.06S	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.08S	0.0	0.23	0.0	0.0	0.11	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.62	0.20	0.0	0.0	0.32	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.11	0.0	0.0	0.0	0.05S		
18	0.0	0.02S	0.08S	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.02S	0.02S		
19	0.0	0.11S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.01S		
20	0.0	0.02S	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.04S		
21	0.0	0.01S	0.0	0.10S	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.03S		
22	0.0	0.04S	0.0	0.02S	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.10		
23	0.0	0.0	0.0	0.0	0.0	0.94	0.01	0.50	0.0	0.0	0.0	0.0		
24	0.0	0.04S	0.0	0.0	0.0	0.70	0.19	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.11	0.01	0.0	0.0	0.0	0.0	0.10S		
26	0.10S	0.01S	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.02S	0.0	0.02S		
27	0.0	0.03S	0.0	0.03S	0.04	0.12	0.14	0.0	0.0	0.0	0.0	0.05S		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S		
29	0.0	0.0	0.0	0.0	0.0	0.17	0.61	0.0	0.0	0.0	0.0	0.03S		
30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.04S		
31	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		0.21	0.28	0.16	0.31	1.69	3.40	1.29	0.83	1.04	0.05	0.52	0.76	
STA AV		0.20	0.24	0.45	1.09	2.11	3.29	1.65	1.08	1.15	0.41	0.30	0.26	

NOTES: Precipitation from rain gage W-2A. STA AV based on 11 yr (1958-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA WATERSHED W-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.005	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.483	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0167	0.0	0.0	0.0003	0.0	0.0	0.0002	0.0	0.0	0.0	0.0
INCHES	0.0	0.100	0.0	0.0	0.002	0.0	0.0	0.001	0.0	0.0	0.0	0.0
STA AV	0.009	0.073	0.136	0.009	0.100	0.091	0.100	0.000	0.009	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.20697.

NEWELL, SOUTH DAKOTA WATERSHED W-5

LOCATION: Butte Co., South Dakota, 34 mi. NE of Newell, South Moreau River Watershed.

AREA: 46.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						NEWELL, SOUTH DAKOTA WATERSHED W-5							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P 0.16	0.18	0.25	1.29	3.05	6.39	3.56	3.38	2.03	0.06	0.82	0.86	22.03
	O 0.0	0.124	0.0	0.0	0.076	0.277	0.091	0.059	0.073	0.0	0.0	0.0	0.700
STA AV	P 0.24	0.30	0.60	1.44	2.65	4.47	1.81	1.53	1.15	0.40	0.34	0.37	15.28
	O 0.018	0.029	0.118	0.018	0.089	0.280	0.045	0.096	0.007	0.0	0.0	0.0	0.700

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 7%, good - 93%; Production of cover: 3400 pounds per acre of oven-dry material. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.5-4. Precipitation from rain gage W-5A. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968	DAILY PRECIPITATION (inches)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	0.21S
2	0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.03S
3	0.0	0.0	0.0	0.03S	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.35S	0.0
5	0.02S	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.07S	0.0
6	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.08S	0.0
7	0.0	0.0	0.0	0.08S	0.01	0.13	0.0	0.0	0.13	0.0	0.01S	0.0
8	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03	0.0	0.01S	0.0
9	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.12S	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.02S	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.11S	0.0
12	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06S
13	0.0	0.0	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.10S	0.01S	0.12	0.0	0.0	0.30	0.0	0.0	0.0	0.0
15	0.03S	0.0	0.0	0.0	1.76	0.74	0.0	0.13	0.60	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.19
17	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.40	0.0	0.0	0.0	0.09S
18	0.0	0.0	0.13S	0.0	0.02	0.0	0.0	0.45	0.0	0.0	0.01S	0.0
19	0.0	0.10S	0.0	0.07S	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0
20	0.0	0.0	0.0	0.0	0.02	0.52	0.0	0.0	0.0	0.0	0.0	0.01S
21	0.0	0.0	0.0	0.45S	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.02S
22	0.0	0.0	0.0	0.05S	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	1.53	0.0	2.10	0.0	0.0	0.0	0.0
24	0.0	0.03S	0.0	0.0	0.0	1.43	0.35	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.02S	0.0	0.0	0.02	0.12	0.0	0.0	0.0	0.03S	0.12S
26	0.0	0.02S	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.03S	0.0	0.02S
27	0.05S	0.0	0.0	0.43S	0.20	0.0	1.10	0.0	0.0	0.0	0.0	0.02S
28	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04S
29	0.0	0.0	0.0	0.0	0.13	0.52	0.93	0.0	0.0	0.0	0.0	0.01S
30	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.04S
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.16	0.18	0.25	1.29	3.05	6.39	3.56	3.38	2.03	0.06	0.82	0.86
STA AV	0.24	0.30	0.60	1.44	2.65	4.47	1.81	1.53	1.15	0.40	0.34	0.37

NOTES: Precipitation from rain gage W-5A. STA AV based on 11 yr (1958-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH OAKOTA WATERSHED W-5					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.139	0.0	0.0	0.0	0.048	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.093	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.008	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.301	0.0	0.106	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.104	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.089	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.236	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.002	0.170	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0083	0.0	0.0	0.0047	0.0178	0.0057	0.0037	0.0047	0.0	0.0	0.0
INCHES	0.0	0.124	0.0	0.0	0.076	0.277	0.091	0.059	0.073	0.0	0.0	0.0
STA AV	0.018	0.029	0.118	0.018	0.089	0.280	0.045	0.096	0.007	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CPS to IN/DAY, multiply by 0.51743.

NEWELL, SOUTH OAKOTA WATERSHED W-7

LOCATION: Butte Co., South Dakota, 35 mi. NE of Newell, Tributary Trail Creek, South Moreau Watershed.

AREA: 160.00 acres

		MONTHLY PRECIPITATION AND RUNOFF (inches)					NEWELL, SOUTH OAKOTA WATERSHED W-7							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.15	0.20	0.27	0.77	2.05	4.42	2.71	1.79	1.94	0.08	0.80	0.66	15.84
	O	0.001	0.007	0.099	0.0	0.0	0.021	0.041	0.0	0.017	0.0	0.0	0.0	0.186
STA AV	P	0.21	0.28	0.57	1.22	2.43	3.92	1.73	1.37	1.03	0.37	0.34	0.33	13.80
	O	0.018	0.019	0.136	0.018	0.036	0.111	0.031	0.018	0.002	0.0	0.0	0.0	0.390

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 82%, fair - 18%; Degree of grazing: moderate. Production of cover: 3000 pounds per acre of oven-dry material. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSOA Misc. Pub. 945, p. 65.7-4. Precipitation from rain gage W-7A. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968		DAILY PRECIPITATION (inches)					NEWELL, SOUTH OAKOTA WATERSHED W-7						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S	0.0	0.15S	
2	0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.05S	
3	0.0	0.0	0.0	0.03S	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.40S	
5	0.02S	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.07S	
6	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.08S	0.0	
7	0.0	0.0	0.0	0.02S	0.01	0.10	0.0	0.0	0.13	0.0	0.01S	0.0	
8	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.01S	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.13S	0.0	
10	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.02S	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	
12	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07S	
13	0.0	0.0	0.0	0.07S	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.05S	0.01S	0.12	0.0	0.0	0.19	0.0	0.0	0.0	0.0	
15	0.03S	0.0	0.0	0.0	0.85	0.57	0.0	0.03	0.60	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.46	0.0	0.0	0.0	0.09S	
18	0.0	0.0	0.20S	0.0	0.02	0.0	0.0	0.08	0.0	0.0	0.01S	0.0	
19	0.0	0.12S	0.0	0.06S	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.03S	
20	0.0	0.0	0.0	0.0	0.02	0.46	0.0	0.0	0.0	0.0	0.0	0.01S	
21	0.0	0.0	0.0	0.23S	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04S	
22	0.0	0.0	0.0	0.02S	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	
23	0.0	0.0	0.0	0.0	0.0	1.16	0.0	1.03	0.0	0.0	0.0	0.0	
24	0.0	0.03S	0.0	0.0	0.0	1.00	0.28	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.02S	0.0	0.0	0.02	0.13	0.0	0.0	0.0	0.03S	0.10S	
26	0.06S	0.02S	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.03S	0.0	0.02S	
27	0.0	0.0	0.0	0.30S	0.26	0.0	0.80	0.0	0.0	0.0	0.0	0.02S	
28	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	
29	0.0	0.0	0.0	0.0	0.0	0.26	0.73	0.0	0.0	0.0	0.0	0.01S	
30	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	
31	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.15	0.20	0.27	0.77	2.05	4.42	2.71	1.79	1.94	0.08	0.80	0.66
STA AV		0.21	0.28	0.57	1.22	2.43	3.92	1.73	1.37	1.03	0.37	0.34	0.33

NOTES: Precipitation from rain gage W-7A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.665	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.047	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.114	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.235	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.121	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0002	0.0016	0.0215	0.0	0.0	0.0047	0.0089	0.0	0.0038	0.0	0.0	0.0
INCHES	0.001	0.007	0.099	0.0	0.0	0.021	0.041	0.0	0.017	0.0	0.0	0.0
STA AV	0.018	0.019	0.136	0.018	0.036	0.111	0.031	0.018	0.002	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.14876.

NEWELL, SOUTH OAKOTA WATERSHED W-12

LOCATION: Butte Co., South Dakota, 9 mi. East of Newell, Belle Fourche River Watershed.

AREA: 90.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)		NEWELL, SOUTH OAKOTA WATERSHED W-12												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.17	0.25	0.32	1.00	1.25	3.39	1.47	0.91	1.77	0.14	0.54	0.56	11.77
	Q	0.017	0.042	0.301	0.005	0.004	0.017	0.007	0.0	0.0	0.0	0.005	0.0	0.398
STA AV	P	0.28	0.26	0.64	1.34	2.47	3.56	1.62	1.05	1.30	0.47	0.34	0.30	13.61
	Q	0.047	0.058	0.400	0.191	0.837	0.729	0.119	0.055	0.018	0.0	0.010	0.009	2.473

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 94%, fair - 6%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USOA Misc. Pub. 945, p. 65.12-4. Precipitation from rain gage W-12A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968		DAILY PRECIPITATION (inches)											
		NEWELL, SOUTH DAKOTA WATERSHED W-12											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S	0.0	0.22S	
2	0.0	0.0	0.0	0.06S	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05S	
3	0.0	0.0	0.0	0.34S	0.0	0.10	0.0	0.0	0.04	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.12S	0.0	
5	0.02S	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.05S	0.0	
6	0.0	0.0	0.0	0.02S	0.06	0.23	0.0	0.0	0.0	0.0	0.04S	0.0	
7	0.0	0.0	0.0	0.02S	0.0	0.11	0.0	0.0	0.05	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.06S	0.04	0.26	0.0	0.04	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.01S	0.0	0.0	0.44	0.0	0.01	0.0	0.0	0.24S	0.0	
10	0.0	0.0	0.03S	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.03S	0.06S	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.03S	
13	0.0	0.0	0.0	0.09S	0.01	0.12	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.09S	0.0	0.10	0.0	0.0	0.10	0.03	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.05	0.42	0.0	0.04	0.65	0.01S	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.72	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.22	0.0	0.0	0.0	0.04S	
18	0.0	0.01S	0.13S	0.0	0.01	0.23	0.0	0.11	0.0	0.0	0.0	0.0	
19	0.0	0.09S	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.07S	0.01S	
20	0.0	0.01S	0.0	0.0	0.04	0.15	0.0	0.0	0.0	0.0	0.0	0.01S	
21	0.0	0.0	0.0	0.29S	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.03S	
22	0.0	0.0	0.0	0.05S	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	
23	0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.37	0.0	0.0	0.0	0.0	
24	0.0	0.04S	0.0	0.0	0.0	0.40	0.28	0.0	0.0	0.0	0.0	0.0	
25	0.01S	0.01S	0.0	0.05	0.03	0.42	0.61	0.0	0.0	0.0	0.02S	0.05S	
26	0.07S	0.04S	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.09S	0.0	0.01S	
27	0.02S	0.0	0.0	0.0	0.10	0.0	0.30	0.0	0.0	0.0	0.0	0.04S	
28	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S	
29	0.0	0.0	0.0	0.0	0.05	0.05	0.03	0.0	0.0	0.0	0.0	0.01S	
30	0.0	0.0	0.0	0.0	0.02	0.0	0.05	0.0	0.0	0.0	0.0	0.02S	
31	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.17	0.25	0.32	1.00	1.25	3.39	1.47	0.91	1.77	0.14	0.54	0.56	
STA AV	0.28	0.26	0.64	1.34	2.47	3.56	1.62	1.05	1.30	0.47	0.34	0.30	

NOTES: Precipitation from rain gage W-12A. STA AV based on 11 yr (1958-68) record period.

1968		MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA WATERSHED W-12					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.291	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.019	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.064	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.068	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.310	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.144	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.072	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0021	0.0055	0.0367	0.0006	0.0005	0.0021	0.0009	0.0	0.0	0.0	0.0006	0.0
INCHES	0.017	0.042	0.301	0.005	0.004	0.017	0.007	0.0	0.0	0.0	0.005	0.0
STA AV	0.047	0.058	0.400	0.191	0.837	0.729	0.119	0.055	0.018	0.0	0.010	0.009

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.26446.

NEWELL, SOUTH OAKOTA WATERSHED W-13

LOCATION: Meade Co., South Dakota, 26 mi. East of Newell, South Fork Sulphur Creek, Cheyenne River Watershed.

AREA: 160.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NEWELL, SOUTH OAKOTA WATERSHED W-13	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0.19	0.23	0.33	0.74	1.87	5.06	0.99	0.96	1.48	0.07	0.37	0.52	12.81	
	Q 0.004	0.154	0.055	0.0	0.010	0.111	0.002	0.003	0.0	0.0	0.0	0.0	0.339	
STA AV	P 0.24	0.26	0.50	1.14	2.45	3.49	1.37	1.06	0.96	0.41	0.29	0.32	12.49	
	Q 0.000	0.069	0.214	0.027	0.319	0.337	0.000	0.000	0.0	0.0	0.0	0.0	0.967	

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 8%, good - 67%, fair - 25%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.13-4. Thiessen weighted precipitation from gages W-13B and W-13C. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)													NEWELL, SOUTH OAKOTA WATERSHED W-13	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.14S		
2	0.0	0.0	0.0	0.06S	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.03S	0.0	0.29	0.0	0.0	0.03	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.05S	0.0		
5	0.03S	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.06S	0.0		
6	0.0	0.0	0.0	0.0	0.06	0.48	0.0	0.0	0.0	0.0	0.06S	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.04	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.01S	0.0	0.0	0.57	0.0	0.01	0.0	0.0	0.16S	0.0		
10	0.0	0.0	0.02S	0.0	0.0	0.04	0.0	0.0	0.02S	0.0	0.0	0.0		
11	0.0	0.03S	0.03S	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.13S	0.01	0.10	0.0	0.0	0.0	0.0	0.0	0.07S		
14	0.0	0.0	0.06S	0.0	0.16	0.0	0.0	0.10	0.11	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.47	0.14	0.0	0.05	0.33	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.35	0.0	0.0	0.0	0.05S		
18	0.0	0.01S	0.16S	0.0	0.08	0.16	0.0	0.06	0.0	0.0	0.0	0.0		
19	0.0	0.10S	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	0.01S		
20	0.0	0.0	0.02S	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.01S		
21	0.0	0.0	0.0	0.30S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.03S		
22	0.0	0.0	0.0	0.17S	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.03S		
23	0.0	0.0	0.0	0.0	0.02	1.55	0.0	0.34	0.0	0.0	0.0	0.0		
24	0.0	0.05S	0.0	0.0	0.01	0.96	0.24	0.0	0.0	0.0	0.0	0.0		
25	0.02S	0.02S	0.0	0.05	0.0	0.23	0.04	0.0	0.0	0.0	0.02S	0.07S		
26	0.08S	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.02S	0.0	0.01S		
27	0.0	0.0	0.0	0.0	0.20	0.0	0.32	0.0	0.0	0.0	0.0	0.02S		
28	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S		
29	0.0	0.0	0.0	0.0	0.03	0.07	0.03	0.0	0.0	0.0	0.0	0.01S		
30	0.0	0.0	0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.04S		
31	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.19	0.23	0.33	0.74	1.87	5.06	0.99	0.96	1.48	0.07	0.37	0.52		
STA AV	0.24	0.26	0.50	1.14	2.45	3.49	1.37	1.06	0.96	0.41	0.29	0.32		

NOTES: Thiessen weighted precipitation from gages W-13B and W-13C. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-13												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.027	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.020	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.437	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.181	0.007	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.013	0.007	0.0	0.0	0.0	0.0	0.0
27	0.0	0.518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0009	0.0357	0.0119	0.0	0.0022	0.0249	0.0004	0.0007	0.0	0.0	0.0	0.0
INCHES	0.004	0.154	0.055	0.0	0.010	0.111	0.002	0.003	0.0	0.0	0.0	0.0
STA AV	0.000	0.069	0.214	0.027	0.319	0.337	0.000	0.000	0.0	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.14876.

NEWELL, SOUTH DAKOTA WATERSHED W-14

LOCATION: Butte Co., South Dakota, 16 mi. SE of Newell, Belle Fourche River Watershed.

AREA: 35.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-14
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P 0.19	0.36	0.54	0.95	1.10	3.63	2.02	1.08	1.72	0.13	0.62	0.98	13.32
	O 0.026	0.014	0.161	0.038	0.0	0.003	0.011	0.008	0.0	0.0	0.0	0.0	0.261
STA AV	P 0.40	0.31	0.69	1.70	2.37	3.29	1.77	1.10	1.19	0.51	0.39	0.41	14.15
	O 0.084	0.047	0.233	0.113	0.264	0.346	0.137	0.019	0.009	0.0	0.009	0.0	1.260

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 54%, fair - 46%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 65.14-4. Precipitation from rain gage W-14A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968	DAILY PRECIPITATION (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-14
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S	0.0	0.32S	
2	0.0	0.0	0.0	0.02S	0.10	0.0	0.0	0.0	0.33	0.0	0.0	0.08S	
3	0.0	0.0	0.0	0.18S	0.0	0.12	0.0	0.0	0.05	0.0	0.02S	0.0	
4	0.0	0.0	0.0	0.01S	0.0	0.13	0.0	0.24	0.0	0.0	0.02S	0.10S	
5	0.05S	0.0	0.0	0.01S	0.0	0.14	0.0	0.0	0.0	0.0	0.05S	0.01S	
6	0.0	0.0	0.0	0.0	0.05	0.20	0.0	0.0	0.0	0.0	0.05S	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.03	0.02S	0.03S	0.0	
8	0.0	0.0	0.0	0.03S	0.05	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.01S	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.32S	0.0	
10	0.0	0.0	0.01S	0.0	0.0	0.03	0.0	0.05	0.0	0.0	0.0	0.0	
11	0.0	0.08S	0.02S	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.20S	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.05S	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.01	0.35	0.0	0.03	0.49	0.01S	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.74	0.0	0.03S	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.42	0.0	0.0	0.0	0.01S	
18	0.0	0.01S	0.28S	0.0	0.03	0.15	0.0	0.0	0.0	0.0	0.05S	0.02S	
19	0.0	0.01S	0.12S	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01S	
20	0.0	0.01S	0.05S	0.0	0.04	0.20	0.0	0.0	0.0	0.0	0.0	0.01S	
21	0.0	0.0	0.0	0.25S	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.03S	
22	0.0	0.0	0.0	0.15S	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.15S	
23	0.0	0.02S	0.0	0.0	0.0	0.04	0.0	0.28	0.0	0.0	0.0	0.0	
24	0.0	0.15S	0.0	0.0	0.0	0.97	0.52	0.0	0.0	0.0	0.0	0.0	
25	0.06S	0.01S	0.0	0.03	0.0	0.53	0.34	0.0	0.0	0.0	0.05S	0.08S	
26	0.03S	0.07S	0.0	0.02	0.0	0.0	0.48	0.0	0.0	0.05S	0.0	0.02S	
27	0.02S	0.0	0.0	0.05	0.07	0.0	0.63	0.0	0.0	0.0	0.0	0.04S	
28	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	
29	0.0	0.0	0.0	0.0	0.05	0.15	0.0	0.0	0.0	0.0	0.0	0.02S	
30	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.06S	
31	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.19	0.36	0.54	0.95	1.10	3.63	2.02	1.08	1.72	0.13	0.62	0.98	
STA AV	0.40	0.31	0.69	1.70	2.37	3.29	1.77	1.10	1.19	0.51	0.39	0.41	

NOTES: Precipitation from rain gage W-14A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-14												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0
18	0.0	0.0	0.044	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0
19	0.0	0.0	0.104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.038	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.054	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.009	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0012	0.0007	0.0076	0.0019	0.0	0.0001	0.0005	0.0004	0.0	0.0	0.0	0.0
INCHES	0.026	0.014	0.161	0.038	0.0	0.003	0.011	0.008	0.0	0.0	0.0	0.0
STA AV	0.084	0.047	0.233	0.113	0.264	0.346	0.137	0.019	0.009	0.0	0.009	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/OAY, multiply by 0.68005.

NEWELL, SOUTH DAKOTA WATERSHED W-15

LOCATION: Butte Co., South Dakota, 16 mi. SE of Newell, Belle Fourche River Watershed.

AREA: 115.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														NEWELL, SOUTH DAKOTA WATERSHED W-15	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	0.26	0.28	0.62	0.80	1.08	3.53	2.05	1.04	1.55	0.11	0.52	0.83	12.67	
	O	0.071	0.042	0.076	0.039	0.0	0.023	0.008	0.002	0.0	0.0	0.0	0.0	0.261	
STA AV	P	0.44	0.28	0.72	1.69	2.47	3.33	1.86	1.07	1.17	0.54	0.40	0.38	14.34	
	O	0.070	0.022	0.116	0.122	0.345	0.293	0.155	0.009	0.009	0.0	0.009	0.0	1.151	

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 41%, fair - 59%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.35-4. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)														NEWELL, SOUTH DAKOTA WATERSHED W-15	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	0.26S			
2	0.0	0.0	0.0	0.02S	0.05	0.0	0.0	0.0	0.30	0.0	0.0	0.05S			
3	0.0	0.0	0.0	0.13S	0.0	0.0	0.0	0.0	0.02	0.0	0.02S	0.0			
4	0.0	0.0	0.0	0.01S	0.0	0.11	0.0	0.10	0.0	0.0	0.04S	0.09S			
5	0.04S	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.06S	0.01S			
6	0.0	0.0	0.0	0.04S	0.05	0.21	0.0	0.0	0.0	0.0	0.05S	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.01	0.02S	0.03S	0.0			
8	0.0	0.0	0.0	0.03S	0.03	0.0	0.0	0.03	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.01S	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.22S	0.0			
10	0.0	0.0	0.02S	0.0	0.0	0.03	0.0	0.04	0.0	0.0	0.0	0.0			
11	0.0	0.08S	0.05S	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.05S	0.02	0.08	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.09S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.01	0.40	0.0	0.03	0.61	0.01S	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.57	0.0	0.02S	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.57	0.0	0.0	0.0	0.01S			
18	0.0	0.01S	0.28S	0.0	0.03	0.22	0.0	0.0	0.0	0.0	0.04S	0.02S			
19	0.0	0.01S	0.12S	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01S			
20	0.0	0.01S	0.05S	0.0	0.04	0.11	0.0	0.0	0.0	0.0	0.0	0.01S			
21	0.0	0.0	0.0	0.35S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.03S			
22	0.0	0.0	0.0	0.03S	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.22S			
23	0.0	0.02S	0.0	0.0	0.01	0.03	0.0	0.23	0.0	0.0	0.0	0.0			
24	0.0	0.08S	0.0	0.0	0.0	0.98	0.48	0.0	0.0	0.0	0.0	0.0			
25	0.10S	0.01S	0.0	0.03	0.03	0.58	0.35	0.0	0.0	0.0	0.04S	0.02S			
26	0.07S	0.06S	0.0	0.03	0.0	0.0	0.49	0.0	0.0	0.05S	0.0	0.01S			
27	0.02S	0.0	0.0	0.08	0.10	0.0	0.68	0.0	0.0	0.0	0.0	0.04S			
28	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S			
29	0.0	0.0	0.0	0.0	0.05	0.13	0.0	0.0	0.0	0.0	0.0	0.01S			
30	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.03S			
31	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL		0.26	0.28	0.62	0.80	1.08	3.53	2.05	1.04	1.55	0.11	0.52	0.83		
STA AV		0.44	0.28	0.72	1.69	2.47	3.33	1.86	1.07	1.17	0.54	0.40	0.38		

NOTES: Precipitation from rain gage W-15A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED #15												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
18	0.0	0.0	0.135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.232	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.343	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.048	0.0	0.111	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0111	0.0070	0.0118	0.0063	0.0	0.0037	0.0012	0.0003	0.0	0.0	0.0	0.0
INCHES	0.071	0.042	0.076	0.039	0.0	0.023	0.008	0.002	0.0	0.0	0.0	0.0
STA AV	0.070	0.022	0.116	0.122	0.345	0.293	0.155	0.009	0.009	0.0	0.009	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CPS to IN/DAY, multiply by 0.20697.

345

NORTH DANVILLE, VERMONT WATERSHED W-1

LOCATION: Caledonia County, Vermont, 5 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.

AREA: 10611.20 acres 16.58 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													NORTH DANVILLE, VERMONT WATERSHED W-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37	46.52	
	O 0.767	0.713	3.580	4.308	2.007	1.541	0.744	0.291	0.383	0.564	1.261	1.239	17.398	
STA AV	P 2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58	44.66	
	O 0.867	0.799	1.696	6.052	2.410	0.909	0.492	0.406	0.425	1.352	1.545	1.338	18.289	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days					
	4-25	0.027	4-25	0.026	4-25	0.051	4-25	0.144	4-24	0.276	3-23	0.449	3-22	0.773	3-28	1.991

MAXIMUMS FOR PERIOD OF RECORD																
	10-24	0.100	10-24	0.100	10-24	0.200	10-24	0.500	10-24	0.780	10-24	1.150	10-24	1.450	4-12	3.860
	1959		1959		1959		1959		1959		1959		1959		1960	

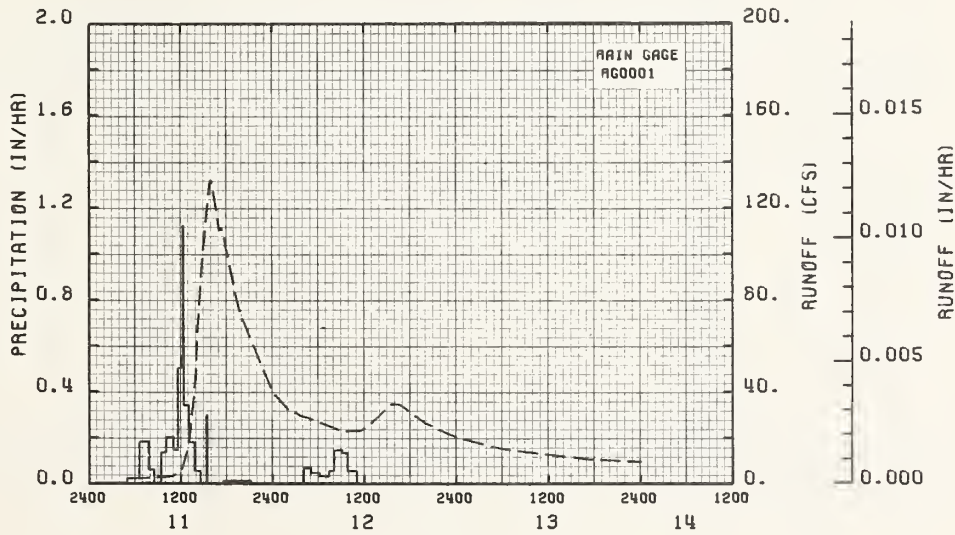
NOTES: Watershed conditions: Predominately hardwood forest, 64%; cultivated-16% in long hay rotations and about 1% in row crops, total 17%; pasture, largely bluegrass 15%; idle land in grass and woody plants, 3%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 67.1-4. Precipitation records began January 1, 1959. Runoff records began October 1959. Part year values not included in STA AV. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY AIR TEMPERATURE (degrees F)													NORTH DANVILLE, VERMONT WATERSHED W-1											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	18	-20	27	16	30	23	49	27	56	40	72	52	86	60	72	56	74	39	72	42	42	20	24	4
2	4	-27	41	29	26	10	40	25	54	40	62	53	77	56	74	52	75	51	72	49	47	30	29	20
3	12	-3	38	17	10	-2	48	28	56	38	68	53	69	52	76	46	68	53	66	52	46	34	32	25
4	19	10	18	10	32	4	50	30	47	40	69	48	71	46	79	52	68	45	54	37	43	24	32	24
5	13	-14	14	9	24	4	54	24	48	34	77	45	73	50	78	53	68	49	43	31	45	22	33	25
6	13	-13	20	8	29	-3	36	18	56	36	79	57	68	48	62	55	57	53	48	28	43	22	26	19
7	11	-13	19	4	20	-8	49	19	45	28	75	54	72	45	75	55	70	43	43	38	38	30	26	11
8	-13	-22	13	-2	33	-4	53	25	60	25	68	53	80	52	76	47	70	38	46	36	33	28	20	5
9	-7	-27	22	-11	45	22	50	35	63	42	62	52	83	53	71	59	70	40	54	30	36	28	8	-4
10	-1	-23	12	-1	38	22	47	30	62	42	55	48	66	50	70	49	67	50	50	28	30	29	6	-15
11	-2	-24	3	-13	36	14	49	30	66	36	54	47	77	43	60	45	59	56	52	36	32	27	12	-18
12	-9	-25	14	-14	28	3	64	28	56	46	68	52	78	54	69	40	61	43	60	35	28	22	33	8
13	22	-12	1	-14	26	15	72	38	68	42	67	55	79	54	76	45	52	46	60	33	31	27	40	30
14	24	-7	12	1	22	0	73	41	70	38	72	46	82	55	79	52	60	40	62	28	26	20	35	30
15	32	4	14	-2	38	-2	55	40	74	40	87	48	86	62	61	45	66	34	68	39	30	21	30	8
16	3	-21	15	-3	49	31	54	42	74	43	62	50	84	64	64	38	75	41	75	43	30	18	8	4
17	8	-24	24	1	41	36	62	40	58	50	54	48	86	65	76	54	76	50	72	40	22	16	13	4
18	25	-5	10	-2	46	37	63	33	55	48	67	46	86	66	62	37	74	50	73	49	33	22	24	12
19	32	10	9	-7	58	36	64	38	53	46	66	44	84	65	65	33	79	45	59	47	36	26	24	12
20	30	21	6	-12	46	36	52	42	47	38	54	40	70	50	68	52	78	49	58	40	26	20	26	18
21	31	12	-4	-14	43	36	66	40	54	37	62	40	74	46	66	53	78	50	47	40	25	17	29	24
22	22	-3	16	-16	38	31	62	48	56	36	64	40	82	55	59	40	74	54	56	32	34	24	27	22
23	27	16	12	-4	38	28	59	40	56	38	61	51	72	53	69	34	70	48	57	33	32	19	31	24
24	14	-6	22	-12	28	19	51	38	60	34	59	50	63	49	70	53	70	44	55	29	40	26	26	-5
25	10	-10	25	-3	30	12	52	38	55	43	70	54	73	58	81	58	71	57	48	41	34	23	15	-16
26	22	0	28	-6	47	12	44	31	54	38	60	51	73	47	61	44	65	52	41	35	24	10	-9	-24
27	34	-4	26	-5	50	30	38	33	66	34	56	50	75	45	53	37	64	42	45	30	28	12	5	-26
28	30	18	34	11	52	26	44	30	72	33	56	46	73	52	54	46	59	41	43	33	30	6	28	-1
29	26	22	36	26	60	33	54	26	58	34	70	47	61	44	60	38	49	34	41	30	42	20	30	4
30	34	26			44	32	60	32	71	48	78	56	64	39	66	37	52	31	35	30	22	9	16	-6
31	31	16			61	26			70	48			73	37	69	40			32	28			16	-8
1 AY	16	-4	17	0	37	18	52	32	59	39	63	47	75	52	68	46	65	44	54	36	32	21	22	6
MEAN	6.0		8.4		27.9		42.0		49.3		55.7		63.8		57.6		54.7		45.4		26.8		14.6	
STA AV	23	4	24	3	35	15	47	28	59	38	72	47	75	52	72	49	65	42	54	35	39	22	25	9

NOTES: Temperature data is from R-12 station. Readings taken daily from hygrothermograph charts. STA AV based on 1960-68 record period.

1968 SELECTED RUNOFF EVENT				NORTH DANVILLE, VERMONT WATERSHED W-1						
ANTECEDENT CONDITIONS				RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 13, 1968										
9-11	0.0	0.001	9-11	455	0.0	0.0	9-11	631	2.35	0.0
				634	0.0242	0.04		802	2.84	0.0004
				746	0.1833	0.26		847	3.02	0.0006
				826	0.0600	0.30		940	3.02	0.0008
				921	0.0	0.30		1045	3.39	0.0011
WATERSHED CONDITIONS:										
Forest land, 64%; hay, 16%;			1000	0.1385	0.39		1200	5.66	0.0016	
pastured land, 15%; idle			1059	0.2034	0.59		1253	15.18	0.0025	
land with dense grass and			1136	0.1459	0.68		1319	26.66	0.0033	
brush growth, 3%; seeded to			1201	0.5040	0.89		1341	38.79	0.0044	
corn, 1%; and homesites, 1%.			1214	0.5538	1.01		1356	45.91	0.0054	
			1222	1.1250	1.16		1406	63.56	0.0063	
			1301	0.3385	1.38		1419	74.34	0.0077	
			1345	0.1773	1.51		1456	102.09	0.0128	
			1430	0.0533	1.55		1549	131.78	0.0225	
			1519	0.0	1.55		1601	131.78	0.0250	
			1527	0.3000	1.59		1704	109.88	0.0369	
			1732	0.0	1.59		1717	111.48	0.0391	
			1900	0.0136	1.61		1758	102.09	0.0459	
			2109	0.0140	1.64		1941	74.34	0.0600	
			9-12	400	0.0	1.64	2400	39.64	0.0830	
			500	0.0700	1.71		9-12	223	30.88	0.0909
			606	0.0455	1.76		252	30.88	0.0923	
			722	0.0316	1.80		334	29.43	0.0943	
			804	0.0571	1.84		600	26.66	0.1007	
			905	0.1475	1.99		856	22.80	0.1075	
			946	0.1317	2.08		1117	22.80	0.1125	
			1104	0.0538	2.15		1234	25.33	0.1154	
							1428	31.62	0.1205	
							1527	34.70	0.1236	
							1618	34.70	0.1263	
							1703	33.14	0.1287	
							2000	25.99	0.1369	
							2400	19.86	0.1455	
							9-13	600	14.71	0.1552
							1200	12.48	0.1628	
							1715	10.46	0.1684	
							2400	9.36	0.1747	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000935. For 30-day antecedent rainfall and runoff, see tables of daily values.



EVENT OF SEPTEMBER 11 - 13, 1968
NORTH DANVILLE, VERMONT WATERSHED W-1

NORTH DANVILLE, VERMONT WATERSHED W-2

LOCATION: Caledonia County, Vermont; 5 mi. NW of St. Johnsbury; unnamed tributary of Sleepers River, Connecticut River basin.

AREA: 146.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NORTH DANVILLE, VERMONT WATERSHED W-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	F 1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64	
	O 0.424	0.361	0.782	0.888	0.687	0.510	0.214	0.180	0.104	0.217	0.233	0.300	4.898	
STA AV	P 1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13	
	O 0.726	0.666	1.815	3.383	1.860	0.924	0.534	0.396	0.325	0.670	1.031	1.119	13.450	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	3-26	0.003	3-26	0.003	3-26	0.007	3-30	0.019	3-30	0.033	3-29	0.063	3-29	0.115	3-24	0.395
MAXIMUMS FOR PERIOD OF RECORD																
	3-5	0.080	3-5	0.080	3-5	0.160	3-5	0.390	3-5	0.580	3-6	0.830	3-30	1.140	3-28	2.540
	1964		1964		1964		1964		1964		1964		1962		1962	

NOTES: Watershed conditions: Pasture of mostly bluegrass, 38%; cultivated land entirely in clover and orchard grass hay, 37%; and forest stand, predominantly hardwoods, 25%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSA Misc. Pub. 945, p. 67.2-4. Precipitation records began Sept. 1958. Runoff records began October 1958. Part year values not included in station average. For long-time precipitation records, see O.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY PRECIPITATION (inches)													NORTH DANVILLE, VERMONT WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0		
2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11		
3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.04	0.04	0.34	0.0	0.04		
4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05		
5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35		
6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18		
7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01		
8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01		
9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01		
10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0		
11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0		
12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0		
13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0		
14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29		
15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48		
16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05		
17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01		
18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0		
19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14		
20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45		
21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0		
22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05		
23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52		
24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03		
25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02		
26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0		
27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0		
28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05		
29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04		
30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89		
STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77		

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period (1959-1968).

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.094	0.075	0.063	0.292	0.137	0.121	0.114	0.022	0.016	0.031	0.041	0.065
2	0.094	0.108	0.062	0.256	0.130	0.119	0.054	0.033	0.015	0.030	0.038	0.067
3	0.094	0.193	0.059	0.244	0.128	0.111	0.045	0.047	0.015	0.035	0.016	0.066
4	0.094	0.102	0.059	0.271	0.157	0.107	0.070	0.043	0.015	0.052	0.015	0.098
5	0.094	0.093	0.059	0.268	0.129	0.101	0.069	0.041	0.014	0.054	0.014	0.161
6	0.094	0.088	0.059	0.207	0.120	0.094	0.106	0.044	0.019	0.040	0.029	0.094
7	0.094	0.084	0.057	0.199	0.113	0.090	0.050	0.048	0.017	0.097	0.041	0.053
8	0.094	0.079	0.058	0.199	0.110	0.087	0.060	0.040	0.014	0.059	0.095	0.024
9	0.094	0.078	0.059	0.190	0.123	0.174	0.072	0.052	0.012	0.046	0.064	0.027
10	0.090	0.078	0.061	0.184	0.126	0.181	0.119	0.045	0.013	0.042	0.067	0.022
11	0.084	0.075	0.061	0.167	0.111	0.126	0.031	0.033	0.066	0.046	0.064	0.021
12	0.084	0.071	0.059	0.160	0.123	0.131	0.027	0.032	0.035	0.041	0.052	0.021
13	0.084	0.071	0.059	0.153	0.112	0.114	0.026	0.021	0.021	0.039	0.056	0.021
14	0.084	0.071	0.059	0.149	0.100	0.123	0.024	0.020	0.018	0.036	0.051	0.029
15	0.084	0.071	0.059	0.217	0.096	0.149	0.024	0.028	0.016	0.034	0.047	0.026
16	0.082	0.070	0.086	0.170	0.094	0.113	0.024	0.029	0.015	0.034	0.047	0.021
17	0.079	0.066	0.202	0.144	0.214	0.140	0.040	0.067	0.014	0.033	0.048	0.021
18	0.079	0.066	0.248	0.137	0.163	0.113	0.033	0.045	0.013	0.019	0.051	0.020
19	0.079	0.066	0.164	0.134	0.195	0.075	0.038	0.034	0.013	0.018	0.046	0.019
20	0.079	0.066	0.125	0.127	0.247	0.044	0.029	0.044	0.011	0.021	0.022	0.044
21	0.079	0.064	0.116	0.127	0.163	0.034	0.024	0.052	0.010	0.026	0.020	0.079
22	0.079	0.059	0.186	0.127	0.178	0.037	0.022	0.042	0.011	0.040	0.019	0.079
23	0.079	0.059	0.354	0.118	0.147	0.037	0.021	0.036	0.009	0.038	0.019	0.084
24	0.078	0.059	0.300	0.168	0.132	0.048	0.024	0.037	0.010	0.036	0.021	0.084
25	0.075	0.059	0.284	0.207	0.123	0.069	0.023	0.075	0.041	0.050	0.024	0.081
26	0.075	0.059	0.323	0.165	0.117	0.108	0.018	0.016	0.046	0.048	0.019	0.077
27	0.075	0.059	0.261	0.218	0.116	0.094	0.020	0.014	0.038	0.039	0.034	0.075
28	0.075	0.059	0.282	0.158	0.109	0.119	0.043	0.015	0.035	0.086	0.084	0.093
29	0.075	0.065	0.271	0.145	0.125	0.131	0.023	0.015	0.034	0.064	0.204	0.099
30	0.075		0.372	0.142	0.133	0.142	0.019	0.016	0.033	0.049	0.085	0.084
31	0.075		0.328		0.141		0.019	0.016		0.043		0.084
MEAN	0.0838	0.0763	0.1546	0.1815	0.1358	0.1044	0.0423	0.0355	0.0213	0.0429	0.0477	0.0593
INCHES	0.424	0.361	0.782	0.888	0.687	0.510	0.214	0.180	0.104	0.217	0.233	0.300
STA AV	0.726	0.666	1.815	3.383	1.860	0.924	0.534	0.396	0.325	0.670	1.031	1.119

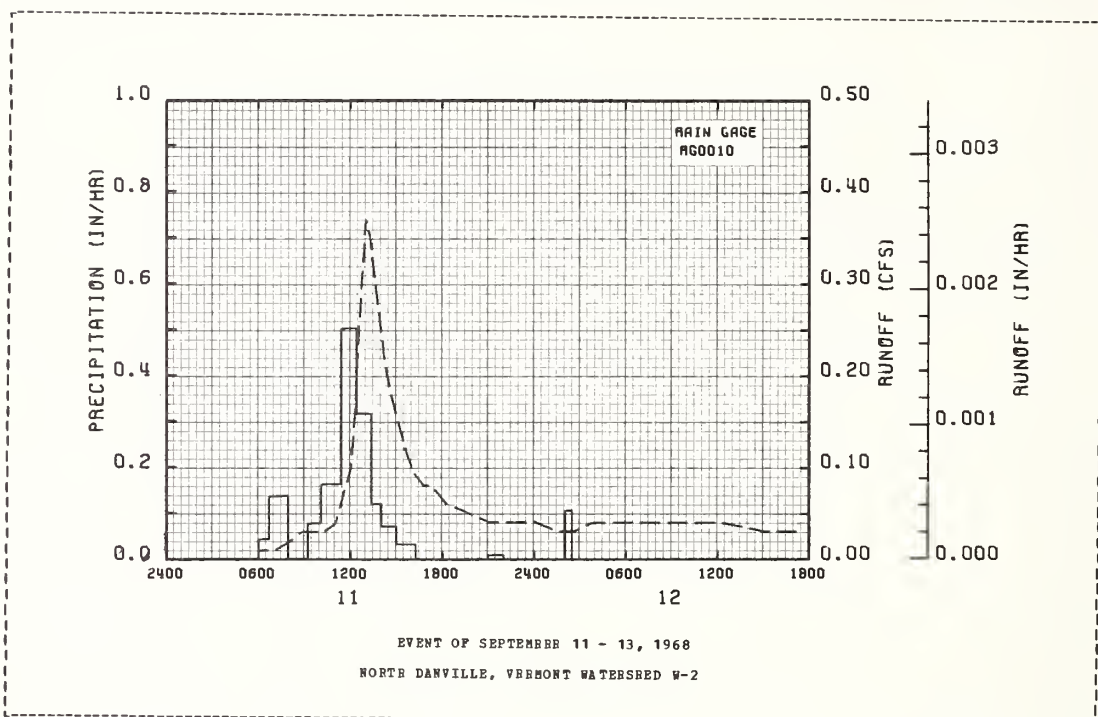
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.1630248. STA AV based on 10 yr record period (1959-1968).

1968 SELECTED RUNOFF EVENT NORTH DANVILLE, VERMONT WATERSHED W-2												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 11 - 13, 1968												
9-11	RG 10 0.0	0.001	9-11	RG 10 558	0.0	0.0	9-11	600	0.01	0.0		
				639	0.0439	0.03		700	0.01	0.0001		
				753	0.1378	0.20		800	0.02	0.0002		
				910	0.0	0.20		845	0.03	0.0003		
				1003	0.0792	0.27		1015	0.03	0.0006		
				1120	0.1636	0.48		1100	0.04	0.0008		
				1222	0.5032	1.00		1200	0.10	0.0013		
				1319	0.3158	1.30		1215	0.15	0.0015		
				1359	0.1200	1.38		1230	0.24	0.0018		
				1458	0.0712	1.45		1245	0.31	0.0023		
				1614	0.0316	1.49		1300	0.37	0.0029		
				2059	0.0	1.49		1315	0.35	0.0035		
				2159	0.0100	1.50		1345	0.28	0.0046		
			9-12	200	0.0	1.50		1415	0.21	0.0054		
				228	0.1071	1.55		1445	0.17	0.0060		
								1515	0.14	0.0065		
								1545	0.11	0.0069		
								1615	0.09	0.0073		
								1645	0.08	0.0076		
								1715	0.08	0.0079		
								1745	0.07	0.0081		
								1815	0.06	0.0083		
								2100	0.04	0.0093		
								2400	0.04	0.0101		
							9-12	130	0.03	0.0105		
								230	0.03	0.0107		
								345	0.04	0.0110		
								600	0.04	0.0116		
								715	0.04	0.0119		
								900	0.04	0.0124		
								1000	0.04	0.0127		
								1115	0.04	0.0131		
								1200	0.04	0.0133		
								1500	0.03	0.0140		
								1630	0.03	0.0143		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.006793. For 30-day antecedent rainfall and runoff, see tables of daily amounts.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 11 - 13, 1968 (CONTINUED)										
							9-12	1815	0.03	0.0146
								2400	0.03	0.0157
							9-13	600	0.02	0.0167
								1200	0.02	0.0176
								1800	0.02	0.0184
								2400	0.02	0.0192

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.006793. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



NORTH DANVILLE, VERMONT WATERSHED W-3

LOCATION: Caledonia County, Vermont; 7.5 mi. NW of St. Johnsbury; Pope Brook, Sleepers River, Connecticut River Basin.

AREA: 2067.00 acres 3.23 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-3															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37	46.52															
	O	1.182	1.046	3.398	5.427	2.612	1.919	1.144	0.715	0.703	0.909	1.390	1.535	21.980															
STA AV	P	2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58	44.66															
	O	0.985	0.854	1.622	6.523	3.499	1.502	0.865	0.746	0.700	1.257	1.488	1.317	21.358															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	4-25	0.027		4-25	0.026	4-25	0.052	4-25	0.140	4-24	0.266	4-24	0.431	3-31	0.634	3-29	2.208

MAXIMUMS FOR PERIOD OF RECORD																	
Date	Maximum Discharge Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1963	4-21	0.070		4-21	0.070	4-21	0.130	4-14	0.320	4-14	0.590	4-15	1.080	4-16	1.860	4-20	4.440

NOTES: Watershed conditions: Forest, predominantly hardwoods, 67%; pasture of mostly bluegrass, 19%; cultivated land consisting of clover, orchard grass, and timothy hay with very small area in row crops, 11%; and idle land in tall grasses and woody plants, 3%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, OSDA Misc. Pub. 994, p. 67.3-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U. S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY PRECIPITATION (inches)														NORTH DANVILLE, VERMONT WATERSHED W-3													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.35	0.29	0.0	0.0	0.02	0.24	0.0	0.0	0.06	0.0	1	0.0	0.0	0.35	0.29	0.0	0.0	0.02	0.24	0.0	0.06	0.0			
2	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.01	0.07	0.0	0.04	0.10	2	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.01	0.07	0.0	0.04	0.10		
3	0.12	0.35	0.03	0.0	0.03	0.02	0.0	0.0	0.03	0.40	0.0	0.02	3	0.12	0.35	0.03	0.0	0.03	0.02	0.0	0.0	0.03	0.40	0.0	0.02		
4	0.15	0.04	0.0	0.14	0.17	0.10	0.0	0.0	0.0	0.49	0.0	1.22	4	0.15	0.04	0.0	0.14	0.17	0.10	0.0	0.0	0.49	0.0	1.22	0.0		
5	0.07	0.06	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.59	5	0.07	0.06	0.0	0.27	0.0	0.0	0.0	0.0	0.32	0.0	0.59	0.0		
6	0.0	0.05	0.0	0.0	0.0	0.0	0.31	0.05	0.45	0.0	0.0	0.10	6	0.0	0.05	0.0	0.0	0.0	0.31	0.05	0.45	0.0	0.0	0.10	0.0		
7	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.49	0.29	0.01	7	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.49	0.29	0.01		
8	0.01	0.0	0.0	0.01	0.0	0.0	0.01	0.05	0.0	0.04	0.62	0.0	8	0.01	0.0	0.0	0.01	0.0	0.0	0.01	0.05	0.0	0.04	0.62	0.0		
9	0.0	0.0	0.0	0.10	0.33	1.03	0.71	0.49	0.0	0.0	0.04	0.01	9	0.0	0.0	0.0	0.10	0.33	1.03	0.71	0.49	0.0	0.0	0.04	0.01		
10	0.0	0.22	0.0	0.09	0.0	0.41	0.64	0.08	0.0	0.0	0.35	0.04	10	0.0	0.22	0.0	0.09	0.0	0.41	0.64	0.08	0.0	0.0	0.35	0.04		
11	0.0	0.18	0.0	0.08	0.0	0.0	0.0	0.0	1.64	0.14	0.01	0.0	11	0.0	0.18	0.0	0.08	0.0	0.0	0.0	0.0	1.64	0.14	0.01	0.0		
12	0.0	0.02	0.49	0.0	0.23	0.19	0.0	0.0	0.51	0.0	0.26	0.03	12	0.0	0.02	0.49	0.0	0.23	0.19	0.0	0.0	0.51	0.0	0.26	0.03		
13	0.0	0.07	0.47	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.54	0.0	13	0.0	0.07	0.47	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.54	0.0	
14	0.01	0.10	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.04	0.29	14	0.01	0.10	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.0	0.04	0.29	
15	0.23	0.22	0.0	0.40	0.0	0.46	0.0	0.0	0.0	0.0	0.35	0.58	15	0.23	0.22	0.0	0.40	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.35	0.58	
16	0.0	0.0	0.04	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.05	0.09	16	0.0	0.0	0.04	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.09	
17	0.0	0.11	0.76	0.0	0.79	0.09	0.0	0.75	0.0	0.0	0.01	0.08	17	0.0	0.11	0.76	0.0	0.79	0.09	0.0	0.0	0.0	0.75	0.0	0.0	0.01	
18	0.0	0.12	0.14	0.0	0.46	0.01	0.0	0.0	0.0	0.0	1.07	0.01	18	0.0	0.12	0.14	0.0	0.46	0.01	0.0	0.0	0.0	0.0	0.0	1.07	0.01	
19	0.14	0.04	0.0	0.0	0.13	0.40	0.12	0.0	0.56	0.30	0.11	0.0	19	0.14	0.04	0.0	0.0	0.13	0.40	0.12	0.0	0.0	0.56	0.30	0.11	0.0	
20	0.0	0.04	0.0	0.0	0.91	0.17	0.0	1.51	0.0	0.26	0.38	0.0	20	0.0	0.04	0.0	0.0	0.91	0.17	0.0	0.0	1.51	0.0	0.26	0.38	0.0	
21	0.10	0.01	0.13	0.0	0.0	0.02	0.0	0.03	0.0	0.0	0.02	0.0	21	0.10	0.01	0.13	0.0	0.0	0.0	0.02	0.0	0.03	0.0	0.0	0.02	0.0	
22	0.0	0.13	0.50	0.0	0.03	0.14	0.0	0.0	0.0	0.0	0.31	0.08	22	0.0	0.13	0.50	0.0	0.03	0.14	0.0	0.0	0.0	0.0	0.0	0.31	0.08	
23	0.25	0.04	0.84	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.04	0.53	23	0.25	0.04	0.84	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.05	0.04	0.53	
24	0.0	0.0	0.25	1.51	0.0	0.37	0.06	0.13	0.0	0.0	0.14	0.15	24	0.0	0.0	0.25	1.51	0.0	0.37	0.06	0.13	0.0	0.0	0.0	0.14	0.15	
25	0.0	0.0	0.02	0.75	0.0	0.02	0.03	0.44	0.59	0.46	0.09	0.04	25	0.0	0.0	0.02	0.75	0.0	0.02	0.03	0.44	0.59	0.46	0.09	0.04	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.01	0.0	0.08	0.04	0.0	26	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.01	0.0	0.0	0.08	0.04	0.0	
27	0.0	0.0	0.0	0.43	0.0	0.01	0.08	0.0	0.06	0.0	0.14	0.01	27	0.0	0.0	0.0	0.43	0.0	0.01	0.08	0.0	0.0	0.06	0.0	0.14	0.01	
28	0.11	0.0	0.0	0.02	0.0	0.21	0.60	0.0	0.08	0.57	0.84	0.04	28	0.11	0.0	0.0	0.02	0.0	0.21	0.60	0.0	0.08	0.57	0.84	0.04		
29	0.14	0.11	0.0	0.0	0.16	0.70	0.02	0.0	0.02	0.05	0.39	0.04	29	0.14	0.11	0.0	0.0	0.16	0.70	0.02	0.0	0.02	0.05	0.39	0.04	0.0	
30	0.25	0.0	0.0	0.0	0.12	0.36	0.0	0.0	0.0	0.04	0.02	0.0	30	0.25	0.0	0.0	0.0	0.12	0.36	0.0	0.0	0.0	0.0	0.04	0.02	0.0	
31	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	31	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
TOTAL	2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37	TOTAL	2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37		
STA AV	2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58	STA AV	2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58		

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period.

1968		MEAN DAILY DISCHARGE (cfs)										NORTH DANVILLE, VERMONT WATERSHED W-3											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	3.968	2.957	2.523	30.905	8.612	4.796	7.595	1.858	1.372	1.475	2.280	4.974											
2	4.226	3.628	2.582	19.381	7.942	4.626	4.588	1.826	1.292	1.445	2.529	4.845											
3	4.240	8.220	2.410	19.508	7.729	4.640	3.810	1.671	1.393	1.568	2.278	4.543											
4	3.946	4.476	2.410	21.678	8.724	4.153	3.471	1.557	1.352	3.014	2.235	4.920											
5	3.851	4.015	2.464	32.173	7.224	3.816	3.170	1.493	1.375	4.997	2.140	7.959											
6	3.684	3.796	2.404	19.045	6.535	3.434	4.278	1.557	2.084	2.569	2.126	5.451											
7	3.696	3.479	2.362	17.866	6.046	3.322	3.572	1.731	2.138	4.531	2.138	4.861											
8	3.361	3.391	2.464	18.140	5.944	3.130	3.061	1.521	1.479	3.803	3.175	4.975											
9	3.485	3.233	2.464	18.539	6.178	7.419	2.780	1.869	1.357	2.702	2.865	4.174											
10	3.397	3.831	2.464	16.959	7.140	12.546	9.440	2.007	1.311	2.251	2.814	4.245											
11	3.361	3.314	2.464	14.667	5.674	5.829	4.596	1.537	8.943	2.389	2.720	4.100											
12	3.361	3.139	2.464	13.924	5.971	6.229	3.436	1.335	6.205	2.208	2.575	4.038											
13	3.258	2.968	2.464	14.414	5.650	5.410	2.990	1.295	3.351	2.086	2.665	4.100											
14	3.224	2.861	2.464	13.752	4.952	4.601	2.639	1.263	2.359	1.968	2.595	4.958											
15	3.156	2.720	2.334	15.312	4.626	6.311	2.412	1.258	1.969	1.875	2.546	4.853											
16	3.122	2.720	2.869	14.881	4.386	6.477	2.276	1.277	1.783	1.904	2.639	4.381											
17	3.106	3.000	10.491	11.091	11.523	5.049	4.243	2.306	1.629	1.804	2.478	4.042											
18	3.036	2.496	9.110	10.005	8.412	4.643	3.812	2.287	1.508	1.719	4.205	3.946											
19	2.957	2.622	12.783	9.233	14.017	4.904	2.860	1.651	1.445	2.159	12.737	3.946											
20	2.957	2.553	13.399	8.509	18.503	6.688	2.510	4.849	1.370	3.705	5.397	4.002											
21	3.007	2.459	13.903	7.906	11.408	4.761	2.117	4.655	1.319	2.139	4.123	3.758											
22	3.076	2.485	23.158	7.727	8.316	4.618	1.999	2.127	1.220	2.001	3.889	3.647											
23	3.224	2.355	23.613	7.169	7.111	4.536	1.845	1.929	1.163	1.916	3.575	3.979											
24	3.154	2.348	23.252	16.383	6.443	5.657	2.003	1.895	1.267	1.879	3.994	3.899											
25	3.108	2.348	13.039	31.689	5.974	6.492	1.991	4.946	2.588	2.681	5.613	3.744											
26	2.845	2.348	12.071	13.223	5.554	5.039	1.740	2.539	1.980	2.528	4.055	3.450											
27	2.829	2.348	14.564	15.388	5.054	4.626	1.622	1.775	1.488	2.054	3.907	3.361											
28	2.909	2.348	16.827	12.531	4.849	5.045	2.695	1.626	1.392	4.052	4.102	3.531											
29	3.073	2.348	21.817	10.098	5.001	7.969	2.206	1.546	1.455	4.180	15.715	3.875											
30	3.089		23.446	9.216	5.451	9.922	1.858	1.471	1.445	2.884	6.582	3.361											
31	2.974		24.020		5.909		1.708	1.427		2.486		3.361											
MEAN	3.312	3.131	9.519	15.710	7.318	5.556	3.204	2.003	2.034	2.548	4.023	4.299											
INCHES	1.182	1.046	3.398	5.427	2.612	1.919	1.144	0.715	0.703	0.909	1.390	1.535											
STA AV	0.985	0.854	1.622	6.523	3.499	1.502	0.865	0.746	0.700	1.257	1.488	1.317											

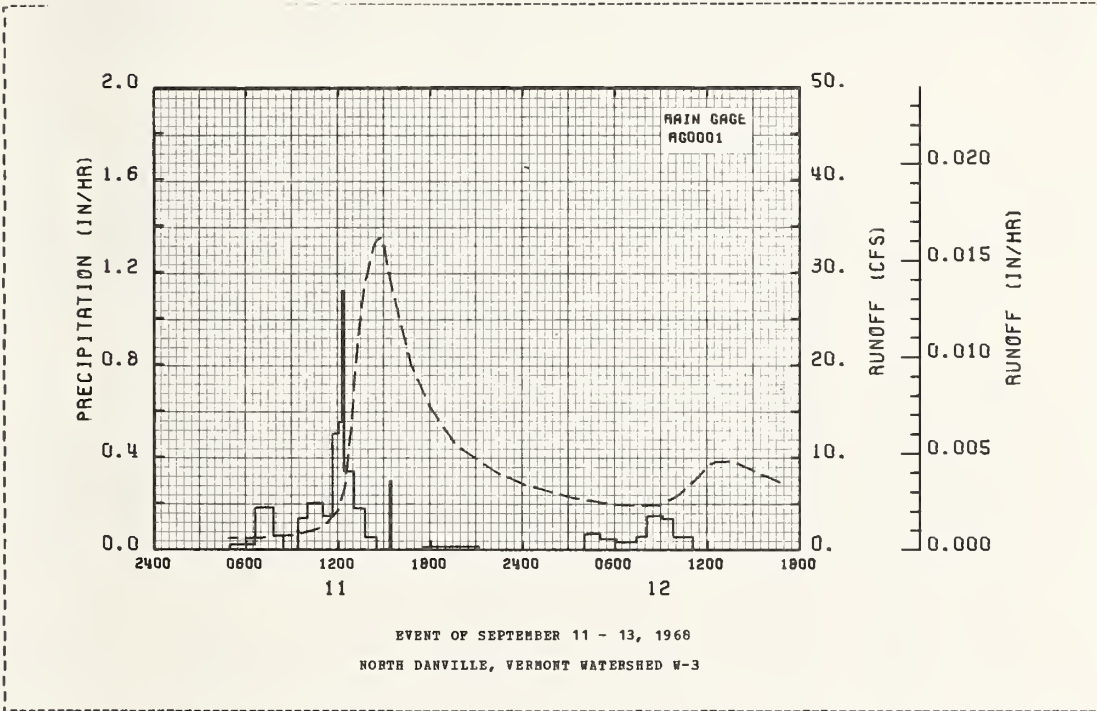
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0111515. STA AV based on 9 yr record period.

1968		SELECTED RUNOFF EVENT										NORTH DANVILLE, VERMONT WATERSHED W-3											
ANTECEDENT CONDITIONS			Date			Time			RAINFALL			Date			RUNOFF								
Date	Rainfall	Runoff	Mo-Day	Mo-Day	Mo-Day	of Day	Intensity	Acc.	Date	Date	Date	Time	Rate	Acc.									
Mo-Day	(inches)	(inches)					(in/hr)	(inches)	Mo-Day	Mo-Day	Mo-Day	of Day	(cfs)	(inches)									
EVENT OF SEPTEMBER 11 - 13, 1968																							
9-11	RG 01 0.0	0.003	9-11	RG 01 455	0.0	0.0	0.0	0.0	9-11	450	1.28	0.0	0.0										
				634	0.0242	0.04	0.04	0.04		700	1.36	0.0014											
				746	0.1833	0.26	0.26	0.26		802	1.62	0.0021											
				826	0.0600	0.30	0.30	0.30		903	1.62	0.0029											
				921	0.0	0.30	0.30	0.30		1017	2.13	0.0040											
				1000	0.1385	0.39	0.39	0.39		1104	2.58	0.0049											
				1059	0.2034	0.59	0.59	0.59		1200	4.42	0.0065											
				1136	0.1459	0.68	0.68	0.68		1226	6.82	0.0077											
				1201	0.5040	0.89	0.89	0.89		1250	13.16	0.0096											
				1214	0.5538	1.01	1.01	1.01		1316	22.30	0.0133											
				1222	1.1250	1.16	1.16	1.16		1341	28.36	0.0183											
				1301	0.3385	1.38	1.38	1.38		1422	33.20	0.0284											
				1345	0.1773	1.51	1.51	1.51		1436	33.71	0.0322											
				1430	0.0533	1.55	1.55	1.55		1453	33.71	0.0368											
				1519	0.0	1.55	1.55	1.55		1525	28.83	0.0448											
				1527	0.3000	1.59	1.59	1.59		1644	19.95	0.0602											
				1732	0.0	1.59	1.59	1.59		1759	15.36	0.0708											
				1900	0.0136	1.61	1.61	1.61		1942	11.15	0.0817											
				2109	0.0140	1.64	1.64	1.64		2214	8.36	0.0935											
			9-12	400	0.0	1.64	1.64	1.64		2400	7.03	0.1000											
				500	0.0700	1.71	1.71	1.71	9-12	259	5.64	0.1091											
				606	0.0455	1.76	1.76	1.76		529	4.92	0.1154											
				722	0.0316	1.80	1.80	1.80		712	4.75	0.1194											
				804	0.0571	1.84	1.84	1.84		846	4.75	0.1230											
				905	0.1475	1.99	1.99	1.99		1001	5.83	0.1262											
				946	0.1317	2.08	2.08	2.08		1115	7.68	0.1302											
				1104	0.0538	2.15	2.15	2.15		1200	9.08	0.1332											
										1231	9.57	0.1355											
										1331	9.57	0.1401											
										1546	7.91	0.1495											
										1859	5.64	0.1599											
										2100	4.75	0.1649											
										2400	4.26	0.1714											
									9-13	1133	3.36	0.1925											
										1613	2.96	0.1996											

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004797. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.001. For antecedent runoff, see table of daily runoff amounts.

1966 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 13, 1966 (CONTINUED)										
							9-13	2113	2.70	0.2064
								2400	2.70	0.2100

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004797. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.001. For antecedent runoff, see table of daily runoff amounts.



NORTH DANVILLE, VERMONT WATERSHED W-4

LOCATION: Caledonia County, Vermont; 4.7 mi. NW of St. Johnsbury; Morrill Brook, Sleepers River, Connecticut River Basin.

AREA: 10752.00 acres 16.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													NORTH DANVILLE, VERMONT WATERSHED W-4																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64	
	Q	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137	19.379	Q	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137	19.379	
STA AV	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13	
	Q	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157	18.526	Q	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157	18.526	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	3-24	0.037	3-24	0.037	3-24	0.073	3-23	0.213	3-23	0.401	3-23	0.649	3-22	1.129	3-22	2.405

MAXIMUMS FOR PERIOD OF RECORD

	4-18	0.040	4-18	0.040	3-24	0.073	3-23	0.213	3-23	0.401	10-6	0.660	3-22	1.129	4-12	2.750
	1960		1960		1968		1968		1968		1962		1968		1960	

NOTES: Forest, 74%; cultivated, 12%; pasture, 12%; and idle, 2%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Mis. Pub. 1262, p. 67.4-19. Precipitation records began 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY PRECIPITATION (inches)													NORTH DANVILLE, VERMONT WATERSHED W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0	1	0.0	0.0	0.19	0.21	0.0	0.0	0.09	0.0	0.02	0.0		
2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.01	2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.01		
3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04	3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.04	0.34	0.0		
4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05	4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.29	0.0		
5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35	5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.08	0.0		
6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18	6	0.01	0.04	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0		
7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01	7	0.25	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18		
8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01	8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.48		
9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01	9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.01		
10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0	10	0.0	0.11	0.0	0.04	0.0	0.0	0.27	0.57	0.02	0.0		
11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0	11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14		
12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0	12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0		
13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0	13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0		
14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29	14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0		
15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48	15	0.11	0.14	0.0	0.49	0.0	0.0	0.40	0.0	0.0	0.43		
16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05	16	0.0	0.0	0.05	0.0	0.14	0.0	0.0	0.01	0.0	0.0		
17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01	17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0		
18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0	18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0		
19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14	19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.0		
20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45	20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	0.0	0.0	0.0		
21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0	21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.0	0.04	0.0		
22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05	22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0		
23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52	23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03	24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0		
25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02	25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0	26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0	27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0		
28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05	28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.0		
29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.93	0.43	0.04	29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.0		
30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0	30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89
STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77

NOTES: For temperature data see table of daily maximum and minimum values included with information for watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED W-4						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	16.90	11.07	8.61	144.30	43.05	29.46	35.31	4.54	2.74	3.86	8.06	17.71	
2	16.90	12.36	8.59	95.35	37.54	24.03	20.11	4.86	2.49	3.52	8.76	20.41	
3	16.72	25.28	8.44	87.17	34.28	24.61	14.75	4.27	2.48	3.44	8.51	19.81	
4	16.90	30.07	8.44	96.28	39.76	20.85	12.78	3.44	2.48	6.72	7.55	20.07	
5	16.41	18.55	8.44	144.21	33.71	18.30	11.62	3.15	2.29	15.24	7.04	47.64	
6	15.79	15.88	8.28	90.35	30.03	16.56	17.45	2.88	3.06	9.71	6.90	26.80	
7	15.63	14.53	8.03	79.75	27.79	15.11	15.41	3.86	6.98	13.77	7.01	19.82	
8	13.98	13.40	7.78	80.71	27.25	14.32	12.49	3.52	4.35	16.71	14.03	16.60	
9	14.10	12.67	7.94	86.99	26.78	31.27	10.38	3.27	3.23	10.02	13.33	14.40	
10	13.71	12.44	9.20	78.80	34.38	69.33	48.04	7.27	2.60	7.80	12.22	13.03	
11	13.25	11.49	9.01	68.33	27.38	31.26	26.22	4.23	37.03	7.73	12.80	10.88	
12	12.90	10.98	8.98	65.21	26.61	29.72	16.19	3.09	31.54	7.69	10.64	12.63	
13	12.69	10.75	9.14	68.78	25.49	28.85	12.46	2.66	16.02	6.89	10.43	14.06	
14	12.56	10.38	8.57	67.40	22.08	22.74	10.90	2.52	9.78	6.10	9.90	16.28	
15	12.56	10.38	8.44	71.66	20.51	22.78	9.83	2.22	7.06	5.71	9.14	17.84	
16	12.56	10.13	9.31	74.55	19.09	32.29	8.58	1.94	5.90	5.45	10.07	16.97	
17	11.14	10.17	26.11	52.39	65.74	23.94	7.99	3.37	5.10	5.28	8.94	16.10	
18	11.72	9.56	61.68	46.19	44.67	23.45	9.30	6.55	4.66	5.08	11.95	14.39	
19	11.64	9.36	86.55	42.46	72.57	22.46	9.37	3.75	4.03	5.67	65.85	13.71	
20	11.92	9.52	89.21	39.21	100.71	31.53	9.05	13.76	3.59	16.91	28.40	13.75	
21	12.04	9.02	84.50	37.06	63.59	21.85	6.68	22.07	3.28	9.70	18.29	13.75	
22	11.72	8.51	220.23	35.38	48.44	24.36	5.75	8.52	3.16	7.34	16.09	13.58	
23	11.60	8.44	207.98	32.57	41.14	22.91	4.96	5.69	2.81	6.54	14.55	14.63	
24	11.60	8.22	214.42	62.34	33.03	23.62	4.88	4.65	2.71	6.36	14.57	14.65	
25	11.29	8.19	79.20	185.35	29.56	33.38	5.74	9.31	6.30	7.53	23.15	13.11	
26	11.17	7.99	73.89	68.60	26.49	23.16	4.84	6.52	7.89	10.85	15.64	13.58	
27	10.98	7.81	89.18	72.88	24.75	20.35	4.07	4.52	5.21	7.91	15.11	13.58	
28	10.98	7.93	93.16	60.80	22.63	20.95	7.89	4.04	4.40	15.25	13.69	13.58	
29	10.98	8.31	110.16	47.77	21.76	29.75	9.16	3.60	4.07	18.21	74.95	13.58	
30	11.12		117.67	44.24	26.21	46.53	5.98	3.19	3.84	11.62	32.79	13.49	
31	11.08		107.69		41.54		4.72	2.97		9.31		13.23	
MEAN	13.049	11.840	58.025	74.235	36.726	26.656	12.352	5.167	6.702	8.837	17.011	16.569	
INCHES	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137	
STA AV	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157	

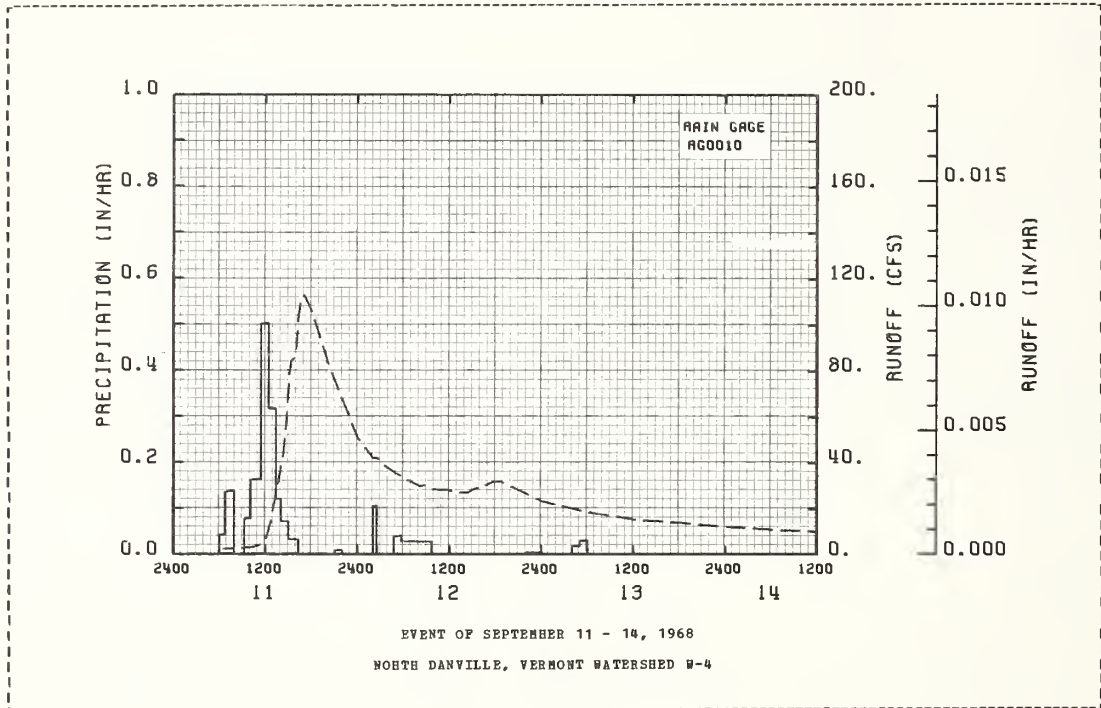
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00213695. STA AV based on 9 yr period.

1968		SELECTED RUNOFF EVENT					NORTH DANVILLE, VERMONT WATERSHED W-4						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)			
EVENT OF SEPTEMBER 11 - 14, 1968													
9-11	RG 10 0.0	0.002	9-11	558	0.0	0.0	9-11	633	2.52	0.0			
				639	0.0439	0.03		720	2.65	0.0002			
				753	0.1378	0.20		846	2.92	0.0006			
				910	0.0	0.20		1018	3.35	0.0010			
				1003	0.0792	0.27		1117	4.33	0.0013			
WATERSHED CONDITIONS: 74% forest land; 12% pastured land; 12% cultivated; 2% idle land with dense grass and brush growth.													
				1120	0.1636	0.48		1200	6.51	0.0017			
				1222	0.5032	1.00		1239	14.64	0.0023			
				1319	0.3158	1.30		1315	25.37	0.0034			
				1359	0.1200	1.38		1351	35.96	0.0051			
				1458	0.0712	1.45		1416	43.80	0.0066			
				1614	0.0316	1.49		1446	62.34	0.0090			
				2059	0.0	1.49		1504	77.87	0.0109			
				2159	0.0100	1.50		1517	84.87	0.0125			
			9-12	200	0.0	1.50		1548	85.90	0.0166			
				228	0.1071	1.55		1603	92.23	0.0187			
				440	0.0	1.55		1616	104.54	0.0207			
				538	0.0414	1.59		1629	109.25	0.0228			
				937	0.0276	1.70		1657	112.86	0.0276			
				2200	0.0	1.70		1757	105.71	0.0377			
				2400	0.0050	1.71		2013	81.83	0.0573			
			9-13	357	0.0	1.71		2400	50.30	0.0804			
				500	0.0190	1.73	9-12	157	41.76	0.0887			
				559	0.0305	1.76		224	41.76	0.0904			
								358	37.20	0.0961			
								559	32.96	0.1026			
								758	29.56	0.1083			
								830	30.11	0.1098			
								928	28.48	0.1124			
								1018	27.95	0.1146			
								1129	27.95	0.1177			
								1244	26.90	0.1209			
								1413	26.90	0.1246			
								1458	28.48	0.1265			
								1630	30.11	0.1306			
								1731	31.80	0.1335			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)										
							9-12	1828	31.80	0.1363
								2014	29.02	0.1413
								2400	22.94	0.1503
							9-13	559	18.10	0.1616
								1200	15.00	0.1708
								1759	13.58	0.1787
								2400	11.92	0.1858
							9-14	600	10.68	0.1921
								1200	9.80	0.1978
								1800	8.71	0.2029
								2400	7.93	0.2075

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



NORTH DANVILLE, VERMONT WATERSHED W-5

LOCATION: Caledonia County, Vermont; 2 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.

AREA: 27469.00 acres 42.92 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													NORTH DANVILLE, VERMONT WATERSHED W-5	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64	
	O 0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122	18.289	
STA AV	P 1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13	
	O 1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338	19.707	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	4-25	0.030	4-25	0.030	4-25	0.060	3-23	0.167	4-24	0.317	3-23	0.512	3-22	0.867	3-17	2.349		
	4-18	0.037	4-18	0.036	4-18	0.072	3-25	0.198	10-7	0.383	10-6	0.698	4-16	1.117	4-12	3.140		
	1960		1960		1960		1966		1962		1962		1964		1960			

NOTES: Watershed conditions: Forest predominantly hardwoods, 67%; cultivated land consisting of mostly clover, orchard grass, and timothy hay with very little in row crops, 17%; pasture of mostly bluegrass, 13%; idle land in tall grasses and woody plants, 2%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 67.5-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY PRECIPITATION (inches)													NORTH DANVILLE, VERMONT WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0		
2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11		
3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04		
4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05		
5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35		
6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18		
7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01		
8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01		
9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01		
10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0		
11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0		
12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0		
13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0		
14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29		
15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48		
16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05		
17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01		
18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0		
19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14		
20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45		
21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0		
22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05		
23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52		
24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03		
25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02		
26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0		
27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0		
28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05		
29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04		
30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89		
STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77		

NOTES: For temperature data see table of maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period.

1968		MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED W-5						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	41.89	26.13	24.73	428.33	84.78	66.48	104.95	9.96	6.82	7.51	18.23	44.74	
2	41.89	29.92	24.83	237.17	76.71	47.62	48.75	11.43	6.17	6.78	20.53	48.47	
3	41.74	79.17	19.15	212.21	70.75	49.60	32.68	10.38	6.14	6.70	19.22	46.17	
4	38.97	100.56	21.54	241.85	84.32	41.44	26.68	8.24	6.19	11.39	16.46	45.65	
5	37.28	67.17	21.20	370.02	72.58	34.87	23.21	7.32	5.38	30.66	14.56	123.39	
6	35.50	45.91	20.71	206.15	62.55	29.64	36.20	6.71	6.38	19.05	14.60	69.46	
7	34.96	40.33	20.11	176.20	54.71	26.34	30.84	8.62	14.66	29.69	15.03	53.32	
8	33.64	36.26	19.95	180.70	51.88	25.09	23.89	7.94	9.36	38.09	32.51	44.10	
9	33.77	33.71	20.79	201.59	51.09	61.06	18.40	7.39	6.55	21.74	32.48	34.05	
10	31.22	31.77	23.43	178.45	68.75	180.92	93.21	13.25	5.21	16.93	29.80	31.43	
11	28.63	30.02	24.36	149.63	52.88	68.97	52.76	8.86	96.67	16.80	30.52	29.14	
12	28.07	27.60	24.64	139.54	51.40	61.82	31.34	6.30	76.81	16.71	25.53	33.84	
13	27.38	26.24	24.85	148.49	51.18	77.33	23.48	5.23	35.39	14.50	25.36	38.47	
14	27.15	25.36	23.36	143.92	42.38	57.62	19.78	4.66	21.02	12.77	23.93	45.14	
15	27.84	25.36	21.93	162.23	38.03	47.29	17.38	3.82	14.39	11.88	21.79	53.19	
16	28.07	24.82	25.13	180.88	35.15	72.58	15.42	3.72	11.91	11.32	24.25	46.50	
17	27.38	24.97	109.61	114.25	156.95	52.10	25.27	6.28	10.56	10.81	20.55	39.56	
18	25.91	24.00	265.42	98.29	107.58	49.23	25.98	15.97	9.79	10.49	27.65	35.63	
19	25.69	23.93	334.37	89.80	186.25	49.48	30.65	8.47	8.85	10.90	181.16	34.16	
20	26.36	23.64	328.28	81.79	270.27	84.31	37.59	20.41	7.84	36.63	74.52	34.03	
21	27.50	21.95	272.89	76.16	156.32	50.84	25.94	49.94	7.11	19.90	48.21	34.03	
22	27.27	21.20	448.55	73.17	105.70	44.03	24.60	19.18	6.59	14.19	39.54	34.03	
23	27.15	21.10	439.56	67.30	85.74	44.31	22.52	12.89	6.19	13.08	35.28	36.70	
24	27.05	19.85	438.85	147.01	68.10	53.89	21.23	10.97	5.67	13.02	35.59	37.81	
25	26.58	19.66	186.87	522.08	58.23	86.94	24.93	26.27	9.64	15.43	59.76	35.09	
26	25.70	19.66	171.54	159.42	50.84	54.41	14.63	17.32	12.96	23.73	41.68	34.83	
27	25.36	19.66	224.28	176.11	46.10	46.87	8.88	11.75	9.42	16.65	35.76	32.37	
28	25.36	20.23	246.12	145.48	42.23	48.64	18.08	10.64	8.08	37.33	31.62	29.98	
29	25.36	21.10	302.12	106.15	40.16	68.89	18.72	9.41	7.28	53.69	227.04	29.98	
30	26.47		325.59	92.46	52.99	123.39	11.95	8.24	7.18	30.24	88.34	29.98	
31	26.59		281.22		82.50		10.06	7.36		23.33		29.98	
MEAN	30.12	32.12	152.77	176.89	79.32	60.20	29.68	11.58	14.87	19.42	43.72	41.78	
INCHES	0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122	
STA AV	1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338	

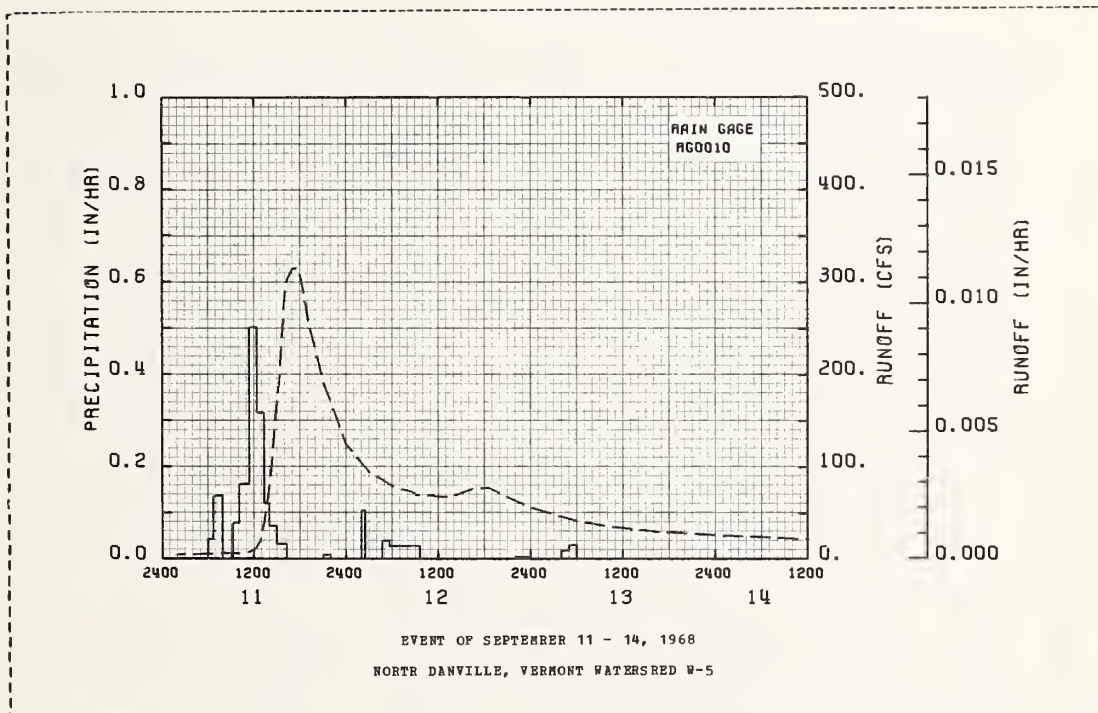
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0008665. STA AV based on 9 yr record period.

1968		SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5						
ANTECEDENT CONDITIONS		Date			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 11 - 14, 1968											
9-11	RG 10 0.0	0.000	9-11	558	0.0	0.0	9-11	143	4.96	0.0	
				639	0.0439	0.03		317	5.63	0.0003	
				753	0.1378	0.20		559	5.98	0.0009	
				910	0.0	0.20		735	6.35	0.0013	
				1003	0.0792	0.27		754	6.73	0.0014	
				1120	0.1636	0.48		849	6.73	0.0016	
				1222	0.5032	1.00		930	6.35	0.0018	
				1319	0.3158	1.30		1014	6.73	0.0020	
				1359	0.1200	1.38		1130	8.40	0.0023	
				1458	0.0712	1.45		1215	12.44	0.0026	
				1614	0.0316	1.49		1249	21.20	0.0029	
				2059	0.0	1.49		1320	40.70	0.0035	
				2159	0.0100	1.50		1400	78.66	0.0049	
			9-12	200	0.0	1.50		1422	107.85	0.0061	
				228	0.1071	1.55		1447	155.96	0.0081	
				440	0.0	1.55		1523	202.56	0.0120	
				538	0.0414	1.59		1536	235.56	0.0137	
				937	0.0276	1.70		1558	283.15	0.0171	
				2200	0.0	1.70		1621	302.90	0.0211	
				2400	0.0050	1.71		1700	315.14	0.0284	
			9-13	357	0.0	1.71		1741	315.14	0.0361	
				500	0.0190	1.73		1808	302.90	0.0412	
				559	0.0305	1.76		1912	253.23	0.0519	
								2057	193.25	0.0660	
								2400	123.46	0.0834	
								9-12	300	93.52	0.0952
								558	78.66	0.1044	
								830	71.81	0.1113	
								914	68.53	0.1132	
								1057	68.53	0.1175	
								1145	66.92	0.1195	
								1313	66.92	0.1230	
								1348	68.53	0.1244	
								1530	73.49	0.1288	
								1630	76.91	0.1315	

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Rnnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)										
							9-12	1830	76.91	0.1371
								2029	68.53	0.1423
								2230	60.73	0.1470
								2400	54.91	0.1501
							9-13	601	40.70	0.1605
								1029	34.03	0.1665
								1632	29.02	0.1734
								2059	27.15	0.1779
								2400	25.36	0.1808
							9-14	558	23.64	0.1861
								1200	21.20	0.1910
								1759	18.20	0.1953
								2400	16.80	0.1991

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



REYNOLDS, IDAHO WATERSHED #-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO WATERSHED #-1 (036068)	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	15.78
	O	0.045	0.261	0.096	0.044	0.037	0.024	0.012	0.018	0.006	0.005	0.015	0.034	0.596
STA AV	P	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	0.0
	O	0.373	0.298	0.203	0.416	0.482	0.305	0.032	0.025	0.012	0.017	0.037	0.271	2.470

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1968	Date	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		2 Days		8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	2-21	0.005		2-21	0.005	2-21	0.010	2-21	0.025	2-21	0.040	2-21	0.056	2-20	0.088	2-18	0.215

MAXIMUMS FOR PERIOD OF RECORD																
1964	12-23	0.065	12-23	0.064	12-23	0.125	12-23	0.270	12-23	0.327	12-23	0.453	12-23	0.721	12-28	1.313
	1964		1964		1964		1964		1964		1964		1964		1965	

NOTES: Watershed conditions: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. Revised map of Watershed in this publication. Previous map published in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, OSOA Misc. Pub. 1164, p. 68.1-8. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 45 rain gauges. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO WATERSHED #-1 (036068)												
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	36	27	43	34	55	28	53	39	78	30	74	43	82	50	88	56	86	49	76	42	51	24	32	26	
2	31	14	51	33	57	28	47	40	65	36	80	54	87	45	88	75	70	54	64	36	47	34	34	23	
3	32	12	49	38	60	27	51	30	65	31	71	59	90	50	84	58	69	42	73	30	33	29	46	30	
4	39	10	52	31	61	32	57	26	73	39	70	50	92	56	90	54	75	43	72	40	52	32	45	32	
5	36	15	36	28	53	34	45	32	74	36	70	47	95	47	93	62	78	46	63	34	46	31	48	26	
6	30	9	47	37	44	28	43	29	48	26	65	50	98	58	87	54	83	46	62	39	45	25	36	20	
7	32	10	46	28	43	28	46	30	52	23	66	50	97	63	96	52	78	56	51	34	46	31	41	24	
8	38	20	44	21	42	22	55	28	59	29	64	44	96	62	93	63	83	57	54	27	55	33	48	28	
9	45	23	42	29	45	25	65	29	69	34	72	50	94	84	90	64	87	50	56	22	55	29	52	28	
10	44	21	44	18	48	20	76	34	75	53	78	43	91	64	83	61	89	56	68	46	45	25	53	36	
11	30	20	49	20	55	30	65	30	70	40	86	47	97	57	85	60	87	63	72	42	52	36	42	28	
12	31	12	35	19	56	30	64	20	67	45	72	45	82	63	96	58	75	50	63	44	42	38	36	18	
13	35	18	34	18	45	32	44	15	59	44	71	59	81	52	76	58	86	46	48	38	38	31	32	15	
14	38	22	34	15	48	30	47	22	53	37	72	40	81	58	62	54	72	56	53	35	34	21	43	29	
15	52	32	35	26	52	30	68	40	57	32	80	45	78	50	67	46	61	48	51	39	37	28	42	30	
16	45	29	44	26	50	36	50	26	56	34	88	46	84	52	67	51	64	42	49	37	34	26	34	25	
17	37	18	47	30	38	31	40	27	65	33	93	55	79	54	63	46	76	40	52	26	41	22	31	22	
18	35	18	47	41	41	32	49	20	74	40	95	54	89	48	65	45	80	54	52	27	40	33	34	21	
19	43	20	53	42	46	27	56	33	77	48	95	60	97	52	66	49	56	40	58	22	43	29	26	13	
20	44	22	55	43	52	22	44	19	71	50	80	52	78	48	61	42	48	38	54	30	39	30	24	15	
21	43	22	47	41	58	22	42	25	74	48	88	54	90	50	61	41	48	39	51	25	43	35	24	10	
22	41	24	48	37	61	30	45	27	66	34	83	52	87	56	67	50	60	37	61	32	50	33	21	10	
23	44	31	56	43	61	39	55	22	63	38	76	56	89	51	75	52	68	36	62	32	49	28	34	20	
24	43	18	51	30	57	37	61	32	60	45	80	58	92	52	81	46	71	38	65	31	40	28	42	32	
25	35	22	53	27	58	33	58	32	67	47	89	50	93	55	82	50	74	38	68	35	43	22	39	29	
26	29	12	52	28	48	32	56	39	66	37	102	55	94	66	79	56	76	40	63	32	39	22	32	27	
27	27	14	52	28	62	26	52	28	68	40	90	60	99	58	78	53	75	43	64	28	42	28	31	26	
28	30	10	54	26	62	39	60	25	74	41	68	42	99	65	71	50	68	38	59	32	43	25	38	16	
29	40	22	57	26	69	34	71	36	82	46	65	44	98	68	77	46	70	39	61	37	42	20	23	14	
30	36	28			51	30	80	40	75	38	74	38	88	60	82	47	72	40	40	29	38	23	23	10	
31	35	16			52	39			69	37			86	54	86	49			48	32			21	8	
AV.		37	19	46	29	52	30	54	29	66	38	78	50	89	56	78	53	72	45	59	33	43	28	35	22
MEAN		28.2		38.3		41.4		42.0		52.7		64.4		73.1		66.0		59.2		46.3		36.0		29.0	
STA AV		36	18	44	26	47	25	54	29	66	38	73	46	86	51	83	49	76	43	64	33	48	27	39	20

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 6 yr (1963-68) record period.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO WATERSHED W-1 (036068)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.10	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.09	
2	0.02	0.06	0.00	0.08	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01	
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.42	0.00	
4	0.0	0.01	0.00	0.17	0.09	0.03	0.0	0.00	0.00	0.0	0.02	0.01	
5	0.01	0.01	0.16	0.27	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00	
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0	
8	0.04	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.44	0.0	
9	0.09	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.33	0.0	
10	0.20	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.05	
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.08	
12	0.00	0.05	0.01	0.00	0.15	0.00	0.0	0.05	0.0	0.10	0.31	0.02	
13	0.00	0.07	0.10	0.0	0.06	0.00	0.0	0.16	0.00	0.22	0.01	0.00	
14	0.01	0.01	0.09	0.04	0.01	0.03	0.04	0.93	0.0	0.20	0.00	0.03	
15	0.20	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.05	0.08	0.15	
16	0.07	0.01	0.03	0.03	0.01	0.00	0.0	0.53	0.00	0.00	0.05	0.03	
17	0.00	0.24	0.14	0.00	0.00	0.0	0.0	0.84	0.0	0.0	0.00	0.01	
18	0.0	0.24	0.01	0.02	0.00	0.09	0.00	0.19	0.01	0.00	0.19	0.15	
19	0.0	0.22	0.0	0.03	0.13	0.04	0.00	0.27	0.02	0.00	0.01	0.02	
20	0.00	0.13	0.00	0.01	0.25	0.0	0.0	0.06	0.01	0.21	0.00	0.01	
21	0.00	0.66	0.0	0.04	0.03	0.00	0.0	0.00	0.10	0.00	0.02	0.01	
22	0.00	0.08	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.10	0.17	
23	0.00	0.21	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.54	
24	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.00	0.0	0.19	0.38	
25	0.0	0.0	0.17	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.11	
26	0.00	0.0	0.01	0.01	0.13	0.0	0.0	0.00	0.0	0.0	0.00	0.04	
27	0.01	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.05	
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.05	
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.02	0.01	
30	0.15	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.10	0.10	
31	0.03	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.0	
TOTAL	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	
STA AV	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IOHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO WATERSHED W-1 (036068)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.08	0.01	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07	
2	0.01	0.05	0.00	0.06	0.0	0.00	0.00	0.01	0.0	0.0	0.06	0.00	
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.38	0.00	
4	0.0	0.01	0.00	0.12	0.07	0.03	0.0	0.00	0.00	0.0	0.01	0.01	
5	0.01	0.01	0.11	0.20	0.04	0.01	0.0	0.0	0.00	0.0	0.00	0.00	
6	0.00	0.00	0.02	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0	
8	0.03	0.00	0.00	0.00	0.00	0.14	0.00	0.0	0.0	0.0	0.39	0.0	
9	0.06	0.00	0.00	0.0	0.00	0.00	0.05	0.53	0.0	0.0	0.26	0.0	
10	0.14	0.0	0.0	0.0	0.01	0.00	0.0	0.16	0.00	0.0	0.02	0.04	
11	0.00	0.0	0.0	0.00	0.06	0.00	0.0	0.01	0.00	0.02	0.04	0.06	
12	0.00	0.05	0.00	0.00	0.12	0.00	0.0	0.04	0.0	0.09	0.24	0.01	
13	0.00	0.06	0.05	0.0	0.05	0.00	0.0	0.13	0.00	0.20	0.01	0.00	
14	0.01	0.01	0.04	0.01	0.01	0.01	0.03	0.84	0.0	0.18	0.00	0.02	
15	0.16	0.04	0.00	0.02	0.03	0.0	0.0	0.00	0.04	0.04	0.05	0.11	
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.47	0.00	0.00	0.03	0.02	
17	0.00	0.22	0.07	0.00	0.00	0.0	0.0	0.76	0.0	0.0	0.00	0.00	
18	0.0	0.22	0.00	0.01	0.00	0.09	0.00	0.18	0.01	0.00	0.14	0.09	
19	0.0	0.20	0.0	0.02	0.12	0.03	0.00	0.25	0.01	0.00	0.01	0.01	
20	0.00	0.12	0.00	0.01	0.21	0.0	0.0	0.06	0.01	0.19	0.00	0.01	
21	0.00	0.59	0.0	0.03	0.03	0.00	0.0	0.00	0.06	0.00	0.01	0.00	
22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.07	0.10	
23	0.00	0.19	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.41	
24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.13	0.29	
25	0.0	0.0	0.12	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.07	
26	0.00	0.0	0.01	0.01	0.11	0.0	0.0	0.00	0.0	0.0	0.00	0.02	
27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03	
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.03	
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.01	0.00	
30	0.10	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.07	0.08	
31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.00	0.0	0.0	
TOTAL	0.71	1.83	0.46	0.55	0.97	0.41	0.10	3.48	0.15	0.77	2.01	1.48	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968		DAILY PRECIPITATION (inches)										REYNOLDS, IDAHO WATERSHED W-1 (036068)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.09	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.08											
2	0.01	0.05	0.00	0.07	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01											
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.40	0.00											
4	0.0	0.01	0.00	0.15	0.08	0.03	0.0	0.00	0.00	0.0	0.01	0.01											
5	0.01	0.01	0.13	0.23	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00											
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0											
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0											
8	0.03	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.41	0.0											
9	0.07	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.29	0.0											
10	0.17	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.04											
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.07											
12	0.00	0.05	0.01	0.00	0.13	0.00	0.0	0.05	0.0	0.10	0.28	0.02											
13	0.00	0.06	0.07	0.0	0.06	0.00	0.0	0.14	0.00	0.21	0.01	0.00											
14	0.01	0.01	0.06	0.02	0.01	0.02	0.04	0.88	0.0	0.19	0.00	0.02											
15	0.18	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.04	0.07	0.13											
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.50	0.00	0.00	0.04	0.02											
17	0.00	0.23	0.10	0.00	0.00	0.0	0.0	0.80	0.0	0.0	0.00	0.01											
18	0.0	0.23	0.00	0.01	0.00	0.09	0.00	0.19	0.01	0.00	0.16	0.12											
19	0.0	0.21	0.0	0.02	0.12	0.03	0.00	0.26	0.02	0.00	0.01	0.01											
20	0.00	0.12	0.00	0.01	0.23	0.0	0.0	0.06	0.01	0.20	0.00	0.01											
21	0.00	0.62	0.0	0.03	0.03	0.00	0.0	0.00	0.07	0.00	0.01	0.01											
22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.09	0.13											
23	0.00	0.20	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.47											
24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.16	0.33											
25	0.0	0.0	0.14	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.09											
26	0.00	0.0	0.01	0.01	0.12	0.0	0.0	0.00	0.0	0.0	0.00	0.03											
27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03											
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.04											
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.01	0.00											
30	0.12	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.09	0.09											
31	0.02	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.0											
TOTAL	0.82	1.93	0.59	0.66	1.04	0.43	0.10	3.63	0.17	0.81	2.26	1.77											
STA AV																							

NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV do not apply to shielded rain gage records.

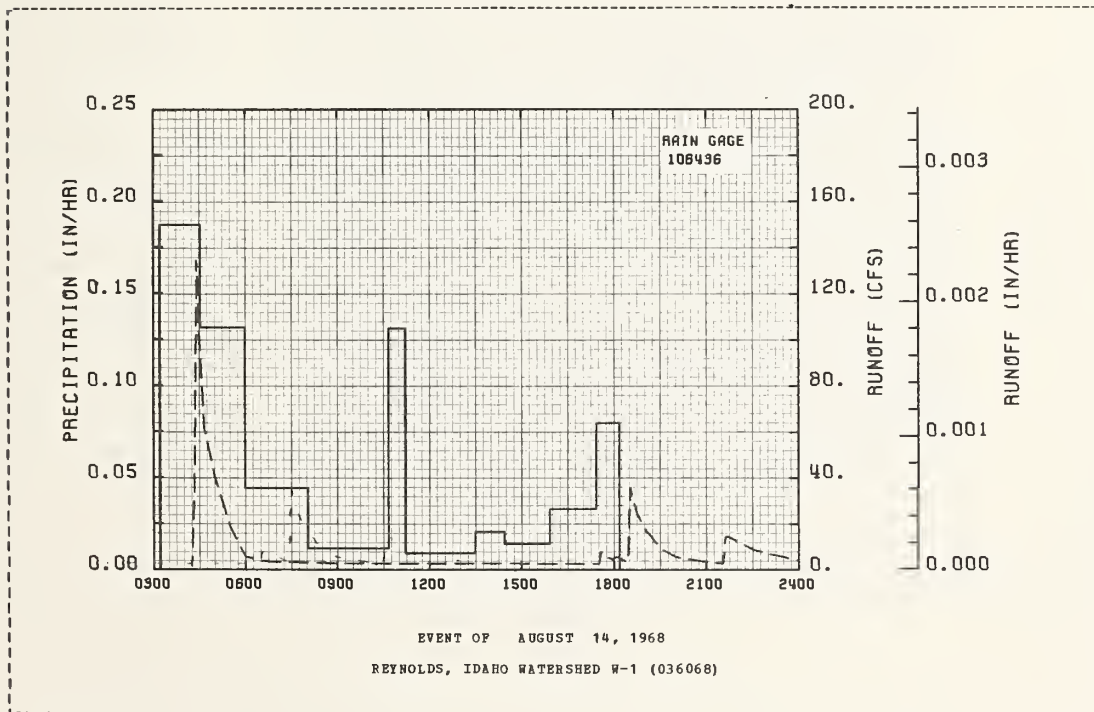
1968		MEAN DAILY DISCHARGE (cfs)										REYNOLDS, IDAHO WATERSHED W-1 (036068)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	4.03	3.19	14.14	4.28	3.59	1.69	2.01	0.17	0.37	0.42	0.43	1.01											
2	2.70	3.91	15.41	4.35	3.20	1.60	1.63	0.14	0.34	0.38	0.68	1.07											
3	1.44	4.51	15.39	3.77	3.42	1.82	1.57	0.21	0.37	0.40	0.44	1.18											
4	1.61	4.24	16.91	3.21	2.99	1.95	1.34	0.27	0.51	0.41	0.68	1.11											
5	2.82	3.67	18.56	4.20	3.99	2.36	1.35	0.25	0.50	0.43	0.56	1.07											
6	1.34	2.53	16.20	4.20	3.40	2.31	1.50	0.17	0.50	0.40	0.54	1.01											
7	1.48	2.54	13.47	3.22	2.56	1.94	1.52	0.72	0.54	0.40	0.57	0.98											
8	1.64	2.62	12.02	2.91	2.46	2.10	1.49	1.80	0.51	0.38	0.75	1.08											
9	4.11	2.32	10.84	2.91	2.06	2.41	1.59	3.24	0.52	0.42	7.03	1.05											
10	4.83	2.31	9.20	2.88	2.15	2.33	1.40	2.60	0.49	0.44	3.50	1.01											
11	1.94	1.98	8.44	3.47	2.78	2.01	1.45	1.91	0.52	0.37	1.73	1.39											
12	3.53	1.88	8.40	3.98	4.68	1.98	1.33	1.72	0.55	0.33	1.11	1.43											
13	4.63	2.19	8.16	3.45	3.56	1.95	1.28	1.84	0.56	0.40	0.86	1.47											
14	4.69	1.70	7.79	2.98	2.49	2.01	1.13	6.79	0.58	0.46	0.73	2.48											
15	5.40	2.11	7.24	2.72	2.64	1.96	0.82	2.11	0.53	0.39	0.81	2.59											
16	6.71	2.14	6.60	2.96	2.73	1.82	0.67	1.73	0.50	0.33	0.78	2.60											
17	3.55	2.35	5.30	3.22	2.32	1.91	0.64	7.50	0.43	0.28	0.75	2.01											
18	3.69	12.25	4.47	3.48	2.60	1.86	0.80	2.06	0.38	0.30	0.86	1.73											
19	4.14	33.31	2.81	4.13	2.63	1.80	0.69	1.70	0.39	0.29	0.88	1.77											
20	3.96	83.21	2.92	3.78	3.56	1.80	0.90	1.38	0.43	0.39	0.91	1.76											
21	3.91	132.29	2.75	3.93	3.25	1.88	0.64	1.09	0.43	0.39	0.91	1.19											
22	3.67	49.27	2.48	3.63	3.18	1.95	0.58	0.72	0.42	0.35	0.93	1.30											
23	3.80	110.51	2.37	3.72	2.89	1.95	0.50	0.44	0.45	0.38	0.89	1.78											
24	3.76	53.47	2.21	3.87	2.56	1.95	0.44	0.41	0.47	0.37	1.06	13.51											
25	3.78	33.09	2.40	3.57	2.30	1.95	0.40	0.42	0.53	0.36	1.07	11.53											
26	2.33	26.41	2.51	3.46	3.09	1.66	0.48	0.36	0.51	0.35	1.26	6.38											
27	3.19	20.57	2.26	3.31	3.04	1.71	0.43	0.36	0.37	0.36	1.28	3.41											
28	2.31	17.14	2.29	3.22	2.55	1.24	0.40	0.36	0.37	0.39	1.07	4.02											
29	2.96	14.86	2.37	3.23	2.33	1.37	0.40	0.35	0.40	0.39	1.10	4.24											
30	6.55	2.89	3.61	2.22	2.22	1.73	0.25	0.37	0.41	0.41	1.21	2.55											
31	5.62	3.01	2.11	2.11	2.11	1.73	0.25	0.35	0.41	0.43	1.21	2.55											
MEAN	3.553	21.812	7.478	3.521	2.883	1.900	0.964	1.405	0.463	0.382	1.179	2.682											
INCHES	0.045	0.261	0.096	0.044	0.037	0.024	0.012	0.018	0.006	0.005	0.015	0.034											
STA AV	0.373	0.298	0.203	0.416	0.482	0.305	0.032	0.025	0.012	0.017	0.037	0.271											

NOTES: To convert CFS to IN/DAY, multiply by 0.000413. STA AV based on 6 yr (1963-68) record period.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 14, 1968											
8-14	RG 106436 0.0	0.000	8-14	RG 106436			8-14				
				312	0.0	0.0		415	1.80	0.0	
				432	0.1875	0.25		420	33.14	0.0	
				559	0.1310	0.44		425	134.37	0.0001	
				802	0.0439	0.53		430	102.94	0.0003	
				1040	0.0114	0.56		440	60.54	0.0005	
				1112	0.1312	0.63		500	40.50	0.0008	
				1329	0.0088	0.65		530	18.36	0.0011	
				1427	0.0207	0.67		600	5.34	0.0012	
				1555	0.0136	0.69		630	3.62	0.0012	
				1726	0.0330	0.74		700	3.13	0.0012	
				1811	0.0800	0.80		900	2.67	0.0013	
								1200	2.58	0.0014	
								1730	2.42	0.0016	
								1735	7.74	0.0016	
								1745	5.60	0.0016	
								1755	4.49	0.0016	
								1803	5.60	0.0016	
								1825	3.22	0.0016	
								1828	7.74	0.0016	
								1830	24.26	0.0016	
								1832	35.26	0.0016	
								1845	24.26	0.0017	
								1900	17.63	0.0018	
								1930	9.20	0.0019	
								2000	5.34	0.0020	
								2100	3.13	0.0021	
								2132	2.58	0.0021	
								2135	7.74	0.0021	
								2137	14.42	0.0021	
								2140	14.63	0.0021	
								2200	12.14	0.0022	
								2230	8.53	0.0023	
								2300	6.69	0.0024	
								2330	5.34	0.0025	
								2400	3.83	0.0025	

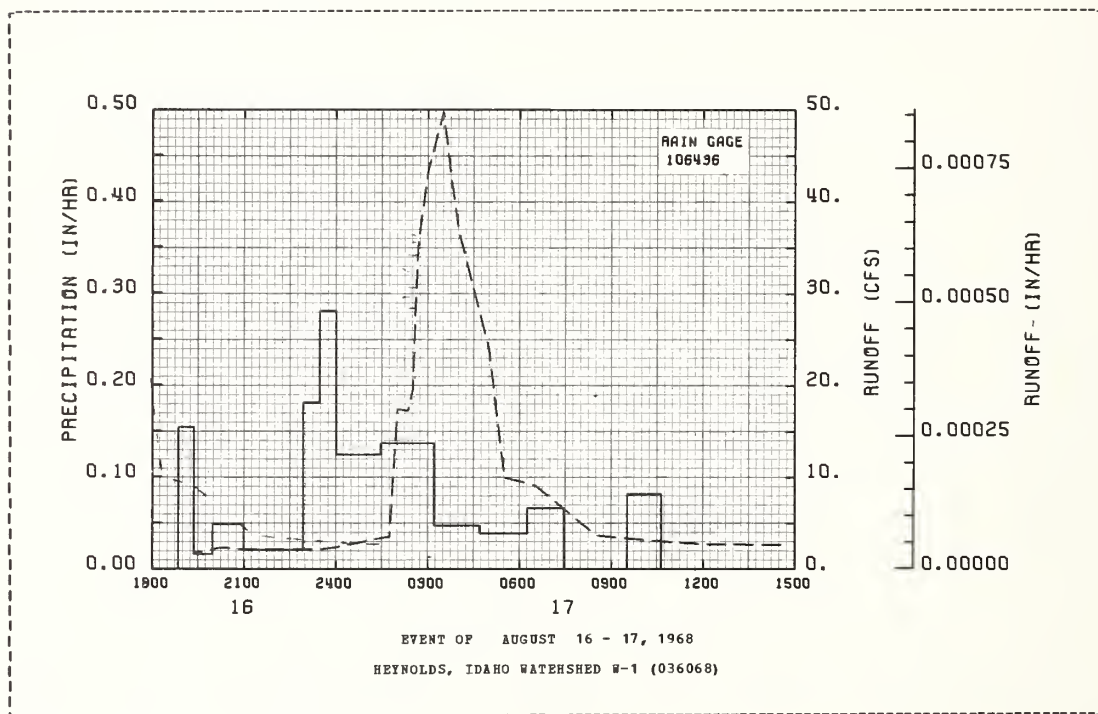
WATERSHED CONDITIONS:
Predominately sagebrush
rangeland, 95%; small stands
of forest, 2%; permanent
fields of alfalfa irrigated
from streamflow, 3%.

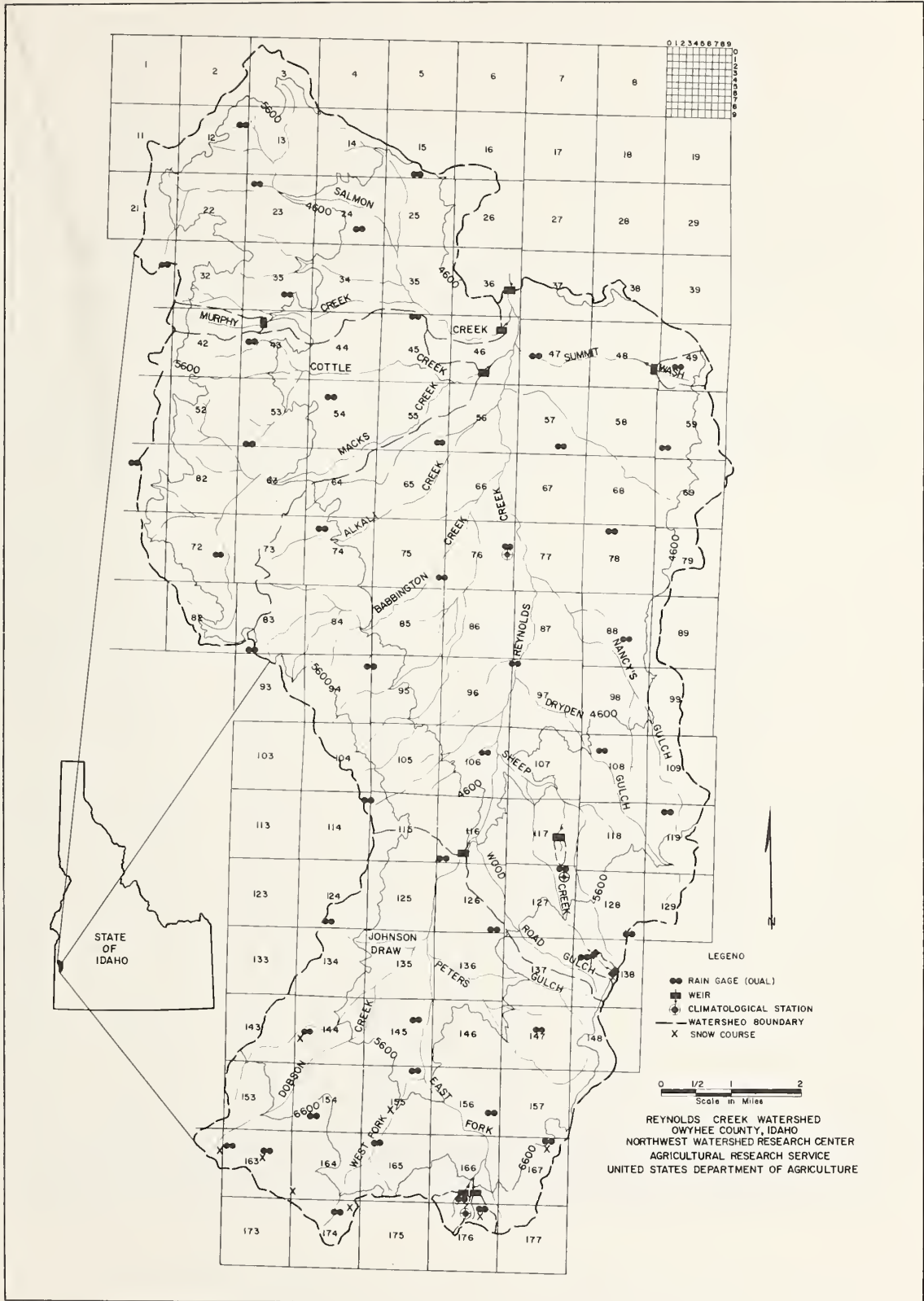
NOTES: To convert CFS to IN/HR, multiply by 0.00001717.



1968 SELECTED RUNOFF EVENT			HEYHOLDS, IDAHO WATERSHED #-1 (036068)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Hainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Hate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 16 - 17, 1968											
8-16	RG 106436 0.02	0.001	8-16	HG 106436 1850	0.0	0.0	8-16	1920	1.73	0.0	
				1921	0.1548	0.08		2010	2.33	0.0	
				1958	0.0162	0.09		2100	2.10	0.0	
				2059	0.0492	0.14		2320	2.10	0.0001	
				2255	0.0207	0.18		2400	2.42	0.0001	
WATERSHED CONDITIONS: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of alfalfa irrigated from streamflow, 3%.				2328	0.1818	0.28	8-17	145	3.62	0.0002	
				2400	0.2812	0.43		200	17.38	0.0002	
			8-17	127	0.1241	0.61		220	17.14	0.0003	
				312	0.1371	0.85		230	19.62	0.0004	
				441	0.0472	0.92		240	34.90	0.0005	
				614	0.0387	0.98		300	43.30	0.0007	
				726	0.0667	1.06		330	49.67	0.0011	
				931	0.0	1.06		345	42.49	0.0013	
				1037	0.0818	1.15		400	36.71	0.0015	
								500	23.68	0.0020	
							530	9.89	0.0021		
							630	9.03	0.0023		
							830	3.62	0.0025		
							1000	3.13	0.0026		
							1200	2.67	0.0027		
							2400	2.25	0.0032		

NOTES: To convert CFS to IN/HH, multiply by 0.00001717.





REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	16.60	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	16.60	
	O	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054	0.745	O	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093	0.0	2.331
STA AV	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	0.0	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	0.0	
	O	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054	0.745	O	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093	0.0	2.331

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	2-21	0.003	2-21	0.003	2-21	0.006	2-21	0.016	2-21	0.026	2-21	0.039	2-21	0.069	2-18	0.202

MAXIMUMS FOR PERIOD OF RECORD

8-23	0.073	8-23	0.044	8-23	0.056	1-28	0.114	1-28	0.208	1-28	0.379	1-28	0.766	1-28	1.495
1965		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: Predominately sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 4216, p. 68,2-7. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. For long-time precipitation records, see O.S. Weather Bureau records at Boise, Idaho; 59 miles N.E. of Watershed.

1968 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.10	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11															
2	0.02	0.07	0.00	0.12	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00															
3	0.01	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.38	0.0															
4	0.0	0.04	0.0	0.21	0.09	0.00	0.0	0.01	0.0	0.0	0.00	0.05															
5	0.04	0.0	0.16	0.28	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0															
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0															
8	0.04	0.00	0.0	0.0	0.0	0.26	0.01	0.0	0.0	0.0	0.61	0.0															
9	0.09	0.01	0.0	0.0	0.0	0.0	0.00	0.41	0.0	0.0	0.08	0.0															
10	0.17	0.0	0.0	0.0	0.12	0.00	0.0	0.22	0.0	0.0	0.03	0.05															
11	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.04	0.0	0.04	0.07	0.08															
12	0.0	0.10	0.00	0.0	0.23	0.0	0.0	0.05	0.0	0.07	0.45	0.0															
13	0.0	0.08	0.08	0.0	0.08	0.0	0.0	0.08	0.0	0.20	0.01	0.01															
14	0.01	0.00	0.12	0.0	0.01	0.0	0.07	0.73	0.0	0.20	0.0	0.03															
15	0.21	0.02	0.0	0.01	0.02	0.0	0.0	0.0	0.03	0.05	0.08	0.12															
16	0.10	0.0	0.02	0.01	0.00	0.0	0.0	0.47	0.0	0.00	0.13	0.02															
17	0.01	0.26	0.25	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.00															
18	0.0	0.36	0.0	0.05	0.0	0.01	0.0	0.16	0.02	0.0	0.18	0.09															
19	0.0	0.35	0.0	0.06	0.14	0.0	0.0	0.32	0.0	0.0	0.00	0.04															
20	0.0	0.18	0.0	0.02	0.32	0.0	0.0	0.05	0.04	0.31	0.02	0.01															
21	0.0	0.65	0.0	0.11	0.11	0.0	0.0	0.0	0.16	0.0	0.00	0.0															
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.06	0.17															
23	0.0	0.33	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.69															
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.15	0.29															
25	0.0	0.0	0.19	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.11															
26	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.05															
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01															
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01															
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0															
30	0.06	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.10	0.10															
31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0															
TOTAL	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	TOTAL	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06		
STA AV	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	STA AV	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr. (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IOAHO SALMON CREEK WATERSHED (046017)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
2	0.01	0.06	0.00	0.10	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.33	0.0
4	0.0	0.04	0.0	0.15	0.07	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.03	0.0	0.12	0.21	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0
8	0.03	0.00	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.51	0.0
9	0.05	0.01	0.0	0.0	0.0	0.0	0.00	0.39	0.0	0.0	0.07	0.0
10	0.10	0.0	0.0	0.0	0.08	0.00	0.0	0.21	0.0	0.0	0.02	0.05
11	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.04	0.0	0.04	0.06	0.06
12	0.0	0.09	0.00	0.0	0.20	0.0	0.0	0.05	0.0	0.06	0.34	0.0
13	0.0	0.06	0.05	0.0	0.07	0.0	0.0	0.07	0.0	0.16	0.01	0.01
14	0.01	0.00	0.07	0.0	0.01	0.0	0.05	0.69	0.0	0.17	0.0	0.02
15	0.15	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.02	0.04	0.05	0.09
16	0.07	0.0	0.01	0.01	0.00	0.0	0.0	0.42	0.0	0.00	0.08	0.02
17	0.01	0.24	0.13	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.00
18	0.0	0.32	0.0	0.03	0.0	0.00	0.0	0.14	0.02	0.0	0.12	0.07
19	0.0	0.31	0.0	0.04	0.11	0.0	0.0	0.30	0.0	0.0	0.00	0.02
20	0.0	0.16	0.0	0.01	0.26	0.0	0.0	0.04	0.03	0.28	0.02	0.00
21	0.0	0.59	0.0	0.08	0.11	0.0	0.0	0.0	0.10	0.0	0.00	0.0
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.05	0.12
23	0.0	0.29	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.53
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.12	0.22
25	0.0	0.0	0.14	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.07
26	0.0	0.0	0.0	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.07	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.61	2.23	0.53	0.71	1.41	0.33	0.09	3.34	0.17	0.78	1.99	1.55
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IOAHO SALMON CREEK WATERSHED (046017)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
2	0.01	0.07	0.00	0.11	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.35	0.0
4	0.0	0.04	0.0	0.18	0.08	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.04	0.0	0.14	0.24	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.56	0.0
9	0.07	0.01	0.0	0.0	0.0	0.0	0.00	0.40	0.0	0.0	0.07	0.0
10	0.13	0.0	0.0	0.0	0.10	0.00	0.0	0.21	0.0	0.0	0.03	0.05
11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.04	0.0	0.04	0.06	0.07
12	0.0	0.10	0.00	0.0	0.22	0.0	0.0	0.05	0.0	0.06	0.39	0.0
13	0.0	0.07	0.06	0.0	0.07	0.0	0.0	0.07	0.0	0.18	0.01	0.01
14	0.01	0.00	0.09	0.0	0.01	0.0	0.06	0.71	0.0	0.19	0.0	0.03
15	0.18	0.01	0.0	0.00	0.02	0.0	0.0	0.0	0.02	0.05	0.06	0.10
16	0.09	0.0	0.01	0.01	0.00	0.0	0.0	0.45	0.0	0.00	0.11	0.02
17	0.01	0.25	0.18	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.00
18	0.0	0.34	0.0	0.04	0.0	0.00	0.0	0.15	0.02	0.0	0.15	0.08
19	0.0	0.33	0.0	0.05	0.12	0.0	0.0	0.31	0.0	0.0	0.00	0.03
20	0.0	0.17	0.0	0.02	0.29	0.0	0.0	0.04	0.04	0.30	0.02	0.00
21	0.0	0.62	0.0	0.10	0.11	0.0	0.0	0.0	0.13	0.0	0.00	0.0
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.06	0.14
23	0.0	0.31	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.61
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.14	0.25
25	0.0	0.0	0.17	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.09
26	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.04
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0
30	0.06	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.09	0.09
31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.73	2.37	0.66	0.83	1.54	0.35	0.10	3.46	0.21	0.84	2.25	1.79
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.101	0.992	3.190	1.056	0.659	0.087	0.031	0.019	0.009	0.009	0.230	0.570
2	0.865	1.202	2.940	1.182	0.718	0.087	0.031	0.016	0.009	0.009	0.209	0.695
3	0.618	1.287	2.698	1.115	0.704	0.102	0.031	0.016	0.009	0.009	0.344	0.593
4	0.821	1.249	2.473	1.109	0.783	0.117	0.027	0.019	0.009	0.009	0.334	0.620
5	1.080	1.194	2.589	1.556	0.894	0.126	0.023	0.023	0.009	0.009	0.257	0.592
6	0.641	1.120	2.527	1.373	0.801	0.134	0.023	0.027	0.009	0.009	0.272	0.510
7	0.683	1.143	2.315	1.236	0.706	0.143	0.023	0.031	0.009	0.009	0.290	0.540
8	1.006	1.069	2.136	1.187	0.626	0.152	0.023	0.031	0.009	0.012	0.448	0.638
9	1.043	1.010	2.046	1.135	0.576	0.143	0.023	0.031	0.009	0.016	0.547	0.550
10	0.982	1.121	1.908	1.077	0.668	0.134	0.023	0.027	0.009	0.019	0.408	0.582
11	0.620	0.991	1.976	1.070	0.707	0.126	0.023	0.019	0.009	0.027	0.417	0.689
12	0.638	0.898	1.875	1.059	0.870	0.117	0.027	0.016	0.009	0.041	0.613	0.393
13	1.067	1.002	1.905	0.970	0.795	0.117	0.027	0.012	0.009	0.069	0.490	0.423
14	0.899	0.859	1.867	0.983	0.715	0.117	0.023	0.009	0.009	0.071	0.385	0.550
15	1.270	1.156	1.954	0.950	0.663	0.117	0.023	0.009	0.009	0.081	0.422	0.661
16	1.116	1.099	1.644	0.970	0.608	0.110	0.023	0.009	0.009	0.087	0.448	0.558
17	0.833	1.322	1.832	0.803	0.519	0.095	0.023	0.009	0.009	0.095	0.440	0.422
18	0.966	3.866	1.633	0.804	0.472	0.081	0.023	0.009	0.009	0.106	0.583	0.470
19	1.057	5.668	1.564	0.801	0.562	0.074	0.027	0.009	0.009	0.116	0.638	0.486
20	1.090	12.533	1.790	0.714	0.698	0.074	0.031	0.009	0.009	0.184	0.602	0.383
21	1.011	13.802	1.497	0.753	0.619	0.068	0.027	0.009	0.009	0.202	0.592	0.367
22	1.013	8.830	1.360	0.722	0.524	0.062	0.023	0.009	0.009	0.144	0.584	0.437
23	1.046	14.261	1.282	0.701	0.516	0.056	0.023	0.009	0.009	0.153	0.620	0.584
24	1.126	8.793	1.188	0.618	0.385	0.050	0.023	0.009	0.009	0.192	0.731	1.602
25	1.116	6.350	1.135	0.567	0.240	0.050	0.023	0.009	0.009	0.192	0.598	1.329
26	0.909	5.359	1.074	0.571	0.352	0.050	0.023	0.009	0.009	0.143	0.532	1.039
27	0.979	4.398	1.067	0.515	0.244	0.045	0.023	0.009	0.009	0.168	0.594	0.863
28	0.747	3.936	1.054	0.488	0.131	0.045	0.023	0.009	0.009	0.197	0.597	0.856
29	1.173	3.697	1.001	0.457	0.094	0.045	0.023	0.009	0.009	0.199	0.566	0.609
30	1.129		1.000	0.435	0.096	0.036	0.023	0.009	0.009	0.206	0.586	0.820
31	0.966		1.007		0.081		0.023	0.009		0.212		0.970
MEAN	0.9552	3.8002	1.7910	0.8993	0.5493	0.0921	0.0246	0.0146	0.0092	0.0966	0.4793	0.6578
INCHES	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054
STA AV	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093

NOTES: To convert CPS to IN/DAY, multiply by 0.002648.

REYNOLDS, IOARO MACKS CREEK WATERSHED (0460B4)

LOCATION: Dwyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)		REYNOLDS, IDAHO MACKS CREEK WATERSHED (0460B4)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	14.82
	O	0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008	0.472
STA AV	P	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	0.0
	O	0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022	0.869

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		1 Hour				2 Hours				Maximum Volume for Selected Time Interval						
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1968	2-21	0.005	2-21	0.005	2-21	0.010	2-21	0.026	2-21	0.039	2-21	0.054	2-19	0.081	2-18	0.208

MAXIMUMS FOR PERIOD OF RECORD															
1-21	0.011	1-21	0.010	1-21	0.020	1-21	0.053	1-21	0.096	1-21	0.124	1-21	0.150	1-21	0.286
1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluebunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and haycrops which receives limited irrigation. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO MACKS CREEK WATERSHED (0460B4)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.10	0.00	0.0	0.08	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.08								
2	0.01	0.08	0.00	0.14	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.02												
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00												
4	0.0	0.01	0.0	0.16	0.07	0.01	0.0	0.00	0.00	0.0	0.01	0.02												
5	0.02	0.0	0.22	0.37	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01												
6	0.01	0.0	0.04	0.01	0.00	0.03	0.0	0.0	0.0	0.0	0.0	0.0												
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0												
8	0.03	0.0	0.0	0.0	0.00	0.11	0.01	0.0	0.0	0.0	0.57	0.0												
9	0.06	0.0	0.0	0.0	0.00	0.00	0.00	0.42	0.0	0.0	0.07	0.0												
10	0.19	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.05												
11	0.0	0.0	0.0	0.0	0.13	0.01	0.0	0.01	0.0	0.02	0.06	0.06												
12	0.0	0.05	0.01	0.00	0.32	0.0	0.0	0.06	0.0	0.09	0.35	0.00												
13	0.0	0.12	0.06	0.0	0.08	0.0	0.0	0.08	0.00	0.15	0.01	0.00												
14	0.0	0.02	0.08	0.0	0.02	0.01	0.05	1.10	0.0	0.18	0.01	0.04												
15	0.14	0.02	0.0	0.01	0.05	0.0	0.0	0.00	0.06	0.05	0.06	0.10												
16	0.11	0.00	0.00	0.02	0.01	0.00	0.0	0.45	0.0	0.02	0.07	0.03												
17	0.0	0.26	0.17	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.01												
18	0.0	0.33	0.00	0.03	0.00	0.00	0.00	0.16	0.01	0.00	0.20	0.10												
19	0.0	0.19	0.0	0.04	0.09	0.0	0.0	0.27	0.00	0.0	0.04	0.01												
20	0.0	0.12	0.00	0.00	0.19	0.0	0.0	0.03	0.03	0.30	0.01	0.00												
21	0.0	0.62	0.0	0.07	0.09	0.00	0.0	0.01	0.16	0.00	0.03	0.01												
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.11	0.10												
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.44	0.00												
24	0.01	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.15	0.33												
25	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02	0.09												
26	0.0	0.0	0.00	0.00	0.10	0.0	0.0	0.00	0.0	0.0	0.01	0.02												
27	0.01	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.01	0.00												
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01												
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.03	0.00												
30	0.20	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.09	0.06												
31	0.02	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0												
TOTAL	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58												
STA AV	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58												

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMD-IOHS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (0/S) \times 1.80$, where 0 = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IOAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.05	1	0.09	0.00	0.0	0.05	0.0	0.00	0.0	0.0	0.00	0.00	0.05	
2	0.01	0.06	0.00	0.08	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.07	2	0.01	0.06	0.00	0.08	0.0	0.00	0.0	0.00	0.0	0.07	0.01	
3	0.01	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.28	3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.28	0.00	
4	0.0	0.01	0.0	0.0	0.10	0.06	0.01	0.0	0.00	0.00	0.0	0.01	4	0.0	0.01	0.0	0.10	0.06	0.01	0.0	0.00	0.00	0.0	0.01	
5	0.02	0.0	0.15	0.21	0.04	0.00	0.0	0.0	0.00	0.00	0.0	0.01	5	0.02	0.0	0.15	0.21	0.04	0.00	0.0	0.00	0.00	0.0	0.01	
6	0.01	0.0	0.03	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0	6	0.01	0.0	0.03	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	
7	0.00	0.0	0.00	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.05	7	0.00	0.0	0.00	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.0	0.54	8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.54	
9	0.04	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.0	0.06	9	0.04	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.06	
10	0.11	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0	0.0	0.01	10	0.11	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0	0.01	
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.05	0.05	11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.02	0.05	0.05	
12	0.0	0.04	0.00	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.28	0.00	12	0.0	0.04	0.00	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.28	
13	0.0	0.11	0.03	0.0	0.08	0.0	0.0	0.07	0.00	0.14	0.01	0.00	13	0.0	0.11	0.03	0.0	0.08	0.0	0.0	0.07	0.00	0.14	0.01	
14	0.0	0.01	0.04	0.0	0.02	0.01	0.04	1.03	0.0	0.16	0.01	0.03	14	0.0	0.01	0.04	0.0	0.02	0.01	0.04	1.03	0.0	0.16	0.01	
15	0.08	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.03	0.05	0.04	0.08	15	0.08	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.03	0.05	0.04	
16	0.06	0.00	0.00	0.01	0.01	0.00	0.0	0.44	0.0	0.01	0.04	0.02	16	0.06	0.00	0.00	0.01	0.01	0.00	0.0	0.44	0.0	0.01	0.04	
17	0.0	0.24	0.08	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00	17	0.0	0.24	0.08	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	
18	0.0	0.31	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.12	0.07	18	0.0	0.31	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.12	
19	0.0	0.19	0.0	0.02	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00	19	0.0	0.19	0.0	0.02	0.09	0.0	0.0	0.27	0.00	0.0	0.03	
20	0.0	0.11	0.00	0.00	0.17	0.0	0.0	0.03	0.01	0.29	0.01	0.00	20	0.0	0.11	0.00	0.00	0.17	0.0	0.0	0.03	0.01	0.29	0.01	
21	0.0	0.62	0.0	0.03	0.09	0.00	0.0	0.01	0.08	0.00	0.02	0.00	21	0.0	0.62	0.0	0.03	0.09	0.00	0.0	0.01	0.08	0.00	0.02	
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.06	0.07	22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.06	
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.35	23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.35	
24	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.10	0.25	24	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.10	
25	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.06	25	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	
26	0.0	0.0	0.00	0.00	0.09	0.0	0.0	0.00	0.0	0.0	0.00	0.02	26	0.0	0.0	0.00	0.00	0.09	0.0	0.0	0.00	0.0	0.0	0.00	
27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.00	0.00	27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.00	
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01	28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	0.00	29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	
30	0.10	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.05	0.05	30	0.10	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.05	
31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	
TOTAL	0.58	2.04	0.45	0.52	1.25	0.22	0.07	3.25	0.15	0.81	1.88	1.17	TOTAL	0.58	2.04	0.45	0.52	1.25	0.22	0.07	3.25	0.15	0.81	1.88	1.17
STA AV													STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IOAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.10	0.00	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07	1	0.10	0.00	0.0	0.06	0.0	0.00	0.0	0.0	0.00	0.00	0.07	
2	0.01	0.07	0.00	0.10	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.01	2	0.01	0.07	0.00	0.10	0.0	0.00	0.0	0.00	0.0	0.0	0.07	
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00	3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	
4	0.0	0.01	0.0	0.12	0.06	0.01	0.0	0.00	0.00	0.0	0.01	0.01	4	0.0	0.01	0.0	0.12	0.06	0.01	0.0	0.00	0.00	0.0	0.01	
5	0.02	0.0	0.18	0.28	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01	5	0.02	0.0	0.18	0.28	0.04	0.00	0.0	0.0	0.00	0.0	0.00	
6	0.01	0.0	0.04	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0	6	0.01	0.0	0.04	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0	7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.55	0.0	8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.55	
9	0.05	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.07	0.0	9	0.05	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.07	
10	0.15	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.04	10	0.15	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.06	0.05	11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.06	
12	0.0	0.05	0.01	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.32	0.00	12	0.0	0.05	0.01	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.32	
13	0.0	0.12	0.04	0.0	0.08	0.0	0.0	0.07	0.00	0.15	0.01	0.00	13	0.0	0.12	0.04	0.0	0.08	0.0	0.0	0.07	0.00	0.15	0.01	
14	0.0	0.01	0.06	0.0	0.02	0.01	0.04	1.06	0.0	0.17	0.01	0.04	14	0.0	0.01	0.06	0.0	0.02	0.01	0.04	1.06	0.0	0.17	0.01	
15	0.11	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.04	0.05	0.05	0.09	15	0.11	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.04	0.05	0.09	
16	0.08	0.00	0.00	0.01	0.01	0.00	0.0	0.45	0.0	0.01	0.05	0.02	16	0.08	0.00	0.00	0.01	0.01	0.00	0.0	0.45	0.0	0.01	0.05	
17	0.0	0.25	0.12	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00	17	0.0	0.25	0.12	0.00	0.00	0.00	0.0	0.68	0.0	0.0	0.01	
18	0.0	0.32	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.15	0.09	18	0.0	0.32	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.15	
19	0.0	0.19	0.0	0.03	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00	19	0.0	0.19	0.0	0.03	0.09	0.0	0.0	0.27	0.00	0.0	0.03	
20	0.0	0.11	0.00	0.00	0.18	0.0	0.0	0.03	0.02	0.30	0.01	0.00	20	0.0	0.11	0.00	0.00	0.18	0.0	0.0	0.03	0.02	0.30	0.01	
21	0.0	0.62	0.0	0.04	0.09	0.00	0.0	0.01	0.12	0.00	0.03	0.00	21	0.0	0.62	0.0	0.04	0.09	0.00	0.0	0.01	0.12	0.00	0.03	
22	0.0	0.10	0.0																						

1968		MEAN DAILY DISCHARGE (cfs)				REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.433	0.425	1.229	0.430	0.272	0.138	0.043	0.011	0.006	0.006	0.011	0.011
2	0.301	0.683	1.225	0.641	0.230	0.130	0.034	0.011	0.006	0.006	0.011	0.011
3	0.171	0.779	1.434	0.535	0.263	0.122	0.030	0.011	0.006	0.006	0.011	0.011
4	0.276	0.768	1.432	0.641	0.404	0.122	0.030	0.011	0.006	0.006	0.014	0.011
5	0.350	0.725	1.356	0.771	0.473	0.122	0.030	0.011	0.006	0.006	0.017	0.011
6	0.186	0.624	1.433	0.698	0.376	0.122	0.030	0.011	0.006	0.006	0.017	0.011
7	0.144	0.682	1.328	0.803	0.293	0.122	0.030	0.011	0.006	0.006	0.017	0.011
8	0.164	0.611	1.233	0.609	0.252	0.122	0.030	0.011	0.006	0.006	0.017	0.011
9	0.541	0.498	0.956	0.473	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.011
10	0.616	0.543	0.556	0.544	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.014
11	0.267	0.397	0.563	0.584	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.017
12	0.268	0.340	0.645	0.501	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.017
13	0.363	0.321	0.645	0.605	0.220	0.114	0.030	0.011	0.006	0.006	0.017	0.020
14	0.369	0.280	0.660	0.826	0.210	0.107	0.030	0.011	0.006	0.006	0.017	0.026
15	0.625	0.343	0.678	0.639	0.210	0.100	0.030	0.011	0.006	0.006	0.017	0.039
16	0.572	0.320	0.668	0.487	0.210	0.093	0.026	0.011	0.006	0.006	0.017	0.047
17	0.355	0.486	0.760	0.485	0.201	0.087	0.023	0.011	0.006	0.006	0.017	0.043
18	0.375	6.757	0.782	0.574	0.191	0.080	0.023	0.011	0.006	0.006	0.017	0.048
19	0.409	5.436	0.737	0.608	0.191	0.074	0.023	0.011	0.006	0.006	0.017	0.057
20	0.410	10.362	0.737	0.543	0.189	0.068	0.023	0.011	0.006	0.006	0.014	0.057
21	0.443	16.656	0.651	0.568	0.172	0.063	0.023	0.011	0.006	0.006	0.011	0.057
22	0.433	7.262	0.738	0.659	0.163	0.052	0.023	0.011	0.006	0.006	0.011	0.075
23	0.454	12.137	0.737	0.628	0.163	0.047	0.020	0.009	0.006	0.006	0.011	0.115
24	0.453	5.512	0.809	0.557	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.714
25	0.460	3.983	1.189	0.571	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.544
26	0.342	2.820	1.210	0.631	0.172	0.052	0.017	0.006	0.006	0.006	0.011	0.182
27	0.337	1.969	1.024	0.513	0.163	0.057	0.017	0.006	0.006	0.006	0.011	0.138
28	0.270	1.615	0.952	0.393	0.154	0.057	0.014	0.006	0.006	0.006	0.011	0.107
29	0.360	1.289	0.774	0.341	0.154	0.052	0.011	0.006	0.006	0.006	0.011	0.100
30	0.424		0.492	0.285	0.166	0.047	0.011	0.006	0.006	0.006	0.011	0.107
31	0.406		0.337		0.138		0.011	0.006		0.009		0.107
MEAN	0.3735	2.9179	0.9025	0.5715	0.2226	0.0896	0.0247	0.0099	0.0065	0.0066	0.0141	0.0882
INCHES	0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008
STA AV	0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022

NOTES: To convert CPS to IN/DAY, multiply by 0.003034.

REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River.

AREA: 13453.00 acres 21.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	24.96	
	O 0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157	3.184	
STA AV	P 1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	0.0	
	O 0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144	6.373	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge				Maximum Volume for Selected Time Interval											
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1968	2-21	0.013	2-21	0.013	2-21	0.025	2-21	0.057	2-21	0.100	2-21	0.140	2-19	0.216	2-19	0.588

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	6-7	0.021	6-7	0.019	6-7	0.036	6-7	0.082	6-7	0.129	6-7	0.214	6-7	0.417	5-17	1.523
	1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed condition - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominately of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 25% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.4-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 16 rain gauges. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of Watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)												
Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
144062	011568	5.90	020168	5.80	021568	6.30	030168	4.25			121168	1.71
155054			020168	5.40	021568	6.20	030168	4.30			121168	1.04
163020	011568	10.00	020168	10.90	021568	11.30	030168	13.90	031568	15.20	121168	4.80
163098	011568	7.40	020168	9.30	021568	9.60	030168	12.80	031568	12.00	121168	3.00
167007	011568	4.90	020168	5.40	021568	4.20	030168	4.40	031568	4.90	121168	2.10
174026	011568	6.80	020168	9.10	021568	9.04	030168	11.60	031568	10.90	121168	2.65

1968	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.16	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
2	0.04	0.12	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.20	0.02	
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.0	0.51	0.0	
4	0.0	0.01	0.00	0.38	0.11	0.10	0.0	0.00	0.0	0.0	0.0	0.04	0.01	
5	0.0	0.02	0.21	0.45	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.00	0.06	0.02	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
8	0.09	0.0	0.0	0.00	0.0	0.28	0.00	0.0	0.0	0.0	0.0	0.49	0.0	
9	0.18	0.0	0.00	0.0	0.01	0.01	0.15	0.25	0.0	0.0	0.0	1.09	0.0	
10	0.37	0.0	0.0	0.0	0.01	0.0	0.0	0.42	0.01	0.0	0.0	0.05	0.04	
11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.0	0.06	0.15	
12	0.00	0.04	0.00	0.0	0.11	0.00	0.0	0.02	0.0	0.14	0.0	0.39	0.07	
13	0.00	0.07	0.18	0.0	0.08	0.00	0.0	0.38	0.00	0.32	0.02	0.0	0.0	
14	0.05	0.01	0.15	0.16	0.0	0.02	0.04	1.12	0.0	0.30	0.00	0.06	0.0	
15	0.43	0.07	0.0	0.11	0.06	0.0	0.0	0.00	0.12	0.08	0.22	0.22	0.0	
16	0.07	0.04	0.05	0.04	0.01	0.0	0.0	0.69	0.00	0.00	0.04	0.05	0.05	
17	0.00	0.33	0.17	0.00	0.01	0.0	0.0	0.81	0.0	0.0	0.0	0.01	0.01	
18	0.0	0.37	0.01	0.02	0.0	0.07	0.0	0.38	0.03	0.0	0.25	0.39	0.0	
19	0.0	0.51	0.0	0.04	0.14	0.11	0.00	0.38	0.06	0.01	0.0	0.02	0.0	
20	0.01	0.26	0.0	0.03	0.32	0.0	0.0	0.12	0.01	0.25	0.00	0.03	0.0	
21	0.01	1.09	0.0	0.02	0.0	0.00	0.0	0.01	0.16	0.0	0.04	0.03	0.0	
22	0.01	0.17	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.17	0.33	0.0	
23	0.0	0.37	0.0	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.04	0.95	0.0	
24	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.46	0.80	0.0	
25	0.0	0.0	0.25	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.04	0.15	0.0	
26	0.01	0.0	0.0	0.02	0.15	0.0	0.0	0.00	0.0	0.0	0.00	0.06	0.0	
27	0.02	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.17	0.0	
28	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.00	0.0	0.0	0.00	0.14	0.0	
29	0.04	0.00	0.0	0.0	0.00	0.04	0.00	0.00	0.0	0.04	0.04	0.01	0.0	
30	0.22	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.04	0.16	0.12	0.0	
31	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	
TOTAL	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96		
STA AV	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 15 recording pairs of gauges (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hason, "Computing Actual Precipitation", Proceedings of WMO-IMHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (O/S) \times 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014. Cooperative Research Project of USDA and USDI and Idaho Agricultural Experiment Station

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.11	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	1	0.11	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.07		
2	0.02	0.09	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.0	0.16	0.01	2	0.02	0.09	0.0	0.04	0.0	0.00	0.0	0.0	0.16	0.01		
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.43	0.0	3	0.01	0.0	0.00	0.0	0.01	0.0	0.00	0.0	0.43	0.0		
4	0.0	0.00	0.00	0.28	0.09	0.09	0.0	0.00	0.0	0.0	0.03	0.01	4	0.0	0.00	0.00	0.28	0.09	0.09	0.0	0.00	0.03	0.01		
5	0.0	0.00	0.15	0.32	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.00	5	0.0	0.00	0.15	0.32	0.05	0.02	0.0	0.0	0.0	0.00		
6	0.0	0.00	0.05	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.00	0.05	0.01	0.0	0.09	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.03	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0	7	0.0	0.0	0.03	0.0	0.0	0.00	0.0	0.0	0.03	0.0		
8	0.05	0.0	0.0	0.00	0.0	0.25	0.00	0.0	0.0	0.0	0.40	0.0	8	0.05	0.0	0.0	0.00	0.0	0.25	0.00	0.0	0.40	0.0		
9	0.13	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.83	0.0	9	0.13	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.83	0.0		
10	0.24	0.0	0.0	0.0	0.01	0.0	0.0	0.40	0.01	0.0	0.03	0.02	10	0.24	0.0	0.0	0.0	0.01	0.0	0.0	0.40	0.01	0.02		
11	0.00	0.0	0.0	0.00	0.05	0.01	0.0	0.01	0.00	0.04	0.04	0.09	11	0.00	0.0	0.0	0.00	0.05	0.01	0.0	0.01	0.00	0.09		
12	0.00	0.03	0.00	0.0	0.09	0.00	0.0	0.02	0.0	0.12	0.28	0.05	12	0.00	0.03	0.00	0.0	0.09	0.00	0.0	0.02	0.12	0.28		
13	0.00	0.06	0.10	0.0	0.06	0.00	0.0	0.29	0.00	0.28	0.01	0.0	13	0.00	0.06	0.10	0.0	0.06	0.00	0.0	0.29	0.00	0.28		
14	0.03	0.01	0.08	0.05	0.0	0.01	0.02	0.94	0.0	0.25	0.00	0.04	14	0.03	0.01	0.08	0.05	0.0	0.01	0.02	0.94	0.0	0.25		
15	0.38	0.06	0.0	0.06	0.04	0.0	0.0	0.00	0.11	0.07	0.14	0.13	15	0.38	0.06	0.0	0.06	0.04	0.0	0.0	0.00	0.11	0.07		
16	0.06	0.03	0.03	0.03	0.01	0.0	0.0	0.56	0.00	0.00	0.03	0.03	16	0.06	0.03	0.03	0.03	0.01	0.0	0.0	0.56	0.00	0.00		
17	0.00	0.28	0.09	0.00	0.01	0.0	0.0	0.65	0.0	0.0	0.0	0.01	17	0.00	0.28	0.09	0.00	0.01	0.0	0.0	0.65	0.0	0.0		
18	0.0	0.32	0.00	0.02	0.0	0.07	0.0	0.32	0.02	0.0	0.16	0.20	18	0.0	0.32	0.00	0.02	0.0	0.07	0.0	0.32	0.02	0.0		
19	0.0	0.46	0.0	0.02	0.13	0.09	0.00	0.31	0.03	0.01	0.0	0.01	19	0.0	0.46	0.0	0.02	0.13	0.09	0.00	0.31	0.03	0.01		
20	0.00	0.24	0.0	0.02	0.29	0.0	0.0	0.11	0.01	0.22	0.00	0.02	20	0.00	0.24	0.0	0.02	0.29	0.0	0.0	0.11	0.01	0.22		
21	0.01	1.00	0.0	0.02	0.0	0.00	0.0	0.01	0.09	0.0	0.02	0.01	21	0.01	1.00	0.0	0.02	0.0	0.00	0.0	0.01	0.09	0.0		
22	0.01	0.15	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.11	0.17	22	0.01	0.15	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0		
23	0.0	0.33	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.65	23	0.0	0.33	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.0	0.27	0.54	24	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.0		
25	0.0	0.0	0.16	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.02	0.08	25	0.0	0.0	0.16	0.0	0.05	0.0	0.0	0.00	0.0	0.0		
26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.03	26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0		
27	0.01	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.09	27	0.01	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0		
28	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.0	0.00	0.08	28	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.0		
29	0.02	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.03	0.02	0.00	29	0.02	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.0		
30	0.18	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.03	0.10	0.07	30	0.18	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0		
31	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	31	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.31	3.10	0.70	0.95	1.17	0.73	0.17	3.89	0.28	1.06	3.16	2.44	TOTAL	1.31	3.10	0.70	0.95	1.17	0.73	0.17	3.89	0.28	1.06	2.44	
STA AV													STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.13	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	1	0.13	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.09		
2	0.03	0.10	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.0	0.18	0.02	2	0.03	0.10	0.0	0.05	0.0	0.00	0.0	0.0	0.18	0.02		
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.47	0.0	3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.47		
4	0.0	0.00	0.00	0.33	0.10	0.09	0.0	0.00	0.0	0.0	0.04	0.01	4	0.0	0.00	0.00	0.33	0.10	0.09	0.0	0.00	0.0	0.04		
5	0.0	0.01	0.18	0.38	0.06	0.02	0.0	0.0	0.0	0.0	0.0	0.00	5	0.0	0.01	0.18	0.38	0.06	0.02	0.0	0.0	0.0	0.00		
6	0.0	0.00	0.06	0.02	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.00	0.06	0.02	0.0	0.09	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.04	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0	7	0.0	0.0	0.04	0.0	0.0	0.00	0.0	0.0	0.0	0.0		
8	0.07	0.0	0.0	0.00	0.0	0.27	0.00	0.0	0.0	0.0	0.44	0.0	8	0.07	0.0	0.0	0.00	0.0	0.27	0.00	0.0	0.0	0.44		
9	0.15	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.95	0.0	9	0.15	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.95		
10	0.30	0.0	0.0	0.0	0.01	0.0	0.0	0.41	0.01	0.0	0.04	0.03	10	0.30	0.0	0.0	0.0	0.01	0.0	0.0	0.41	0.01	0.03		
11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.05	0.12	11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.12		
12	0.00	0.04	0.00	0.0	0.10	0.00	0.0	0.02	0.0	0.13	0.33	0.06	12	0.00	0.04	0.00	0.0	0.10	0.00	0.0	0.02	0.0	0.13		
13	0.00	0.07	0.14	0.0	0.07	0.00	0.0	0.34	0.00	0.30	0.01	0.00	13	0.00	0.07	0.14	0.0	0.07	0.00	0.0	0.34	0.00	0.30		
14	0.04	0.01	0.11	0.09	0.0	0.02	0.03	1.03	0.0	0.28	0.00	0.05	14	0.04	0.01	0.11	0.09	0.0	0.02	0.03	1.03	0.0	0.28		
15	0.41	0.07	0.0	0.08	0.05	0.0	0.0	0.00	0.12	0.07	0.18	0.17	15	0.41	0.07	0.0	0.08	0.05	0.0	0.0	0.00	0.12	0.07		
16	0.07	0.03	0.04	0.04	0.01	0.0	0.0	0.62	0.00	0.00	0.03	0.04	16	0.07	0.03	0.04	0.04	0.01	0.0	0.0	0.62	0.00	0.00		
17	0.00	0.31	0.13	0.00	0.01	0.0	0.0	0.73	0.0	0.0	0.0	0.01	17	0.00	0.31	0.13	0.00	0.01	0.0	0.0	0.73	0.0	0.0		
18	0.0	0.35	0.00	0.02	0.0	0.07	0.0	0.35	0.02	0.0	0.20	0.29	18	0.0	0.35	0.00	0.02	0.0	0.07	0.0	0.35	0.02	0.0		
19	0.0	0.49	0.0	0.03	0.14	0.10	0.00	0.34	0.04	0.01	0.0	0.02	19	0.0	0.49	0.0	0.03	0.14	0.10	0.00	0.34	0.04	0.01		
20	0.00	0.25	0.0	0.02	0.31	0.0	0.0	0.12	0.01	0.24	0.00	0.03	20	0.00	0.25	0.0	0.02	0.31	0.0	0.0	0.12	0.01	0.24		
21	0.01	1.05	0.0	0.02	0.0	0.00	0.0	0.01	0.12	0.0	0.03	0.02	21	0.01	1.05	0.0	0.02	0.0	0.00	0.0	0.01	0.12	0.0		
22	0.01	0.16	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.14	0.24	22	0.01	0.16	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0		
23	0.0	0.35	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.78	23	0.0	0.35	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.36	0.66	24	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0		
25	0.0																								

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.190	1.510	13.316	10.297	15.833	8.103	1.681	0.009	0.235	0.309	1.034	2.581
2	2.190	1.743	12.305	9.895	15.520	7.779	1.477	0.012	0.285	0.349	1.309	2.410
3	2.043	1.737	11.655	8.824	15.942	7.588	1.116	0.016	0.335	0.363	1.767	2.333
4	1.728	1.785	11.977	9.396	17.171	7.586	0.981	0.012	0.297	0.377	1.743	2.275
5	1.890	1.770	12.422	12.421	16.771	7.527	0.914	0.012	0.246	0.392	1.419	2.247
6	1.436	1.766	11.861	9.968	14.028	7.569	0.732	0.012	0.203	0.438	1.190	2.218
7	1.036	1.780	11.044	9.212	12.565	7.131	1.056	0.012	0.161	0.500	1.122	2.190
8	1.466	1.854	9.872	8.763	12.522	7.014	0.449	0.016	0.143	0.550	1.466	2.190
9	1.752	1.824	8.623	9.281	13.772	7.606	0.493	0.023	0.134	0.584	1.979	2.145
10	1.712	1.901	8.002	10.088	14.342	6.108	0.734	0.027	0.126	0.567	3.905	2.290
11	1.831	1.759	7.748	11.886	14.302	5.384	0.423	0.019	0.102	0.567	3.180	2.124
12	1.670	1.717	7.479	11.748	15.095	5.050	0.328	0.016	0.087	0.676	3.836	1.882
13	1.649	1.697	7.924	10.245	14.317	4.838	0.372	0.016	0.081	0.934	2.852	1.877
14	1.662	1.842	7.014	10.992	12.925	4.520	0.297	0.064	0.088	1.121	2.288	2.233
15	3.600	1.746	6.519	11.516	12.480	4.089	0.268	0.834	0.157	1.121	2.584	2.217
16	3.272	1.654	6.604	10.514	11.621	3.927	0.240	0.376	0.212	1.014	2.411	2.100
17	2.342	2.621	6.471	9.640	11.516	3.617	0.219	3.995	0.212	0.929	2.370	1.951
18	2.116	7.139	5.964	9.496	11.249	3.359	0.116	2.480	0.235	0.908	3.117	1.974
19	2.025	20.502	5.587	9.202	11.165	3.335	0.079	2.991	0.311	0.993	4.338	1.972
20	1.898	45.964	5.577	8.818	14.440	3.344	0.056	2.488	0.440	1.143	4.002	1.847
21	1.984	76.350	5.598	7.896	11.955	3.069	0.050	2.049	0.568	1.122	3.689	1.670
22	1.996	30.700	5.868	7.862	11.443	2.795	0.045	1.661	0.585	1.034	4.489	1.857
23	1.982	74.690	5.852	7.660	11.861	2.813	0.036	1.230	0.517	1.013	3.785	2.382
24	1.778	37.989	5.965	7.759	11.351	2.551	0.027	0.942	0.423	0.992	3.522	10.509
25	1.810	23.849	6.601	8.063	10.902	2.435	0.023	0.708	0.349	0.950	3.516	6.113
26	1.759	19.670	6.235	8.192	11.123	2.091	0.019	0.595	0.297	0.929	3.158	3.962
27	2.244	15.672	6.212	8.408	10.647	1.859	0.016	0.445	0.246	0.929	3.144	3.015
28	2.039	13.796	7.193	9.423	9.873	2.020	0.016	0.498	0.246	0.950	2.685	3.382
29	1.654	13.014	8.841	12.182	9.436	2.161	0.016	0.468	0.270	0.992	2.621	6.150
30	1.765		9.544	14.760	8.878	1.940	0.016	0.408	0.283	1.013	2.653	3.722
31	1.611		9.001		8.705		0.012	0.299		1.013		2.689
MEAN	1.940	14.139	8.222	9.813	12.678	4.640	0.397	0.753	0.262	0.799	3.039	2.855
INCHES	0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157
STA AV	0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144

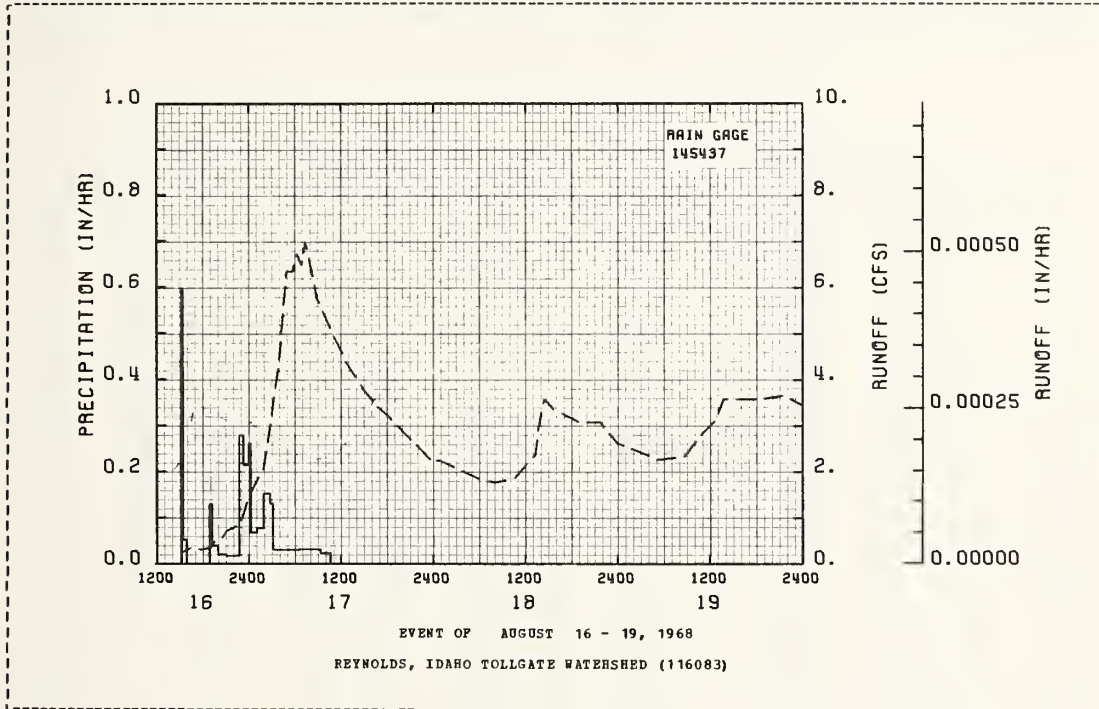
NOTES: To convert CFS to IN/DAY, multiply by 0.001769.

1968 SELECTED RUNOFF EVENT REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 16 - 19, 1968												
8-16	RG 145437 0.01	0.000	8-16	RG 145437 1516	0.0	0.0	8-16	1516	0.26	0.0		
				1527	0.6000	0.11		1632	0.36	0.0		
				1550	0.0522	0.13		1724	0.31	0.0		
				1850	0.0	0.13		1856	0.36	0.0		
				1913	0.1304	0.18		1926	0.48	0.0		
WATERSHED CONDITIONS:				1959	0.0391	0.21		2030	0.58	0.0		
Generally sagebrush range-				2100	0.0197	0.23		2106	0.73	0.0		
land. Vegetation consists				2246	0.0170	0.26		2250	0.85	0.0001		
predominately of big saqe-				2318	0.2813	0.41		2400	1.47	0.0002		
brush, little saqebrush,				2400	0.2143	0.56	8-17	156	2.08	0.0005		
rabbitbrush, snowberry,												
blue bunch wheatgrass,												
Idaho fescue, and squirrel-			8-17	16	0.2625	0.63		312	3.49	0.0008		
tail grass. 25% of area				101	0.0667	0.68		356	4.33	0.0010		
has 0-25% cover, 15% of area				155	0.0778	0.75		456	6.34	0.0014		
has 26-50% cover, 15% of				246	0.1529	0.88		544	6.34	0.0018		
area has 51-75% cover and				309	0.1304	0.93		618	6.72	0.0021		
45% of area has 76-100%												
cover.				627	0.0303	1.03		654	6.47	0.0024		
				917	0.0318	1.12		724	6.98	0.0026		
				1036	0.0228	1.15		854	5.75	0.0033		
								1110	4.90	0.0042		
								1248	4.33	0.0048		
								1508	3.73	0.0055		
								1638	3.42	0.0059		
								1806	3.20	0.0063		
								2026	2.79	0.0068		
								2400	2.19	0.0075		
							8-18	36	2.25	0.0076		
								614	1.81	0.0084		
								752	1.76	0.0086		
								1038	1.87	0.0090		
								1250	2.30	0.0093		
								1318	2.36	0.0094		
								1342	2.92	0.0095		
								1426	3.57	0.0097		
								1540	3.34	0.0100		
								1858	3.06	0.0108		

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 16 - 19, 1968 (CONTINUED)											
							8-18	2142	3.06	0.0114	
							2400	2.60	0.0119		
							8-19	510	2.25	0.0128	
								702	2.30	0.0131	
								828	2.30	0.0133	
								1108	2.86	0.0138	
								1244	3.13	0.0142	
								1346	3.57	0.0145	
								1804	3.57	0.0156	
								2130	3.65	0.0165	
								2400	3.42	0.0172	

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



REYNOLDS, IDAHO MURPHY CHEEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho: 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO MURPHY CHEEK WATERSHED (043004)
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P 1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	17.90
	O 0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137	1.760
STA AV	P 1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	0.0
	O 0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144	3.593

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days		
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	2-21	0.067	2-21	0.092	2-21	0.152	2-18	0.432			

MAXIMUMS FOR PERIOD OF RECORD														
1968	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	1-28	0.076	1-28	0.126	1-28	0.236
	1968		1968		1968		1968		1967		1967		1967	1967

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.11-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO MURPHY CHEEK WATERSHED (043004)
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.0	0.13	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.18	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0	
4	0.0	0.00	0.0	0.23	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04	
5	0.04	0.0	0.22	0.41	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01	0.0	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.09	0.0	
8	0.06	0.0	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.67	0.0	
9	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0	
10	0.23	0.0	0.0	0.0	0.09	0.0	0.0	0.19	0.0	0.0	0.03	0.08	
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.14	
12	0.0	0.09	0.0	0.0	0.52	0.0	0.0	0.08	0.0	0.08	0.39	0.0	
13	0.0	0.09	0.09	0.0	0.19	0.0	0.0	0.07	0.0	0.19	0.01	0.00	
14	0.0	0.0	0.27	0.0	0.05	0.0	0.06	0.75	0.0	0.19	0.0	0.05	
15	0.24	0.04	0.0	0.05	0.02	0.0	0.0	0.0	0.06	0.04	0.12	0.13	
16	0.12	0.0	0.00	0.02	0.05	0.0	0.0	0.39	0.0	0.01	0.17	0.07	
17	0.0	0.28	0.36	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.01	
18	0.0	0.42	0.0	0.14	0.0	0.0	0.0	0.20	0.01	0.0	0.23	0.20	
19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.27	0.0	0.0	0.04	0.01	
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.03	0.01	
21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.02	0.0	
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.11	0.11	
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.61	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.22	0.36	
25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.02	0.12	
26	0.0	0.0	0.0	0.05	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
27	0.03	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00	
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01	
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.05	0.0	0.0	
30	0.20	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.18	
31	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	
STA AV	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 3 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.0	0.09	0.01	0.10	0.0	0.0	0.0	0.00	0.0	0.0	0.16	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0	
4	0.0	0.00	0.0	0.21	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04	
5	0.04	0.0	0.18	0.29	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0	
8	0.03	0.0	0.0	0.0	0.0	0.21	0.01	0.0	0.0	0.0	0.60	0.0	
9	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0	
10	0.08	0.0	0.0	0.0	0.07	0.0	0.0	0.19	0.0	0.0	0.03	0.04	
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.08	0.06	
12	0.0	0.06	0.0	0.0	0.49	0.0	0.0	0.08	0.0	0.07	0.32	0.0	
13	0.0	0.07	0.04	0.0	0.18	0.0	0.0	0.07	0.0	0.16	0.01	0.00	
14	0.0	0.0	0.11	0.0	0.05	0.0	0.04	0.74	0.0	0.17	0.0	0.02	
15	0.11	0.03	0.0	0.01	0.02	0.0	0.0	0.0	0.06	0.04	0.05	0.06	
16	0.05	0.0	0.00	0.01	0.05	0.0	0.0	0.38	0.0	0.01	0.07	0.04	
17	0.0	0.27	0.12	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.00	
18	0.0	0.42	0.0	0.02	0.0	0.0	0.0	0.16	0.01	0.0	0.11	0.13	
19	0.0	0.30	0.0	0.01	0.06	0.0	0.0	0.26	0.0	0.0	0.01	0.01	
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.01	0.01	
21	0.0	0.72	0.0	0.01	0.27	0.0	0.0	0.0	0.21	0.0	0.01	0.0	
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.06	0.08	
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.47	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.10	0.28	
25	0.0	0.0	0.10	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.07	
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
27	0.01	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00	
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01	
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0	
30	0.07	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.13	
31	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.56	2.60	0.56	0.77	1.65	0.31	0.12	3.07	0.30	0.90	2.08	1.61	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09	0.02	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.0	0.11	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.17	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0	
4	0.0	0.00	0.0	0.22	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04	
5	0.04	0.0	0.20	0.35	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0	
8	0.04	0.0	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.64	0.0	
9	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0	
10	0.14	0.0	0.0	0.0	0.08	0.0	0.0	0.19	0.0	0.0	0.03	0.06	
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.10	
12	0.0	0.08	0.0	0.0	0.50	0.0	0.0	0.08	0.0	0.07	0.36	0.0	
13	0.0	0.08	0.06	0.0	0.19	0.0	0.0	0.07	0.0	0.17	0.01	0.00	
14	0.0	0.0	0.18	0.0	0.05	0.0	0.04	0.75	0.0	0.18	0.0	0.04	
15	0.17	0.03	0.0	0.02	0.02	0.0	0.0	0.0	0.06	0.04	0.08	0.09	
16	0.08	0.0	0.00	0.02	0.05	0.0	0.0	0.38	0.0	0.01	0.12	0.05	
17	0.0	0.27	0.22	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.00	
18	0.0	0.42	0.0	0.06	0.0	0.0	0.0	0.19	0.01	0.0	0.16	0.16	
19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.26	0.0	0.0	0.03	0.01	
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.02	0.01	
21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.01	0.0	
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.08	0.10	
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.55	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.15	0.32	
25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.10	
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
27	0.02	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00	
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01	
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0	
30	0.13	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.16	
31	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.82	2.68	0.80	0.92	1.70	0.33	0.12	3.10	0.30	0.94	2.41	1.94	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 Day	MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IOAHO MURPHY CREEK WATERSHED (043004)						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.199	0.051	0.312	0.105	0.066	0.025	0.0	0.0	0.0	0.0	0.001	0.039
2	0.137	0.062	0.299	0.105	0.059	0.023	0.0	0.0	0.0	0.0	0.002	0.037
3	0.044	0.070	0.287	0.105	0.059	0.025	0.0	0.0	0.0	0.0	0.004	0.037
4	0.034	0.070	0.274	0.122	0.066	0.028	0.0	0.0	0.0	0.0	0.006	0.039
5	0.034	0.059	0.253	0.133	0.066	0.030	0.0	0.0	0.0	0.0	0.007	0.039
6	0.032	0.053	0.223	0.121	0.062	0.030	0.0	0.0	0.0	0.0	0.011	0.039
7	0.032	0.050	0.214	0.116	0.059	0.032	0.0	0.0	0.0	0.0	0.022	0.037
8	0.037	0.050	0.205	0.116	0.056	0.034	0.0	0.0	0.0	0.0	0.034	0.034
9	0.042	0.050	0.189	0.116	0.056	0.032	0.0	0.0	0.0	0.0	0.037	0.034
10	0.044	0.047	0.174	0.116	0.071	0.025	0.0	0.0	0.0	0.0	0.034	0.037
11	0.042	0.044	0.166	0.121	0.086	0.021	0.0	0.0	0.0	0.0	0.042	0.039
12	0.039	0.044	0.159	0.121	0.078	0.019	0.0	0.0	0.0	0.0	0.047	0.037
13	0.039	0.044	0.152	0.116	0.066	0.017	0.0	0.0	0.0	0.0	0.042	0.034
14	0.048	0.044	0.152	0.116	0.059	0.017	0.0	0.0	0.0	0.0	0.039	0.037
15	0.053	0.044	0.146	0.116	0.053	0.016	0.0	0.0	0.0	0.0	0.037	0.039
16	0.050	0.037	0.146	0.116	0.050	0.009	0.0	0.0	0.0	0.0	0.034	0.039
17	0.047	0.103	0.146	0.116	0.050	0.004	0.0	0.0	0.0	0.0	0.037	0.039
18	0.044	0.524	0.139	0.110	0.050	0.002	0.0	0.0	0.0	0.0	0.048	0.039
19	0.044	0.329	0.133	0.105	0.060	0.002	0.0	0.0	0.0	0.0 T	0.056	0.039
20	0.044	0.813	0.121	0.105	0.063	0.002	0.0	0.0	0.0	0.001	0.053	0.037
21	0.050	1.129	0.116	0.105	0.053	0.001	0.0	0.0	0.0	0.001	0.047	0.034
22	0.059	0.518	0.116	0.100	0.050	0.0 T	0.0	0.0	0.0	0.001	0.042	0.034
23	0.059	0.986	0.110	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.042	0.050
24	0.056	0.577	0.110	0.095	0.044	0.0	0.0	0.0	0.0	0.001	0.042	0.292
25	0.053	0.522	0.116	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.159
26	0.047	0.454	0.110	0.090	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.091
27	0.044	0.388	0.105	0.086	0.044	0.0	0.0	0.0	0.0	0.001	0.039	0.077
28	0.042	0.355	0.105	0.082	0.042	0.0	0.0	0.0	0.0	0.001	0.039	0.073
29	0.039	0.340	0.105	0.073	0.037	0.0	0.0	0.0	0.0	0.001	0.039	0.066
30	0.039		0.105	0.070	0.034	0.0	0.0	0.0	0.0	0.001	0.039	0.062
31	0.039		0.105		0.032		0.0	0.0		0.001		0.062
MEAN	0.0521	0.2710	0.1644	0.1063	0.0553	0.0132	0.0	0.0	0.0	0.0002	0.0334	0.0566
INCHES	0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137
STA AV	0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144

NOTES: To convert CFS to IN/OA1, multiply by 0.077784.

REYNOLDS, IDAHO SUMMIT WATERSHED (048077)

LOCATION: Dwyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RNDPFF (inches)													REYNOLDS, IDAHO SUMMIT WATERSHED (048077)	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04	8.82
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.083
STA AV	P	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04	0.0
	O	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.042	0.0	0.0	0.0	0.0	0.043

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	8-14	0.125	8-14	0.033	8-14	0.033	8-17	0.038	8-16	0.038	8-13	0.043	8-12	0.043	8-9	0.083
MAXIMUMS FOR PERIOD OF RECORD																
	8-14	0.125	8-14	0.033	8-14	0.033	8-17	0.038	8-16	0.038	8-13	0.043	8-12	0.043	8-9	0.083
	1968		1968		1968		1968		1968		1968		1968		1968	

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Precipitation: 'Computed Actual' amounts from 1 rain gage. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968		DAILY PRECIPITATION (inches)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.36	0.0	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.04	0.0	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0	0.0
19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.26	0.0	0.0	0.03	0.0	0.0
20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.19	0.0
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.0
31	0.01		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04	
STA AV	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049X61. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IOHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (O/S) \times 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.29	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.09
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.37	0.58	0.13	0.19	0.83	0.38	0.03	3.71	0.0	0.38	1.01	0.85
STA AV												

NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.32	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.13
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.37	0.58	0.13	0.19	0.85	0.38	0.03	3.75	0.0	0.38	1.05	0.93
STA AV												

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs)													REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.377	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.377	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.334	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.334	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0231	0.0	0.0	0.0	0.0	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0231	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	INCHES	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	STA AV	0.0	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0

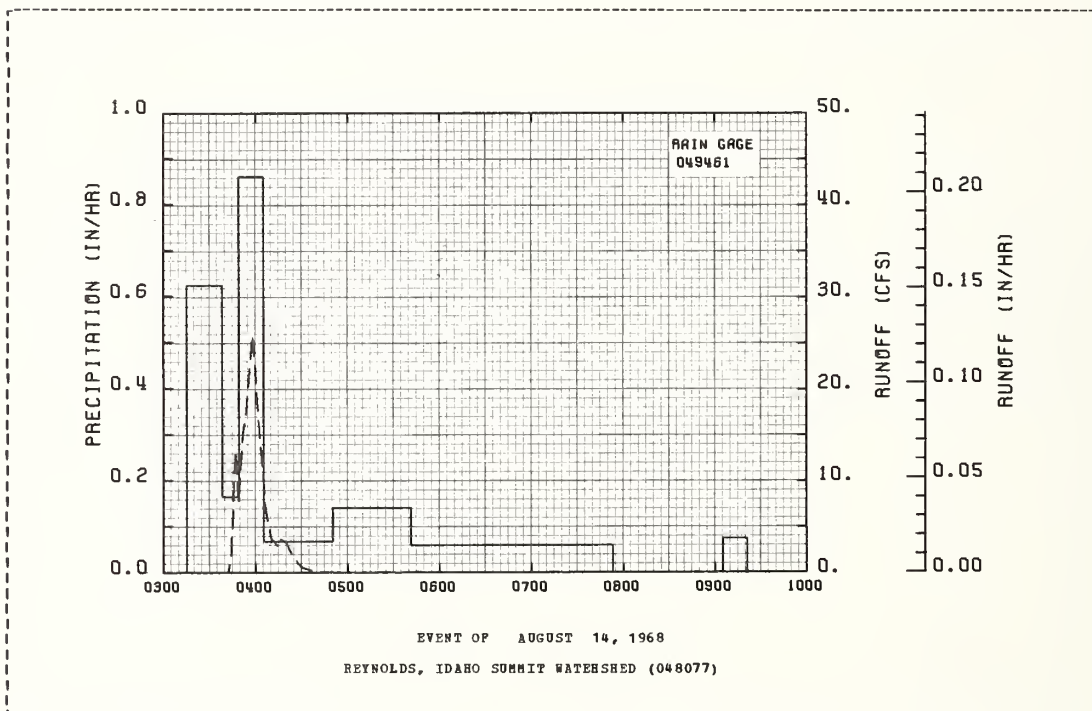
NOTES: To convert CFS to IN/DAY, multiply by 0.077784.

1968 SELECTED RUNOFF EVENT													REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF																		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.															
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)															
EVENT OF AUGUST 14, 1968																									
8-14	0.0	0.0	8-14	315	0.0	0.0	8-14	341	0.0	0.0															
				338	0.6261	0.24		342	0.07	0.0															
				349	0.1636	0.27		343	1.06	0.0															
				405	0.8625	0.50		344	2.16	0.0001															
				450	0.0667	0.55		345	5.29	0.0005															
WATERSHED CONDITIONS:																									
Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.																									
				541	0.1412	0.67		346	10.84	0.0011															
				753	0.0591	0.80		347	13.31	0.0020															
				905	0.0	0.80		348	10.00	0.0029															
				921	0.0750	0.82		349	7.51	0.0037															
								350	11.42	0.0044															
								351	13.31	0.0053															
								352	15.38	0.0064															
								354	17.67	0.0092															
								356	21.96	0.0122															
								358	25.86	0.0163															
								400	21.96	0.0204															
								401	18.48	0.0219															
								402	16.12	0.0232															
								404	12.34	0.0256															
								406	7.51	0.0271															
								408	5.48	0.0282															
								410	3.70	0.0289															
								414	2.92	0.0300															
								415	3.70	0.0303															
								420	3.17	0.0317															
								422	2.47	0.0321															
								424	1.88	0.0325															
								426	1.39	0.0327															
								428	0.83	0.0329															
								430	0.56	0.0330															
								432	0.38	0.0331															
								436	0.18	0.0332															
								440	0.09	0.0332															
								444	0.05	0.0332															
								448	0.02	0.0332															

NOTES: To convert CFS to IN/HR, multiply by 0.004838.

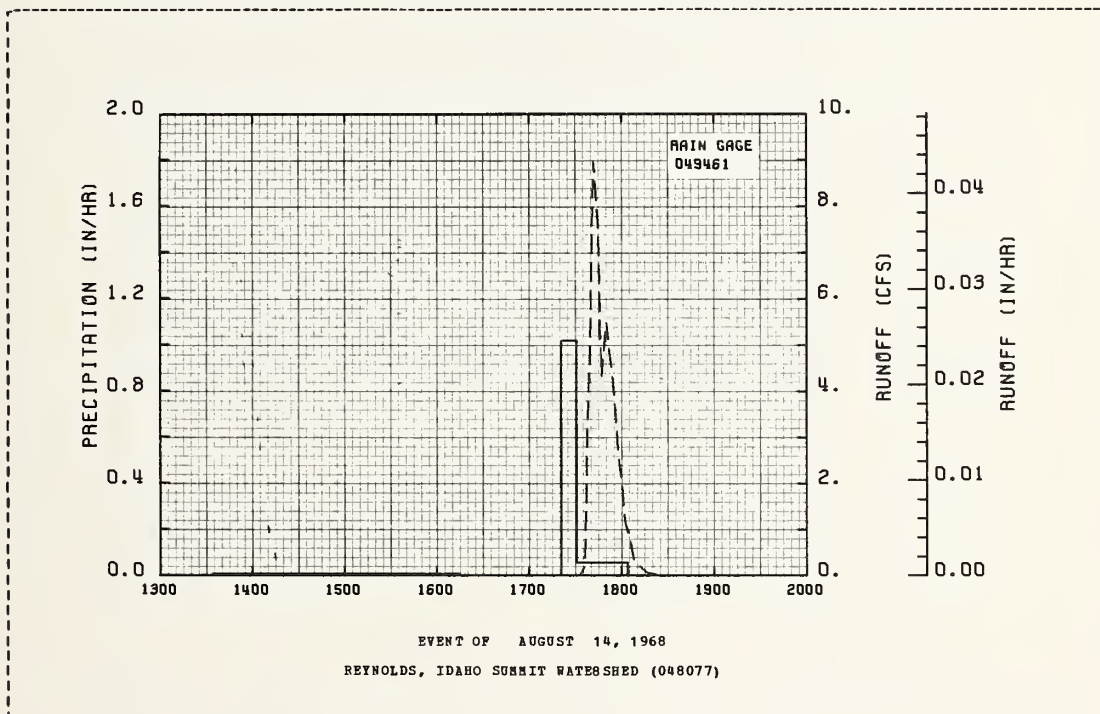
1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 14, 1968 (CONTINUED)											
								452	0.01	0.0332	
								456	0.0	0.0332	
								511	0.0	0.0332	
								512	0.01	0.0332	
								516	0.04	0.0332	
								518	0.07	0.0332	
								529	0.06	0.0333	
								536	0.06	0.0333	
								540	0.09	0.0333	
								544	0.06	0.0333	
								548	0.04	0.0333	
								552	0.02	0.0333	
								556	0.01	0.0333	
								600	0.0	0.0333	
								622	0.0	0.0333	
								629	0.01	0.0333	
								632	0.0	0.0333	
								700	0.0	0.0333	
								702	0.01	0.0333	
								704	0.04	0.0333	
								706	0.05	0.0333	
								712	0.05	0.0333	
								716	0.04	0.0333	
								718	0.02	0.0333	
								722	0.01	0.0333	
								724	0.0	0.0333	
								728	0.0	0.0333	
								940	0.0	0.0333	

NOTES: To convert CFS to IN/HR, multiply by 0.004838.



1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1968										
	RG 049461			8G 049461						
8-14	0.82	0.034	8-14	1334	0.0	0.0	8-14	1733	0.0	0.0
				1444	0.0086	0.01		1736	0.20	0.0
				1615	0.0066	0.02		1737	1.32	0.0001
				1721	0.0	0.02		1738	3.30	0.0003
				1731	1.0200	0.19		1740	5.48	0.0010
WATERSHED CONDITIONS:										
Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.				1804	0.0545	0.22		1741	7.51	0.0015
								1742	8.94	0.0023
								1745	7.51	0.0043
								1746	5.29	0.0048
								1747	4.29	0.0052
								1750	5.48	0.0064
								1754	4.29	0.0080
								1756	3.56	0.0086
								1758	2.58	0.0091
								1800	2.06	0.0095
								1802	1.18	0.0097
								1806	0.68	0.0100
								1808	0.32	0.0101
								1812	0.18	0.0102
								1816	0.06	0.0102
								1820	0.02	0.0102
								1824	0.0	0.0102

NOTES: To convert CFS to IN/HR, multiply by 0.004838.

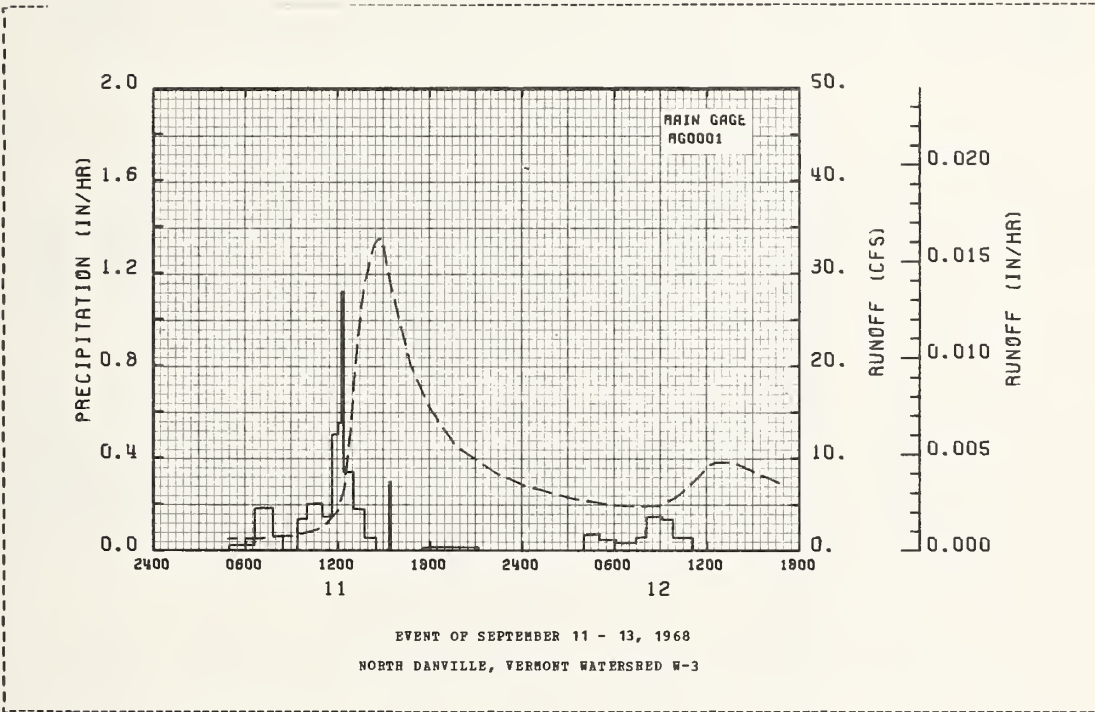


1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 16 - 17, 1968										
RG 049461			RG 049461							
8-16	0.0		8-16	1904	0.0	0.0	8-17	16	0.0	0.0
8-17		0.0		1940	0.2833	0.17		18	0.01	0.0
				2124	0.0058	0.18		20	0.06	0.0
				2314	0.0164	0.21		22	0.09	0.0
				2400	0.1435	0.32		26	0.13	0.0
WATERSHED CONDITIONS:										
Sagebrush rangeland with			8-17	40	0.1200	0.40		38	0.15	0.0001
almost exclusive cattle				122	0.2571	0.58		40	0.22	0.0001
grazing in early spring and				220	0.1759	0.75		46	0.27	0.0002
late fall. Numerous barren				306	0.1696	0.88		56	0.32	0.0004
ridges. Vegetation consists				422	0.0711	0.97		100	0.45	0.0005
largely of big sagebrush,										
cheatgrass, Sandberg blue				506	0.0545	1.01		102	0.68	0.0006
grass, bluebunch wheatgrass,				606	0.1000	1.11		104	1.00	0.0007
and squirreltail grass. 25%				740	0.0574	1.20		106	1.62	0.0009
of the area has a vegetative				1006	0.0123	1.23		108	1.97	0.0012
cover of 0-25% and 75% of the				1231	0.0248	1.29		112	2.69	0.0019
area has a vegetative cover										
of 25-50%.										
								116	3.43	0.0029
								118	3.85	0.0034
								124	3.56	0.0052
								132	3.85	0.0076
								142	3.70	0.0107
								144	3.17	0.0112
								148	2.69	0.0121
								156	2.26	0.0137
								202	2.06	0.0148
								208	2.06	0.0158
								212	2.26	0.0165
								214	2.47	0.0169
								216	3.04	0.0174
								220	3.43	0.0184
								224	3.85	0.0196
								233	4.29	0.0225
								235	3.99	0.0232
								236	3.30	0.0235
								240	2.92	0.0245
								244	2.69	0.0254
								246	2.36	0.0258
								248	2.58	0.0262
								251	2.26	0.0268
								258	2.69	0.0282
								259	2.36	0.0284
								302	2.69	0.0290
								306	2.36	0.0298
								312	2.47	0.0310
								316	2.26	0.0318
								318	2.36	0.0321
								322	2.26	0.0328
								324	2.06	0.0332
								326	1.79	0.0335
								328	1.54	0.0338
								332	1.62	0.0343
								336	1.39	0.0348
								340	1.12	0.0352
								344	0.88	0.0355
								348	0.68	0.0358
								350	0.52	0.0359
								352	0.41	0.0360
								400	0.29	0.0362
								404	0.20	0.0363
								408	0.15	0.0364
								410	0.18	0.0364
								412	0.13	0.0364
								416	0.09	0.0364
								419	0.13	0.0364
								422	0.09	0.0364
								426	0.10	0.0364
								429	0.08	0.0364
								439	0.09	0.0365
								448	0.10	0.0366
								452	0.08	0.0366
								456	0.06	0.0366
								500	0.04	0.0366
								504	0.03	0.0366
								520	0.02	0.0366
								532	0.02	0.0366
								544	0.09	0.0367

NOTES: To convert CFS to IN/HR, multiply by 0.004838.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-3								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 11 - 13, 1968 (CONTINUED)											
							9-13	2113	2.70	0.2064	
								2400	2.70	0.2100	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004797. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.001. For antecedent runoff, see table of daily runoff amounts.



NORTH DANVILLE, VERMONT WATERSHED W-4

LOCATION: Caledonia County, Vermont; 4.7 mi. NW of St. Johnsbury; Morrill Brook, Sleepers River, Connecticut River Basin.

AREA: 10752.00 acres 16.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													NORTH DANVILLE, VERMONT WATERSHED W-4	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64	
Q	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137	19.379	
STA AV P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13	
O	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157	18.526	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	3-24	0.037	3-24	0.037	3-24	0.073	3-23	0.213	3-23	0.401	3-23	0.649	3-22	1.129	3-22	2.405
MAXIMUMS FOR PERIOD OF RECORD																
	4-18	0.040	4-18	0.040	3-24	0.073	3-23	0.213	3-23	0.401	10-6	0.660	3-22	1.129	4-12	2.750
	1960		1960		1968		1968		1968		1962		1968		1960	

NOTES: Forest, 74%; cultivated, 12%; pasture, 12%; and idle, 2%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 67.4-19. Precipitation records began 1959. Runoff records began January 1, 1960. For long-time precipitation records, see D.S. Weather Bureau records at St. Johnsbury, Vt.

1968	DAILY PRECIPITATION (inches)												NORTH DANVILLE, VERMONT WATERSHED W-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0		
2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11		
3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04		
4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05		
5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35		
6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18		
7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01		
8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01		
9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01		
10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0		
11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0		
12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0		
13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0		
14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29		
15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48		
16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05		
17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01		
18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0		
19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14		
20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45		
21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0		
22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05		
23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52		
24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03		
25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02		
26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0		
27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0		
28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05		
29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04		
30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89		
STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77		

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr period.

1968		MEAN DAILY DISCHARGE (cfs)					NORTH OANVILLE, VERMONT WATERSHED W-4					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	16.90	11.07	8.61	144.30	43.05	29.46	35.31	4.54	2.74	3.86	8.06	17.71
2	16.90	12.36	8.59	95.35	37.54	24.03	20.11	4.86	2.49	3.52	8.76	20.41
3	16.72	25.28	8.44	87.17	34.28	24.61	14.75	4.27	2.48	3.44	8.51	19.81
4	16.90	30.07	8.44	96.28	39.76	20.85	12.78	3.44	2.48	6.72	7.55	20.07
5	16.41	18.55	8.44	144.21	33.71	18.30	11.62	3.15	2.29	15.24	7.04	47.64
6	15.79	15.88	8.28	90.35	30.03	16.56	17.45	2.88	3.06	9.71	6.90	26.80
7	15.63	14.53	8.03	79.75	27.79	15.11	15.41	3.86	6.98	13.77	7.01	19.82
8	13.98	13.40	7.78	80.71	27.25	14.32	12.49	3.52	4.35	16.71	14.03	16.60
9	14.10	12.67	7.94	86.99	26.78	31.27	10.38	3.27	3.23	10.02	13.33	14.40
10	13.71	12.44	9.20	78.80	34.38	69.33	48.04	7.27	2.60	7.80	12.22	13.03
11	13.25	11.49	9.01	68.33	27.38	31.26	26.22	4.23	37.03	7.73	12.80	10.88
12	12.90	10.98	8.98	65.21	26.61	29.72	16.19	3.09	31.54	7.69	10.64	12.63
13	12.69	10.75	9.14	68.78	25.49	28.85	12.46	2.66	16.02	6.89	10.43	14.06
14	12.56	10.38	8.57	67.40	22.08	22.74	10.90	2.52	9.78	6.10	9.90	16.28
15	12.56	10.38	8.44	71.66	20.51	22.78	9.83	2.22	7.06	5.71	9.14	17.84
16	12.56	10.13	9.31	74.55	19.09	32.29	8.58	1.94	5.90	5.45	10.07	16.97
17	11.14	10.17	26.11	52.39	65.74	23.94	7.99	3.37	5.10	5.28	8.94	16.10
18	11.72	9.56	61.68	46.19	44.67	23.45	9.30	6.55	4.66	5.08	11.95	14.39
19	11.64	9.36	86.55	42.46	72.57	22.46	9.37	3.75	4.03	5.67	65.85	13.71
20	11.92	9.52	89.21	39.21	100.71	31.53	9.05	13.76	3.59	16.91	28.40	13.75
21	12.04	9.02	84.50	37.06	63.59	21.85	6.68	22.07	3.28	9.70	18.29	13.75
22	11.72	8.51	220.23	35.38	48.44	24.36	5.75	8.52	3.16	7.34	16.09	13.58
23	11.60	8.44	207.98	32.57	41.14	22.91	4.96	5.69	2.81	6.54	14.55	14.63
24	11.60	8.22	214.42	62.34	33.03	23.62	4.88	4.65	2.71	6.36	14.57	14.65
25	11.29	8.19	79.20	185.35	29.56	33.38	5.74	9.31	6.30	7.53	23.15	13.11
26	11.17	7.99	73.89	68.60	26.49	23.16	4.84	6.52	7.89	10.85	15.64	13.58
27	10.98	7.81	89.18	72.88	24.75	20.35	4.07	4.52	5.21	7.91	15.11	13.58
28	10.98	7.93	93.16	60.80	22.63	20.95	7.89	4.04	4.40	15.25	13.69	13.58
29	10.98	8.31	110.16	47.77	21.76	29.75	9.16	3.60	4.07	18.21	74.95	13.58
30	11.12		117.67	44.24	26.21	46.53	5.98	3.19	3.84	11.62	32.79	13.49
31	11.08		107.69		41.54		4.72	2.97		9.31		13.23
MEAN	13.049	11.840	58.025	74.235	36.726	26.656	12.352	5.167	6.702	8.837	17.011	16.569
INCHES	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137
STA AV	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157

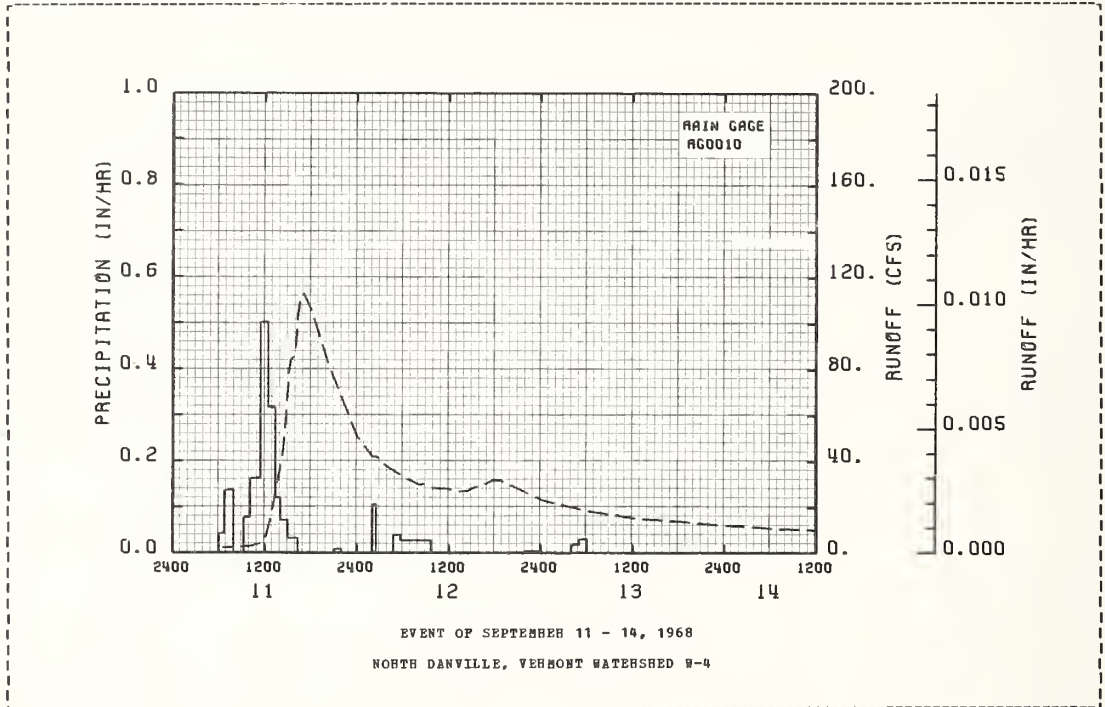
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002213695. STA AV based on 9 yr period.

1968		SELECTED RUNOFF EVENT			NORTH OANVILLE, VERMONT WATERSHED W-4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 11 - 14, 1968												
9-11	RG 10 0.0	0.002	9-11	RG 10	558	0.0	0.0	9-11	633	2.52	0.0	
					639	0.0439	0.03		720	2.65	0.0002	
					753	0.1378	0.20		846	2.92	0.0006	
					910	0.0	0.20		1018	3.35	0.0010	
					1003	0.0792	0.27		1117	4.33	0.0013	
WATERSHED CONDITIONS:					1120	0.1636	0.48		1200	6.51	0.0017	
74% forest land; 12% pastured					1222	0.5032	1.00		1239	14.64	0.0023	
land; 12% cultivated; 2% idle					1319	0.3158	1.30		1315	25.37	0.0034	
land with dense grass and					1359	0.1200	1.38		1351	35.96	0.0051	
brush growth.					1458	0.0712	1.45		1416	43.80	0.0066	
					1614	0.0316	1.49		1446	62.34	0.0090	
					2059	0.0	1.49		1504	77.87	0.0109	
					2159	0.0100	1.50		1517	84.87	0.0125	
			9-12		200	0.0	1.50		1548	85.90	0.0166	
					228	0.1071	1.55		1603	92.23	0.0187	
					440	0.0	1.55		1616	104.54	0.0207	
					538	0.0414	1.59		1629	109.25	0.0228	
					937	0.0276	1.70		1657	112.86	0.0276	
					2200	0.0	1.70		1757	105.71	0.0377	
					2400	0.0050	1.71		2013	81.83	0.0573	
			9-13		357	0.0	1.71		2400	50.30	0.0804	
					500	0.0190	1.73	9-12	157	41.76	0.0887	
					559	0.0305	1.76		224	41.76	0.0904	
									358	37.20	0.0961	
									559	32.96	0.1026	
									758	29.56	0.1083	
									830	30.11	0.1098	
									928	28.48	0.1124	
									1018	27.95	0.1146	
									1129	27.95	0.1177	
									1244	26.90	0.1209	
									1413	26.90	0.1246	
									1458	28.48	0.1265	
									1630	30.11	0.1306	
									1731	31.80	0.1335	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED #4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)										
							9-12	1828	31.80	0.1363
								2014	29.02	0.1413
								2400	22.94	0.1503
							9-13	559	18.10	0.1616
								1200	15.00	0.1708
								1759	13.58	0.1787
								2400	11.92	0.1858
							9-14	600	10.68	0.1921
								1200	9.80	0.1978
								1800	8.71	0.2029
								2400	7.93	0.2075

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



NORTH DANVILLE, VERMONT WATERSHED W-5

LOCATION: Caledonia County, Vermont; 2 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.

AREA: 27469.00 acres 42.92 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-5															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64															
	O	0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122	18.289															
STA AV	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13															
	O	1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338	19.707															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	4-25	0.030	4-25	0.030	4-25	0.060	3-23	0.167	4-24	0.317	3-23	0.512	3-22	0.867	3-17	2.349

MAXIMUMS FOR PERIOD OF RECORD															
1960	1960	1960	1960	1960	1960	1962	1962	1962	1962	1962	1962	1964	1964	1960	
4-18	0.037	4-18	0.036	4-18	0.072	3-25	0.198	10-7	0.383	10-6	0.698	4-16	1.117	4-12	3.140

NOTES: Watershed conditions: Forest predominantly hardwoods, 67%; cultivated land consisting of mostly clover, orchard grass, and timothy hay with very little in row crops, 17%; pasture of mostly bluegrass, 13%; idle land in tall grasses and woody plants, 2%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 67.5-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see D.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY PRECIPITATION (inches)														NORTH DANVILLE, VERMONT WATERSHED W-5													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0	1	0.0	0.0	0.19	0.21	0.0	0.0	0.09	0.0	0.0	0.02	0.0			
2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11	2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11		
3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04	3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.04	0.34	0.0	0.04	0.04		
4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	0.0	4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.29	0.0	0.0	1.05		
5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.35		
6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18	6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18		
7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01	7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01		
8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01	8	0.0	0.0	0.0	0.02	0.0	0.0	0.02	0.0	0.02	0.0	0.01	0.48		
9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01	9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.0	0.01		
10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0	10	0.0	0.11	0.0	0.04	0.0	0.0	0.27	0.57	0.02	0.0	0.0	0.23		
11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0	11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0		
12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0	12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.0	0.13		
13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0	13	0.0	0.02	0.34	0.0	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20		
14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29	14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.0	0.29		
15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48	15	0.11	0.14	0.0	0.49	0.0	0.0	0.40	0.0	0.0	0.43	0.0	0.48		
16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05	16	0.0	0.0	0.05	0.0	0.14	0.0	0.0	0.01	0.0	0.0	0.0	0.03		
17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01	17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.0	0.05		
18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0	18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	0.0	1.03		
19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14	19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.0	0.0	0.08		
20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45	20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.0	0.0	0.45		
21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0	21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.0	0.05		
22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05	22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.0	0.26		
23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52	23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52		
24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03	24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.0	0.05		
25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02	25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02		
26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0	26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0		
27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0	27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.16		
28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05	28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.0	0.0	0.65		
29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04	29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.0	0.0	0.43		
30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0	30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89		
STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77		

NOTES: For temperature data see table of maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gauge R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	41.89	26.13	24.73	428.33	84.78	66.48	104.95	9.96	6.82	7.51	18.23	44.74
2	41.89	29.92	24.83	237.17	76.71	47.62	48.75	11.43	6.17	6.78	20.53	48.47
3	41.74	79.17	19.15	212.21	70.75	49.60	32.68	10.38	6.14	6.70	19.22	46.17
4	38.97	100.56	21.54	241.85	84.32	41.44	26.68	8.24	6.19	11.39	16.46	45.65
5	37.28	67.17	21.20	370.02	72.58	34.87	23.21	7.32	5.38	30.66	14.56	123.39
6	35.50	45.91	20.71	206.15	62.55	29.64	36.20	6.71	6.38	19.05	14.60	69.46
7	34.96	40.33	20.11	176.20	54.71	26.34	30.84	8.62	14.66	29.69	15.03	53.32
8	33.64	36.36	19.95	180.70	51.88	25.09	23.89	7.94	9.36	38.09	32.51	44.10
9	33.77	33.71	20.79	201.59	51.09	61.06	18.40	7.39	6.55	21.74	32.48	34.05
10	31.22	31.77	23.43	178.45	68.75	180.92	93.21	13.25	5.21	16.93	29.80	31.43
11	28.63	30.02	24.36	149.63	52.88	68.97	52.76	8.86	96.67	16.80	30.52	29.14
12	28.07	27.60	24.64	139.54	51.40	61.82	31.34	6.30	76.81	16.71	25.53	33.84
13	27.38	26.24	24.85	148.49	51.18	77.33	23.48	5.23	35.39	14.50	25.36	38.47
14	27.15	25.36	23.36	143.92	42.38	57.62	19.78	4.66	21.02	12.77	23.93	45.14
15	27.84	25.36	21.93	162.23	38.03	47.29	17.38	3.82	14.39	11.88	21.79	53.19
16	28.07	24.82	25.13	180.88	35.15	72.58	15.42	3.72	11.91	11.32	24.25	46.50
17	27.38	24.97	109.61	114.25	156.95	52.10	25.27	6.28	10.56	10.81	20.55	39.56
18	25.91	24.00	265.42	98.29	107.58	49.23	25.98	15.97	9.79	10.49	27.65	35.63
19	25.69	23.93	334.37	89.80	186.25	49.48	30.65	8.47	8.85	10.90	181.16	34.16
20	26.36	23.64	328.28	81.79	270.27	84.31	37.59	20.41	7.84	36.63	74.52	34.03
21	27.50	21.95	272.89	76.16	156.32	50.84	25.94	49.94	7.11	19.90	48.21	34.03
22	27.27	21.20	448.55	73.17	105.70	44.03	24.60	19.18	6.59	14.19	39.54	34.03
23	27.15	21.10	439.56	67.30	85.74	44.31	22.52	12.89	6.19	13.08	35.28	36.70
24	27.05	19.85	438.85	147.01	68.10	53.89	21.23	10.97	5.67	13.02	35.59	37.81
25	26.58	19.66	186.87	522.08	58.23	86.94	24.93	26.27	9.64	15.43	59.76	35.09
26	25.70	19.66	171.54	159.42	50.84	54.41	14.63	17.32	12.96	23.73	41.68	34.83
27	25.36	19.66	224.28	176.11	46.10	46.87	8.88	11.75	9.42	16.65	35.76	32.37
28	25.36	20.23	246.12	145.48	42.23	48.64	18.08	10.64	8.08	37.33	31.62	29.98
29	25.36	21.10	302.12	106.15	40.16	68.89	18.72	9.41	7.28	53.69	227.04	29.98
30	26.47	325.59	92.46	52.99	123.39	11.95	8.24	7.18	30.24	88.34	29.98	29.98
31	26.59	281.22	82.50	82.50	82.50	10.06	7.36	7.36	23.33	23.33	29.98	29.98
MEAN	30.12	32.12	152.77	176.89	79.32	60.20	29.68	11.58	14.87	19.42	43.72	41.78
INCHES	0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122
STA AV	1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338

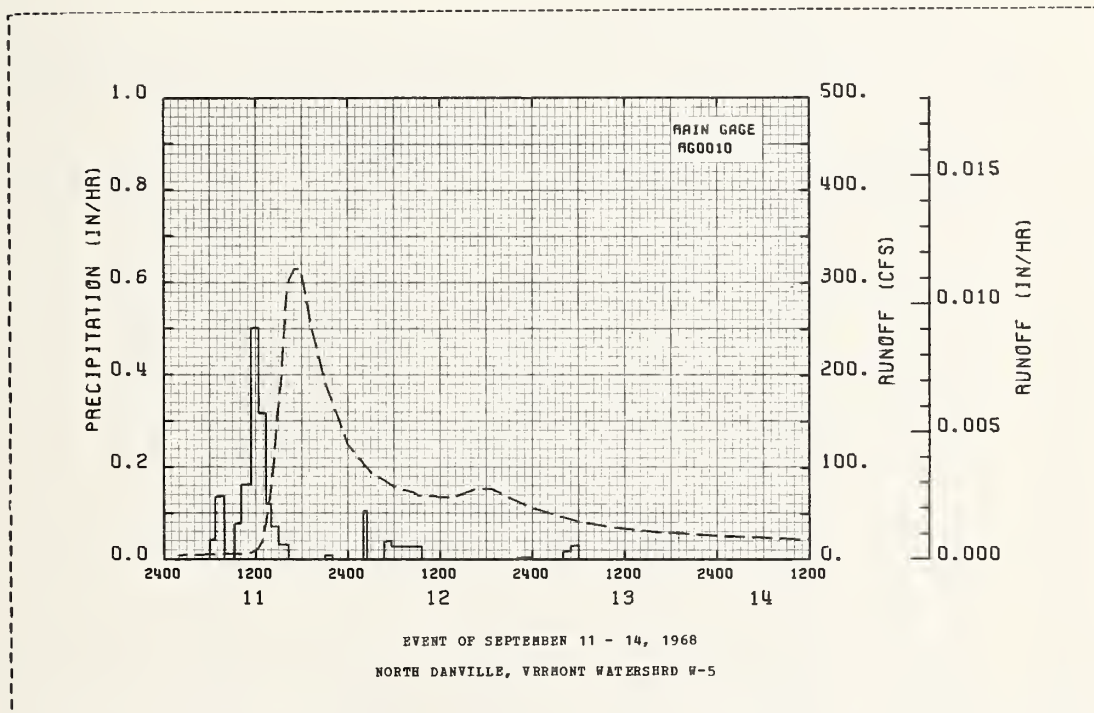
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0008665. STA AV based on 9 yr record period.

1968 SELECTED RUNOFF EVENT NORTH DANVILLE, VERMONT WATERSHED W-5											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 11 - 14, 1968											
9-11	RG 10 0.0	0.000	9-11	RG 10	0.0	0.0	9-11	143	4.96	0.0	
					0.0439	0.03		317	5.63	0.0003	
					0.1378	0.20		559	5.98	0.0009	
					0.0	0.20		735	6.35	0.0013	
					0.0792	0.27		754	6.73	0.0014	
WATERSHED CONDITIONS:											
67% forest; 17% hay; 13%				1120	0.1636	0.48		849	6.73	0.0016	
pastured land; 2% idle land				1222	0.5032	1.00		930	6.35	0.0018	
with dense brush and grass				1319	0.3158	1.30		1014	6.73	0.0020	
growth; 1% homesites and				1359	0.1200	1.38		1130	8.40	0.0023	
roads.				1458	0.0712	1.45		1215	12.44	0.0026	
				1614	0.0316	1.49		1249	21.20	0.0029	
				2059	0.0	1.49		1320	40.70	0.0035	
				2159	0.0100	1.50		1400	78.66	0.0049	
			9-12	200	0.0	1.50		1422	107.85	0.0061	
				228	0.1071	1.55		1447	155.96	0.0081	
				440	0.0	1.55		1523	202.56	0.0120	
				538	0.0414	1.59		1536	235.56	0.0137	
				937	0.0276	1.70		1558	283.15	0.0171	
				2200	0.0	1.70		1621	302.90	0.0211	
				2400	0.0050	1.71		1700	315.14	0.0284	
			9-13	357	0.0	1.71		1741	315.14	0.0361	
				500	0.0190	1.73		1808	302.90	0.0412	
				559	0.0305	1.76		1912	253.23	0.0519	
								2057	193.25	0.0660	
								2400	123.46	0.0834	
							9-12	300	93.52	0.0952	
								558	78.66	0.1044	
								830	71.81	0.1113	
								914	68.53	0.1132	
								1057	68.53	0.1175	
								1145	66.92	0.1195	
								1313	66.92	0.1230	
								1348	68.53	0.1244	
								1530	73.49	0.1288	
								1630	76.91	0.1315	

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)										
							9-12	1830	76.91	0.1371
								2029	68.53	0.1423
								2230	60.73	0.1470
								2400	54.91	0.1501
							9-13	601	40.70	0.1605
								1029	34.03	0.1665
								1632	29.02	0.1734
								2059	27.15	0.1779
								2400	25.36	0.1808
							9-14	558	23.64	0.1861
								1200	21.20	0.1910
								1759	18.20	0.1953
								2400	16.80	0.1991

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



REYNOLDS, IOAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO WATERSHED W-1 (036068)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	15.78	
	O 0.045	0.261	0.096	0.044	0.037	0.024	0.012	0.018	0.006	0.005	0.015	0.034	0.596	
STA AV	P 0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	0.0	
	O 0.373	0.298	0.203	0.416	0.482	0.305	0.032	0.025	0.012	0.017	0.037	0.271	2.470	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
Date	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	2-21	0.005	2-21	0.005	2-21	0.010	2-21	0.025	2-21	0.040	2-21	0.056	2-20	0.088	2-18	0.215		
MAXIMOMS FOR PERIOD OF RECORD																		
	12-23	0.065	12-23	0.064	12-23	0.125	12-23	0.270	12-23	0.327	12-23	0.453	12-23	0.721	12-28	1.313		
	1964		1964		1964		1964		1964		1964		1964		1965			

NOTES: Watershed conditions: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. Revised map of Watershed in this publication. Previous map published in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, OSOA, Misc. Pub. 1164, p. 68.1-8. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968 DAILY AIR TEMPERATURE (degrees F)														REYNOLDS, IOAHO WATERSHED W-1 (036068)										
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	36	27	43	34	55	28	53	39	78	30	74	43	82	50	88	56	86	49	76	42	51	24	32	26
2	31	14	51	33	57	28	47	40	65	36	80	54	87	45	88	75	70	54	64	36	47	34	34	23
3	32	12	49	38	60	27	51	30	65	31	71	59	90	50	84	58	69	42	73	30	43	29	46	30
4	39	10	52	31	61	32	57	26	73	39	70	50	92	56	90	54	75	43	72	40	52	32	45	32
5	36	15	36	28	53	34	45	32	74	36	70	47	95	47	93	62	78	46	63	34	46	31	48	26
6	30	9	47	37	44	28	43	29	48	26	65	50	98	58	87	54	83	46	62	39	45	25	36	20
7	32	10	46	28	43	28	46	30	52	23	66	50	97	63	96	52	78	56	51	34	46	31	41	24
8	38	20	44	21	42	22	55	28	59	29	64	44	96	62	93	63	83	57	54	27	55	33	48	28
9	45	23	42	29	45	25	65	29	69	34	72	50	94	84	90	64	87	50	56	72	55	29	52	28
10	44	21	44	18	48	20	76	34	75	53	78	43	91	64	83	61	89	56	68	46	45	25	53	36
11	30	20	49	20	55	30	65	30	70	40	86	47	97	57	85	60	87	63	72	42	52	36	42	28
12	31	12	35	19	56	30	64	20	67	45	72	45	82	63	96	58	75	50	63	44	42	38	36	18
13	35	18	34	18	45	32	44	15	59	44	71	59	81	52	76	58	86	46	48	38	38	31	32	15
14	38	22	34	15	48	30	47	22	53	37	72	40	81	58	62	54	72	56	53	35	34	21	43	29
15	52	32	35	26	52	30	68	40	57	32	80	45	78	50	67	46	61	48	51	39	37	28	42	30
16	45	29	44	26	50	36	50	26	56	34	88	46	84	52	67	51	64	42	49	37	34	26	34	25
17	37	18	47	30	38	31	40	27	65	33	93	55	79	54	63	46	76	40	52	26	41	22	31	22
18	35	18	47	41	41	32	49	20	74	40	95	54	89	48	65	45	80	54	52	27	40	33	34	21
19	43	20	53	42	46	27	56	33	77	48	95	60	97	52	66	49	56	40	58	22	43	29	26	13
20	44	22	55	43	52	22	44	19	71	50	80	52	78	48	61	42	48	38	54	30	39	30	24	15
21	43	22	47	41	58	22	42	25	74	48	88	54	90	50	61	41	48	39	51	25	43	35	24	10
22	41	24	48	37	61	30	45	27	66	34	83	52	87	56	67	50	60	37	61	32	50	33	21	10
23	44	31	56	43	61	39	55	22	63	38	76	56	89	51	75	52	68	36	62	32	49	28	34	20
24	43	18	51	30	57	37	61	32	60	45	80	58	92	52	81	46	71	38	65	31	40	28	42	32
25	35	22	53	27	58	33	58	32	67	47	89	50	93	55	82	50	74	38	68	35	43	22	39	29
26	29	12	52	28	48	32	56	39	66	37	102	55	94	66	79	56	76	40	63	32	39	22	32	27
27	27	14	52	28	62	26	52	28	68	40	90	60	99	58	78	53	75	43	64	28	42	28	31	26
28	30	10	54	26	62	39	60	25	74	41	68	42	99	65	71	50	68	38	59	32	43	25	38	16
29	40	22	57	26	69	34	71	36	82	46	65	44	98	68	77	46	70	39	61	37	42	20	23	14
30	36	28			51	30	80	40	75	38	74	38	88	60	82	47	72	40	40	29	38	23	23	10
31	35	16			52	39			69	37			86	54	86	49			48	32			21	8
AV.	37	19	46	29	52	30	54	29	66	38	78	50	89	56	78	53	72	45	59	33	43	28	35	22
MEAN	28.2		38.3		41.4		42.0		52.7		64.4		73.1		66.0		59.2		46.3		36.0		29.0	
STA AV	36	18	44	26	47	25	54	29	66	38	73	46	86	51	83	49	76	43	64	33	48	27	39	20

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 6 yr (1963-68) record period.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.10	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.00	1	0.08	0.01	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07
2	0.02	0.06	0.00	0.08	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01	2	0.01	0.05	0.00	0.06	0.0	0.00	0.00	0.01	0.0	0.0	0.06	0.00
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.42	0.00	3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.38	0.00
4	0.0	0.01	0.00	0.17	0.09	0.03	0.0	0.00	0.00	0.0	0.02	0.01	4	0.0	0.01	0.00	0.12	0.07	0.03	0.0	0.00	0.00	0.0	0.01	0.01
5	0.01	0.01	0.16	0.27	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00	5	0.01	0.01	0.11	0.20	0.04	0.01	0.0	0.0	0.00	0.0	0.00	0.00
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0	6	0.00	0.00	0.02	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0	7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.04	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.44	0.0	8	0.03	0.00	0.00	0.00	0.00	0.14	0.00	0.0	0.0	0.0	0.39	0.0
9	0.09	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.33	0.0	9	0.06	0.00	0.00	0.0	0.00	0.00	0.05	0.53	0.0	0.0	0.26	0.0
10	0.20	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.05	10	0.14	0.0	0.0	0.0	0.01	0.00	0.0	0.16	0.00	0.0	0.02	0.04
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.08	11	0.00	0.0	0.0	0.00	0.06	0.00	0.0	0.01	0.00	0.02	0.04	0.06
12	0.00	0.05	0.01	0.00	0.15	0.00	0.0	0.05	0.0	0.10	0.31	0.02	12	0.00	0.05	0.00	0.00	0.12	0.00	0.0	0.04	0.0	0.09	0.24	0.01
13	0.00	0.07	0.10	0.0	0.06	0.00	0.0	0.16	0.00	0.22	0.01	0.00	13	0.00	0.06	0.05	0.0	0.05	0.00	0.0	0.13	0.00	0.20	0.01	0.00
14	0.01	0.01	0.09	0.04	0.01	0.03	0.04	0.93	0.0	0.20	0.00	0.03	14	0.01	0.01	0.04	0.01	0.01	0.01	0.03	0.84	0.0	0.18	0.00	0.02
15	0.20	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.05	0.08	0.15	15	0.16	0.04	0.00	0.02	0.03	0.0	0.0	0.00	0.04	0.04	0.05	0.11
16	0.07	0.01	0.03	0.03	0.01	0.00	0.0	0.53	0.00	0.00	0.05	0.03	16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.47	0.00	0.00	0.03	0.02
17	0.00	0.24	0.14	0.00	0.00	0.0	0.0	0.84	0.0	0.0	0.00	0.01	17	0.00	0.22	0.07	0.00	0.00	0.0	0.0	0.76	0.0	0.0	0.00	0.00
18	0.0	0.24	0.01	0.02	0.00	0.09	0.00	0.19	0.01	0.00	0.19	0.15	18	0.0	0.22	0.00	0.01	0.00	0.09	0.00	0.18	0.01	0.00	0.14	0.09
19	0.0	0.22	0.0	0.03	0.13	0.04	0.00	0.27	0.02	0.00	0.01	0.02	19	0.0	0.20	0.0	0.02	0.12	0.03	0.00	0.25	0.01	0.00	0.01	0.01
20	0.00	0.13	0.00	0.01	0.25	0.0	0.0	0.06	0.01	0.21	0.00	0.01	20	0.00	0.12	0.00	0.01	0.21	0.0	0.0	0.06	0.01	0.19	0.00	0.01
21	0.00	0.66	0.0	0.04	0.03	0.00	0.0	0.00	0.10	0.00	0.02	0.01	21	0.00	0.59	0.0	0.03	0.03	0.00	0.0	0.00	0.06	0.00	0.01	0.00
22	0.00	0.08	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.10	0.17	22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.07	0.10
23	0.00	0.21	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.54	23	0.00	0.19	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.41
24	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.00	0.0	0.19	0.38	24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.13	0.29
25	0.0	0.0	0.17	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.11	25	0.0	0.0	0.12	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.07
26	0.00	0.0	0.01	0.01	0.13	0.0	0.0	0.00	0.0	0.0	0.00	0.04	26	0.00	0.0	0.01	0.01	0.11	0.0	0.0	0.00	0.0	0.0	0.00	0.02
27	0.01	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.05	27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.05	28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.03
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.02	0.01	29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.01	0.00
30	0.15	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.10	0.10	30	0.10	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.07	0.08
31	0.03	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00	0.10	0.0	31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.00	0.07	0.0
TOTAL	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	TOTAL	0.71	1.83	0.46	0.55	0.97	0.41	0.10	3.48	0.15	0.77	2.01	1.48
STA AV	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	STA AV												

NOTES: Values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. E. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IGHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/S) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08	0.01	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07	1	0.08	0.01	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07
2	0.01	0.05	0.00	0.06	0.0	0.00	0.00	0.01	0.0	0.0	0.06	0.00	2	0.01	0.05	0.00	0.06	0.0	0.00	0.00	0.01	0.0	0.0	0.06	0.00
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.38	0.00	3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.38	0.00
4	0.0	0.01	0.00	0.12	0.07	0.03	0.0	0.00	0.00	0.0	0.01	0.01	4	0.0	0.01	0.00	0.12	0.07	0.03	0.0	0.00	0.00	0.0	0.01	0.01
5	0.01	0.01	0.11	0.20	0.04	0.01	0.0	0.0	0.00	0.0	0.00	0.00	5	0.01	0.01	0.11	0.20	0.04	0.01	0.0	0.0	0.00	0.00	0.00	0.00
6	0.00	0.00	0.02	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0	6	0.00	0.00	0.02	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0	7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.00	0.00	0.00	0.14	0.00	0.0	0.0	0.0	0.39	0.0	8	0.03	0.00	0.00	0.00	0.00	0.14	0.00	0.0	0.0	0.0	0.39	0.0
9	0.06	0.00	0.00	0.0	0.00	0.00	0.05	0.53	0.0	0.0	0.26	0.0	9	0.06	0.00	0.00	0.0	0.00	0.00	0.05	0.53	0.0	0.0	0.26	0.0
10	0.14	0.0	0.0	0.0	0.01	0.00	0.0	0.16	0.00	0.0	0.02	0.04	10	0.14	0.0	0.0	0.0	0.01	0.00	0.0	0.16	0.00	0.0	0.02	0.04
11	0.00	0.0	0.0	0.00	0.06	0.00	0.0	0.01	0.00	0.02	0.04	0.06	11	0.00	0.0	0.0	0.00	0.06	0.00	0.0	0.01	0.00	0.02	0.04	0.06
12	0.00	0.05	0.00	0.00	0.12	0.00	0.0	0.04	0.0	0.09	0.24	0.01	12	0.00	0.05	0.00	0.00	0.12	0.00	0.0	0.04	0.0	0.09	0.24	0.01
13	0.00	0.06	0.05	0.0	0.05	0.00	0.0	0.13	0.00	0.20	0.01	0.00	13	0.00	0.06	0.05	0.0	0.05	0.00	0.0	0.13	0.00	0.20	0.01	0.00
14	0.01	0.01	0.04	0.01	0.01	0.01	0.03	0.84	0.0	0.18	0.00	0.02	14	0.01	0.01	0.04	0.01	0.01	0.01	0.03	0.84	0.0	0.18	0.00	0.02
15	0.16	0.04	0.00	0.02	0.03	0.0	0.0	0.00	0.04	0.04	0.05	0.11	15	0.16	0.04	0.00	0.02	0.03	0.0	0.0	0.00	0.04	0.04	0.05	0.11
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.47	0.00	0.00	0.03	0.02	16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.47	0.00	0.00	0.03	0.02
17	0.00	0.22	0.07	0.00	0.00	0.0	0.0	0.76	0.0	0.0	0.00	0.00	17	0.00	0.22	0.07	0.00	0.00	0.0	0.0	0.76	0.0	0.0	0.00	0.00
18	0.0	0.22	0.00	0.01	0.00	0.09	0.00	0.18	0.01	0.00	0.14	0.09	18	0.0	0.22	0.00	0.01	0.00	0.09	0.00	0.18	0.01	0.00	0.14	0.09

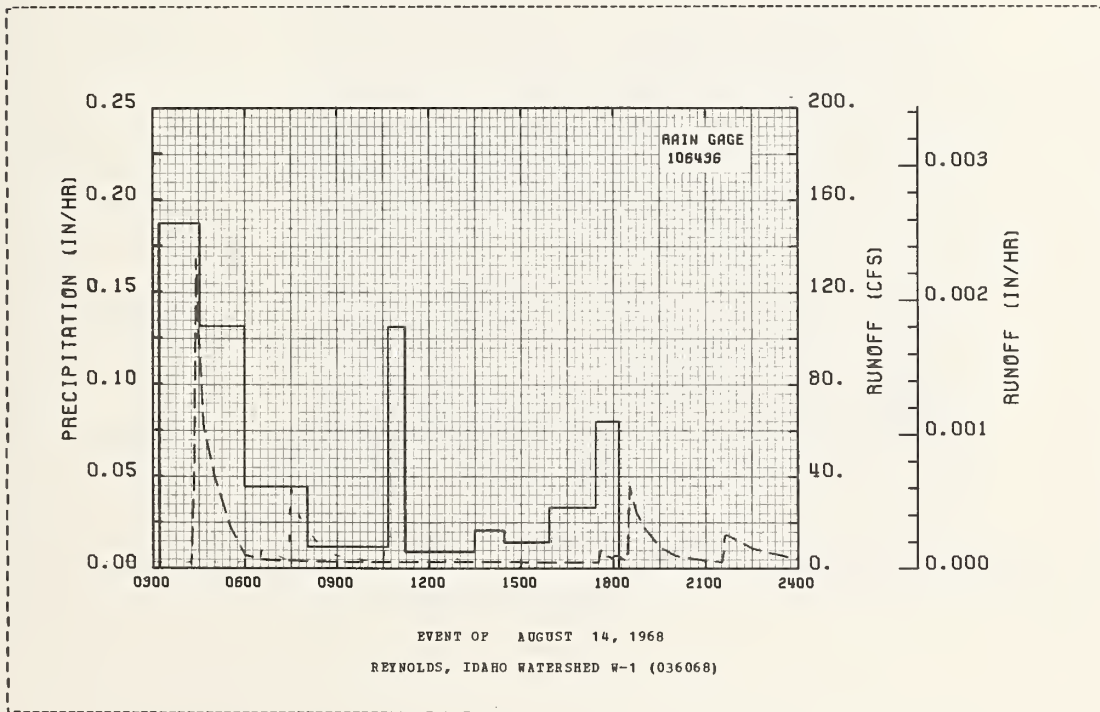
1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.08	1	0.09	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.00	0.00	0.08	
2	0.01	0.05	0.00	0.07	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01	2	0.01	0.05	0.00	0.07	0.0	0.00	0.00	0.01	0.0	0.07	0.01	
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.40	0.00	3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.40	0.00	
4	0.0	0.01	0.00	0.15	0.08	0.03	0.0	0.00	0.00	0.0	0.01	0.01	4	0.0	0.01	0.00	0.15	0.08	0.03	0.0	0.00	0.00	0.01	0.01	
5	0.01	0.01	0.13	0.23	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00	5	0.01	0.01	0.13	0.23	0.05	0.01	0.0	0.0	0.00	0.00	0.00	
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0	6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0	7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.04	0.0	
8	0.03	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.41	0.0	8	0.03	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.41	0.0	
9	0.07	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.29	0.0	9	0.07	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.29	0.0	
10	0.17	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.04	10	0.17	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.02	0.04	
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.07	11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.07	
12	0.00	0.05	0.01	0.00	0.13	0.00	0.0	0.05	0.0	0.10	0.28	0.02	12	0.00	0.05	0.01	0.00	0.13	0.00	0.0	0.05	0.0	0.10	0.28	
13	0.00	0.06	0.07	0.0	0.06	0.00	0.0	0.14	0.00	0.21	0.01	0.00	13	0.00	0.06	0.07	0.0	0.06	0.00	0.0	0.14	0.00	0.21	0.01	
14	0.01	0.01	0.06	0.02	0.01	0.02	0.04	0.88	0.0	0.19	0.00	0.02	14	0.01	0.01	0.06	0.02	0.01	0.02	0.04	0.88	0.0	0.19	0.00	
15	0.18	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.04	0.07	0.13	15	0.18	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.04	0.07	
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.50	0.00	0.00	0.04	0.02	16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.50	0.00	0.00	0.04	
17	0.00	0.23	0.10	0.00	0.00	0.0	0.0	0.80	0.0	0.0	0.00	0.01	17	0.00	0.23	0.10	0.00	0.00	0.00	0.0	0.80	0.0	0.0	0.00	
18	0.0	0.23	0.00	0.01	0.00	0.09	0.00	0.19	0.01	0.00	0.16	0.12	18	0.0	0.23	0.00	0.01	0.00	0.09	0.00	0.19	0.01	0.00	0.16	
19	0.0	0.21	0.0	0.02	0.12	0.03	0.00	0.26	0.02	0.00	0.01	0.01	19	0.0	0.21	0.0	0.02	0.12	0.03	0.00	0.26	0.02	0.00	0.01	
20	0.00	0.12	0.00	0.01	0.23	0.0	0.0	0.06	0.01	0.20	0.00	0.01	20	0.00	0.12	0.00	0.01	0.23	0.0	0.0	0.06	0.01	0.20	0.00	
21	0.00	0.62	0.0	0.03	0.03	0.00	0.0	0.00	0.07	0.00	0.01	0.01	21	0.00	0.62	0.0	0.03	0.03	0.00	0.0	0.00	0.07	0.00	0.01	
22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.09	0.13	22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.09	
23	0.00	0.20	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.47	23	0.00	0.20	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	
24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.16	0.33	24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.16	
25	0.0	0.0	0.14	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.09	25	0.0	0.0	0.14	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	
26	0.00	0.0	0.01	0.01	0.12	0.0	0.0	0.00	0.0	0.0	0.00	0.03	26	0.00	0.0	0.01	0.01	0.12	0.0	0.0	0.00	0.0	0.0	0.00	
27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03	27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.04	28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.01	0.00	29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.01	
30	0.12	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.09	0.09	30	0.12	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.09	
31	0.02	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.0	31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	
TOTAL	0.82	1.93	0.59	0.66	1.04	0.43	0.10	3.63	0.17	0.81	2.26	1.77	TOTAL	0.82	1.93	0.59	0.66	1.04	0.43	0.10	3.63	0.17	0.81	2.26	1.77
STA AV													STA AV												

NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.03	3.19	14.14	4.28	3.59	1.69	2.01	0.17	0.37	0.42	0.43	1.01	1	4.03	3.19	14.14	4.28	3.59	1.69	2.01	0.17	0.37	0.42	0.43	1.01
2	2.70	3.91	15.41	4.35	3.20	1.60	1.63	0.14	0.34	0.38	0.48	1.07	2	2.70	3.91	15.41	4.35	3.20	1.60	1.63	0.14	0.34	0.38	0.48	1.07
3	1.44	4.51	15.39	3.77	3.42	1.82	1.57	0.21	0.37	0.40	0.64	1.18	3	1.44	4.51	15.39	3.77	3.42	1.82	1.57	0.21	0.37	0.40	0.64	1.18
4	1.61	4.24	16.91	3.21	2.99	1.95	1.34	0.27	0.51	0.41	0.68	1.11	4	1.61	4.24	16.91	3.21	2.99	1.95	1.34	0.27	0.51	0.41	0.68	1.11
5	2.82	3.67	18.56	4.20	3.99	2.36	1.35	0.25	0.50	0.43	0.56	1.07	5	2.82	3.67	18.56	4.20	3.99	2.36	1.35	0.25	0.50	0.43	0.56	1.07
6	1.34	2.53	16.20	4.20	3.40	2.31	1.50	0.17	0.50	0.40	0.54	1.01	6	1.34	2.53	16.20	4.20	3.40	2.31	1.50	0.17	0.50	0.40	0.54	1.01
7	1.48	2.54	13.47	3.22	2.56	1.94	1.52	0.72	0.54	0.40	0.57	0.38	7	1.48	2.54	13.47	3.22	2.56	1.94	1.52	0.72	0.54	0.40	0.57	0.38
8	1.64	2.62	12.02	2.91	2.46	2.10	1.49	1.80	0.51	0.38	0.75	1.08	8	1.64	2.62	12.02	2.91	2.46	2.10	1.49	1.80	0.51	0.38	0.75	1.08
9	4.11	2.32	10.84	2.91	2.06	2.41	1.59	3.24	0.52	0.42	7.03	1.05	9	4.11	2.32	10.84	2.91	2.06	2.41	1.59	3.24	0.52	0.42	7.03	1.05
10	4.83	2.31	9.20	2.88	2.15	2.33	1.40	2.60	0.49	0.44	3.50	1.01	10	4.83	2.31	9.20	2.88	2.15	2.33	1.40	2.60	0.49	0.44	3.50	1.01
11	1.94	1.98	8.44	3.47	2.78	2.01	1.45	1.91	0.52	0.37	1.73	1.39	11	1.94	1.98	8.44	3.47	2.78	2.01	1.45	1.91	0.52	0.37	1.73	1.39
12	3.53	1.88	8.40	3.98	4.68	1.98	1.33	1.72	0.55	0.33	1.11	1.43	12	3.53	1.88	8.40	3.98	4.68	1.98	1.33	1.72	0.55	0.33	1.11	1.43
13	4.63	2.19	8.16	3.45	3.56	1.95	1.28	1.84	0.56	0.40	0.86	1.47	13	4.63	2.19	8.16	3.45	3.56	1.95	1.28	1.84	0.56	0.40	0.86	1.47
14	4.69	1.70	7.79	2.98	2.49	2.01	1.13	6.79	0.58	0.46	0.73	2.48	14	4.69	1.70	7.79	2.98	2.49	2.01	1.13	6.79	0.58	0.46	0.73	2.48
15	5.40	2.11	7.24	2.72	2.64	1.96	0.82	2.11	0.53	0.39	0.81	2.59	15	5.40	2.11	7.24	2.72	2.64	1.96	0.82	2.11	0.53	0.39	0.81	2.59
16	6.71	2.14	6.60	2.96	2.73	1.82	0.67	1.73	0.50	0.33	0.78	2.60	16	6.71	2.14	6.60	2.96	2.73	1.82	0.67	1.73	0.50	0.33	0.78	2.60
17	3.55	2.35	5.30	3.22	2.32	1.91	0.64	7.50	0.43	0.28	0.75	2.01	17	3.55	2.35	5.30	3.22	2.32	1.91	0.64	7.50	0.43	0.28	0.75	2.01
18	3.69	12.25	4.47	3.48	2.60	1.86	0.80	2.06	0.38	0.30	0.86	1.73	18	3.69	12.25	4.47	3.48	2.60	1.86	0.80	2.06	0.38	0.30	0.86	1.73
19	4.14	33.31	2.81	4.13	2.63	1.80	0.69	1.70	0.39	0.29	0.88	1.77	19	4.14	33.31	2.81	4.13	2.63	1.80	0.69	1.70	0.39	0.29	0.88	1.77
20	3.96	8																							

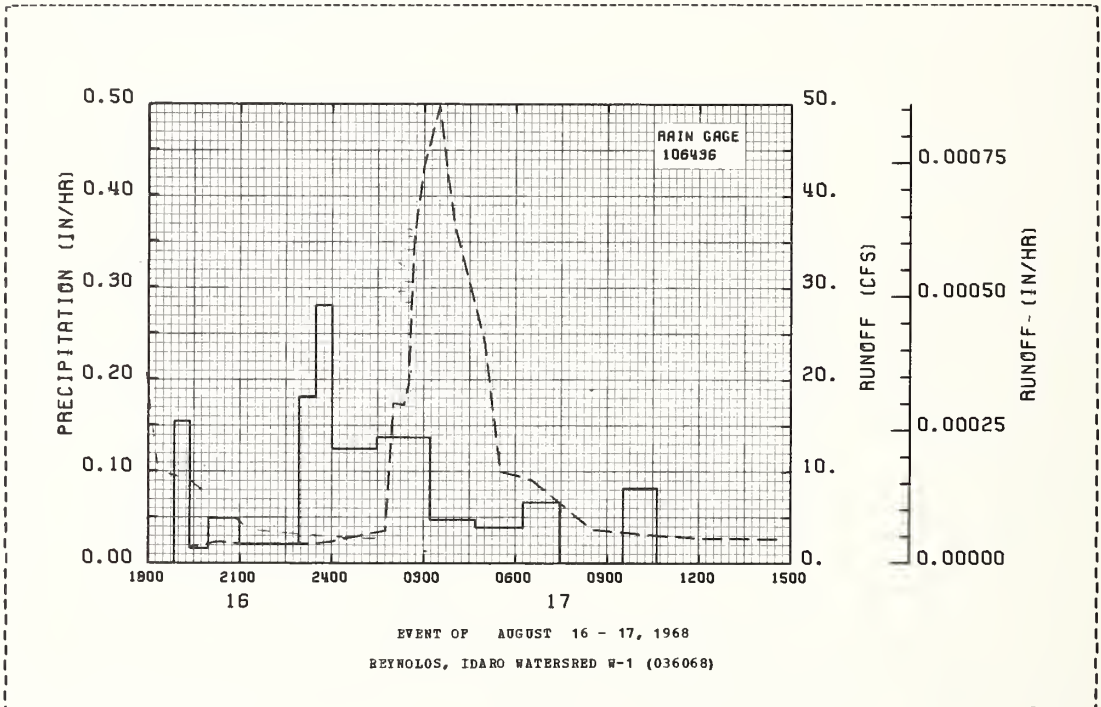
1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1968										
8-14	HG 106436 0.0	0.000	8-14	RG 106436			8-14	415	1.80	0.0
				312	0.0	0.0		420	33.14	0.0
				432	0.1875	0.25		425	134.37	0.0001
				559	0.1310	0.44		430	102.94	0.0003
				802	0.0439	0.53		440	60.54	0.0005
				1040	0.0114	0.56		500	40.50	0.0008
WATERSHED CONDITIONS:				1112	0.1312	0.63		530	18.36	0.0011
Predominately sagebrush				1329	0.0088	0.65		600	5.34	0.0012
rangeland, 95%; small stands				1427	0.0207	0.67		630	3.62	0.0012
of forest, 2%; permanent				1555	0.0136	0.69		700	3.13	0.0012
fields of alfalfa irrigated				1726	0.0330	0.74		900	2.67	0.0013
from streamflow, 3%.				1811	0.0800	0.80		1200	2.58	0.0014
								1730	2.42	0.0016
								1735	7.74	0.0016
								1745	5.60	0.0016
								1755	4.49	0.0016
								1803	5.60	0.0016
								1825	3.22	0.0016
								1828	7.74	0.0016
								1830	24.26	0.0016
								1832	35.26	0.0016
								1845	24.26	0.0017
								1900	17.63	0.0018
								1930	9.20	0.0019
								2000	5.34	0.0020
								2100	3.13	0.0021
								2132	2.58	0.0021
								2135	7.74	0.0021
								2137	14.42	0.0021
								2140	14.63	0.0021
								2200	12.14	0.0022
								2230	8.53	0.0023
								2300	6.69	0.0024
								2330	5.34	0.0025
								2400	3.83	0.0025

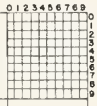
NOTES: To convert CFS to IN/HR, multiply by 0.0001717.



1968 SELECTED RUNOFF EVENT			REYNOLDS, IDARO WATERSRED W-1 (036068)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 16 - 17, 1968											
8-16	RG 106436 0.02	0.001	8-16	1850	0.0	0.0	8-16	1920	1.73	0.0	
				1921	0.1548	0.08		2010	2.33	0.0	
				1958	0.0162	0.09		2100	2.10	0.0	
				2059	0.0492	0.14		2320	2.10	0.0001	
				2255	0.0207	0.18		2400	2.42	0.0001	
WATERSRED CONDITIONS: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of alfalfa irrigated from streamflow, 3%.			8-17	2328	0.1818	0.28	8-17	145	3.62	0.0002	
				2400	0.2812	0.43		200	17.38	0.0002	
				127	0.1241	0.61		220	17.14	0.0003	
				312	0.1371	0.85		230	19.62	0.0004	
				441	0.0472	0.92		240	34.90	0.0005	
				614	0.0387	0.98		300	43.30	0.0007	
				726	0.0667	1.06		330	49.67	0.0011	
				931	0.0	1.06		345	42.49	0.0013	
				1037	0.0818	1.15		400	36.71	0.0015	
								500	23.68	0.0020	
								530	9.89	0.0021	
								630	9.03	0.0023	
								830	3.62	0.0025	
								1000	3.13	0.0026	
								1200	2.67	0.0027	
								2400	2.25	0.0032	

NOTES: To convert CPS to IN/RR, multiply by 0.00001717.





- LEGEND
- RAIN GAGE (OVAL)
 - WEIR
 - ⊙ CLIMATOLOGICAL STATION
 - WATERSHED BOUNDARY
 - X SNOW COURSE



REYNOLDS CREEK WATERSHED
 OWYHEE COUNTY, IDAHO
 NORTHWEST WATERSHED RESEARCH CENTER
 AGRICULTURAL RESEARCH SERVICE
 UNITED STATES DEPARTMENT OF AGRICULTURE

REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	16.60	
	Q 0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054	0.745	
STA AV	P 0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	0.0	
	Q 0.599	0.395	0.251	0.283	0.320	0.028	0.028	0.070	0.029	0.038	0.064	0.093	2.331	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	2-21	0.003	2-21	0.003	2-21	0.006	2-21	0.016	2-21	0.026	2-21	0.039	2-21	0.069	2-18	0.202

MAXIMOMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
8-23	0.073	8-23	0.044	8-23	0.056	1-28	0.114	1-28	0.208	1-28	0.379	1-28	0.766	1-28	1.495
1965		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: Predominately sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 68.2-7. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 59 miles N.E. of Watershed.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.10	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11		
2	0.02	0.07	0.00	0.12	0.0	0.00	0.02	0.02	0.0	0.0	0.0	0.08		
3	0.01	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.0	0.38		
4	0.0	0.04	0.0	0.21	0.09	0.00	0.0	0.01	0.0	0.0	0.0	0.00		
5	0.04	0.0	0.16	0.28	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.04		
8	0.04	0.00	0.0	0.0	0.0	0.26	0.01	0.0	0.0	0.0	0.0	0.61		
9	0.09	0.01	0.0	0.0	0.0	0.0	0.00	0.41	0.0	0.0	0.0	0.08		
10	0.17	0.0	0.0	0.0	0.12	0.00	0.0	0.22	0.0	0.0	0.0	0.03		
11	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.04	0.0	0.04	0.07	0.08		
12	0.0	0.10	0.00	0.0	0.23	0.0	0.0	0.05	0.0	0.07	0.45	0.0		
13	0.0	0.08	0.08	0.0	0.08	0.0	0.0	0.08	0.0	0.20	0.01	0.01		
14	0.01	0.00	0.12	0.0	0.01	0.0	0.07	0.73	0.0	0.20	0.0	0.03		
15	0.21	0.02	0.0	0.01	0.02	0.0	0.0	0.0	0.03	0.05	0.08	0.12		
16	0.10	0.0	0.02	0.01	0.00	0.0	0.0	0.47	0.0	0.00	0.13	0.02		
17	0.01	0.26	0.25	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.00		
18	0.0	0.36	0.0	0.05	0.0	0.01	0.0	0.16	0.02	0.0	0.18	0.09		
19	0.0	0.35	0.0	0.06	0.14	0.0	0.0	0.32	0.0	0.0	0.00	0.04		
20	0.0	0.18	0.0	0.02	0.32	0.0	0.0	0.05	0.04	0.31	0.02	0.01		
21	0.0	0.65	0.0	0.11	0.11	0.0	0.0	0.0	0.16	0.0	0.00	0.0		
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.06	0.17		
23	0.0	0.33	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.69		
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.15	0.29		
25	0.0	0.0	0.19	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.11		
26	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.05		
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01		
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01		
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0		
30	0.06		0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.10	0.10		
31	0.01		0.0	0.0	0.0		0.00	0.0		0.0		0.0		
TOTAL	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06		
STA AV	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968 OAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SALMON CREEK WATERSHEO (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	1	0.08	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.08
2	0.01	0.06	0.00	0.10	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00	2	0.01	0.06	0.00	0.10	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.33	0.0	3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.33	0.0
4	0.0	0.04	0.0	0.15	0.07	0.00	0.0	0.01	0.0	0.0	0.00	0.04	4	0.0	0.04	0.0	0.15	0.07	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.03	0.0	0.12	0.21	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.03	0.0	0.12	0.21	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0	7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0
8	0.03	0.00	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.51	0.0	8	0.03	0.00	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.51	0.0
9	0.05	0.01	0.0	0.0	0.0	0.0	0.00	0.39	0.0	0.0	0.07	0.0	9	0.05	0.01	0.0	0.0	0.0	0.00	0.39	0.0	0.0	0.0	0.07	0.0
10	0.10	0.0	0.0	0.0	0.08	0.00	0.0	0.21	0.0	0.0	0.02	0.05	10	0.10	0.0	0.0	0.0	0.08	0.00	0.0	0.21	0.0	0.0	0.02	0.05
11	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.04	0.0	0.04	0.06	0.06	11	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.04	0.0	0.04	0.06	0.06
12	0.0	0.09	0.00	0.0	0.20	0.0	0.0	0.05	0.0	0.06	0.34	0.0	12	0.0	0.09	0.00	0.0	0.20	0.0	0.0	0.05	0.0	0.06	0.34	0.0
13	0.0	0.06	0.05	0.0	0.07	0.0	0.0	0.07	0.0	0.16	0.01	0.01	13	0.0	0.06	0.05	0.0	0.07	0.0	0.0	0.07	0.0	0.16	0.01	0.01
14	0.01	0.00	0.07	0.0	0.01	0.0	0.05	0.69	0.0	0.17	0.0	0.02	14	0.01	0.00	0.07	0.0	0.01	0.0	0.05	0.69	0.0	0.17	0.0	0.02
15	0.15	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.02	0.04	0.05	0.09	15	0.15	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.02	0.04	0.05	0.09
16	0.07	0.0	0.01	0.01	0.00	0.0	0.0	0.42	0.0	0.00	0.08	0.02	16	0.07	0.0	0.01	0.01	0.00	0.0	0.0	0.0	0.00	0.00	0.08	0.02
17	0.01	0.24	0.13	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.00	17	0.01	0.24	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
18	0.0	0.32	0.0	0.03	0.0	0.00	0.0	0.14	0.02	0.0	0.12	0.07	18	0.0	0.32	0.0	0.03	0.0	0.00	0.0	0.14	0.02	0.0	0.12	0.07
19	0.0	0.31	0.0	0.04	0.11	0.0	0.0	0.30	0.0	0.0	0.00	0.02	19	0.0	0.31	0.0	0.04	0.11	0.0	0.0	0.30	0.0	0.0	0.00	0.02
20	0.0	0.16	0.0	0.01	0.26	0.0	0.0	0.04	0.03	0.28	0.02	0.00	20	0.0	0.16	0.0	0.01	0.26	0.0	0.0	0.04	0.03	0.28	0.02	0.00
21	0.0	0.59	0.0	0.08	0.11	0.0	0.0	0.0	0.10	0.0	0.00	0.0	21	0.0	0.59	0.0	0.08	0.11	0.0	0.0	0.0	0.10	0.0	0.00	0.0
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.05	0.12	22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.05	0.12
23	0.0	0.29	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.53	23	0.0	0.29	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.53
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.12	0.22	24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.12	0.22
25	0.0	0.0	0.14	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.07	25	0.0	0.0	0.14	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.07
26	0.0	0.0	0.0	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	26	0.0	0.0	0.0	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01	27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01	28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0	29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.07	0.08	30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.07	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.61	2.23	0.53	0.71	1.41	0.33	0.09	3.34	0.17	0.78	1.99	1.55	TOTAL	0.61	2.23	0.53	0.71	1.41	0.33	0.09	3.34	0.17	0.78	1.99	1.55
STA AV													STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 OAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SALMON CREEK WATERSHEO (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	1	0.09	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
2	0.01	0.07	0.00	0.11	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00	2	0.01	0.07	0.00	0.11	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.35	0.0	3	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.35	0.0
4	0.0	0.04	0.0	0.18	0.08	0.00	0.0	0.01	0.0	0.0	0.00	0.04	4	0.0	0.04	0.0	0.18	0.08	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.04	0.0	0.14	0.24	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.04	0.0	0.14	0.24	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0	7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.56	0.0	8	0.03	0.00	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.56	0.0
9	0.07	0.01	0.0	0.0	0.0	0.0	0.00	0.40	0.0	0.0	0.07	0.0	9	0.07	0.01	0.0	0.0	0.0	0.0	0.00	0.40	0.0	0.0	0.07	0.0
10	0.13	0.0	0.0	0.0	0.10	0.00	0.0	0.21	0.0	0.0	0.03	0.05	10	0.13	0.0	0.0	0.0	0.10	0.00	0.0	0.21	0.0	0.0	0.03	0.05
11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.04	0.0	0.04	0.06	0.07	11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.04	0.0	0.04	0.06	0.07
12	0.0	0.10	0.00	0.0	0.22	0.0	0.0	0.05	0.0	0.06	0.39	0.0	12	0.0	0.10	0.00	0.0	0.22	0.0	0.0	0.05	0.0	0.06	0.39	0.0
13	0.0	0.07	0.06	0.0	0.07	0.0	0.0	0.07	0.0	0.18	0.01	0.01	13	0.0	0.07	0.06	0.0	0.07	0.0	0.0	0.07	0.0	0.18	0.01	0.01
14	0.01	0.00	0.09	0.0	0.01	0.0	0.06	0.71	0.0	0.19	0.0	0.03	14	0.01	0.00	0.09	0.0	0.01	0.0	0.06	0.71	0.0	0.19	0.0	0.03
15	0.18	0.01	0.0	0.00	0.02	0.0	0.0	0.0	0.02	0.05	0.06	0.10	15	0.18	0.01	0.0	0.00	0.02	0.0	0.0	0.0	0.02	0.05	0.06	0.10
16	0.09	0.0	0.01	0.01	0.00	0.0	0.0	0.45	0.0	0.00	0.11	0.02	16	0.09	0.0	0.01	0.01	0.00	0.0	0.0	0.45	0.0	0.00	0.11	0.02
17	0.01	0.25	0.18	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.00	17	0.01	0.25	0.18	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.00
18	0.0	0.34	0.0	0.04	0.0	0.00	0.0	0.15	0.02	0.0	0.15	0.08	18	0.0	0.34	0.0	0.04	0.0	0.00	0.0	0.15	0.02	0.0	0.15	0.08
19	0.0	0.33	0.0	0.05	0.12	0.0	0.0	0.31	0.0	0.0	0.00	0.03	19	0.0	0.33	0.0	0.05	0.12	0.0	0.0	0.31	0.0	0.0	0.00	0.03
20	0.0	0.17	0.0	0.02	0.29	0.0	0.0	0.04	0.04	0.30	0.02	0.00	20	0.0	0.17	0.0	0.02	0.29	0.0	0.0	0.04	0.04	0.		

1968		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IOAHO SALMON CREEK WATERSHED (046017)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.101	0.992	3.190	1.056	0.659	0.087	0.031	0.019	0.009	0.009	0.230	0.570	
2	0.865	1.202	2.940	1.182	0.718	0.087	0.031	0.016	0.009	0.009	0.209	0.685	
3	0.618	1.287	2.698	1.115	0.704	0.102	0.031	0.016	0.009	0.009	0.344	0.593	
4	0.821	1.249	2.473	1.109	0.783	0.117	0.027	0.019	0.009	0.009	0.334	0.620	
5	1.080	1.194	2.589	1.556	0.894	0.126	0.023	0.023	0.009	0.009	0.257	0.592	
6	0.641	1.120	2.527	1.373	0.801	0.134	0.023	0.027	0.009	0.009	0.272	0.510	
7	0.683	1.143	2.315	1.236	0.706	0.143	0.023	0.031	0.009	0.009	0.290	0.540	
8	1.006	1.069	2.136	1.187	0.626	0.152	0.023	0.031	0.009	0.012	0.448	0.638	
9	1.043	1.010	2.046	1.135	0.576	0.143	0.023	0.031	0.009	0.016	0.547	0.550	
10	0.982	1.121	1.908	1.077	0.668	0.134	0.023	0.027	0.009	0.019	0.408	0.582	
11	0.620	0.991	1.976	1.070	0.707	0.126	0.023	0.019	0.009	0.027	0.417	0.689	
12	0.638	0.898	1.875	1.059	0.870	0.117	0.027	0.016	0.009	0.041	0.613	0.393	
13	1.067	1.002	1.905	0.970	0.795	0.117	0.027	0.012	0.009	0.069	0.490	0.423	
14	0.899	0.859	1.867	0.983	0.715	0.117	0.023	0.009	0.009	0.071	0.385	0.550	
15	1.270	1.156	1.954	0.950	0.663	0.117	0.023	0.009	0.009	0.081	0.422	0.661	
16	1.116	1.099	1.644	0.970	0.608	0.110	0.023	0.009	0.009	0.087	0.448	0.558	
17	0.833	1.322	1.832	0.803	0.519	0.095	0.023	0.009	0.009	0.095	0.440	0.422	
18	0.966	3.866	1.633	0.804	0.472	0.081	0.023	0.009	0.009	0.106	0.583	0.470	
19	1.057	5.668	1.564	0.801	0.562	0.074	0.027	0.009	0.009	0.116	0.638	0.486	
20	1.090	12.533	1.790	0.714	0.698	0.074	0.031	0.009	0.009	0.184	0.602	0.383	
21	1.011	13.802	1.497	0.753	0.619	0.068	0.027	0.009	0.009	0.202	0.592	0.367	
22	1.013	8.830	1.360	0.722	0.524	0.062	0.023	0.009	0.009	0.144	0.584	0.437	
23	1.046	14.261	1.282	0.701	0.516	0.056	0.023	0.009	0.009	0.153	0.620	0.584	
24	1.126	8.793	1.188	0.618	0.385	0.050	0.023	0.009	0.009	0.192	0.731	1.602	
25	1.116	6.350	1.135	0.567	0.240	0.050	0.023	0.009	0.009	0.192	0.598	1.329	
26	0.909	5.359	1.074	0.571	0.352	0.050	0.023	0.009	0.009	0.143	0.532	1.039	
27	0.979	4.398	1.067	0.515	0.244	0.045	0.023	0.009	0.009	0.168	0.594	0.863	
28	0.747	3.936	1.054	0.488	0.131	0.045	0.023	0.009	0.009	0.197	0.597	0.856	
29	1.173	3.697	1.001	0.457	0.094	0.045	0.023	0.009	0.009	0.199	0.566	0.609	
30	1.123		1.000	0.435	0.096	0.036	0.023	0.009	0.009	0.206	0.586	0.820	
31	0.966		1.007		0.081		0.023	0.009		0.212		0.970	
MEAN	0.9552	3.8002	1.7910	0.8993	0.5493	0.0921	0.0246	0.0146	0.0092	0.0966	0.4793	0.6578	
INCHES	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054	
STA AV	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093	

NOTES: To convert CFS to IN/DAY, multiply by. 0.002648.

REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing trihutory to Reynolds Creek, Snake River Basin.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P 0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	14.82			
	Q 0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008	0.472			
STA AV	P 0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	0.0			
	Q 0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022	0.869			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	2-21	0.005	2-21	0.005	2-21	0.010	2-21	0.026	2-21	0.039	2-21	0.054	2-19	0.081	2-18	0.208
MAXIMUMS FOR PERIOD OF RECORD																
	1-21	0.011	1-21	0.010	1-21	0.020	1-21	0.053	1-21	0.096	1-21	0.124	1-21	0.150	1-21	0.286
	1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluehunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and haycrops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.10	0.00	0.0	0.08	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.08	
2	0.01	0.08	0.00	0.14	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.02		
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00		
4	0.0	0.01	0.0	0.16	0.07	0.01	0.0	0.00	0.00	0.0	0.01	0.02		
5	0.02	0.0	0.22	0.37	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01		
6	0.01	0.0	0.04	0.01	0.00	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0		
8	0.03	0.0	0.0	0.0	0.00	0.11	0.01	0.0	0.0	0.0	0.57	0.0		
9	0.06	0.0	0.0	0.0	0.00	0.00	0.00	0.42	0.0	0.0	0.07	0.0		
10	0.19	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.05		
11	0.0	0.0	0.0	0.0	0.13	0.01	0.0	0.01	0.0	0.02	0.06	0.06		
12	0.0	0.05	0.01	0.00	0.32	0.0	0.0	0.06	0.0	0.09	0.35	0.00		
13	0.0	0.12	0.06	0.0	0.08	0.0	0.0	0.08	0.00	0.15	0.01	0.00		
14	0.0	0.02	0.08	0.0	0.02	0.01	0.05	1.10	0.0	0.18	0.01	0.04		
15	0.14	0.02	0.0	0.01	0.05	0.0	0.0	0.00	0.06	0.05	0.06	0.10		
16	0.11	0.00	0.00	0.02	0.01	0.00	0.0	0.45	0.0	0.02	0.07	0.03		
17	0.0	0.26	0.17	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.01		
18	0.0	0.33	0.00	0.03	0.00	0.00	0.00	0.16	0.01	0.00	0.20	0.10		
19	0.0	0.19	0.0	0.04	0.09	0.0	0.0	0.27	0.00	0.0	0.04	0.01		
20	0.0	0.12	0.00	0.00	0.19	0.0	0.0	0.03	0.03	0.30	0.01	0.00		
21	0.0	0.62	0.0	0.07	0.09	0.00	0.0	0.01	0.16	0.00	0.03	0.01		
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.11	0.10		
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.44		
24	0.01	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.15	0.33		
25	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02	0.09		
26	0.0	0.0	0.00	0.00	0.10	0.0	0.0	0.00	0.0	0.0	0.01	0.02		
27	0.01	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.01	0.00		
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01		
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.03	0.00		
30	0.20	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.09	0.06		
31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58		
STA AV	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IOHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (O/S) \times 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.05
2	0.01	0.06	0.00	0.08	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.01
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.28	0.00
4	0.0	0.01	0.0	0.10	0.06	0.01	0.0	0.00	0.00	0.0	0.01	0.01
5	0.02	0.0	0.15	0.21	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01
6	0.01	0.0	0.03	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.00	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.54	0.0
9	0.04	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.06	0.0
10	0.11	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0	0.01	0.04
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.05	0.05
12	0.0	0.04	0.00	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.28	0.00
13	0.0	0.11	0.03	0.0	0.08	0.0	0.0	0.07	0.00	0.14	0.01	0.00
14	0.0	0.01	0.04	0.0	0.02	0.01	0.04	1.03	0.0	0.16	0.01	0.03
15	0.08	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.03	0.05	0.04	0.08
16	0.06	0.00	0.00	0.01	0.01	0.00	0.0	0.44	0.0	0.01	0.04	0.02
17	0.0	0.24	0.08	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00
18	0.0	0.31	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.12	0.07
19	0.0	0.19	0.0	0.02	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00
20	0.0	0.11	0.00	0.00	0.17	0.0	0.0	0.03	0.01	0.29	0.01	0.00
21	0.0	0.62	0.0	0.03	0.09	0.00	0.0	0.01	0.08	0.00	0.02	0.00
22	0.0	0.10	0.0	0.0	0.01	0.00	0.0	0.00	0.0	0.00	0.06	0.07
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.35
24	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.10	0.25
25	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.06
26	0.0	0.0	0.00	0.00	0.09	0.0	0.0	0.00	0.0	0.0	0.00	0.02
27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.00	0.00
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	0.00
30	0.10	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.05	0.05
31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.58	2.04	0.45	0.52	1.25	0.22	0.07	3.25	0.15	0.81	1.88	1.17
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.10	0.00	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07
2	0.01	0.07	0.00	0.10	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.01
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00
4	0.0	0.01	0.0	0.12	0.06	0.01	0.0	0.00	0.00	0.0	0.01	0.01
5	0.02	0.0	0.18	0.28	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01
6	0.01	0.0	0.04	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.55	0.0
9	0.05	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.07	0.0
10	0.15	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.04
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.06	0.05
12	0.0	0.05	0.01	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.32	0.00
13	0.0	0.12	0.04	0.0	0.08	0.0	0.0	0.07	0.00	0.15	0.01	0.00
14	0.0	0.01	0.06	0.0	0.02	0.01	0.04	1.06	0.0	0.17	0.01	0.04
15	0.11	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.04	0.05	0.05	0.09
16	0.08	0.00	0.00	0.01	0.01	0.00	0.0	0.45	0.0	0.01	0.05	0.02
17	0.0	0.25	0.12	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00
18	0.0	0.32	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.15	0.09
19	0.0	0.19	0.0	0.03	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00
20	0.0	0.11	0.00	0.00	0.18	0.0	0.0	0.03	0.02	0.30	0.01	0.00
21	0.0	0.62	0.0	0.04	0.09	0.00	0.0	0.01	0.12	0.00	0.03	0.00
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.08	0.08
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.40
24	0.01	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.12	0.28
25	0.0	0.0	0.12	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.08
26	0.0	0.0	0.00	0.00	0.10	0.0	0.0	0.00	0.0	0.0	0.01	0.02
27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.01	0.00
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	0.00
30	0.15	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.07	0.05
31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.73	2.09	0.58	0.69	1.30	0.22	0.07	3.31	0.20	0.84	2.09	1.37
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.433	0.425	1.229	0.430	0.272	0.138	0.043	0.011	0.006	0.006	0.011	0.011
2	0.301	0.683	1.225	0.641	0.230	0.130	0.034	0.011	0.006	0.006	0.011	0.011
3	0.171	0.779	1.434	0.535	0.263	0.122	0.030	0.011	0.006	0.006	0.011	0.011
4	0.276	0.768	1.432	0.641	0.404	0.122	0.030	0.011	0.006	0.006	0.014	0.011
5	0.350	0.725	1.356	0.771	0.473	0.122	0.030	0.011	0.006	0.006	0.017	0.011
6	0.186	0.624	1.433	0.698	0.376	0.122	0.030	0.011	0.006	0.006	0.017	0.011
7	0.144	0.682	1.328	0.803	0.293	0.122	0.030	0.011	0.006	0.006	0.017	0.011
8	0.164	0.611	1.233	0.609	0.252	0.122	0.030	0.011	0.006	0.006	0.017	0.011
9	0.541	0.498	0.956	0.473	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.011
10	0.616	0.543	0.556	0.544	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.014
11	0.267	0.397	0.563	0.584	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.017
12	0.268	0.340	0.645	0.501	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.017
13	0.363	0.321	0.645	0.605	0.220	0.114	0.030	0.011	0.006	0.006	0.017	0.020
14	0.369	0.280	0.660	0.826	0.210	0.107	0.030	0.011	0.006	0.006	0.017	0.026
15	0.625	0.343	0.678	0.639	0.210	0.100	0.030	0.011	0.006	0.006	0.017	0.039
16	0.572	0.320	0.668	0.487	0.210	0.093	0.026	0.011	0.006	0.006	0.017	0.047
17	0.355	0.486	0.760	0.485	0.201	0.087	0.023	0.011	0.006	0.006	0.017	0.043
18	0.375	6.757	0.782	0.574	0.191	0.080	0.023	0.011	0.006	0.006	0.017	0.048
19	0.409	5.436	0.737	0.608	0.191	0.074	0.023	0.011	0.006	0.006	0.017	0.057
20	0.410	10.362	0.737	0.543	0.189	0.068	0.023	0.011	0.006	0.006	0.014	0.057
21	0.443	16.656	0.651	0.568	0.172	0.063	0.023	0.011	0.006	0.006	0.011	0.057
22	0.433	7.262	0.738	0.659	0.163	0.052	0.023	0.011	0.006	0.006	0.011	0.075
23	0.454	12.137	0.737	0.628	0.163	0.047	0.020	0.009	0.006	0.006	0.011	0.115
24	0.453	5.512	0.809	0.557	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.714
25	0.460	3.983	1.189	0.571	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.544
26	0.342	2.820	1.210	0.631	0.172	0.052	0.017	0.006	0.006	0.006	0.011	0.182
27	0.337	1.969	1.024	0.513	0.163	0.057	0.017	0.006	0.006	0.006	0.011	0.138
28	0.270	1.615	0.952	0.393	0.154	0.057	0.014	0.006	0.006	0.006	0.011	0.107
29	0.360	1.289	0.774	0.341	0.154	0.052	0.011	0.006	0.006	0.006	0.011	0.100
30	0.424		0.492	0.285	0.166	0.047	0.011	0.006	0.006	0.006	0.011	0.107
31	0.406		0.337		0.138		0.011	0.006		0.009		0.107
MEAN	0.3735	2.9179	0.9025	0.5715	0.2226	0.0896	0.0247	0.0099	0.0065	0.0066	0.0141	0.0882
INCHES	0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008
STA AV	0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022

NOTES: To convert CPS to IN/OAY, multiply by 0.003034.

REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River.

AREA: 13453.00 acres 21.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	24.96														
	O	0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157	3.184														
STA AV	P	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	0.0														
	O	0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144	6.373														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		2-21	0.013	2-21	0.013	2-21	0.025	2-21	0.057	2-21	0.100	2-21	0.140	2-19	0.216	2-19	0.588
MAXIMUMS FOR PERIOD OF RECORD																	
		6-7	0.021	6-7	0.019	6-7	0.036	6-7	0.082	6-7	0.129	6-7	0.214	6-7	0.417	5-17	1.523
		1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed condition - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominately of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 25% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.4-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 16 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of Watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)														
Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
144062	011568	5.90	020168	5.80	021568	6.30	030168	4.25				121168	1.71	
155054			020168	5.40	021568	6.20	030168	4.30				121168	1.04	
163020	011568	10.00	020168	10.90	021568	11.30	030168	13.90	031568	15.20		121168	4.80	
163098	011568	7.40	020168	9.30	021568	9.60	030168	12.80	031568	12.00		121168	3.00	
167007	011568	4.90	020168	5.40	021568	4.20	030168	4.40	031568	4.90		121168	2.10	
174026	011568	6.80	020168	9.10	021568	9.04	030168	11.60	031568	10.90		121168	2.65	

1968 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.16	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10		1	0.16	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.04	0.12	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.20	0.02	2	0.04	0.12	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.20	
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.0	0.51	0.0	3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.0	0.51	
4	0.0	0.01	0.00	0.38	0.11	0.10	0.0	0.00	0.0	0.0	0.04	0.01		4	0.0	0.01	0.00	0.38	0.11	0.10	0.0	0.00	0.0	0.0	0.04	0.01	
5	0.0	0.02	0.21	0.45	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.01	5	0.0	0.02	0.21	0.45	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.00	0.06	0.02	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.00	0.06	0.02	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.04	0.0	0.0	7	0.0	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.04	0.0	
8	0.09	0.0	0.0	0.00	0.0	0.28	0.00	0.0	0.0	0.0	0.49	0.0	0.0	8	0.09	0.0	0.0	0.00	0.0	0.28	0.00	0.0	0.0	0.0	0.49	0.0	
9	0.18	0.0	0.00	0.0	0.01	0.01	0.15	0.25	0.0	0.0	1.09	0.0	0.0	9	0.18	0.0	0.00	0.0	0.01	0.01	0.15	0.25	0.0	0.0	1.09	0.0	
10	0.37	0.0	0.0	0.0	0.01	0.01	0.0	0.42	0.01	0.0	0.05	0.04	0.04	10	0.37	0.0	0.0	0.0	0.01	0.01	0.0	0.42	0.01	0.0	0.05	0.04	
11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.06	0.15	0.15	11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.06	0.15	
12	0.00	0.04	0.00	0.0	0.11	0.00	0.0	0.02	0.0	0.14	0.39	0.07	0.07	12	0.00	0.04	0.00	0.0	0.11	0.00	0.0	0.02	0.0	0.14	0.39	0.07	
13	0.00	0.07	0.18	0.0	0.08	0.00	0.0	0.38	0.00	0.32	0.02	0.0	0.0	13	0.00	0.07	0.18	0.0	0.08	0.00	0.0	0.38	0.00	0.32	0.02	0.0	
14	0.05	0.01	0.15	0.16	0.0	0.02	0.04	1.2	0.0	0.30	0.00	0.06	0.06	14	0.05	0.01	0.15	0.16	0.0	0.02	0.04	1.2	0.0	0.30	0.00	0.06	
15	0.43	0.07	0.0	0.11	0.06	0.0	0.0	0.00	0.12	0.08	0.22	0.22	0.22	15	0.43	0.07	0.0	0.11	0.06	0.0	0.0	0.00	0.12	0.08	0.22	0.22	
16	0.07	0.04	0.05	0.04	0.01	0.0	0.0	0.69	0.00	0.00	0.04	0.05	0.05	16	0.07	0.04	0.05	0.04	0.01	0.0	0.0	0.69	0.00	0.00	0.04	0.05	
17	0.00	0.33	0.17	0.00	0.01	0.0	0.0	0.81	0.0	0.0	0.0	0.01	0.01	17	0.00	0.33	0.17	0.00	0.01	0.0	0.0	0.81	0.0	0.0	0.0	0.01	
18	0.0	0.37	0.01	0.02	0.0	0.07	0.0	0.38	0.03	0.0	0.25	0.39	0.39	18	0.0	0.37	0.01	0.02	0.0	0.07	0.0	0.38	0.03	0.0	0.25	0.39	
19	0.0	0.51	0.0	0.04	0.14	0.11	0.00	0.38	0.06	0.01	0.0	0.02	0.02	19	0.0	0.51	0.0	0.04	0.14	0.11	0.00	0.38	0.06	0.01	0.0	0.02	
20	0.01	0.26	0.0	0.03	0.32	0.0	0.0	0.12	0.01	0.25	0.00	0.03	0.03	20	0.01	0.26	0.0	0.03	0.32	0.0	0.0	0.12	0.01	0.25	0.00	0.03	
21	0.01	1.09	0.0	0.02	0.0	0.00	0.0	0.01	0.16	0.0	0.04	0.03	0.03	21	0.01	1.09	0.0	0.02	0.0	0.00	0.0	0.01	0.16	0.0	0.04	0.03	
22	0.01	0.17	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.17	0.33	0.33	22	0.01	0.17	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.17	0.33	
23	0.0	0.37	0.0	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.04	0.95	0.95	23	0.0	0.37	0.0	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.04	0.95	
24	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.46	0.80	0.80	24	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.46	0.80	
25	0.0	0.0	0.25	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.04	0.12	0.12	25	0.0	0.0	0.25	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.04	0.12	
26	0.01	0.0	0.0	0.02	0.15	0.0	0.0	0.00	0.0	0.0	0.00	0.06	0.06	26	0.01	0.0	0.0	0.02	0.15	0.0	0.0	0.00	0.0	0.0	0.00	0.06	
27	0.02	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.17	0.17	27	0.02	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.17	
28	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.00	0.0	0.0	0.00	0.14	0.14	28	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.00	0.0	0.0	0.00	0.14	
29	0.04	0.00	0.0	0.0	0.00	0.04	0.00	0.00	0.0	0.04	0.04	0.01	0.01	29	0.04	0.00	0.0	0.0	0.00	0.04	0.00	0.00	0.0	0.04	0.04	0.01	
30	0.22	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.16	0.12	0.12	30	0.22	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.16	0.12	
31	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	31	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	
TOTAL	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	3.96	TOTAL	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	
STA AV	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	3.96	STA AV	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 15 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.
Cooperative Research Project of USDA and USDI and Idaho Agricultural Experiment Station

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116093)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.11	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	1	0.11	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.07		
2	0.02	0.09	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.16	2	0.02	0.09	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.16		
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.0	0.43	3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.43		
4	0.0	0.00	0.00	0.28	0.09	0.09	0.0	0.00	0.0	0.0	0.03	0.01	4	0.0	0.00	0.00	0.28	0.09	0.09	0.0	0.0	0.03	0.01		
5	0.0	0.00	0.15	0.32	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.00	5	0.0	0.00	0.15	0.32	0.05	0.02	0.0	0.0	0.0	0.00		
6	0.0	0.00	0.05	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.00	0.05	0.01	0.0	0.09	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.03	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0	7	0.0	0.0	0.03	0.0	0.0	0.00	0.0	0.0	0.03	0.0		
8	0.05	0.0	0.0	0.00	0.0	0.25	0.00	0.0	0.0	0.0	0.40	0.0	8	0.05	0.0	0.0	0.00	0.0	0.25	0.00	0.0	0.40	0.0		
9	0.13	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.83	0.0	9	0.13	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.83	0.0		
10	0.24	0.0	0.00	0.0	0.01	0.0	0.0	0.40	0.01	0.0	0.03	0.02	10	0.24	0.0	0.00	0.0	0.01	0.0	0.0	0.40	0.01	0.02		
11	0.00	0.0	0.0	0.00	0.05	0.01	0.0	0.01	0.00	0.04	0.04	0.09	11	0.00	0.0	0.0	0.00	0.05	0.01	0.0	0.01	0.04	0.09		
12	0.00	0.03	0.00	0.0	0.09	0.00	0.0	0.02	0.0	0.12	0.28	0.05	12	0.00	0.03	0.00	0.0	0.09	0.00	0.0	0.02	0.12	0.28		
13	0.00	0.06	0.10	0.05	0.06	0.00	0.0	0.29	0.00	0.28	0.01	0.0	13	0.00	0.06	0.10	0.05	0.06	0.00	0.0	0.29	0.28	0.01		
14	0.03	0.01	0.08	0.05	0.0	0.01	0.02	0.94	0.0	0.25	0.00	0.04	14	0.03	0.01	0.08	0.05	0.0	0.01	0.02	0.94	0.25	0.00		
15	0.38	0.06	0.0	0.06	0.04	0.0	0.0	0.00	0.11	0.07	0.14	0.13	15	0.38	0.06	0.0	0.06	0.04	0.0	0.0	0.00	0.11	0.07		
16	0.06	0.03	0.03	0.03	0.01	0.0	0.0	0.56	0.00	0.00	0.03	0.03	16	0.06	0.03	0.03	0.03	0.01	0.0	0.0	0.56	0.00	0.03		
17	0.00	0.28	0.09	0.00	0.01	0.0	0.0	0.65	0.0	0.0	0.0	0.01	17	0.00	0.28	0.09	0.00	0.01	0.0	0.0	0.65	0.0	0.01		
18	0.0	0.32	0.00	0.02	0.0	0.07	0.0	0.32	0.02	0.0	0.16	0.20	18	0.0	0.32	0.00	0.02	0.0	0.07	0.0	0.32	0.02	0.16		
19	0.0	0.46	0.0	0.02	0.13	0.09	0.00	0.31	0.03	0.01	0.0	0.01	19	0.0	0.46	0.0	0.02	0.13	0.09	0.00	0.31	0.03	0.01		
20	0.00	0.24	0.0	0.02	0.29	0.0	0.0	0.11	0.01	0.22	0.00	0.02	20	0.00	0.24	0.0	0.02	0.29	0.0	0.0	0.11	0.01	0.22		
21	0.01	1.00	0.0	0.02	0.0	0.00	0.0	0.01	0.09	0.0	0.02	0.01	21	0.01	1.00	0.0	0.02	0.0	0.00	0.0	0.01	0.09	0.0		
22	0.01	0.15	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.11	0.17	22	0.01	0.15	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0		
23	0.0	0.33	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.65	23	0.0	0.33	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.0	0.27	0.54	24	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.16	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.02	0.06	25	0.0	0.0	0.16	0.0	0.05	0.0	0.0	0.00	0.0	0.0		
26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.03	26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0		
27	0.01	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.09	27	0.01	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0		
28	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.0	0.00	0.08	28	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.0		
29	0.02	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.03	0.02	0.00	29	0.02	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.0		
30	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.03	0.10	0.07	30	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.0		
31	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	31	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0		
TOTAL	1.31	3.10	0.70	0.95	1.17	0.73	0.17	3.89	0.28	1.06	3.16	2.44	TOTAL	1.31	3.10	0.70	0.95	1.17	0.73	0.17	3.89	0.28	1.06	2.44	
STA AV													STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116093)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.13	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	1	0.13	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.09	
2	0.03	0.10	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.0	0.18	0.02	2	0.03	0.10	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.18	0.02	
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.47	0.0	3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.47	0.0	
4	0.0	0.00	0.00	0.33	0.10	0.09	0.0	0.00	0.0	0.0	0.04	0.01	4	0.0	0.00	0.00	0.33	0.10	0.09	0.0	0.00	0.0	0.04	0.01	
5	0.0	0.01	0.18	0.38	0.06	0.02	0.0	0.0	0.0	0.0	0.0	0.00	5	0.0	0.01	0.18	0.38	0.06	0.02	0.0	0.0	0.0	0.0	0.00	
6	0.0	0.00	0.06	0.02	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.00	0.06	0.02	0.0	0.09	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.04	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0	7	0.0	0.0	0.04	0.0	0.0	0.00	0.0	0.0	0.0	0.03	0.0	
8	0.07	0.0	0.0	0.00	0.0	0.27	0.00	0.0	0.0	0.0	0.44	0.0	8	0.07	0.0	0.0	0.00	0.0	0.27	0.00	0.0	0.0	0.44	0.0	
9	0.15	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.95	0.0	9	0.15	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.95	0.0	
10	0.30	0.0	0.0	0.0	0.01	0.0	0.0	0.41	0.01	0.0	0.04	0.03	10	0.30	0.0	0.0	0.0	0.01	0.0	0.0	0.41	0.01	0.04	0.03	
11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.05	0.12	11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.04	0.05	0.12	
12	0.00	0.04	0.00	0.0	0.10	0.00	0.0	0.02	0.0	0.13	0.33	0.06	12	0.00	0.04	0.00	0.0	0.10	0.00	0.0	0.02	0.13	0.33	0.06	
13	0.00	0.07	0.14	0.0	0.07	0.00	0.0	0.34	0.00	0.30	0.01	0.0	13	0.00	0.07	0.14	0.0	0.07	0.00	0.0	0.34	0.00	0.30	0.01	
14	0.04	0.01	0.11	0.09	0.0	0.02	0.03	1.03	0.0	0.28	0.00	0.05	14	0.04	0.01	0.11	0.09	0.0	0.02	0.03	1.03	0.0	0.28	0.00	
15	0.41	0.07	0.0	0.08	0.05	0.0	0.0	0.00	0.12	0.07	0.18	0.17	15	0.41	0.07	0.0	0.08	0.05	0.0	0.0	0.00	0.12	0.07	0.18	
16	0.07	0.03	0.04	0.04	0.01	0.0	0.0	0.62	0.00	0.00	0.03	0.04	16	0.07	0.03	0.04	0.04	0.01	0.0	0.0	0.62	0.00	0.00	0.03	
17	0.00	0.31	0.13	0.00	0.01	0.0	0.0	0.73	0.0	0.0	0.0	0.01	17	0.00	0.31	0.13	0.00	0.01	0.0	0.0	0.73	0.0	0.0	0.01	
18	0.0	0.35	0.00	0.02	0.0	0.07	0.0	0.35	0.02	0.0	0.20	0.29	18	0.0	0.35	0.00	0.02	0.0	0.07	0.0	0.35	0.02	0.20	0.29	
19	0.0	0.49	0.0	0.03	0.14	0.10	0.00	0.34	0.04	0.01	0.0	0.02	19	0.0	0.49	0.0	0.03	0.14	0.10	0.00	0.34	0.04	0.01	0.0	
20	0.00	0.25	0.0	0.02	0.31	0.0	0.0	0.12	0.01	0.24	0.00	0.03	20	0.00	0.25	0.0	0.02	0.31	0.0	0.0	0.12	0.01	0.24	0.00	
21	0.01	1.05	0.0	0.02	0.0	0.00	0.0	0.01	0.12	0.0	0.03	0.02	21	0.01	1.05	0.0	0.02	0.0	0.00	0.0	0.01	0.12	0.0	0.03	
22	0.01	0.16	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.14	0.24	22	0.01	0.16	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.14	
23	0.0	0.35	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.78	23	0.0	0.35	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.78	
24	0.0																								

1968		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO TOLLGATE WATERSRED (116083)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.190	1.510	13.316	10.297	15.833	8.103	1.681	0.009	0.235	0.309	1.034	2.581	
2	2.190	1.743	12.305	9.895	15.520	7.779	1.477	0.012	0.285	0.349	1.309	2.410	
3	2.043	1.737	11.655	8.824	15.942	7.588	1.116	0.016	0.335	0.363	1.767	2.333	
4	1.728	1.785	11.977	9.396	17.171	7.586	0.981	0.012	0.297	0.377	1.743	2.275	
5	1.890	1.770	12.422	12.421	16.771	7.527	0.914	0.012	0.246	0.392	1.419	2.247	
6	1.436	1.766	11.861	9.968	14.028	7.569	0.732	0.012	0.203	0.438	1.190	2.218	
7	1.036	1.780	11.044	9.212	12.565	7.131	1.056	0.012	0.161	0.500	1.122	2.190	
8	1.466	1.854	9.872	8.763	12.522	7.014	0.449	0.016	0.143	0.550	1.466	2.190	
9	1.752	1.824	8.623	9.281	13.672	7.606	0.493	0.023	0.134	0.584	1.1979	2.145	
10	1.712	1.901	8.002	10.088	14.342	6.108	0.734	0.027	0.126	0.567	3.905	2.290	
11	1.831	1.759	7.748	11.886	14.302	5.384	0.423	0.019	0.102	0.567	3.180	2.124	
12	1.670	1.717	7.479	11.748	15.095	5.050	0.328	0.016	0.087	0.676	3.836	1.882	
13	1.649	1.697	7.924	10.245	14.317	4.838	0.372	0.016	0.081	0.934	2.852	1.877	
14	1.662	1.842	7.014	10.992	12.925	4.520	0.297	0.664	0.088	1.121	2.288	2.233	
15	3.600	1.746	6.519	11.516	12.480	4.089	0.268	0.834	0.157	1.121	2.584	2.217	
16	3.272	1.654	6.604	10.514	11.621	3.927	0.240	0.376	0.212	1.014	2.411	2.100	
17	2.342	2.621	6.471	9.640	11.516	3.617	0.219	3.995	0.212	0.929	2.370	1.951	
18	2.116	7.139	5.964	9.496	11.249	3.359	0.116	2.480	0.235	0.908	3.117	1.974	
19	2.025	20.502	5.587	9.202	11.165	3.335	0.079	2.991	0.311	0.993	4.338	1.972	
20	1.898	45.964	5.577	8.818	14.440	3.344	0.056	2.488	0.440	1.143	4.002	1.847	
21	1.984	76.350	5.598	7.896	11.955	3.069	0.050	2.049	0.568	1.122	3.689	1.670	
22	1.996	30.700	5.868	7.862	11.443	2.795	0.045	1.661	0.585	1.034	4.489	1.857	
23	1.982	74.690	5.852	7.660	11.861	2.813	0.036	1.230	0.517	1.013	3.785	2.382	
24	1.778	37.989	5.965	7.759	11.351	2.551	0.027	0.942	0.423	0.992	3.522	10.509	
25	1.810	23.849	6.601	8.063	10.902	2.435	0.023	0.708	0.349	0.950	3.516	6.113	
26	1.759	19.670	6.235	8.192	11.123	2.091	0.019	0.595	0.297	0.929	3.158	3.962	
27	2.244	15.672	6.212	8.408	10.647	1.859	0.016	0.445	0.246	0.929	3.144	3.015	
28	2.039	13.796	7.193	9.423	9.873	2.020	0.016	0.498	0.246	0.950	2.685	3.382	
29	1.654	13.014	8.841	12.182	9.436	2.161	0.016	0.468	0.270	0.992	2.621	6.150	
30	1.765		9.544	14.760	8.878	1.940	0.016	0.408	0.283	1.013	2.653	3.722	
31	1.611		9.001		8.705		0.012	0.299		1.013		2.689	
MEAN	1.940	14.139	8.222	9.813	12.678	4.640	0.397	0.753	0.262	0.799	3.039	2.855	
INCHES	0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157	
STA AV	0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144	

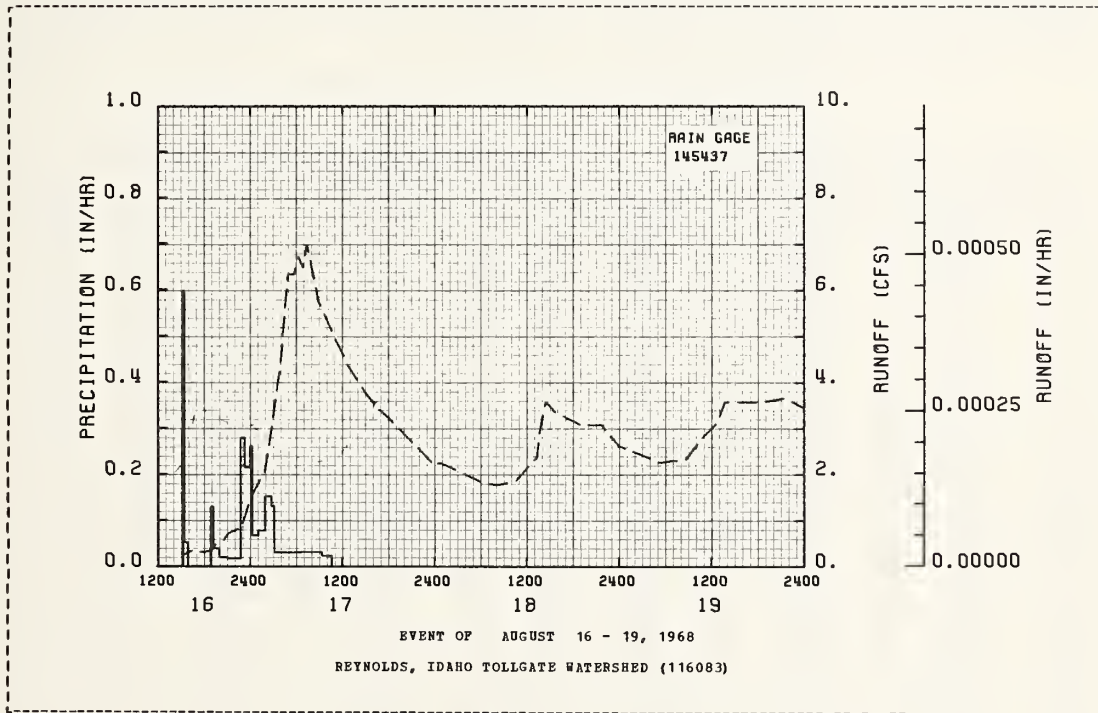
NOTES: To convert CFS to IN/DAY, multiply by 0.001769.

1968		SELECTED RONOFP EVENT			REYNOLDS, IDAHO TOLLGATE WATERSRED (116083)						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 16 - 19, 1968											
8-16	RG 145437 0.01	0.000	8-16	RG 145437 1516	0.0	0.0	8-16	1516	0.26	0.0	
				1527	0.6000	0.11		1632	0.36	0.0	
				1550	0.0522	0.13		1724	0.31	0.0	
				1850	0.0	0.13		1856	0.36	0.0	
				1913	0.1304	0.18		1926	0.48	0.0	
WATERSHED CONDITIONS: Generally sagebrush range- land. Vegetation consists predominately of big sage- brush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirrel- tail grass. 25% of area has 0-25% cover, 15% of area has 26-50% cover, 15% of area has 51-75% cover and 45% of area has 76-100% cover.											
				1959	0.0391	0.21		2030	0.58	0.0	
				2100	0.0197	0.23		2106	0.73	0.0	
				2246	0.0170	0.26		2250	0.85	0.0001	
				2318	0.2813	0.41		2400	1.47	0.0002	
				2400	0.2143	0.56	8-17	156	2.08	0.0005	
			8-17	16	0.2625	0.63		312	3.49	0.0008	
				101	0.0667	0.68		356	4.33	0.0010	
				155	0.0778	0.75		456	6.34	0.0014	
				246	0.1529	0.88		544	6.34	0.0018	
				309	0.1304	0.93		618	6.72	0.0021	
				627	0.0303	1.03		654	6.47	0.0024	
				917	0.0318	1.12		724	6.98	0.0026	
				1036	0.0228	1.15		854	5.75	0.0033	
								1110	4.90	0.0042	
								1248	4.33	0.0048	
								1508	3.73	0.0055	
								1638	3.42	0.0059	
								1806	3.20	0.0063	
								2026	2.79	0.0068	
								2400	2.19	0.0075	
							8-18	36	2.25	0.0076	
								614	1.81	0.0084	
								752	1.76	0.0086	
								1038	1.87	0.0090	
								1250	2.30	0.0093	
								1318	2.36	0.0094	
								1342	2.92	0.0095	
								1426	3.57	0.0097	
								1540	3.34	0.0100	
								1858	3.06	0.0108	

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 16 - 19, 1968 (CONTINUED)											
							8-18	2142	3.06	0.0114	
								2400	2.60	0.0119	
							8-19	510	2.25	0.0128	
								702	2.30	0.0131	
								828	2.30	0.0133	
								1108	2.86	0.0138	
								1244	3.13	0.0142	
								1346	3.57	0.0145	
								1804	3.57	0.0156	
								2130	3.65	0.0165	
								2400	3.42	0.0172	

NOTES: To convert CPS to IN/HR, multiply by 0.00007372.



REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RONOFF (inches)													REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	17.90	
	O 0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137	1.760	
STA AV	P 1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	0.0	
	O 0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144	3.593	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RONOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days					
	2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	2-21	0.067	2-21	0.092	2-21	0.152	2-18	0.432
MAXIMUMS FOR PERIOD OF RECORD																
	2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	1-28	0.076	1-28	0.126	1-28	0.236	1-27	0.606
	1968		1968		1968		1968		1967		1967		1967		1967	

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, OSDA Misc. Pub. 1262, p. 68.11-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.09	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10		
2	0.0	0.13	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.18	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0		
4	0.0	0.00	0.0	0.23	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04		
5	0.04	0.0	0.22	0.41	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01	0.0	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.09	0.0		
8	0.06	0.0	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.67	0.0		
9	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0		
10	0.23	0.0	0.0	0.0	0.09	0.0	0.0	0.19	0.0	0.0	0.03	0.08		
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.14		
12	0.0	0.09	0.0	0.0	0.52	0.0	0.0	0.08	0.0	0.08	0.39	0.0		
13	0.0	0.09	0.09	0.0	0.19	0.0	0.0	0.07	0.0	0.19	0.01	0.00		
14	0.0	0.0	0.27	0.0	0.05	0.0	0.06	0.75	0.0	0.19	0.0	0.05		
15	0.24	0.04	0.0	0.05	0.02	0.0	0.0	0.0	0.06	0.04	0.12	0.13		
16	0.12	0.0	0.00	0.02	0.05	0.0	0.0	0.39	0.0	0.01	0.17	0.07		
17	0.0	0.28	0.36	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.01		
18	0.0	0.42	0.0	0.14	0.0	0.0	0.0	0.20	0.01	0.0	0.23	0.20		
19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.27	0.0	0.0	0.04	0.01		
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.03	0.01		
21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.02	0.0		
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.11	0.11		
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.61		
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.22	0.36		
25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.02	0.12		
26	0.0	0.0	0.0	0.05	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.07		
27	0.03	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00		
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01		
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.05	0.0	0.0		
30	0.20	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.18		
31	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31		
STA AV	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 3 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (R/A) = \log_e (O/S) \times 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IOAHO MURPHY CREEK WATERSHED (043004)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.0	0.09	0.01	0.10	0.0	0.0	0.0	0.00	0.0	0.0	0.16	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0	
4	0.0	0.00	0.0	0.21	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04	
5	0.04	0.0	0.18	0.29	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0	
8	0.03	0.0	0.0	0.0	0.0	0.21	0.01	0.0	0.0	0.0	0.60	0.0	
9	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0	
10	0.08	0.0	0.0	0.0	0.07	0.0	0.0	0.19	0.0	0.0	0.03	0.04	
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.08	0.06	
12	0.0	0.06	0.0	0.0	0.49	0.0	0.0	0.08	0.0	0.07	0.32	0.0	
13	0.0	0.07	0.04	0.0	0.18	0.0	0.0	0.07	0.0	0.16	0.01	0.00	
14	0.0	0.0	0.11	0.0	0.05	0.0	0.04	0.74	0.0	0.17	0.0	0.02	
15	0.11	0.03	0.0	0.01	0.02	0.0	0.0	0.0	0.06	0.04	0.05	0.06	
16	0.05	0.0	0.00	0.01	0.05	0.0	0.0	0.38	0.0	0.01	0.07	0.04	
17	0.0	0.27	0.12	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.00	
18	0.0	0.42	0.0	0.02	0.0	0.0	0.0	0.16	0.01	0.0	0.11	0.13	
19	0.0	0.30	0.0	0.01	0.06	0.0	0.0	0.26	0.0	0.0	0.01	0.01	
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.01	0.01	
21	0.0	0.72	0.0	0.01	0.27	0.0	0.0	0.0	0.21	0.0	0.01	0.0	
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.06	0.08	
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.47	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.10	0.28	
25	0.0	0.0	0.10	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.07	
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
27	0.01	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00	
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01	
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0	
30	0.07	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.13	
31	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.56	2.60	0.56	0.77	1.65	0.31	0.12	3.07	0.30	0.90	2.08	1.61	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IOAHO MURPHY CREEK WATERSHED (043004)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09	0.02	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.0	0.11	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.17	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0	
4	0.0	0.00	0.0	0.22	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04	
5	0.04	0.0	0.20	0.35	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0	
8	0.04	0.0	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.64	0.0	
9	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0	
10	0.14	0.0	0.0	0.0	0.08	0.0	0.0	0.19	0.0	0.0	0.03	0.06	
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.10	
12	0.0	0.08	0.0	0.0	0.50	0.0	0.0	0.08	0.0	0.07	0.36	0.0	
13	0.0	0.08	0.06	0.0	0.19	0.0	0.0	0.07	0.0	0.17	0.01	0.00	
14	0.0	0.0	0.18	0.0	0.05	0.0	0.04	0.75	0.0	0.18	0.0	0.04	
15	0.17	0.03	0.0	0.02	0.02	0.0	0.0	0.0	0.06	0.04	0.08	0.09	
16	0.08	0.0	0.00	0.02	0.05	0.0	0.0	0.38	0.0	0.01	0.12	0.05	
17	0.0	0.27	0.22	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.00	
18	0.0	0.42	0.0	0.06	0.0	0.0	0.0	0.19	0.01	0.0	0.16	0.16	
19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.26	0.0	0.0	0.03	0.01	
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.02	0.01	
21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.01	0.0	
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.08	0.10	
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.55	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.15	0.32	
25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.19	
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
27	0.02	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00	
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01	
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0	
30	0.13	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.16	
31	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.82	2.68	0.80	0.92	1.70	0.33	0.12	3.10	0.30	0.94	2.41	1.94	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IOAHO MURPHY CREEK WATERSHED (043004)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.199	0.051	0.312	0.105	0.066	0.025	0.0	0.0	0.0	0.0	0.001	0.039	
2	0.137	0.062	0.299	0.105	0.059	0.023	0.0	0.0	0.0	0.0	0.002	0.037	
3	0.044	0.070	0.287	0.105	0.059	0.025	0.0	0.0	0.0	0.0	0.004	0.037	
4	0.034	0.070	0.274	0.122	0.066	0.028	0.0	0.0	0.0	0.0	0.006	0.039	
5	0.034	0.059	0.253	0.133	0.066	0.030	0.0	0.0	0.0	0.0	0.007	0.039	
6	0.032	0.053	0.223	0.121	0.062	0.030	0.0	0.0	0.0	0.0	0.011	0.039	
7	0.032	0.050	0.214	0.116	0.059	0.032	0.0	0.0	0.0	0.0	0.022	0.037	
8	0.037	0.050	0.205	0.116	0.056	0.034	0.0	0.0	0.0	0.0	0.034	0.034	
9	0.042	0.050	0.189	0.116	0.056	0.032	0.0	0.0	0.0	0.0	0.037	0.034	
10	0.044	0.047	0.174	0.116	0.071	0.025	0.0	0.0	0.0	0.0	0.034	0.037	
11	0.042	0.044	0.166	0.121	0.086	0.021	0.0	0.0	0.0	0.0	0.042	0.039	
12	0.039	0.044	0.159	0.121	0.078	0.019	0.0	0.0	0.0	0.0	0.047	0.037	
13	0.039	0.044	0.152	0.116	0.066	0.017	0.0	0.0	0.0	0.0	0.042	0.034	
14	0.048	0.044	0.152	0.116	0.059	0.017	0.0	0.0	0.0	0.0	0.039	0.037	
15	0.053	0.044	0.146	0.116	0.053	0.016	0.0	0.0	0.0	0.0	0.037	0.039	
16	0.050	0.037	0.146	0.116	0.050	0.009	0.0	0.0	0.0	0.0	0.034	0.039	
17	0.047	0.103	0.146	0.116	0.050	0.004	0.0	0.0	0.0	0.0	0.037	0.039	
18	0.044	0.524	0.139	0.110	0.050	0.002	0.0	0.0	0.0	0.0	0.048	0.039	
19	0.044	0.329	0.133	0.105	0.060	0.002	0.0	0.0	0.0	0.0	0.056	0.039	
20	0.044	0.813	0.121	0.105	0.063	0.002	0.0	0.0	0.0	0.001	0.053	0.037	
21	0.050	1.129	0.116	0.105	0.053	0.001	0.0	0.0	0.0	0.001	0.047	0.034	
22	0.059	0.518	0.116	0.100	0.050	0.0	0.0	0.0	0.0	0.001	0.042	0.034	
23	0.059	0.986	0.110	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.042	0.050	
24	0.056	0.577	0.110	0.095	0.044	0.0	0.0	0.0	0.0	0.001	0.042	0.292	
25	0.053	0.522	0.116	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.159	
26	0.047	0.454	0.110	0.090	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.091	
27	0.044	0.388	0.105	0.086	0.044	0.0	0.0	0.0	0.0	0.001	0.039	0.077	
28	0.042	0.355	0.105	0.082	0.042	0.0	0.0	0.0	0.0	0.001	0.039	0.073	
29	0.039	0.340	0.105	0.073	0.037	0.0	0.0	0.0	0.0	0.001	0.039	0.066	
30	0.039		0.105	0.070	0.034	0.0	0.0	0.0	0.0	0.001	0.039	0.062	
31	0.039		0.105		0.032		0.0	0.0		0.001		0.062	
MEAN	0.0521	0.2710	0.1644	0.1063	0.0553	0.0132	0.0	0.0	0.0	0.0002	0.0334	0.0566	
INCHES	0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137	
STA AV	0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144	

NOTES: To convert CFS to IN/DAY, multiply by 0.077784.

REYNOLDS, IOAHO SUMMIT WATERSHEO (048077)

LDCATIDN: Owyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO SUMMIT WATERSHED (048077)		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1968	P 0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04	8.82		
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.083		
STA AV	P 0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04	0.0		
	O 0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.042	0.0	0.0	0.0	0.0	0.043		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Date	Maximum Discharge Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	8-14 0.125	8-14 0.033	8-14 0.033	8-17 0.038	8-16 0.038	8-13 0.043	8-12 0.043	8-9 0.083						
MAXIMUMS FOR PERIOD OF RECORD														
	8-14 1968 0.125	8-14 1968 0.033	8-14 1968 0.033	8-17 1968 0.038	8-16 1968 0.038	8-13 1968 0.043	8-12 1968 0.043	8-9 1968 0.083						

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Precipitation: 'Computed Actual' amounts from 1 rain gage. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO SUMMIT WATERSHED (048077)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0	0.0	
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.36	0.0	0.0	
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.04	0.0	0.0	
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03	0.0	
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0	0.0	
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0	0.0	
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.26	0.0	0.0	0.03	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0	0.0	
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.19	0.0	
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.0	
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04		
STA AV	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04		

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049X61. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IOHS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (O/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IOAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.29	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.09
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.37	0.58	0.13	0.19	0.83	0.38	0.03	3.71	0.0	0.38	1.01	0.85
STA AV												

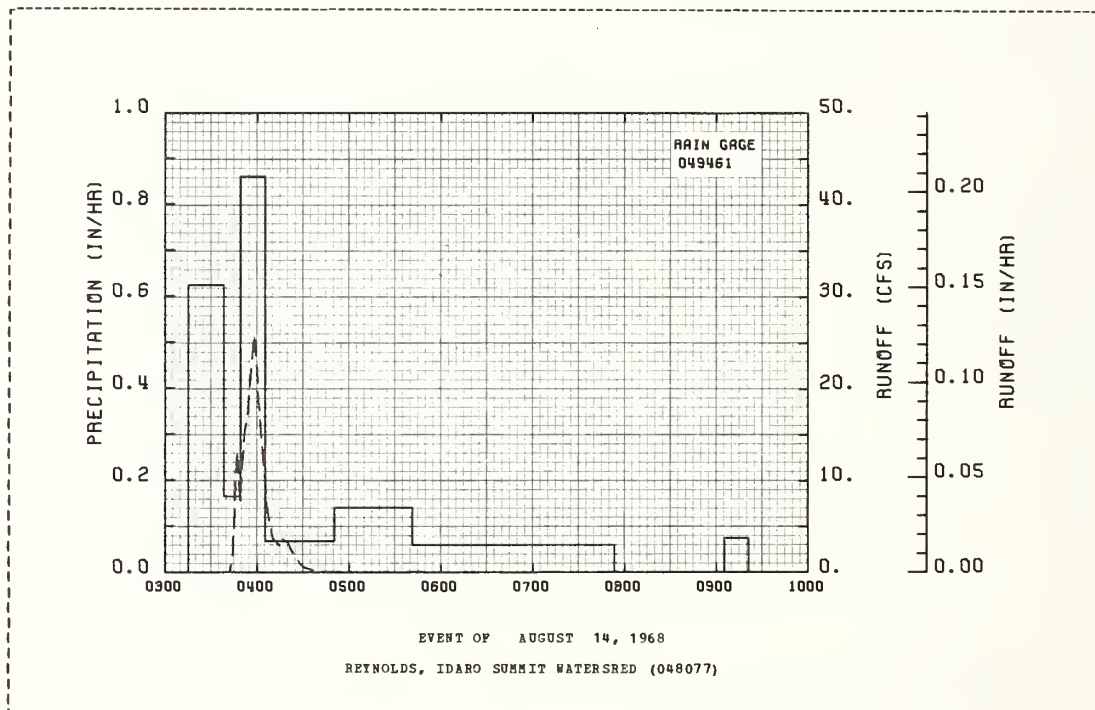
NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IOAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.32	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.13
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.37	0.58	0.13	0.19	0.85	0.38	0.03	3.75	0.0	0.38	1.05	0.93
STA AV												

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1968 (CONTINUED)										
				8-14				452	0.01	0.0332
								456	0.0	0.0332
								511	0.0	0.0332
								512	0.01	0.0332
								516	0.04	0.0332
								518	0.07	0.0332
								529	0.06	0.0333
								536	0.06	0.0333
								540	0.09	0.0333
								544	0.06	0.0333
								548	0.04	0.0333
								552	0.02	0.0333
								556	0.01	0.0333
								600	0.0	0.0333
								622	0.0	0.0333
								629	0.01	0.0333
								632	0.0	0.0333
								700	0.0	0.0333
								702	0.01	0.0333
								704	0.04	0.0333
								706	0.05	0.0333
								712	0.05	0.0333
								716	0.04	0.0333
								718	0.02	0.0333
								722	0.01	0.0333
								724	0.0	0.0333
								728	0.0	0.0333
								940	0.0	0.0333

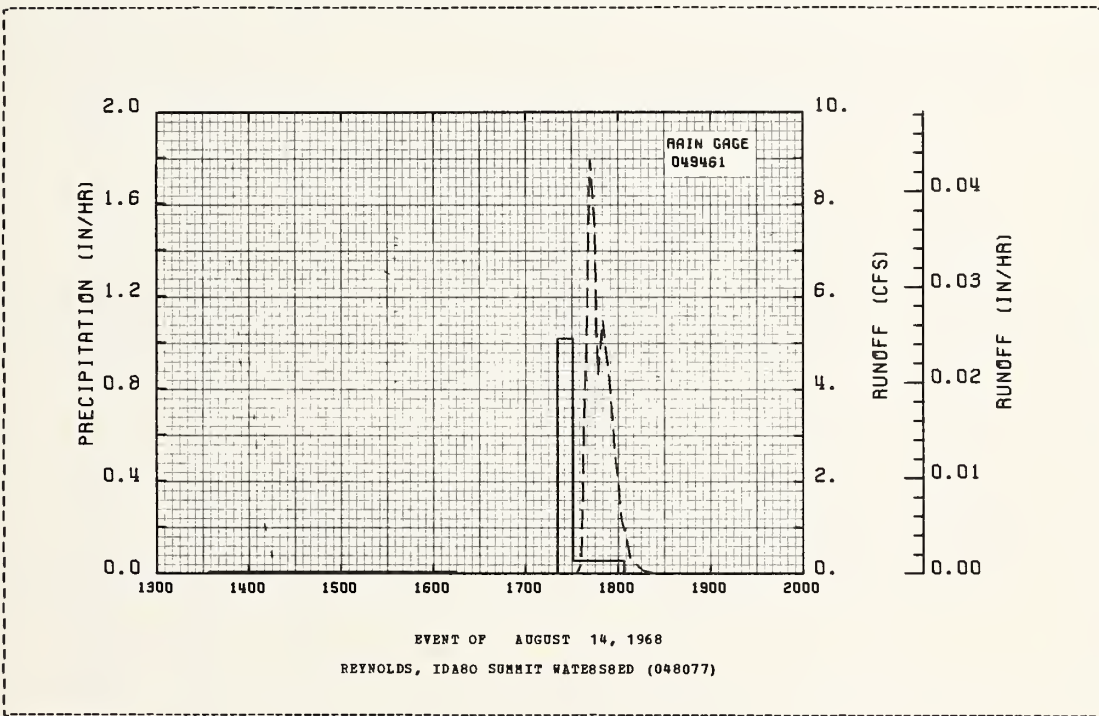
NOTES: To convert CFS to IN/HR, multiply by 0.004838.



1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 14, 1968											
8-14	RG 049461 0.82	0.034	8-14	RG 049461 1334	0.0	0.0	8-14	1733	0.0	0.0	
				1444	0.0086	0.01		1736	0.20	0.0	
				1615	0.0066	0.02		1737	1.32	0.0001	
				1721	0.0	0.02		1738	3.30	0.0003	
				1731	1.0200	0.19		1740	5.48	0.0010	
				1804	0.0545	0.22		1741	7.51	0.0015	
								1742	8.94	0.0023	
								1745	7.51	0.0043	
								1746	5.29	0.0048	
								1747	4.29	0.0052	
								1750	5.48	0.0064	
								1754	4.29	0.0080	
								1756	3.56	0.0086	
								1758	2.58	0.0091	
								1800	2.06	0.0095	
								1802	1.18	0.0097	
								1806	0.68	0.0100	
								1808	0.32	0.0101	
								1812	0.18	0.0102	
								1816	0.06	0.0102	
								1820	0.02	0.0102	
								1824	0.0	0.0102	

WATERSHED CONDITIONS:
Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.

NOTES: To convert CFS to IN/HR, multiply by 0.004838.



1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 16 - 17, 1968										
RG 049461			RG 049461							
8-16	0.0		8-16	1904	0.0	0.0	8-17	16	0.0	0.0
8-17		0.0		1940	0.2833	0.17		18	0.01	0.0
				2124	0.0058	0.18		20	0.06	0.0
				2314	0.0164	0.21		22	0.09	0.0
				2400	0.1435	0.32		26	0.13	0.0
WATERSHED CONDITIONS:			8-17	40	0.1200	0.40		38	0.15	0.0001
Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg blue grass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.				122	0.2571	0.58		40	0.22	0.0001
				220	0.1759	0.75		46	0.27	0.0002
				306	0.1696	0.88		56	0.32	0.0004
				422	0.0711	0.97		100	0.45	0.0005
				506	0.0545	1.01		102	0.68	0.0006
				606	0.1000	1.11		104	1.00	0.0007
				740	0.0574	1.20		106	1.62	0.0009
				1006	0.0123	1.23		108	1.97	0.0012
				1231	0.0248	1.29		112	2.69	0.0019
								116	3.43	0.0029
								118	3.85	0.0034
								124	3.56	0.0052
								132	3.85	0.0076
								142	3.70	0.0107
								144	3.17	0.0112
								148	2.69	0.0121
								156	2.26	0.0137
								202	2.06	0.0148
								208	2.06	0.0158
								212	2.26	0.0165
								214	2.47	0.0169
								216	3.04	0.0174
								220	3.43	0.0184
								224	3.85	0.0196
								233	4.29	0.0225
								235	3.99	0.0232
								236	3.30	0.0235
								240	2.92	0.0245
								244	2.69	0.0254
								246	2.36	0.0258
								248	2.58	0.0262
								251	2.26	0.0268
								258	2.69	0.0282
								259	2.36	0.0284
								302	2.69	0.0290
								306	2.36	0.0298
								312	2.47	0.0310
								316	2.26	0.0318
								318	2.36	0.0321
								322	2.26	0.0328
								324	2.06	0.0332
								326	1.79	0.0335
								328	1.54	0.0338
								332	1.62	0.0343
								336	1.39	0.0348
								340	1.12	0.0352
								344	0.88	0.0355
								348	0.68	0.0358
								350	0.52	0.0359
								352	0.41	0.0360
								400	0.29	0.0362
								404	0.20	0.0363
								408	0.15	0.0364
								410	0.18	0.0364
								412	0.13	0.0364
								416	0.09	0.0364
								419	0.13	0.0364
								422	0.09	0.0364
								426	0.10	0.0364
								429	0.08	0.0364
								439	0.09	0.0365
								448	0.10	0.0366
								452	0.08	0.0366
								456	0.06	0.0366
								500	0.04	0.0366
								504	0.03	0.0366
								520	0.02	0.0366
								532	0.02	0.0366
								544	0.09	0.0367

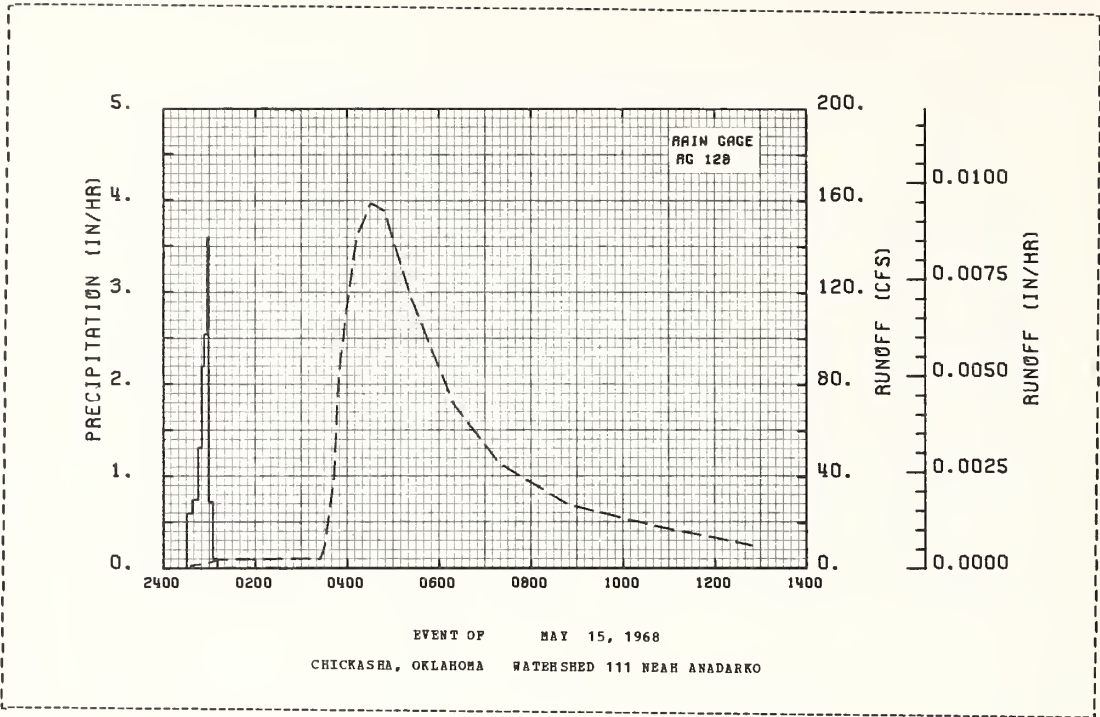
NOTES: To convert CFS to IN/HR, multiply by 0.004838.

1968		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANAOKO					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.500	1.400	1.600	1.100	0.900	18.000	13.000	0.0	0.0	0.100	0.400	2.500
2	0.500	1.200	1.500	1.400	0.800	5.000	3.600	0.0	0.0	0.0	2.200	2.100
3	0.500	1.100	1.400	1.800	0.700	2.600	0.900	0.0	0.0	0.0	1.000	1.900
4	0.500	1.100	1.300	1.200	0.700	1.800	0.700	0.0	19.000	0.0	0.600	1.800
5	0.500	1.100	1.400	1.100	0.700	1.400	0.600	0.0	0.400	0.700	0.600	1.600
6	0.500	1.100	1.400	1.000	0.600	1.200	0.600	0.0	0.300	0.300	0.500	1.600
7	0.300	1.100	1.400	0.900	1.100	1.200	0.600	0.0	0.100	0.0	0.500	1.600
8	0.300	1.100	1.600	1.000	0.700	1.000	0.500	0.0	0.0	0.400	0.600	1.500
9	0.400	1.100	1.500	1.000	15.000	0.700	0.400	0.0	0.0	34.000	0.600	1.500
10	0.800	1.100	1.400	1.000	3.100	0.800	0.300	0.0	0.0	2.300	0.600	1.400
11	0.700	1.100	1.500	0.900	2.400	0.600	0.200	0.0	0.0	1.200	0.600	1.500
12	1.200	1.100	1.900	1.100	1.700	0.500	0.200	0.0	0.0	0.900	0.600	1.400
13	2.000	1.200	1.900	1.800	2.700	0.400	0.200	0.0	0.0	0.700	0.600	1.200
14	0.800	1.400	1.500	1.400	2.500	0.300	7.300	0.0	0.0	1.000	1.200	1.200
15	0.800	1.600	1.400	1.200	24.000	26.000	12.000	0.900	0.0	1.000	13.000	1.200
16	0.800	1.600	1.300	1.100	2.900	9.500	1.700	0.0	0.0	0.500	3.200	1.200
17	0.900	1.600	1.300	1.200	2.000	2.000	1.000	0.0	0.0	0.400	2.300	1.300
18	2.700	1.500	1.300	1.200	1.400	1.300	0.600	0.0	0.0	0.500	1.700	2.500
19	3.100	1.400	1.400	3.300	1.300	0.900	0.500	0.0	0.0	0.500	1.300	2.000
20	1.700	1.300	1.900	1.800	1.300	0.600	0.500	0.0	0.0	0.500	1.200	1.600
21	1.700	1.400	2.700	1.500	1.800	0.500	0.500	0.0	0.0	0.400	1.100	1.700
22	1.900	1.800	2.100	2.600	1.800	0.500	0.300	0.0	0.0	0.400	1.000	1.600
23	1.600	2.000	2.000	1.800	1.300	0.400	0.100	0.0	0.700	0.400	1.000	1.300
24	1.400	2.200	1.700	1.400	1.300	0.400	0.100	0.0	3.300	0.300	0.900	1.400
25	1.300	2.500	1.600	1.200	1.800	0.500	0.0	0.0	0.200	0.400	0.900	1.600
26	1.300	2.100	1.500	1.100	1.400	0.400	0.0	0.0	0.0	0.400	10.000	1.600
27	1.200	1.700	1.400	1.100	1.200	0.300	0.0	0.0	0.0	0.300	5.900	2.400
28	1.200	3.000	1.400	1.100	1.100	0.300	0.0	0.0	0.0	0.400	6.000	2.700
29	1.600	1.700	1.400	1.000	0.900	0.200	0.0	0.0	0.0	0.400	3.600	2.500
30	2.900	1.400	0.900	0.800	0.800	0.100	0.0	0.0	0.0	0.400	2.700	2.200
31	1.600	1.300	1.300	9.400	9.400	0.0	0.0	0.0	0.0	0.300	1.500	1.500
MEAN	1.2000	1.5030	1.5610	1.3400	2.8810	2.6470	1.4970	0.0290	0.8000	1.5840	2.2130	1.7130
INCHES	0.053	0.062	0.069	0.058	0.128	0.114	0.066	0.001	0.034	0.070	0.095	0.076
STA AV	0.085	0.089	0.098	0.138	0.154	0.065	0.045	0.019	0.063	0.036	0.084	0.073

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-FT, multiply by 1,386. Yearly mean discharge, 1.6 CPS. Yearly discharge, 0.826 inches.

1968		SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANAOKO					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 15, 1968												
5-15	RG 128 0.0	0.000	5-15	RG 128 30	0.0	0.0	5-15	36	1.50	0.0		
				37	0.6000	0.07		42	1.80	0.0		
				41	0.7500	0.12		54	2.20	0.0		
				45	0.7500	0.17		106	3.40	0.0		
				50	1.3200	0.28		112	4.00	0.0		
WATERSHED CONDITIONS:				53	2.2000	0.39		242	4.40	0.0004		
From a 1967 survey; sowed				57	2.5500	0.56		324	4.00	0.0006		
crop - 14%; row crop - 4%;				59	3.6000	0.68		330	10.20	0.0006		
alfalfa - 2%; pasture and				104	0.7200	0.74		342	38.80	0.0009		
range - 72%; and miscel-				110	0.1000	0.75		348	82.30	0.0013		
laneous - 8%.								400	116.40	0.0025		
								412	143.60	0.0040		
								430	158.60	0.0067		
								448	155.10	0.0095		
								524	116.40	0.0144		
								618	71.50	0.0194		
								718	45.40	0.0229		
								848	27.50	0.0262		
								1042	18.20	0.0288		
								1248	9.90	0.0306		

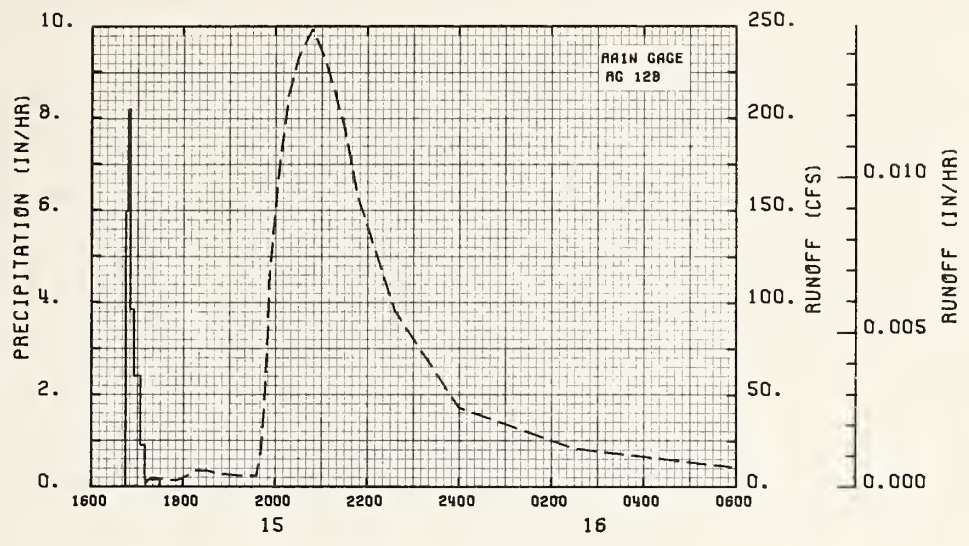
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00005962. For 30-day antecedent P and Q, see table on previous page.



1968 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF			JUNE 15 - 16, 1968							
6-15	RG 128	0.000	6-15	1645	0.0	0.0	6-15	1648	0.30	0.0
				1648	6.0015	0.30		1700	0.80	0.0
				1651	8.1995	0.71		1712	2.60	0.0
				1656	3.8402	1.03		1718	4.90	0.0
				1704	2.3998	1.35		1742	3.40	0.0001
				1710	0.9001	1.44		1754	3.90	0.0001
				1730	0.1500	1.49		1806	6.40	0.0002
								1812	8.50	0.0002
								1818	9.10	0.0003
								1830	8.80	0.0004
								1842	7.30	0.0005
								1912	6.10	0.0007
								1936	5.90	0.0008
								1942	21.30	0.0009
								1948	59.80	0.0011
								1954	120.70	0.0016
								2006	174.50	0.0034
								2018	213.40	0.0057
								2030	232.70	0.0088
								2048	248.30	0.0127
								2106	230.50	0.0170
								2130	195.30	0.0221
								2148	156.80	0.0252
								2236	95.30	0.0312
								2400	42.40	0.0369
			6-16	230				230	20.40	0.0416
				554				554	10.50	0.0447

WATERSHED CONDITIONS:
From a 1967 survey; sowed crop - 14%; row crop - 4%; alfalfa - 2%; pasture and range - 72%; and miscellaneous - 8%.

NOTES: To convert runoff in CPS to IN/8R, multiply by 0.00005962. For 30-day antecedent P and Q, see table on previous page.



EVENT OF JUNE 15 - 16, 1968
CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 29, T. 7 N., R. 9 W., lat 35 deg. 03 min., long. 98 deg. 10 min., 3 miles East and 1 mile South of Anadarko, Okla., at section line road bridge.

AREA: 25660.00 acres 40.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1968	P 2.99	1.43	1.14	2.15	6.61	1.96	3.93	0.97	4.40	2.61	4.77	0.98	33.94												
	O 0.040	0.061	0.070	0.048	0.287	0.076	0.024	0.0	0.011	0.013	0.036	0.057	0.723												
STA AV	P 0.92	1.09	1.17	2.85	3.94	2.89	2.15	2.62	3.92	1.77	2.60	0.88	26.80												
	O 0.053	0.065	0.070	0.105	0.128	0.028	0.005	0.003	0.015	0.011	0.034	0.042	0.561												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days										
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.									
1968	5-9	0.028	5-9	0.028	5-9	0.054	5-9	0.112	5-9	0.128	5-9	0.145	5-9	0.161	5-9	0.236									
MAXIMUMS FOR PERIOD OF RECORD																									
	5-9	0.028	5-9	0.028	5-9	0.054	5-9	0.112	5-9	0.128	5-9	0.145	5-9	0.161	5-9	0.236									
	1968		1968		1968		1968		1968		1968		1968		1968										

NOTES: Watershed conditions: From a 1967 survey: sowed crop - 8%; row crop - 4%; alfalfa - 2%; pasture and range - 71%; and miscellaneous - 15%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.11-4 and 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Aug. 1962. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.02	0.0	0.20	0.0	0.69	1.52	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0													
3	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	1.72	0.0	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2 ^E	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.0	0.0													
6	0.04	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.08	0.0	0.14	0.09	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.0	0.0	0.0	0.0	2.61	0.0	0.0	0.0	0.0	1.54	0.0	0.0													
10	0.0	0.0	0.10	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.08	0.0													
11	0.04	0.0	0.21	0.0	0.26	0.0	0.0	0.03	0.0	0.0	0.0	0.0													
12	0.0	0.14	0.0	0.40	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
13	0.0	0.12	0.0	0.0	0.50	0.0	0.11	0.16	0.0	0.0	0.0	0.0													
14	0.0	0.19	0.0	0.0	0.0	0.0	1.60	0.12	0.0	0.0	0.09	0.0													
15	0.0	0.0	0.0	0.0	0.57	1.14	0.53	0.31	0.04	0.0	1.29	0.0													
16	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0													
18	1.46	0.02	0.13	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18													
19	0.10	0.0	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.14	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.14	0.27	0.0	0.14	0.52	0.0	0.0	0.0	0.0	0.14	0.0	0.12													
22	0.11	0.23	0.12	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.67	0.0	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.05	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	1.64	0.01													
27	0.0	0.41	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.48	0.67													
28	0.10	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.29	0.0													
29	0.71	0.0	0.0	0.0	0.02	0.0	0.13	0.01	0.0	0.0	0.0	0.0													
30	0.15	0.0	0.0	0.0	0.02	0.01	0.0	0.28	0.0	0.0	0.09	0.0													
31	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	2.99	1.43	1.14	2.15	6.61	1.96	3.93	0.97	4.40	2.61	4.77	0.98													
STA AV	0.92	1.09	1.17	2.85	3.94	2.89	2.15	2.62	3.92	1.77	2.60	0.88													

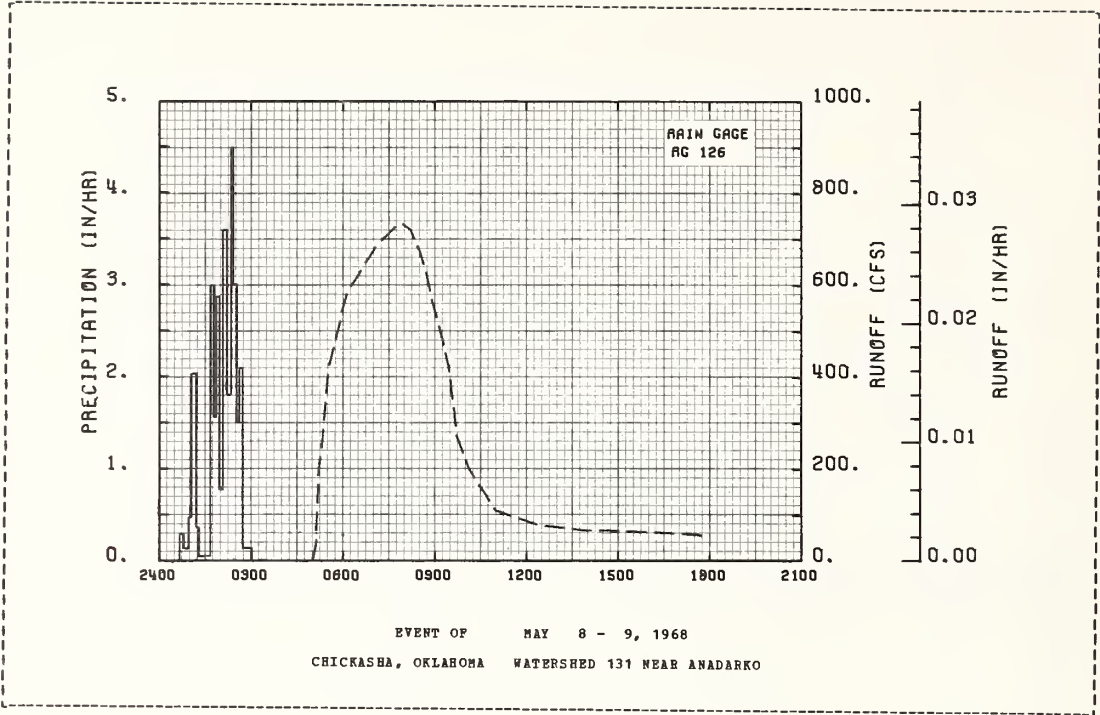
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 33.94 inches. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed.

1968		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 131 NEAR ANADARKO			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.60	2.50	2.50	1.70	0.70	21.00	4.20	0.0	0.0	0.0	0.10	3.00	
2	0.50	1.80	2.30	2.70	0.70	6.40	4.10	0.0	0.0	0.0	0.40	2.60	
3	0.50	1.70	1.90	3.60	0.70	4.00	0.80	0.0	0.0	0.0	0.60	2.20	
4	0.40	1.70	1.90	2.10	0.60	3.30	0.50	0.0	9.80	0.0	0.30	2.10	
5	0.50	1.70	2.00	1.70	0.60	2.70	0.40	0.0	0.20	0.40	0.30	2.00	
6	0.50	1.70	2.10	1.60	0.50	2.00	0.40	0.0	0.0	0.10	0.20	1.90	
7	0.10	1.70	2.10	1.50	1.50	1.90	0.40	0.0	0.0	0.0	0.20	1.70	
8	0.10	1.60	2.30	1.40	0.90	1.80	0.40	0.0	0.0	0.0	0.30	1.60	
9	0.10	1.60	2.20	1.20	150.00	1.60	0.30	0.0	0.0	9.70	0.30	1.70	
10	0.30	1.60	2.00	1.20	21.00	1.50	0.20	0.0	0.0	0.60	0.30	1.60	
11	0.60	1.50	2.40	1.20	10.00	1.30	0.10	0.0	0.0	0.30	0.30	1.90	
12	0.40	1.40	3.00	1.50	13.00	0.90	0.0	0.0	0.0	0.30	0.30	2.00	
13	0.40	1.60	3.20	2.40	15.00	0.70	0.0	0.0	0.0	0.30	0.30	1.30	
14	0.30	1.80	2.50	1.50	11.00	0.50	2.70	0.0	0.0	0.20	0.30	1.30	
15	0.40	2.20	2.00	1.20	26.00	10.00	8.10	0.0	0.0	0.20	4.10	1.40	
16	0.40	2.70	1.90	1.20	6.40	11.00	1.60	0.0	0.0	0.20	1.60	1.60	
17	0.80	2.70	1.80	1.20	4.50	2.70	0.60	0.0	0.0	0.20	0.90	1.80	
18	3.50	2.20	1.80	1.20	3.60	1.60	0.40	0.0	0.0	0.10	0.80	2.00	
19	5.30	2.20	2.50	4.70	3.00	1.20	0.30	0.0	0.0	0.10	0.70	1.70	
20	2.00	2.10	3.20	2.10	2.90	1.00	0.20	0.0	0.0	0.10	0.70	1.50	
21	2.10	2.00	4.70	2.00	4.50	0.80	0.10	0.0	0.0	0.20	0.70	1.80	
22	2.50	2.00	4.00	3.70	5.40	0.70	0.10	0.0	0.0	0.20	0.70	1.90	
23	1.50	2.50	3.60	2.10	3.20	0.70	0.0	0.0	0.0	0.10	0.70	1.40	
24	1.30	3.00	2.90	0.80	2.70	0.60	0.0	0.0	2.10	0.10	0.70	1.40	
25	1.20	4.50	2.50	1.30	4.00	0.70	0.0	0.0	0.20	0.10	0.70	1.70	
26	1.20	3.00	2.30	1.20	3.30	0.60	0.0	0.0	0.0	0.10	4.70	1.80	
27	1.10	2.70	2.10	1.10	2.70	0.40	0.0	0.0	0.0	0.10	4.90	3.60	
28	1.10	4.80	2.10	1.00	2.20	0.30	0.0	0.0	0.0	0.10	6.20	3.40	
29	3.40	2.80	2.00	0.90	1.70	0.20	0.0	0.0	0.0	0.10	3.90	3.00	
30	7.10		1.90	0.80	1.60	0.10	0.0	0.0	0.0	0.10	2.70	2.60	
31	3.00		1.90		5.40		0.0	0.0		0.10		2.10	
MEAN	1.3940	2.2520	2.4390	1.7270	9.9770	2.7400	0.8360	0.0	0.4100	0.4550	1.2970	1.9870	
INCHES	0.040	0.061	0.070	0.048	0.287	0.076	0.024	0.0	0.011	0.013	0.036	0.057	
STA AV	0.053	0.065	0.070	0.105	0.128	0.028	0.005	0.003	0.015	0.011	0.034	0.042	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0009276. To convert discharge in inches to AC-FT, multiply by 2,138. Yearly mean discharge, 2.1 CFS. Yearly discharge, 0.722 inches.

1968		SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA			WATERSHED 131 NEAR ANADARKO			
ANTECEDENT CONDITIONS		RUNOFF			FAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF MAY 8 - 9, 1968													
RG	126		RG	126									
5- 9	0.0		5- 9	40	0.0	0.0	5- 8	2400	0.90	0.0			
5- 8		0.001		48	0.3000	0.04	5- 9	200	0.80	0.0001			
				57	0.1333	0.06		206	1.20	0.0001			
				102	0.4800	0.10		218	1.30	0.0001			
				112	2.0400	0.44		348	1.10	0.0002			
				117	0.3600	0.47		500	1.40	0.0003			
				140	0.0522	0.49		506	34.30	0.0004			
				147	3.0000	0.84		512	206.20	0.0009			
				152	1.5600	0.97		518	249.70	0.0018			
				157	2.8800	1.21		530	417.30	0.0044			
				204	0.7714	1.30		542	468.70	0.0078			
				211	3.6000	1.72		606	581.80	0.0159			
				220	1.8000	1.99		636	635.00	0.0277			
				224	4.5000	2.29		706	687.80	0.0405			
				231	3.0000	2.64		730	713.70	0.0513			
				237	1.5000	2.79		742	726.70	0.0569			
				243	2.1000	3.00		754	732.60	0.0625			
				301	0.1333	3.04		812	718.00	0.0709			
								830	670.60	0.0790			
								842	629.40	0.0840			
								854	565.10	0.0886			
								912	494.20	0.0947			
								924	431.70	0.0983			
								930	399.10	0.0999			
								942	273.50	0.1025			
								1006	200.70	0.1062			
								1100	107.90	0.1116			
								1224	76.80	0.1166			
								1354	65.40	0.1207			
								1606	61.90	0.1261			
								1742	55.20	0.1297			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865. For 30-day antecedent P and Q, see table on previous page.



CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA

LOCATION: Line Creek Watershed above U.S. Highway 81 bridge at Chickasha, Grady and Caddo Counties, Okla.; tributary to Washita; Red River Basin. GAGING STATION--NE1/4 sec. 29, T. 7 N., R. 7 W., lat. 35 deg. 03 min., long. 97 deg. 58 min., Northwest edge of Chickasha, Okla., at U.S. Highway 81 bridge.

AREA: 33300.00 acres 52.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	2.52	1.24	1.49	1.82	4.89	2.19	3.20	1.35	3.68	2.30	4.64	0.85	30.17														
	O	0.001	0.0	0.002	0.001	0.006	0.015	0.013	0.0	0.009	0.029	0.003	0.0	0.079														
STA AV	P	0.81	0.99	1.22	2.71	3.25	3.00	1.97	2.92	3.78	1.44	2.46	0.88	25.44														
	O	0.003	0.004	0.005	0.071	0.023	0.028	0.012	0.058	0.033	0.006	0.036	0.007	0.286														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																												
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days										
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.									
1968		10-9	0.004	10-9	0.004	10-9	0.008	10-9	0.016	10-9	0.021	10-9	0.026	10-9	0.028	10-3	0.028											
MAXIMUMS FOR PERIOD OF RECORD																												
		8-28	0.060	8-28	0.053	8-28	0.096	8-28	0.204	8-28	0.274	8-28	0.302	8-28	0.316	8-27	0.318											
		1965		1965		1965		1965		1965		1965		1965		1965												

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 29%; row crop - 4%; alfalfa - 7%; pasture and range - 51%; and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, OSDA Misc. Pub. 1070, p. 69.12-4 and 1965, OSDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 13 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Sept. 1962. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.04	0.0	0.18	0.0	0.62	1.33	0.0	0.0	0.0	0.0	0.0															
2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0															
3	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0															
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.85	0.0	0.0															
6	0.03	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
7	0.0	0.0	0.05	0.0	0.20	0.52	0.0	0.0	0.0	0.0	0.0	0.0															
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.0	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.0	1.28	0.0	0.0															
10	0.0	0.0	0.16	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.10	0.0															
11	0.02	0.0	0.22	0.0	0.27	0.0	0.0	0.01	0.0	0.0	0.0	0.0															
12	0.0	0.11	0.0	0.34	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
13	0.0	0.09	0.0	0.0	0.44	0.0	0.03	0.31	0.0	0.0	0.0	0.0															
14	0.0	0.19	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.10	0.0															
15	0.0	0.0	0.0	0.0	0.50	0.81	0.24	0.73	0.04	0.0	1.27	0.0															
16	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.11	0.0	0.0															
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0															
18	1.31	0.0	0.30	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08															
19	0.16	0.0	0.25	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
20	0.07	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.14	0.22	0.0	0.14	0.53	0.0	0.0	0.0	0.0	0.06	0.0	0.15															
22	0.07	0.18	0.10	0.32	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0															
25	0.0	0.0	0.0	0.0	0.49	0.01	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0															
27	0.05	0.38	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	3.46	0.62															
28	0.02	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.27	0.0															
29	0.50	0.0	0.0	0.0	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.0															
30	0.15	0.0	0.0	0.0	0.01	0.0	0.0	0.30	0.0	0.0	0.09	0.0															
31	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL	2.52	1.24	1.49	1.82	4.89	2.19	3.20	1.35	3.68	2.30	4.64	0.85															
STA AV	0.81	0.99	1.22	2.71	3.25	3.00	1.97	2.92	3.78	1.44	2.46	0.88															

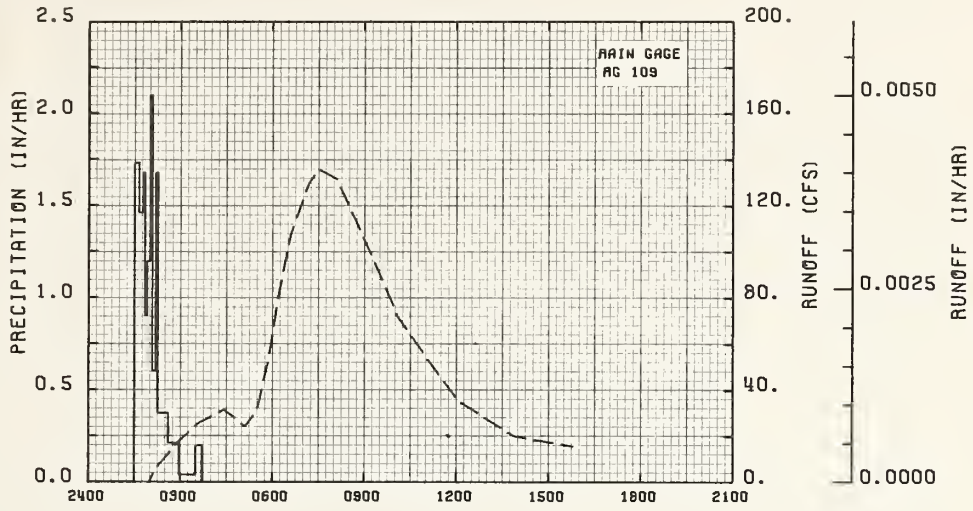
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 30.17 inches. Precipitation values are a Thiessen weighted average of 13 rain gages on the watershed.

1968		MEAN DAILY DISCHARGE (cfs)					CHICKASRA, OKLAHOMA			WATERSHED 411 AT CHICKASHA		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	5.300	11.000	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.500	6.100	0.0	0.0	0.0	0.100	0.0
3	0.0	0.0	0.0	0.100	0.0	0.0	0.100	0.0	0.100	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.900	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0	3.500	0.600	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.100	0.300	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.800	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.800	0.700	0.0	0.0	0.0	36.000	0.0	0.0
10	0.0	0.0	0.0	0.0	0.200	0.0	0.0	0.0	0.0	3.300	0.0	0.0
11	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.500	0.100	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.100	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	1.000	12.000	0.100	0.600	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	1.600	1.300	0.0	0.0	0.0	0.100	0.0	0.0
17	0.0	0.0	0.0	0.0	0.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.900	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.400	0.0	0.400	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.300	0.0	0.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.100	0.0	0.500	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	1.900	0.0	0.0	0.0
24	0.0	0.200	0.0	0.0	0.0	0.0	0.0	0.0	2.600	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	1.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	1.800	0.0
27	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.800	0.0
28	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0550	0.0210	0.0770	0.0270	0.2650	0.7000	0.5680	0.0190	0.4000	1.2900	0.1230	0.0
INCRS	0.001	0.0	0.002	0.001	0.006	0.015	0.013	0.0	0.009	0.029	0.003	0.0
STA AV	0.003	0.004	0.005	0.071	0.023	0.028	0.012	0.058	0.033	0.006	0.036	0.007

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0007148. To convert discharge in inches to AC-FT, multiply by 2,775. Yearly mean discharge, 0.3 CPS. Yearly discharge, 0.075 inches.

1968		SELECTED RONOFP EVENT			CHICKASHA, OKLAHOMA			WATERSHED 411 AT CHICKASHA		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 9, 1968										
10- 9	RG 109 0.0	0.0	10- 9	RG 109 130	0.0	0.0	10- 9	200	0.0	0.0
				139	1.7333	0.26		206	3.50	0.0
				146	1.4571	0.43		218	7.60	0.0
				151	1.6800	0.57		254	17.20	0.0002
				155	0.9000	0.63		336	25.90	0.0006
				201	1.2000	0.75		424	31.30	0.0013
				205	2.1000	0.89		506	24.00	0.0019
				211	0.6000	0.95		530	31.70	0.0022
				216	1.6800	1.09		554	55.20	0.0027
				237	0.3714	1.22		612	80.70	0.0033
				257	0.2100	1.29		636	107.60	0.0044
				330	0.0364	1.31		712	130.30	0.0065
				342	0.2000	1.35		730	135.40	0.0077
								806	131.00	0.0101
								912	99.20	0.0139
								1006	71.30	0.0162
								1106	52.40	0.0180
								1206	34.60	0.0193
								1354	19.60	0.0208
								1548	15.20	0.0218

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00002978. For 30-day antecedent P and Q, see table on previous page.



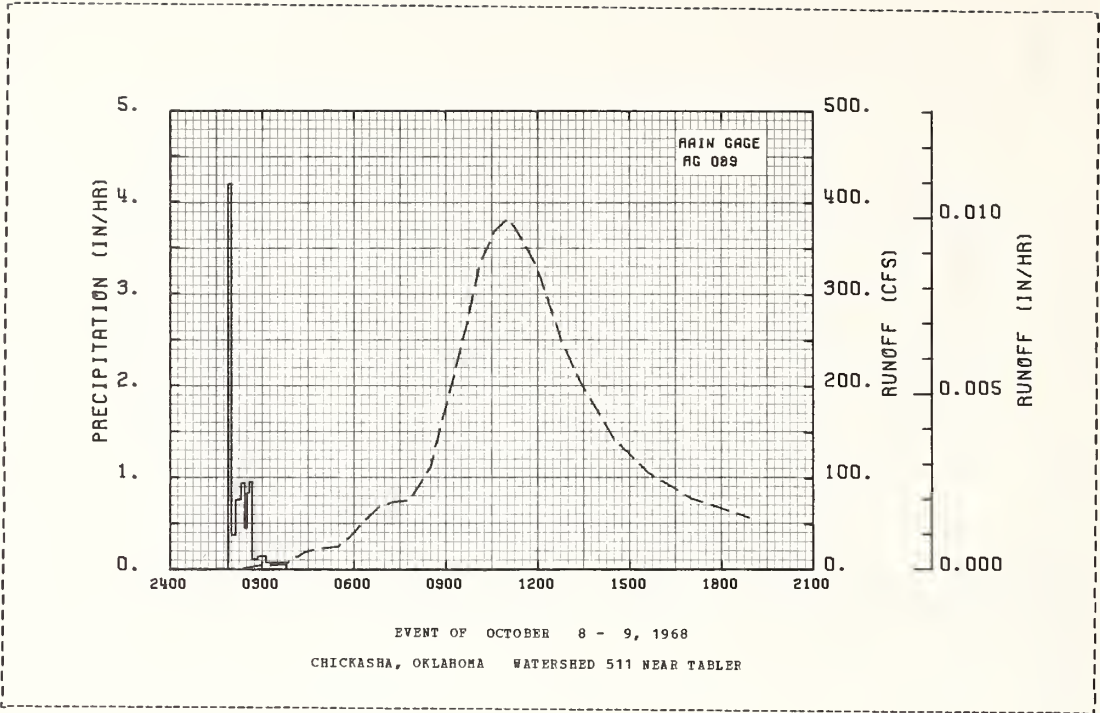
EVENT OF OCTOBER 9, 1968
CHICKASHA, OKLAHOMA WATERSHED #11 AT CHICKASHA

1968	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 511 NEAR TABLER			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.90	1.80	1.60	2.50	1.80	37.00	15.00	0.0	0.0	0.90	0.60	4.30
2	1.10	1.30	1.60	2.50	1.70	31.00	23.00	0.0	0.0	0.90	1.00	3.40
3	1.10	1.10	1.40	2.80	2.10	12.00	3.30	0.0	0.0	0.70	3.00	2.80
4	1.00	1.00	1.40	2.50	1.30	11.00	1.30	0.0	45.00	0.70	1.50	3.50
5	1.10	1.00	1.50	2.20	1.00	17.00	0.70	0.0	11.00	2.30	1.10	3.50
6	0.90	0.90	1.50	2.10	0.70	23.00	0.60	0.0	4.30	1.20	0.80	3.40
7	0.90	0.90	1.60	2.10	1.00	8.90	0.40	0.0	3.30	1.20	0.70	3.30
8	0.70	0.90	1.60	2.20	1.70	5.60	0.20	0.0	2.70	1.10	0.60	3.40
9	0.90	0.90	1.60	2.00	5.90	3.40	0.10	0.0	0.90	101.00	0.30	2.80
10	0.90	1.10	1.50	1.90	5.20	2.80	0.10	0.0	0.10	16.00	0.30	2.20
11	0.90	3.30	2.50	2.00	2.60	2.60	0.0	0.0	0.0	4.70	0.20	2.10
12	1.10	3.10	2.50	2.20	1.90	1.90	0.0	0.0	0.0	2.80	0.20	1.90
13	0.90	3.10	2.60	2.60	1.90	1.50	0.0	0.0	0.0	2.00	0.20	1.60
14	0.90	3.10	3.30	2.50	10.00	1.30	19.00	0.0	0.0	1.50	0.30	1.60
15	0.90	3.10	4.00	2.00	24.00	1.30	4.80	41.00	0.0	1.30	35.00	1.70
16	0.90	3.10	2.70	1.90	8.80	6.40	4.30	4.20	0.0	1.10	12.00	1.70
17	1.10	3.00	1.80	1.90	5.40	6.30	1.70	0.50	0.0	1.10	4.70	1.80
18	2.60	2.70	1.70	2.00	4.50	2.00	0.60	0.10	0.0	1.10	2.10	1.90
19	6.80	2.70	6.00	50.00	4.00	1.20	1.60	0.0	0.0	1.20	1.30	2.20
20	3.70	2.60	4.80	12.00	3.10	0.70	0.60	0.0	0.0	1.10	0.80	1.70
21	2.60	2.60	7.20	7.90	2.70	0.40	0.20	0.0	0.0	1.00	0.80	1.90
22	2.20	2.50	6.20	7.40	3.10	0.30	0.0	0.0	0.0	1.00	0.80	2.20
23	1.90	2.50	3.40	6.00	2.60	0.30	0.0	0.0	0.10	0.90	0.80	2.00
24	1.50	2.30	2.60	4.50	1.90	0.20	0.0	0.0	78.00	0.90	0.80	1.90
25	1.30	2.30	2.20	3.80	52.00	0.30	0.0	0.0	11.00	0.80	0.80	1.90
26	1.30	2.10	2.10	3.50	23.00	0.20	0.0	0.0	2.60	0.80	7.90	2.00
27	1.50	2.00	2.70	3.10	8.30	0.10	0.0	0.0	1.00	0.70	33.00	2.50
28	1.50	2.00	2.70	3.00	6.60	0.10	0.0	0.0	0.40	0.70	32.00	3.30
29	1.30	1.70	2.60	2.50	9.40	0.0	0.0	0.0	0.60	0.70	19.00	2.70
30	1.80		2.80	1.90	9.60	0.0	0.0	0.0	1.00	0.70	7.20	2.20
31	2.60		2.80		7.70		0.0	0.0		0.70		1.80
MEAN	1.5740	2.0930	2.7260	4.8500	6.9520	5.9600	2.5000	1.4770	5.4000	4.9290	5.6600	2.4260
INCHES	0.031	0.038	0.053	0.091	0.135	0.122	0.049	0.029	0.101	0.096	0.106	0.047
STA AV	0.043	0.044	0.089	0.350	0.099	0.075	0.022	0.203	0.170	0.026	0.103	0.050

NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.0006260. To convert discharge in inches to AC-FT, multiply by 3,168. Yearly mean discharge, 3.9 CFS. Yearly discharge, 0.886 inches.

1968	SELECTED RONOFF EVENT				CHICKASHA, OKLAHOMA			WATERSHED 511 NEAR TABLER			
	ANTECEDENT CONDITIONS		Date Mo-Day	Date of Day	RAINFALL		Acc. (inches)	RONOFF		Rate (cfs)	Acc. (inches)
Date Mo-Day	Rainfall (inches)	Runoff (inches)			Intensity (in/hr)	Date Mo-Day		Time of Day			
EVENT OF OCTOBER 8 - 9, 1968											
10- 9	RG	089		10- 9	RG	089		10- 8	2400	1.10	0.0
10- 8		0.0	0.001		200	4.2000	0.49	10- 9	154	1.10	0.0001
					208	0.3750	0.54		218	1.70	0.0001
					219	0.7636	0.68		254	4.80	0.0002
					226	0.9429	0.79		342	5.80	0.0003
					230	0.4500	0.82		400	11.30	0.0004
					235	0.8400	0.89		424	20.10	0.0006
					240	0.9600	0.97		454	23.40	0.0009
					251	0.1091	0.99		530	26.10	0.0013
					307	0.1500	1.03		548	34.50	0.0015
					348	0.0732	1.08		618	52.70	0.0021
									648	68.90	0.0029
									718	74.60	0.0038
									748	75.50	0.0048
									830	113.10	0.0065
									848	153.20	0.0075
									912	203.20	0.0094
									942	269.90	0.0125
									1006	331.80	0.0156
									1036	369.50	0.0202
									1100	381.90	0.0241
									1118	369.50	0.0270
									1154	333.70	0.0325
									1206	316.50	0.0342
									1248	246.50	0.0393
									1324	203.20	0.0428
									1430	141.00	0.0477
									1536	104.90	0.0512
									1700	77.10	0.0545
									1854	56.20	0.0578

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608. For 30-day antecedent P and Q, see table on previous page.



429

CHICKASRA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 7 N., R. 9 W., lat. 35 deg. 05 min., long. 98 deg. 11 min., 2-1/2 miles East of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 25020.00 acres 39.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASRA, OKLAHOMA WATERSHED 110 NEAR ANADARKO	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.40	1.26	0.74	2.16	5.19	2.35	3.97	1.58	4.41	2.34	4.90	1.00	32.30	
	0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	P 0.77	0.99	1.13	2.73	3.55	3.05	2.02	2.52	3.87	1.53	2.32	0.83	25.32	
	0 0.0	0.002	0.006	0.022	0.030	0.002	0.0	0.001	0.0	0.0	0.003	0.0	0.067	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0

MAXIMUMS FOR PERIOD OF RECORD																
	5-11	0.004	5-11	0.004	5-11	0.007	5-11	0.021	5-11	0.038	5-11	0.061	5-11	0.087	5-11	0.114
	1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 27%; row crop - 6%; alfalfa - 10%; pasture and range - 33%; and miscellaneous - 24%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. No runoff, so maximum volumes could not be computed. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)													CHICKASRA, OKLAHOMA WATERSHED 110 NEAR ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.01	0.0	0.16	0.0	0.73	1.55	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.16	0.0		
3	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.90	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0		
6	0.02	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.10	0.0	0.08	0.07	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	1.18	0.0	0.0	0.0	0.0	1.41	0.0	0.0		
10	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
11	0.02	0.0	0.11	0.0	0.29	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
12	0.0	0.11	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.07	0.0	0.0	0.44	0.0	0.04	0.41	0.0	0.0	0.0	0.0		
14	0.0	0.19	0.0	0.0	0.0	0.0	1.50	0.02	0.0	0.0	0.11	0.0		
15	0.0	0.0	0.0	0.0	0.92	1.40	0.68	0.74	0.03	0.0	1.35	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0		
18	1.33	0.01	0.06	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39		
19	0.10	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.14	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.16	0.23	0.0	0.13	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.10		
22	0.08	0.23	0.10	0.49	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.59	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.06	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	1.50	0.03		
27	0.01	0.38	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.37	0.48		
28	0.05	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.25	0.0		
29	0.44	0.0	0.0	0.0	0.03	0.0	0.16	0.0	0.0	0.0	0.0	0.0		
30	0.05	0.0	0.0	0.0	0.01	0.15	0.0	0.30	0.0	0.0	0.06	0.0		
31	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	2.40	1.26	0.74	2.16	5.19	2.35	3.97	1.58	4.41	2.34	4.90	1.00		
STA AV	0.77	0.99	1.13	2.73	3.55	3.05	2.02	2.52	3.87	1.53	2.32	0.83		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 32.30 inches. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed.

CHICKASHA, OKLAHOMA WATERSHEO 522 NEAR MINNEKAH

LOCATION: Little Washita River Watershed above U.S. highway 81 bridge South of Chickasha in Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 32, T. 6 N., R. 7 W., lat. 34 deg. 57 min., long. 97 deg. 57 min., 5-1/2 miles South of Chickasha, Okla., at U.S. highway 81 bridge.

AREA: 132990.00 acres 207.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHEO 522 NEAR MINNEKAH																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	2.92	1.74	1.85	2.27	6.38	2.02	3.76	0.81	4.25	2.58	4.41	1.03	34.02																	
	O	0.065	0.088	0.136	0.120	0.217	0.294	0.090	0.012	0.093	0.104	0.089	0.078	1.386																	
STA AV	P	0.95	1.08	1.41	2.84	3.91	2.77	2.11	2.57	3.80	1.83	2.46	0.85	26.58																	
	O	0.071	0.072	0.092	0.147	0.230	0.115	0.037	0.052	0.057	0.041	0.110	0.058	1.083																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge		1 Hour		2 Hours		5 Hours		12 Hours		1 Day		2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1968		5-31	0.039	5-31	0.038	5-31	0.072	5-31	0.149	5-31	0.188	5-31	0.224	5-31	0.242	5-31	0.285														
		5-10	0.056	5-10	0.055	5-10	0.108	5-9	0.253	5-9	0.316	5-9	0.365	5-9	0.476	5-6	0.532														
		1964		1964		1964		1964		1964		1964		1964		1964															
MAXIMUMS FOR PERIOD OF RECORD																															
		5-10	0.056	5-10	0.055	5-10	0.108	5-9	0.253	5-9	0.316	5-9	0.365	5-9	0.476	5-6	0.532														
		1964		1964		1964		1964		1964		1964		1964		1964															

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 12%; row crop - 3%; alfalfa - 3%; pasture and range - 66%; and miscellaneous - 16%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.15-4 and 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 36 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 OAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHEO 522 NEAR MINNEKAH													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.16	0.0	0.23	0.0	0.75	1.68	0.0	0.0	0.0	0.0	0.0															
2	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0															
3	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	1.58	0.0	0.0															
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0															
6	0.03	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
7	0.0	0.0	0.04	0.0	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0															
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.0	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.0														
10	0.0	0.0	0.12	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0														
11	0.03	0.0	0.27	0.0	0.17	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0														
12	0.0	0.09	0.0	0.37	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
13	0.0	0.11	0.0	0.0	0.43	0.0	0.28	0.05	0.0	0.0	0.0	0.0	0.0														
14	0.0	0.19	0.0	0.0	0.0	0.0	0.90	0.03	0.0	0.0	0.04	0.0	0.0														
15	0.0	0.0	0.0	0.0	0.08	0.95	0.21	0.31	0.05	0.0	1.09	0.0	0.0														
16	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.13	0.0	0.0	0.0														
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0														
18	1.52	0.07	0.28	0.77	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.10														
19	0.08	0.0	0.57	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
20	0.14	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
21	0.18	0.27	0.0	0.10	0.60	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.22														
22	0.04	0.24	0.09	0.47	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0														
23	0.0	0.03	0.0	0.0	0.0	0.02	0.0	0.0	0.65	0.0	0.0	0.0	0.0														
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.65	0.0	0.0	0.0	0.0														
25	0.0	0.0	0.0	0.0	0.67	0.06	0.0	0.06	0.0	0.0	0.0	0.0	0.0														
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.56	0.0	0.0														
27	0.41	0.58	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.49	0.71	0.0														
28	0.02	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.25	0.0	0.0														
29	0.18	0.0	0.0	0.0	0.11	0.0	0.10	0.03	0.0	0.0	0.0	0.0	0.0														
30	0.21	0.0	0.0	0.0	0.32	0.04	0.0	0.22	0.0	0.0	0.10	0.0	0.0														
31	0.08	0.0	0.0	0.0	1.91	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL	2.92	1.74	1.85	2.27	6.38	2.02	3.76	0.81	4.25	2.58	4.41	1.03	34.02														
STA AV	0.95	1.08	1.41	2.84	3.91	2.77	2.11	2.57	3.80	1.83	2.46	0.85	26.58														

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 34.02 inches. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	9.50	23.00	15.00	19.00	10.00	766.00	78.00	8.90	2.80	4.80	7.80	15.00
2	7.80	17.00	13.00	22.00	8.90	86.00	51.00	9.50	1.90	4.80	10.00	13.00
3	7.80	11.00	12.00	23.00	10.00	45.00	11.00	7.80	1.30	3.40	32.00	11.00
4	8.30	10.00	13.00	17.00	10.00	42.00	8.90	6.20	267.00	3.40	14.00	11.00
5	8.90	11.00	16.00	15.00	8.90	39.00	10.00	5.30	45.00	7.80	7.30	11.00
6	6.70	11.00	16.00	13.00	8.30	39.00	10.00	3.20	12.00	11.00	5.20	10.00
7	4.40	11.00	15.00	13.00	10.00	40.00	11.00	2.50	6.70	6.40	5.20	10.00
8	4.40	11.00	14.00	14.00	13.00	19.00	11.00	1.60	5.70	6.00	6.40	10.00
9	4.40	12.00	13.00	13.00	130.00	17.00	12.00	1.10	4.80	324.00	7.30	11.00
10	4.80	13.00	15.00	13.00	48.00	15.00	15.00	0.50	4.00	33.00	8.20	11.00
11	5.30	13.00	21.00	11.00	13.00	15.00	13.00	0.50	4.40	16.00	8.20	11.00
12	5.30	12.00	26.00	15.00	12.00	13.00	12.00	1.60	4.00	11.00	7.30	11.00
13	5.70	13.00	29.00	20.00	19.00	11.00	11.00	2.20	3.60	9.70	7.80	11.00
14	6.20	18.00	25.00	15.00	26.00	11.00	21.00	2.50	2.80	8.20	8.20	11.00
15	6.70	17.00	21.00	13.00	14.00	18.00	57.00	3.20	2.80	7.30	54.00	12.00
16	7.20	17.00	18.00	13.00	16.00	196.00	16.00	2.50	4.40	6.90	29.00	13.00
17	7.80	16.00	15.00	13.00	13.00	30.00	11.00	0.70	5.30	6.40	15.00	14.00
18	23.00	12.00	15.00	18.00	13.00	23.00	8.30	0.40	3.60	6.00	11.00	16.00
19	36.00	12.00	162.00	154.00	11.00	21.00	11.00	0.30	2.80	6.00	11.00	15.00
20	17.00	13.00	23.00	38.00	12.00	21.00	11.00	0.20	1.90	6.00	11.00	14.00
21	14.00	16.00	39.00	26.00	17.00	19.00	7.80	0.20	1.10	6.40	11.00	14.00
22	17.00	16.00	38.00	42.00	24.00	20.00	5.70	0.10	1.10	24.00	11.00	17.00
23	15.00	19.00	31.00	30.00	19.00	18.00	6.20	0.10	7.60	12.00	11.00	15.00
24	12.00	19.00	25.00	18.00	19.00	17.00	6.20	0.10	50.00	6.90	12.00	13.00
25	11.00	26.00	22.00	16.00	88.00	18.00	6.20	0.10	48.00	5.20	11.00	16.00
26	8.90	19.00	22.00	15.00	25.00	19.00	5.70	0.10	8.90	5.60	28.00	15.00
27	21.00	19.00	20.00	14.00	19.00	16.00	5.70	0.20	5.30	5.60	54.00	22.00
28	17.00	59.00	18.00	13.00	18.00	16.00	22.00	0.10	5.30	5.60	41.00	29.00
29	11.00	24.00	18.00	13.00	17.00	16.00	30.00	0.10	5.30	6.00	32.00	20.00
30	25.00	15.00	15.00	12.00	23.00	16.00	11.00	0.90	2.50	8.20	18.00	18.00
31	23.00	16.00	16.00	538.00	9.50	2.80	8.20	8.20	8.20	14.00	14.00	14.00
MEAN	11.681	16.897	24.548	22.367	39.132	54.733	16.297	2.113	17.397	18.768	16.497	14.000
INCHES	0.065	0.088	0.136	0.120	0.217	0.294	0.104	0.012	0.093	0.104	0.089	0.078
STA AV	0.071	0.072	0.092	0.147	0.230	0.115	0.037	0.052	0.057	0.041	0.110	0.058

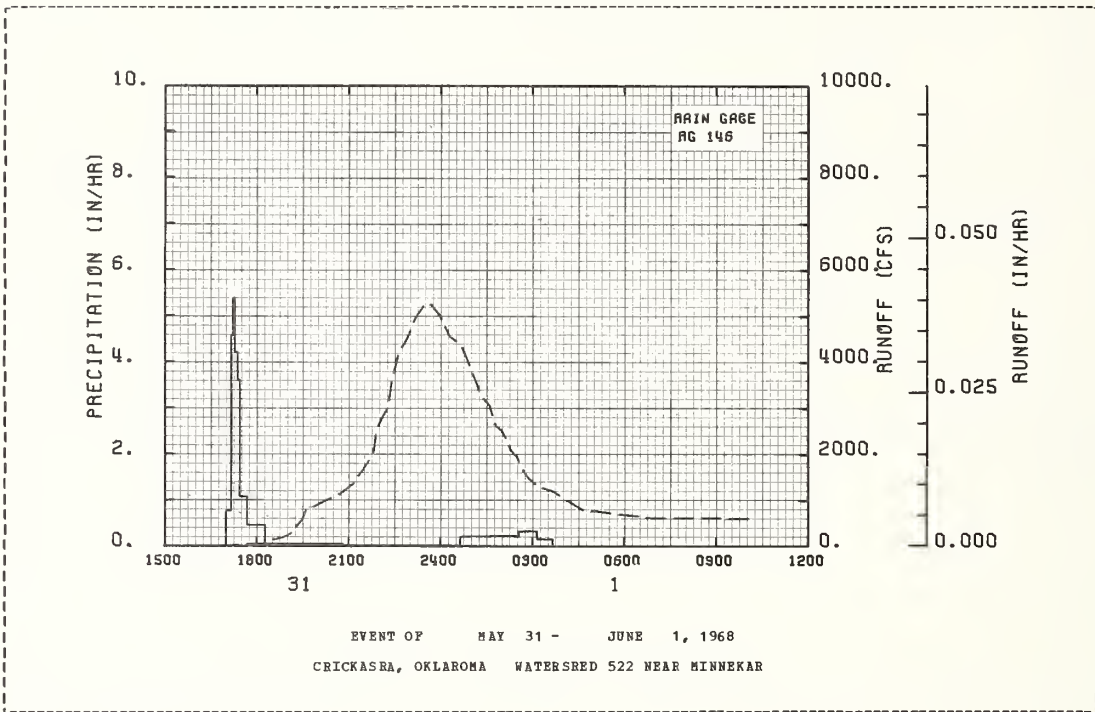
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,082. Yearly mean discharge, 21.2 CFS. Yearly discharge, 1.385 inches.

1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH												
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
			EVENT OF MAY 31 - JUNE 1, 1968									
5-31	RG 146 0.0	0.003	5-31	RG 146 1700	0.0	0.0	5-31	1706	17.80	0.0		
				1710	0.7800	0.13		1742	48.60	0.0001		
				1713	4.5997	0.36		1800	36.30	0.0002		
				1717	5.4001	0.72		1818	70.70	0.0003		
				1722	4.2003	1.07		1830	132.60	0.0005		
WATERSHED CONDITIONS: From a 1967 survey; sowed crop - 12%; row crop - 3%; alfalfa - 3%; pasture and range - 66%; and miscel- laneous - 16%.				1727	3.5996	1.37		1854	208.40	0.0010		
				1741	1.0715	1.62		1912	322.40	0.0016		
				1816	0.4457	1.88		1918	431.80	0.0019		
				2049	0.0353	1.97		1930	595.70	0.0027		
			6- 1	39	0.0615	2.01		1936	776.60	0.0032		
				135	0.2250	2.22		2012	987.50	0.0071		
				233	0.2276	2.44		2042	1139.70	0.0111		
				309	0.3333	2.64		2112	1392.20	0.0158		
				340	0.1548	2.72		2136	1822.00	0.0206		
								2148	2018.00	0.0235		
								2154	2534.60	0.0252		
								2206	2815.10	0.0292		
								2218	3067.40	0.0336		
								2224	3619.20	0.0361		
								2230	3846.60	0.0389		
								2236	4159.09	0.0419		
								2254	4519.29	0.0516		
								2312	5001.49	0.0623		
								2330	5278.69	0.0738		
								2342	5226.89	0.0816		
								2400	4967.19	0.0930		
							6- 1	18	4540.99	0.1036		
								42	4335.99	0.1168		
								100	3823.60	0.1259		
								112	3485.40	0.1313		
								118	3286.40	0.1338		
								136	3042.30	0.1409		
								148	2608.30	0.1451		
								200	2496.90	0.1489		
								212	2258.00	0.1524		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007458. For 30-day antecedent P and Q, see table on previous page.

1968 SELECTED RUNOFF EVENT			CRICKASRA, OKLAHOMA WATERSHED 522 NEAR MINNEKAR							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31 - JUNE 1, 1968 (CONTINUED)										
							6- 1	218	2073.60	0.1540
								230	1917.40	0.1570
								242	1633.00	0.1596
								254	1448.30	0.1619
								312	1280.00	0.1650
								342	1174.30	0.1696
								436	789.30	0.1762
								654	597.00	0.1881
								906	595.70	0.1979
								1012	591.90	0.2028

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007458. For 30-day antecedent P and Q, see table on previous page.



CRICKASHA, OKLAHOMA WATERSHEO 512 AT TABLER

LOCATION: East Bitter Creek Watershed above U.S. Highway 62 bridge at Tabler, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 27, T. 7 N., R. 6 W., lat. 35 deg. 05 min., long. 97 deg. 50 min., at Tabler, Okla., at U.S. highway 62 bridge.

AREA: 22530.00 acres 35.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHEO 512 AT TABLER															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.52	1.22	2.01	2.21	4.67	2.41	4.29	1.28	3.31	2.33	4.47	1.14	31.96	P	2.52	1.22	2.01	2.21	4.67	2.41	4.29	1.28	3.31	2.33	4.47	1.14	31.96	
	O	0.078	0.061	0.172	0.118	0.199	0.180	0.204	0.011	0.101	0.085	0.137	0.080	1.426	O	0.078	0.061	0.172	0.118	0.199	0.180	0.204	0.011	0.101	0.085	0.137	0.080	1.426	
STA AV	P	0.98	1.13	1.63	3.14	3.34	3.28	2.17	3.67	3.78	1.61	2.50	0.96	28.19	P	0.98	1.13	1.63	3.14	3.34	3.28	2.17	3.67	3.78	1.61	2.50	0.96	28.19	
	O	0.096	0.095	0.146	0.367	0.229	0.095	0.060	0.246	0.147	0.057	0.186	0.081	1.804	O	0.096	0.095	0.146	0.367	0.229	0.095	0.060	0.246	0.147	0.057	0.186	0.081	1.804	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	7- 1	0.024	7- 1	0.022	7- 1	0.039	7- 1	0.078	7- 1	0.107	7- 1	0.118	7- 1	0.124	5-25	0.141
MAXIMUMS FOR PERIOD OF RECORD																
	8- 8	0.134	8- 8	0.129	8- 8	0.244	8- 7	0.472	8- 7	0.523	8- 7	0.543	4-12	0.610	4- 9	0.742
	1965		1965		1965		1965		1965		1965		1967		1967	

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 4%; pasture and range - 84%; and miscellaneous - 6%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, OSOA Misc. Pub. 1164, p. 69.16-4 and 1965, USDA Misc. Pub. 1216, p. 69.16-8. Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began July 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHEO 512 AT TABLER													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	0.0	0.12	0.0	0.17	0.0	0.90	2.22	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.12	0.0	0.17	0.0	0.90	2.22	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0		
6	0.03	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.03	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.09	0.0	0.08	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.09	0.0	0.08	0.45	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.04	0.0	0.25	0.0	0.06	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	11	0.04	0.0	0.25	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.09	0.0	0.36	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.09	0.0	0.36	0.12	0.0	0.0	0.0	0.0	0.0	0.05		
13	0.0	0.06	0.0	0.0	0.38	0.0	0.93	0.17	0.0	0.0	0.0	0.0	0.0	13	0.0	0.06	0.0	0.0	0.38	0.0	0.93	0.17	0.0	0.0	0.0		
14	0.0	0.17	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.17	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.13	0.16	0.05	0.86	0.04	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.13	0.16	0.05	0.86	0.04	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.15	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.15	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0		
18	1.58	0.0	0.17	0.69	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	18	1.58	0.0	0.17	0.69	0.0	0.0	0.51	0.0	0.0	0.0	0.25		
19	0.10	0.0	0.81	0.23	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	19	0.10	0.0	0.81	0.23	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
20	0.04	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.04	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.17	0.26	0.0	0.22	0.43	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	21	0.17	0.26	0.0	0.22	0.43	0.0	0.0	0.0	0.0	0.04	0.0		
22	0.06	0.13	0.05	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.06	0.13	0.05	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	23	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0		
25	0.0	0.0	0.0	0.01	1.22	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.01	1.22	0.06	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.39	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.39	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0		
29	0.09	0.0	0.0	0.0	0.09	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	29	0.09	0.0	0.0	0.0	0.09	0.0	0.01	0.0	0.0	0.0	0.0		
30	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	30	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.65	0.0	0.06	0.02	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.65	0.0	0.06	0.02	0.0	0.0	0.0		
TOTAL	2.62	1.22	2.01	2.21	4.67	2.41	4.29	1.28	3.31	2.33	4.47	1.14	31.96	TOTAL	2.62	1.22	2.01	2.21	4.67	2.41	4.29	1.28	3.31	2.33	4.47	1.14	31.96
STA AV	0.98	1.13	1.63	3.14	3.34	3.28	2.17	3.67	3.78	1.61	2.50	0.96	28.19	STA AV	0.98	1.13	1.63	3.14	3.34	3.28	2.17	3.67	3.78	1.61	2.50	0.96	28.19

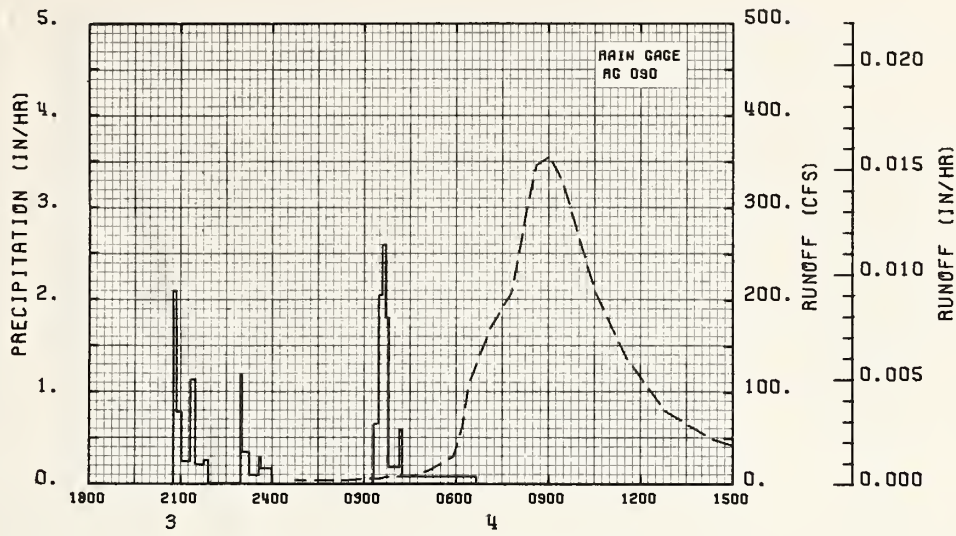
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 31.96 inches. Precipitation values are a Thiessen weighted average of 31 rain gages on the watershed.

1968		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.600	2.400	1.900	2.900	2.300	40.000	88.000	0.500	0.200	0.300	0.800	3.500
2	1.600	2.000	1.800	4.300	2.400	17.000	27.000	0.400	0.100	0.300	1.300	3.000
3	1.500	1.800	1.600	4.300	2.400	6.400	4.000	0.400	0.100	0.200	2.700	2.500
4	1.400	1.800	1.700	3.400	2.300	4.900	2.500	0.300	71.000	0.200	1.500	2.300
5	1.400	1.800	1.900	2.700	2.200	9.200	2.100	0.300	3.400	8.200	1.300	2.300
6	1.300	1.700	1.900	2.700	1.600	7.600	2.000	0.200	1.200	2.400	1.200	2.200
7	1.200	1.700	1.700	2.800	7.600	25.000	1.800	0.200	0.800	0.900	1.100	2.100
8	1.200	1.700	1.600	2.700	4.700	6.400	1.700	0.200	0.600	0.700	1.100	2.000
9	1.200	1.700	1.800	2.500	9.900	4.300	1.500	0.200	0.500	43.000	1.300	2.000
10	1.200	1.700	2.000	2.400	6.700	3.400	1.200	0.200	0.400	3.300	1.300	2.000
11	1.200	1.600	2.500	2.400	4.400	3.300	1.200	0.200	0.400	1.600	1.300	2.100
12	1.600	1.600	4.000	2.900	3.900	3.000	1.000	0.200	0.300	1.400	1.300	2.300
13	1.700	1.900	3.800	4.400	7.900	2.400	22.000	0.200	0.300	1.300	1.200	1.900
14	1.700	2.200	5.300	2.900	6.200	2.200	11.000	0.200	0.300	1.000	1.300	1.800
15	1.700	2.400	2.400	2.400	4.000	2.000	4.500	3.900	0.300	0.900	32.000	1.800
16	1.600	2.300	2.100	2.400	3.000	11.000	2.000	1.000	0.400	0.900	5.700	2.000
17	1.700	2.000	2.000	2.900	2.600	3.300	1.400	0.400	0.400	1.000	2.900	2.500
18	7.400	1.900	2.100	3.000	2.300	2.500	5.800	0.200	0.300	1.000	1.800	2.900
19	8.800	1.900	52.000	11.000	2.100	2.000	2.900	0.100	0.300	1.000	1.900	2.900
20	3.600	1.900	12.000	7.100	2.000	1.900	2.000	0.100	0.200	1.000	2.000	2.400
21	3.000	1.900	13.000	4.900	3.100	1.600	1.300	0.100	0.300	1.000	2.000	2.500
22	2.900	1.900	8.700	9.400	4.000	1.400	1.100	0.100	0.300	1.100	1.800	2.800
23	2.400	2.000	5.700	4.400	3.000	1.300	0.900	0.100	0.300	1.000	1.800	2.100
24	2.000	2.000	4.600	3.300	2.500	1.500	0.800	0.100	0.900	1.000	1.600	2.100
25	2.000	2.400	4.300	3.100	51.000	1.800	0.700	0.100	1.300	0.900	1.400	2.100
26	2.000	2.100	3.900	3.100	12.000	1.800	0.600	0.100	0.700	0.900	11.000	2.500
27	3.500	1.900	3.500	3.100	5.200	1.400	0.500	0.100	0.500	0.900	18.000	3.500
28	3.600	3.100	3.300	3.100	4.000	1.000	0.400	0.100	0.500	0.900	16.000	3.900
29	2.200	2.100	3.300	2.700	3.200	0.600	0.600	0.100	0.300	0.800	7.200	2.900
30	3.600	3.100	2.600	5.100	0.500	0.500	0.500	0.100	0.300	0.800	3.900	2.700
31	2.200	3.100	15.000	0.400	0.200	0.800	0.800	0.200	0.800	0.800	2.400	2.400
MEAN	2.3870	1.9790	5.2450	3.7270	6.0840	5.6900	6.2390	0.3420	3.1970	2.6030	4.3230	2.4520
INCRS	0.078	0.061	0.172	0.118	0.199	0.180	0.204	0.011	0.101	0.085	0.137	0.080
STA AV	0.096	0.095	0.146	0.367	0.229	0.095	0.060	0.246	0.147	0.057	0.186	0.081

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1,877. Yearly mean discharge, 3.7 CFS. Yearly discharge, 1.426 inches.

1968		SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 3 - 4, 1968												
9- 3	RG 090		9- 3	RG 090			9- 4					
9- 3	0.0		2045		0.0	0.0	48		4.30	0.0		
9- 4		0.000	2051		2.1002	0.21	212		3.80	0.0003		
			2101		0.7800	0.34	248		6.00	0.0004		
			2118		0.2471	0.41	330		6.70	0.0006		
			2128		1.1400	0.60	342		8.30	0.0007		
WATERSHED CONDITIONS:			2145		0.2118	0.66	430		8.30	0.0010		
From a 1967 survey; sowed			2154		0.2667	0.70	506		15.60	0.0013		
crop - 5%; row crop - 1%;			2257		0.0095	0.71	554		30.70	0.0021		
alfalfa - 4%; pasture and			2300		1.1999	0.77	612		63.40	0.0027		
range - 84%; and miscel-			2314		0.3429	0.85	624		109.00	0.0035		
laneous - 6%.			2333		0.0947	0.88	706		169.70	0.0078		
			2337		0.3000	0.90	748		209.00	0.0136		
			2358		0.1714	0.96	818		299.80	0.0192		
			318	9- 4	0.0	0.96	836		346.40	0.0235		
			328		0.6600	1.07	900		355.40	0.0297		
			335		2.0571	1.31	924		331.10	0.0357		
			341		2.6000	1.57	942		299.80	0.0399		
			348		1.8000	1.78	1030		209.00	0.0489		
			408		0.1800	1.84	1130		137.90	0.0565		
			414		0.6000	1.90	1248		78.90	0.0627		
			535		0.0815	2.01	1418		48.70	0.0669		
			639		0.0844	2.10	1618		27.00	0.0702		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004402. For 30-day antecedent P and Q, see table on previous page.



EVENT OF SEPTEMBER 3 - 4, 1968
CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER

CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER

LOCATION: Winter Creek Watershed above county farm to market road bridge North of Alex in Grady County, Okla., tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 6 N., R. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., about 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 3.15	1.28	1.93	2.44	6.36	2.06	4.47	1.36	3.67	2.08	4.22	0.94	33.96	
	O 0.119	0.079	0.133	0.191	0.495	0.393	0.450	0.025	0.087	0.117	0.199	0.187	2.475	
STA AV	P 1.17	1.13	1.48	3.10	3.98	3.05	2.10	3.15	3.97	1.56	2.44	0.92	28.06	
	O 0.124	0.121	0.139	0.277	0.430	0.146	0.112	0.154	0.189	0.072	0.211	0.107	2.082	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		8 Days		
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
7-1	0.075	7-1	0.071	7-1	0.128	7-1	0.215	7-1	0.241	7-1	0.260	7-1	0.291
													0.363

MAXIMUMS FOR PERIOD OF RECORD													
1964	0.207	1964	0.179	5-10	0.269	1964	0.337	5-10	0.350	1964	0.618	5-9	0.672
				1964				1964				1964	
													0.790

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 2%; pasture and range - 82%; and miscellaneous - 10%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.17-4 and 1965, USDA Misc. Pub. 1216, p. 69.17-8. Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.16	0.0	0.19	0.0	0.73	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0
3	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.0	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.08	0.0	0.12	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.0	0.0
10	0.0	0.0	0.07	0.0	0.17	0.0	0.0	0.07	0.0	0.0	0.14	0.0	0.0	0.0
11	0.03	0.0	0.19	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.08	0.0	0.20	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.07	0.0	0.0	0.47	0.0	0.62	0.57	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.15	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.09	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.06	0.13	0.0	0.47	0.04	0.0	1.18	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0
18	1.50	0.0	0.33	0.76	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.12	0.0	0.0
19	0.09	0.0	0.70	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.04	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.20	0.27	0.0	0.28	0.38	0.0	0.0	0.0	0.0	0.02	0.0	0.29	0.0	0.0
22	0.03	0.13	0.03	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	1.22	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.01	1.48	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.34	0.0	0.0	0.0
27	0.92	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.53	0.0	0.0
28	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.24	0.0	0.0	0.0
29	0.12	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.09	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	1.06	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.15	1.28	1.93	2.44	6.36	2.06	4.47	1.36	3.67	2.08	4.22	0.94		
STA AV	1.17	1.13	1.48	3.10	3.98	3.05	2.10	3.15	3.97	1.56	2.44	0.92		

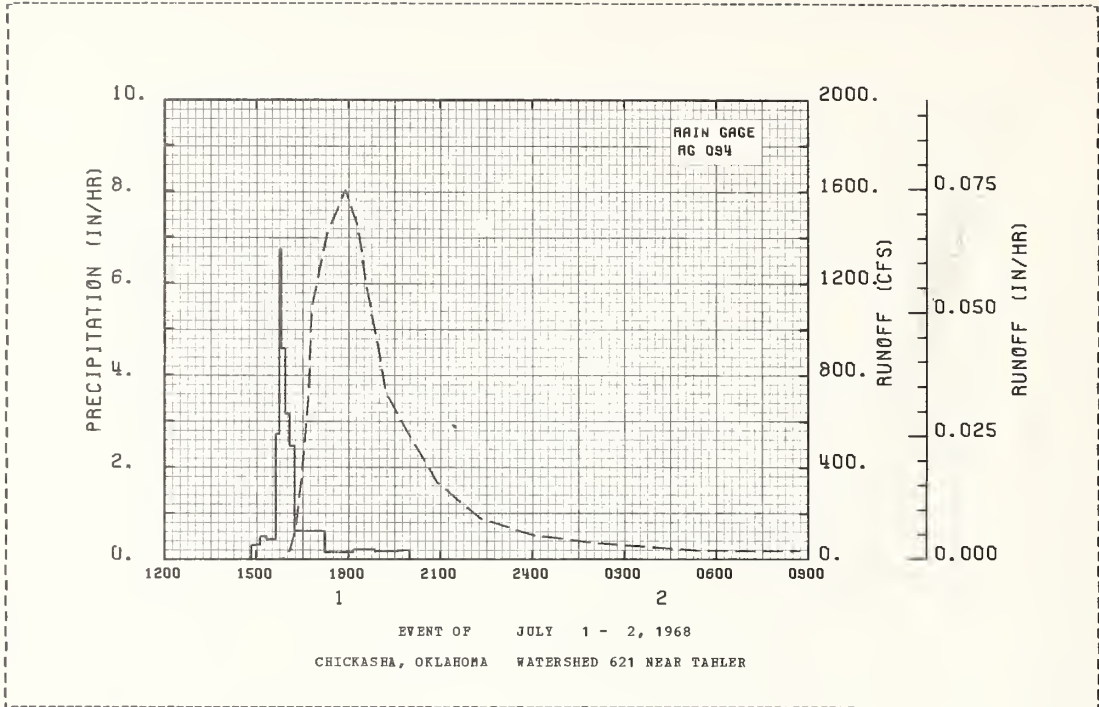
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 33.96 inches. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed.

1968		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 621 NEAR TABLER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.30	4.90	2.20	4.60	3.60	56.00	205.00	1.70	0.60	1.40	1.70	9.20	
2	1.70	2.60	2.00	5.10	3.40	23.00	40.00	1.10	0.50	1.20	5.70	7.90	
3	1.20	2.20	1.70	5.60	3.40	16.00	25.00	0.70	1.00	0.80	4.90	7.40	
4	1.80	2.20	1.80	4.60	3.30	15.00	19.00	0.80	17.00	1.00	3.10	7.30	
5	1.80	2.30	2.00	4.40	3.30	21.00	15.00	0.70	2.20	3.60	2.60	6.70	
6	1.30	2.20	2.00	4.20	23.00	17.00	10.00	0.60	1.70	2.00	2.40	5.60	
7	0.40	1.90	2.30	4.40	63.00	21.00	7.60	0.60	1.30	1.50	2.40	5.90	
8	0.70	2.20	2.20	4.40	13.00	19.00	7.00	0.80	1.30	1.60	2.20	5.40	
9	0.80	2.20	1.80	4.40	20.00	16.00	5.90	0.60	0.90	37.00	2.20	5.20	
10	1.80	2.20	1.90	4.60	14.00	15.00	4.60	0.80	1.00	7.30	2.60	5.20	
11	2.90	1.90	2.00	4.40	8.60	14.00	2.90	0.80	0.90	5.60	3.10	4.90	
12	1.70	2.20	6.30	5.10	8.10	13.00	2.40	0.80	0.80	5.20	2.00	4.70	
13	1.40	1.70	3.40	5.10	15.00	11.00	8.40	3.40	0.80	3.90	2.00	4.30	
14	1.00	1.70	3.10	4.40	9.50	11.00	7.40	1.30	0.80	3.00	2.20	4.30	
15	0.90	2.90	2.40	4.40	8.10	11.00	6.10	2.30	1.30	2.20	22.00	4.50	
16	1.80	2.40	2.20	4.60	7.60	12.00	4.20	0.40	1.40	2.50	8.10	4.10	
17	1.80	2.30	2.00	4.90	6.40	9.50	3.40	0.20	1.40	1.80	6.40	4.30	
18	9.10	2.20	3.20	6.20	6.10	8.40	4.90	0.20	1.40	1.50	4.70	5.20	
19	5.50	2.30	13.00	16.00	5.60	8.40	4.20	0.30	1.40	1.50	3.70	4.50	
20	3.10	2.30	13.00	6.70	5.60	8.10	2.90	0.60	1.20	1.60	3.90	4.30	
21	3.10	1.90	7.90	9.60	7.80	3.10	2.90	0.20	0.80	1.80	3.90	5.40	
22	3.10	1.70	6.10	17.00	7.20	2.30	2.60	0.20	0.80	1.80	3.50	5.60	
23	2.20	1.70	4.20	6.10	5.90	2.30	1.90	0.10	8.60	1.60	3.70	4.30	
24	1.90	4.60	3.60	5.30	6.40	2.60	1.60	0.10	13.00	1.50	3.50	4.30	
25	1.90	2.90	3.40	4.90	77.00	4.60	1.30	0.30	5.10	1.60	3.10	4.30	
26	1.90	2.30	3.10	4.40	23.00	3.60	1.30	0.20	3.40	1.70	20.00	4.30	
27	24.00	2.40	3.10	4.20	15.00	2.80	0.90	0.20	2.80	1.50	16.00	7.60	
28	7.20	4.20	3.80	4.00	10.00	2.00	1.10	0.20	1.90	1.70	16.00	7.00	
29	5.30	1.90	4.00	4.00	8.70	1.90	1.30	0.50	1.60	1.70	11.00	5.60	
30	9.00		4.40	3.80	8.40	1.40	0.90	0.90	1.30	1.70	9.50	4.70	
31	3.80		4.90		43.00		1.30	0.80		1.70		3.10	
MEAN	3.429	2.428	3.839	5.713	14.290	11.733	13.000	0.723	2.607	3.371	5.937	5.390	
INCHES	0.119	0.079	0.133	0.191	0.495	0.393	0.450	0.025	0.117	0.199	0.187	0.187	
STA AV	0.124	0.121	0.139	0.277	0.430	0.146	0.112	0.154	0.189	0.072	0.211	0.107	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1,776. Yearly mean discharge, 6.0 CFS. Yearly discharge, 2.475 inches.

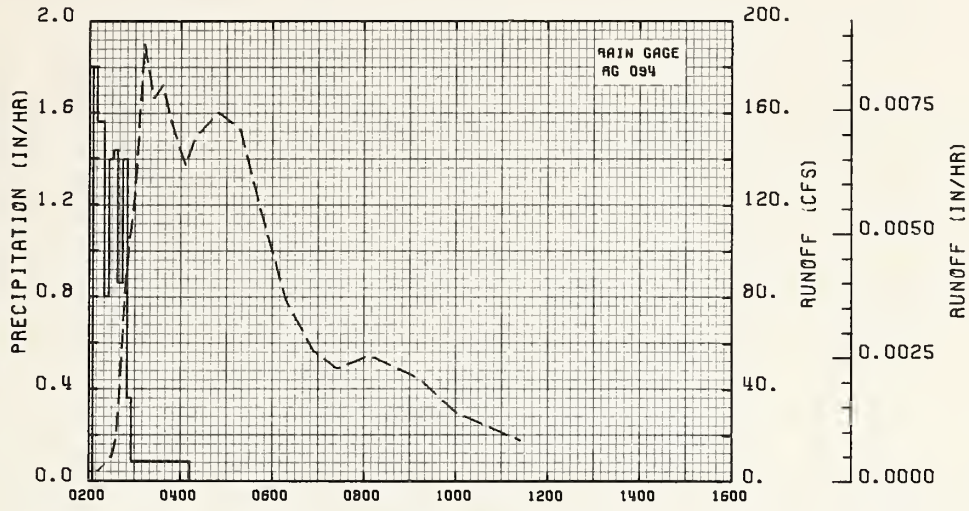
1968		SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 621 NEAR TABLER			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 1 - 2, 1968											
7- 1	RG 094 0.0	0.001	7- 1	RG 094 1450	0.0	0.0	7- 1	1536	2.00	0.0	
				1507	0.3176	0.09		1554	5.40	0.0001	
				1520	0.5077	0.20		1606	39.30	0.0003	
				1538	0.4333	0.33		1618	155.30	0.0012	
				1545	2.7429	0.65		1630	391.30	0.0038	
WATERSHED CONDITIONS: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 2%; pasture and range - 82%; and miscel- laneous - 10%.				1549	6.7500	1.10		1642	704.70	0.0089	
				1557	4.5750	1.71		1648	1088.90	0.0130	
				1605	3.1501	2.13		1718	1412.10	0.0421	
				1615	2.4599	2.54		1754	1605.50	0.0843	
				1713	0.6103	3.13		1818	1447.60	0.1126	
				1810	0.1474	3.27		1836	1179.90	0.1310	
				1851	0.2341	3.43		1900	895.40	0.1504	
				1936	0.1733	3.56		1912	743.70	0.1580	
				2000	0.2000	3.64		1918	704.70	0.1613	
								1948	581.30	0.1763	
								2054	332.20	0.1997	
								2218	176.60	0.2163	
								2400	103.20	0.2274	
								7- 2	212	67.10	0.2361
								424	45.80	0.2419	
								524	35.90	0.2438	
								842	33.40	0.2491	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654. For 30-day antecedent P and Q, see table on previous page.



ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 9, 1968										
10-9	RG 094 0.0	0.000	10-9	RG 094 205	0.0	0.0	10-9	212	4.70	0.0
				210	1.8000	0.15		230	11.10	0.0001
				220	1.5600	0.41		236	19.50	0.0002
				226	0.8000	0.49		242	51.30	0.0004
				232	1.4000	0.63		248	89.00	0.0007
				237	1.4400	0.75		300	125.50	0.0017
				244	0.8571	0.85		312	189.70	0.0032
				250	1.4000	0.99		324	166.10	0.0048
				255	0.3600	1.02		336	172.30	0.0064
				412	0.0857	1.13		348	155.30	0.0079
								406	136.90	0.0099
								418	149.00	0.0112
								448	160.00	0.0148
								518	152.10	0.0184
								548	113.40	0.0215
								618	78.10	0.0237
								654	56.30	0.0256
								724	48.90	0.0268
								806	54.60	0.0285
								912	44.30	0.0310
								1000	29.80	0.0324
								1124	17.70	0.0339

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654. For 30-day antecedent P and Q, see table on previous page.



EVENT OF OCTOBER 9, 1968

CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER

CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT

LOCATION: Sugar Creek Watershed above Gracemont in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 9, T. 8 N., R. 10 W., lat. 35 deg. 11 min., long. 98 deg. 16 min., West side of Gracemont, Okla., on downstream side of county road bridge.

AREA: 131780.00 acres 205.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA		WATERSHED 121 AT GRACEMONT	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P 2.00	1.00	1.11	3.26	5.69	3.19	3.80	4.07	4.10	1.75	5.00	1.53	36.50			
	O 0.048	0.095	0.063	0.113	0.159	0.266	0.078	0.065	0.133	0.039	0.176	0.133	1.368			
STA AV	P 0.66	0.87	1.18	2.69	3.30	4.03	1.81	2.83	5.62	1.51	1.96	1.10	27.57			
	O 0.042	0.423	0.061	0.127	0.126	0.098	0.016	0.032	0.302	0.035	0.045	0.056	1.364			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	6-15	0.018	6-15	0.017	6-15	0.032	6-15	0.060	6-15	0.079	6-15	0.102	6-15	0.117	6-11	0.148
	9-21	0.064	9-21	0.062	9-21	0.122	9-21	0.318	9-21	0.497	9-21	0.653	9-21	0.815	9-21	1.238
	1965		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 9%; row crop - 13%; alfalfa - 3%; pasture and range - 53%; and miscellaneous - 22%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, OSA Misc. Pub. 1164, p. 69.18-4 and 1965, OSA Misc. Pub. 1216, p. 69.7-21. The stream gaging station was maintained from Oct. 1955 to Oct. 1963 by the U.S. Geological Survey. Precipitation data obtained from a Thiessen weighted average of 32 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA		WATERSHED 121 AT GRACEMONT	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.05	0.0	0.62	1.51	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	1.75	0.01				
3	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	2.17	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.01	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.54	0.0	0.0				
6	0.02	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.20	0.0	0.37	0.04	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.01	0.48	0.0	0.0	0.0	0.0	0.97	0.0	0.0				
10	0.0	0.0	0.12	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.16	0.0				
11	0.02	0.0	0.14	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.22	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0				
13	0.0	0.04	0.0	0.0	0.90	0.0	0.04	0.74	0.0	0.0	0.0	0.0				
14	0.0	0.13	0.0	0.0	0.01	0.0	0.98	0.39	0.0	0.0	0.56	0.0				
15	0.0	0.0	0.0	0.0	0.05	1.56	0.93	2.25	0.02	0.0	0.65	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.02	0.0	0.20	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.0	0.0	0.0				
18	0.89	0.01	0.26	1.36	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.70				
19	0.11	0.0	0.05	0.10	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0				
20	0.06	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.10	0.23	0.0	0.18	0.48	0.0	0.0	0.0	0.08	0.02	0.0	0.27				
22	0.12	0.20	0.09	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.03	0.0	0.0	0.02	0.0	0.0	0.0	0.82	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.06	0.30	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.92	0.10	0.0	0.13	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24	0.18				
27	0.02	0.14	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.35	0.37				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.20	0.0				
29	0.23	0.0	0.0	0.0	0.36	0.0	0.02	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.0	0.01	0.06	0.0	0.28	0.0	0.0	0.09	0.0				
31	0.43	0.0	0.0	0.0	1.04	0.0	0.0	0.01	0.0	0.0	0.0	0.0				
TOTAL	2.00	1.00	1.11	3.26	5.69	3.19	3.80	4.07	4.10	1.75	5.00	1.53				
STA AV	0.66	0.87	1.18	2.69	3.30	4.03	1.81	2.83	5.62	1.51	1.96	1.10				

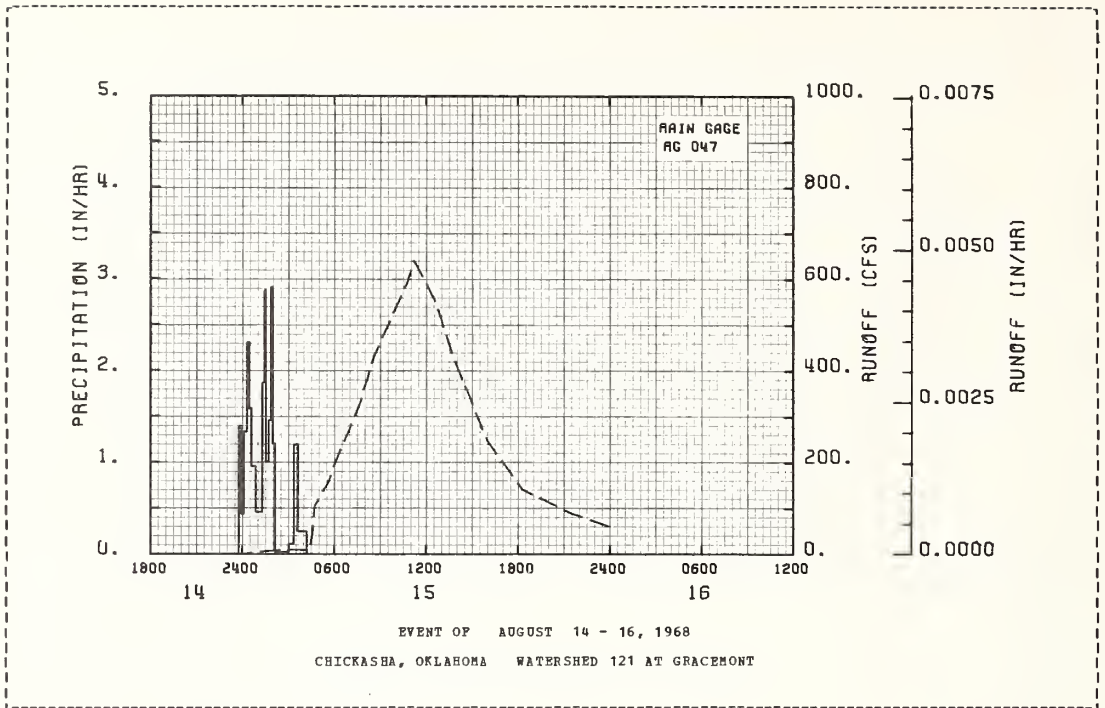
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 36.50 inches. Precipitation values are a Thiessen weighted average of 32 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	11.00	44.00	11.00	10.00	6.50	162.00	8.80	0.20	4.50	4.70	7.20	39.00
2	6.40	74.00	8.90	11.00	3.60	93.00	74.00	0.30	1.80	2.40	36.00	35.00
3	3.40	55.00	7.80	76.00	2.80	64.00	47.00	0.20	7.60	1.80	36.00	35.00
4	5.50	38.00	7.30	48.00	2.40	41.00	39.00	1.30	291.00	2.40	25.00	34.00
5	5.50	28.00	7.30	36.00	2.10	34.00	18.00	1.30	69.00	4.70	23.00	30.00
6	3.80	18.00	7.30	26.00	1.80	30.00	13.00	1.30	56.00	5.10	21.00	30.00
7	2.70	14.00	8.30	21.00	28.00	29.00	15.00	1.00	36.00	4.20	19.00	28.00
8	2.70	12.00	10.00	12.00	28.00	23.00	14.00	0.60	29.00	3.80	19.00	26.00
9	2.70	11.00	9.40	12.00	20.00	18.00	10.00	0.80	24.00	23.00	22.00	23.00
10	3.40	11.00	10.00	8.80	24.00	25.00	7.60	0.60	20.00	11.00	34.00	19.00
11	4.20	9.40	13.00	8.20	23.00	47.00	6.50	0.80	18.00	9.00	33.00	18.00
12	5.00	8.30	16.00	8.80	23.00	27.00	4.50	1.30	14.00	11.00	33.00	14.00
13	5.50	11.00	17.00	10.00	82.00	20.00	3.20	1.80	13.00	9.70	32.00	13.00
14	5.90	12.00	15.00	8.80	102.00	16.00	3.60	1.50	13.00	10.00	33.00	13.00
15	6.80	11.00	10.00	8.20	62.00	328.00	31.00	231.00	12.00	10.00	85.00	13.00
16	8.30	12.00	9.40	8.80	47.00	283.00	28.00	34.00	13.00	8.40	52.00	13.00
17	11.00	12.00	11.00	7.60	27.00	62.00	13.00	17.00	12.00	9.00	35.00	13.00
18	9.40	10.00	12.00	10.00	16.00	36.00	15.00	12.00	11.00	7.80	25.00	38.00
19	18.00	10.00	13.00	85.00	16.00	28.00	16.00	7.60	8.20	6.60	25.00	30.00
20	12.00	10.00	18.00	26.00	15.00	20.00	15.00	5.40	6.50	5.60	27.00	26.00
21	12.00	9.40	18.00	21.00	18.00	16.00	14.00	4.00	7.00	5.60	22.00	25.00
22	16.00	10.00	15.00	38.00	16.00	14.00	12.00	3.20	5.90	5.60	18.00	21.00
23	15.00	13.00	12.00	30.00	15.00	12.00	8.80	2.80	7.00	5.60	17.00	20.00
24	15.00	14.00	11.00	21.00	13.00	10.00	5.90	2.10	18.00	5.60	16.00	18.00
25	14.00	16.00	9.40	19.00	63.00	9.50	3.20	1.50	12.00	5.60	16.00	18.00
26	10.00	14.00	10.00	15.00	46.00	8.20	1.80	2.40	8.20	5.60	41.00	20.00
27	9.40	12.00	10.00	12.00	25.00	6.50	1.30	6.50	7.00	5.60	60.00	32.00
28	8.90	14.00	9.40	9.50	19.00	4.00	0.40	4.00	4.90	5.60	65.00	28.00
29	10.00	11.00	8.90	10.00	16.00	3.60	0.40	2.80	4.50	5.60	56.00	21.00
30	14.00	10.00	10.00	9.50	24.00	2.40	0.40	4.90	4.50	6.10	42.00	21.00
31	9.40	11.00	11.00	9.10	91.00	0.30	0.30	4.90	4.50	7.80	21.00	21.00
MEAN	8.610	18.072	11.174	20.907	28.329	49.103	13.894	11.584	24.620	6.919	32.507	23.710
INCHES	0.048	0.095	0.063	0.113	0.159	0.266	0.078	0.065	0.133	0.039	0.176	0.133
STA AV	0.042	0.423	0.061	0.127	0.126	0.098	0.016	0.032	0.302	0.035	0.045	0.056

NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.0001806. To convert discharge in inches to AC-FT, multiply by 10,980. Yearly mean discharge, 20.7 CFS. Yearly discharge, 1.367 inches.

1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 14 - 16, 1968												
RG	047		RG	047								
8-14	0.0	0.000	8-14	2345	0.0	0.0	8-14	2400	1.50	0.0		
				2354	1.4001	0.21	8-15	212	9.50	0.0001		
			8-15	5	0.9600	0.29		424	10.20	0.0003		
				18	1.3385	0.58		436	53.60	0.0003		
				25	2.3143	0.85		442	106.90	0.0004		
WATERSHED CONDITIONS:												
From a 1967 survey: sowed												
crop - 9%; row crop - 13%;												
alfalfa - 3%; pasture and												
range - 53%; and miscel-												
laneous - 22%.												
				143	1.0000	2.29		954	529.90	0.0125		
				152	1.4667	2.51		1042	588.70	0.0159		
				159	2.9143	2.85		1112	639.20	0.0182		
				208	1.2000	3.03		1236	550.20	0.0245		
				302	0.0222	3.05		1342	433.60	0.0286		
				322	0.1200	3.09		1600	245.70	0.0345		
				338	1.2000	3.41		1818	139.30	0.0378		
				412	0.2471	3.55		2130	87.30	0.0405		
								2400	58.90	0.0419		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007525. For 30-day antecedent P and Q, see table on previous page.

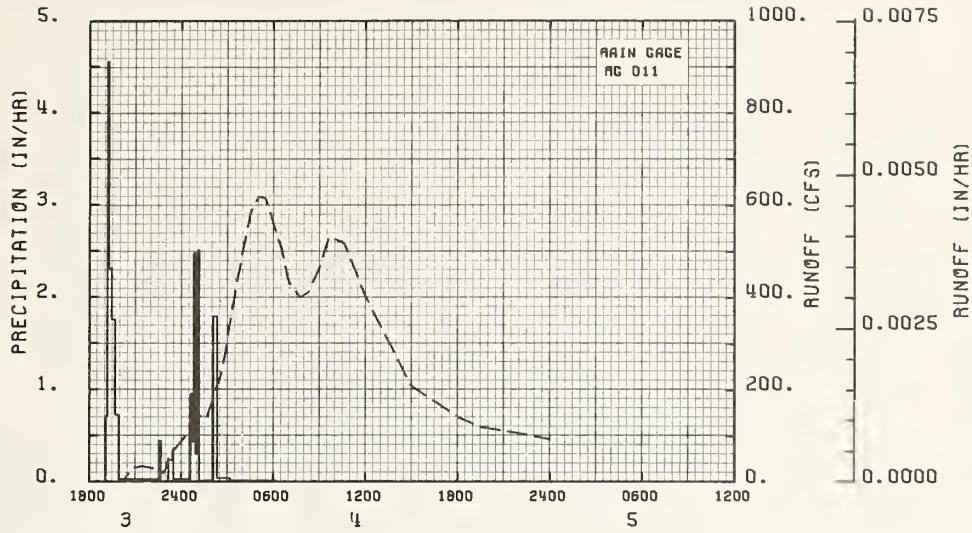


1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 3 - 4, 1968										
9- 3	RG 011 0.0	0.000	9- 3	RG 011 1905	0.0	0.0	9- 3	2012	2.40	0.0
				1910	0.7200	0.06		2030	15.60	0.0
				1915	4.5594	0.44		2054	30.10	0.0001
				1928	2.3078	0.94		2118	33.80	0.0002
				1941	1.7539	1.32		2230	26.10	0.0005
				1956	0.7200	1.50		2248	18.40	0.0005
				2232	0.0231	1.56		2300	29.70	0.0005
				2240	0.4500	1.62		2312	56.30	0.0006
				2310	0.0	1.62		2400	88.80	0.0010
				2325	0.2400	1.68	9- 4	106	144.50	0.0020
			9- 4	2330	0.3600	1.71		136	135.30	0.0025
				36	0.0500	1.74		242	249.20	0.0041
				41	0.9600	1.82		330	413.30	0.0061
				48	0.4286	1.87		430	584.20	0.0099
				55	2.4857	2.16		500	617.70	0.0122
				105	0.3000	2.21		530	612.30	0.0145
				110	2.5200	2.42		630	507.00	0.0187
				204	0.0111	2.43		700	433.10	0.0205
				220	1.8000	2.91		742	398.90	0.0227
				310	0.0360	2.94		818	413.20	0.0245
				610	0.0100	2.97		900	465.90	0.0268
								936	530.70	0.0290
								1036	516.10	0.0329
								1200	400.40	0.0377
								1500	206.10	0.0445
								1800	139.50	0.0484
								1930	117.10	0.0498
								2200	104.10	0.0519
								2400	90.70	0.0534

WATERSHED CONDITIONS:
From a 1967 survey; sowed
crop - 9%; row crop - 13%;
alfalfa - 3%; pasture and
range - 53%; and miscel-
laneons - 22%.

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000007525. For 30-day antecedent P and Q, see table on previous page.



EVENT OF SEPTEMBER 3 - 4, 1968
CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT

CHICKASHA, OKLAHOMA WATERSHEO 513 NEAR TABLER

LOCATION: Bedinfield Watershed is the West branch of East Bitter Creek 1.4 miles above East Bitter Creek gaging station, in Grady County, Okla.; tributary to East Bitter Creek; Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 22, T. 7 N., R. 6 W., lat. 35 deg. 03 min. 53 sec., long. 97 deg. 49 min. 13 sec.

AREA: 12314.00 acres 19.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHEO 513 NEAR TABLER	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1968	P 2.52	1.13	1.83	2.07	4.22	2.09	3.86	1.49	3.58	2.36	4.59	1.18	30.92		
	O 0.093	0.075	0.156	0.117	0.185	0.140	0.111	0.006	0.096	0.078	0.146	0.076	1.279		
STA AV	P 1.19	1.06	1.73	3.86	2.96	2.11	2.17	4.47	3.78	1.56	1.44	0.93	27.24		
	O 0.105	0.095	0.166	0.571	0.176	0.085	0.055	0.326	0.214	0.049	0.075	0.070	1.987		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		Maximum Volume for Selected Time Interval													
	Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	9- 4	0.021	9- 4	0.010	9- 4	0.035	9- 4	0.066	9- 4	0.076	9- 4	0.080	9- 4	0.081	5-25	0.129

MAXIMOMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	8- 8	0.169	8- 8	0.164	8- 8	0.307	8- 7	0.562	4-12	0.597	4-12	0.642	4-12	0.754	4- 9	0.875
	1965		1965		1965		1965		1967		1967		1967		1967	

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 2%; pasture and range - 90%; and miscellaneous - 2%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.16-8 and 69.7-21. Precipitation data obtained from a Thiessen weighted average of 18 gages on the watershed. Precipitation records began Jan. 1965; runoff records began Jan. 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHEO 513 NEAR TABLER	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.10	0.0	0.16	0.0	0.98	2.04	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0		
3	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	1.21	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	1.12	0.0	0.0		
6	0.03	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.10	0.0	0.15	0.31	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	1.05	0.0	0.0		
10	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.13	0.0		
11	0.04	0.0	0.28	0.0	0.06	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
12	0.0	0.09	0.0	0.34	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.03		
13	0.0	0.05	0.0	0.0	0.31	0.0	0.80	0.20	0.0	0.0	0.0	0.0		
14	0.0	0.16	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.26	0.0		
15	0.0	0.0	0.0	0.0	0.16	0.15	0.08	1.04	0.04	0.0	1.40	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.15	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0		
18	1.63	0.0	0.16	0.58	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.29		
19	0.10	0.0	0.61	0.21	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
20	0.03	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
21	0.17	0.23	0.0	0.24	0.42	0.0	0.0	0.0	0.0	0.04	0.0	0.24		
22	0.06	0.12	0.05	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.01	1.23	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0		
27	0.31	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.62		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.23	0.0		
29	0.10	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.04	0.0		
31	0.0	0.0	0.0	0.0	0.47	0.0	0.02	0.03	0.0	0.0	0.0	0.0		
TOTAL	2.52	1.13	1.83	2.07	4.22	2.09	3.86	1.49	3.58	2.36	4.59	1.18		
STA AV	1.19	1.06	1.73	3.86	2.96	2.11	2.17	4.47	3.78	1.56	1.44	0.93		

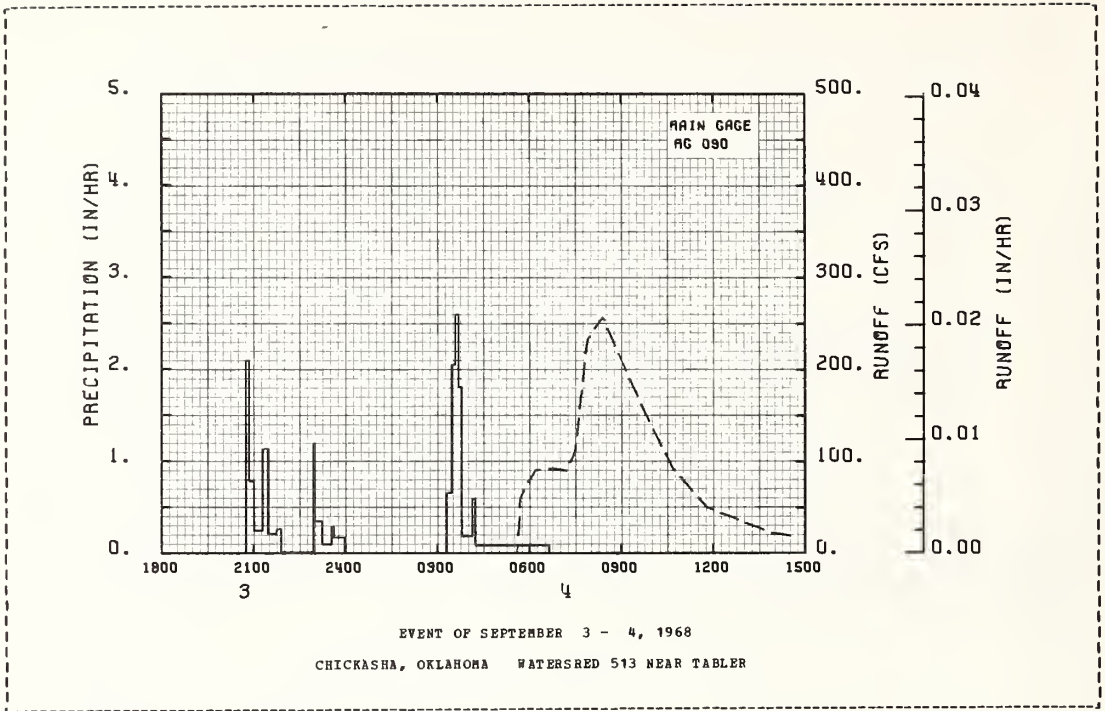
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 30.92 inches. Precipitation values are a Thiessen weighted average of 18 rain gages on the watershed.

1968		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.000	1.500	1.300	1.700	1.400	20.000	22.000	0.0	0.0	0.0	0.300	2.100
2	1.100	1.300	1.300	1.900	1.400	10.000	12.000	0.0	0.0	0.0	0.700	1.600
3	1.100	1.300	1.200	2.200	1.400	3.600	1.600	0.0	0.0	0.0	1.500	1.300
4	1.100	1.200	1.100	1.600	1.300	2.800	0.800	0.0	41.000	0.0	0.600	1.200
5	1.100	1.200	1.200	1.400	1.000	4.000	0.700	0.0	0.800	4.200	0.600	1.100
6	1.100	1.200	1.300	1.600	0.500	3.900	0.700	0.0	0.200	0.800	0.500	1.100
7	0.900	1.100	1.300	1.600	3.300	4.300	0.500	0.0	0.0	0.200	0.500	1.000
8	0.900	1.100	1.500	1.600	2.300	2.800	0.600	0.0	0.0	0.200	0.500	1.000
9	1.100	1.200	1.400	1.400	4.000	2.100	0.400	0.0	0.0	26.000	0.500	1.100
10	1.200	1.200	1.300	1.400	3.900	1.900	0.400	0.0	0.0	1.700	0.600	1.000
11	1.300	1.200	1.300	1.500	2.200	1.700	0.300	0.0	0.0	0.700	0.500	1.100
12	1.200	1.100	1.500	1.700	2.200	1.400	0.200	0.0	0.0	0.600	0.500	1.000
13	1.100	1.100	1.900	2.300	3.000	1.300	7.800	0.0	0.0	0.500	0.500	0.800
14	1.200	1.300	3.600	1.600	3.100	1.100	3.800	0.0	0.0	0.400	0.600	0.900
15	1.100	1.500	2.800	1.400	2.300	1.000	1.600	2.900	0.0	0.300	22.000	0.900
16	1.100	1.400	1.900	1.600	1.900	1.400	0.700	0.400	0.0	0.300	3.000	1.000
17	1.200	1.300	1.700	1.600	1.600	1.500	0.400	0.0	0.0	0.300	1.300	1.100
18	5.000	1.300	1.600	1.600	1.600	1.000	1.500	0.0	0.0	0.300	0.900	1.600
19	5.100	1.300	13.000	4.100	1.600	0.900	0.600	0.0	0.0	0.300	0.800	1.600
20	2.200	1.300	5.100	4.500	1.500	0.700	0.300	0.0	0.0	0.300	0.800	1.100
21	1.900	1.300	7.600	3.300	1.900	0.700	0.300	0.0	0.0	0.300	0.800	1.300
22	1.900	1.400	6.100	4.200	2.300	0.600	0.100	0.0	0.0	0.300	0.800	1.500
23	1.600	1.500	3.400	2.600	1.600	0.500	0.100	0.0	1.800	0.300	0.800	1.100
24	1.300	1.600	3.000	1.800	1.400	0.500	0.0	0.0	5.300	0.200	0.700	1.100
25	1.300	1.600	2.600	1.800	30.000	0.600	0.0	0.0	0.500	0.300	0.700	1.100
26	1.300	1.500	2.300	1.800	7.000	0.800	0.0	0.0	0.200	0.300	8.600	1.200
27	1.700	1.500	1.800	1.800	2.600	0.500	0.0	0.0	0.100	0.200	9.400	2.100
28	1.800	1.900	1.800	1.600	2.000	0.400	0.0	0.0	0.0	0.200	10.000	2.100
29	1.300	1.500	1.700	1.600	1.600	0.300	0.0	0.0	0.0	0.300	4.100	1.500
30	1.600	1.600	1.600	1.500	1.500	0.100	0.0	0.0	0.0	0.300	2.200	1.500
31	1.400	1.600	1.600	2.200	2.200	0.0	0.0	0.0	0.0	0.300	1.000	1.000
MEAN	1.5550	1.3410	2.6060	2.0100	3.0840	2.4130	1.8520	0.1070	1.6630	1.2940	2.5100	1.2610
INCHES	0.093	0.075	0.156	0.117	0.185	0.140	0.111	0.006	0.096	0.078	0.146	0.076
STA AV	0.105	0.095	0.166	0.571	0.176	0.085	0.055	0.326	0.214	0.049	0.075	0.070

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1.026. Yearly mean discharge, 1.8 CFS. Yearly discharge, 1.278 inches.

1968		SELECTED RONOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF SEPTEMBER 3 - 4, 1968												
9- 3	RG 090 0.0		9- 3	2045	0.0	0.0	9- 4	536	0.0	0.0		
9- 4		0.0		2051	2.1002	0.21		542	61.20	0.0007		
				2101	0.7800	0.34		612	90.90	0.0034		
				2118	0.2471	0.41		642	91.90	0.0071		
				2128	1.1400	0.60		712	89.00	0.0107		
WATERSHED CONDITIONS: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 2%; pasture and range - 90%; and miscel- laneous - 2%.				2145	0.2118	0.66		730	112.10	0.0131		
				2154	0.2667	0.70		742	172.10	0.0154		
				2257	0.0095	0.71		754	232.90	0.0186		
				2300	1.1999	0.77		824	257.20	0.0285		
				2314	0.3429	0.85		842	232.90	0.0344		
				2333	0.0947	0.88		942	157.60	0.0501		
				2337	0.3000	0.90		1042	90.90	0.0601		
				2358	0.1714	0.96		1148	49.10	0.0663		
			9- 4	318	0.0	0.96		1354	21.40	0.0723		
				328	0.6600	1.07		1600	11.20	0.0751		
				335	2.0571	1.31						
				341	2.6000	1.57						
				348	1.8000	1.78						
				408	0.1800	1.84						
				414	0.6000	1.90						
				535	0.0815	2.01						
				639	0.0844	2.10						

NOTES: To convert runoff in CFS to IN/RR, multiply by 0.00008054. For 30-day antecedent P and Q, see table on previous page.



CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocasset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 28, T. 8 N., R. 7 W., lat. 35 deg. 08 min. 44 sec., long. 97 deg. 57 min. 30 sec.

AREA: 15206.00 acres 23.76 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.09	0.91	0.88	3.13	5.05	2.34	2.90	1.80	3.05	1.86	4.30	0.78	29.09	
	O 0.018	0.017	0.028	0.205	0.121	0.075	0.009	0.006	0.002	0.024	0.101	0.009	0.615	
STA AV	P 1.36	0.55	1.46	4.69	3.85	2.91	2.16	1.57	4.17	2.63	2.27	0.89	28.46	
	O 0.009	0.009	0.015	0.989	0.100	0.073	0.005	0.003	0.036	0.162	0.054	0.010	1.466	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	4-19	0.023	4-19	0.022	4-19	0.044	4-19	0.120	4-18	0.168	4-18	0.183	4-18	0.187	4-18	0.195
MAXIMUMS FOR PERIOD OF RECORD																
	4-12	0.320	4-12	0.314	4-12	0.600	4-12	1.201	4-12	1.310	4-12	1.338	4-12	1.424	4-9	1.720
	1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 36% of area in cultivation (alfalfa, sowed crops and row crops; the pasture or range land (64%) is mostly short grass on moderately steep slopes. About 10% is severely eroded. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 69.27-4, and for composite map, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation and runoff records began Jan. 1967. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.11	0.0	0.62	0.86	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0		
3	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.01	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.79	0.0	0.0		
6	0.03	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.05	0.0	0.01	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	1.01	0.0	0.0		
10	0.0	0.0	0.19	0.0	0.07	0.01	0.0	0.0	0.0	0.0	0.07	0.0		
11	0.05	0.0	0.11	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.08	0.0	0.32	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01		
13	0.0	0.04	0.0	0.0	0.58	0.0	0.0	0.14	0.0	0.0	0.0	0.0		
14	0.0	0.15	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.28	0.0		
15	0.0	0.0	0.0	0.0	0.34	0.92	0.44	1.18	0.02	0.0	1.12	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.04	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
18	1.10	0.0	0.20	1.82	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.11		
19	0.12	0.0	0.09	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.01	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.18	0.20	0.0	0.27	0.59	0.0	0.0	0.0	0.0	0.01	0.0	0.10		
22	0.12	0.16	0.04	0.39	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0		
23	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.15	0.21	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	1.17	0.25	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.21	0.05		
27	0.01	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.51		
28	0.06	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.23	0.0		
29	0.41	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.06	0.0		
31	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
TOTAL	2.09	0.91	0.88	3.13	5.05	2.34	2.90	1.80	3.05	1.86	4.30	0.78		
STA AV	1.36	0.55	1.46	4.69	3.85	2.91	2.16	1.57	4.17	2.63	2.27	0.89		

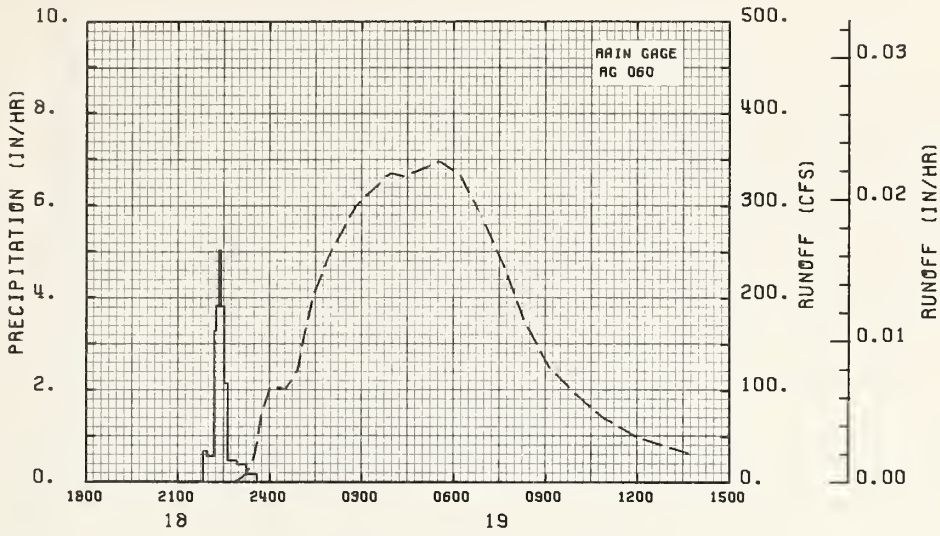
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 29.09 inches. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed.

1968		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.20	0.40	0.50	0.30	0.10	20.00	3.00	0.0	0.0	0.0	0.0	0.40	
2	0.20	0.30	0.40	0.30	0.10	4.60	0.30	0.0	0.0	0.0	0.10	0.30	
3	0.20	0.30	0.30	0.30	0.10	0.70	0.10	0.0	0.0	0.0	0.10	0.20	
4	0.20	0.30	0.30	0.30	0.10	0.30	0.10	0.0	1.20	0.0	0.10	0.20	
5	0.20	0.30	0.40	0.30	0.10	0.30	0.10	0.0	0.0	0.0	0.10	0.20	
6	0.20	0.30	0.40	0.30	0.10	2.60	0.10	0.0	0.0	0.0	0.10	0.20	
7	0.10	0.30	0.50	0.30	0.10	0.60	0.10	0.0	0.0	0.0	0.10	0.20	
8	0.10	0.30	0.50	0.30	0.10	0.30	0.10	0.0	0.0	0.0	0.10	0.20	
9	0.10	0.30	0.40	0.30	0.30	0.20	0.0	0.0	0.0	10.00	0.10	0.20	
10	0.10	0.30	0.40	0.30	0.90	0.10	0.0	0.0	0.0	3.60	0.10	0.20	
11	0.10	0.30	0.40	0.30	0.50	0.10	0.0	0.0	0.0	0.60	0.10	0.20	
12	0.10	0.30	0.50	0.30	0.50	0.10	0.0	0.0	0.0	0.20	0.10	0.10	
13	0.10	0.30	0.40	0.30	1.20	0.0	0.0	0.0	0.0	0.20	0.10	0.10	
14	0.10	0.30	1.00	0.30	7.30	0.0	0.10	0.0	0.0	0.10	0.10	0.10	
15	0.10	0.30	1.40	0.20	4.20	7.30	0.10	3.40	0.0	0.10	22.00	0.10	
16	0.10	0.30	0.80	0.20	1.40	9.80	0.0	0.30	0.0	0.10	4.00	0.20	
17	0.40	0.30	0.40	0.20	0.30	0.40	0.0	0.0	0.0	0.10	0.90	0.20	
18	0.80	0.30	0.40	2.00	0.20	0.10	1.00	0.0	0.0	0.10	0.30	0.20	
19	0.70	0.30	0.50	116.00	0.10	0.10	0.70	0.0	0.0	0.10	0.20	0.10	
20	0.40	0.30	0.80	2.40	0.10	0.0	0.10	0.0	0.0	0.0	0.10	0.20	
21	0.40	0.30	2.80	1.10	0.20	0.0	0.0	0.0	0.0	0.0	0.10	0.20	
22	0.50	0.30	1.10	0.90	0.50	0.0	0.0	0.0	0.0	0.0	0.10	0.20	
23	0.60	0.30	0.50	1.40	0.30	0.0	0.0	0.0	0.0	0.0	0.10	0.10	
24	0.50	0.60	0.40	0.70	0.20	0.0	0.0	0.0	0.0	0.0	0.10	0.10	
25	0.50	0.50	0.30	0.40	47.00	0.0	0.0	0.0	0.0	0.0	0.10	0.20	
26	0.50	0.90	0.30	0.30	9.20	0.0	0.0	0.0	0.0	0.0	1.50	0.20	
27	0.50	0.80	0.30	0.30	1.10	0.0	0.0	0.0	0.0	0.0	12.00	0.30	
28	0.50	0.50	0.30	0.20	0.40	0.0	0.0	0.0	0.0	0.0	15.00	0.20	
29	1.00	0.50	0.40	0.20	0.30	0.0	0.0	0.0	0.0	0.0	5.60	0.20	
30	1.20	0.30	0.30	0.20	0.20	0.0	0.0	0.0	0.0	0.0	1.20	0.20	
31	0.70	0.30	0.30	0.20	0.20	0.0	0.0	0.0	0.0	0.0	0.10	0.10	
MEAN	0.3680	0.3720	0.5710	4.3630	2.4970	1.5870	0.1900	0.1190	0.0400	0.4900	2.1530	0.1870	
INCHES	0.018	0.017	0.028	0.205	0.121	0.075	0.009	0.006	0.002	0.024	0.101	0.009	
STA AV	0.009	0.009	0.015	0.989	0.100	0.073	0.005	0.003	0.036	0.162	0.054	0.010	

NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1,267. Yearly mean discharge, 1.1 CFS. Yearly discharge, 0.613 inches.

1968			SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Oay	(inches)	(inches)	Mo-Oay	of Day	(in/hr)	(inches)	Mo-Oay	of Day	(cfs)	(inches)			
EVENT OF APRIL 18 - 19, 1968													
4-18	RG 060 0.0	0.000	4-18	RG 060 1815	0.0	0.0	4-18	2218	0.20	0.0			
				2149	0.0196	0.07		2248	1.00	0.0			
				2156	0.6858	0.15		2300	3.30	0.0			
				2210	0.5571	0.28		2312	9.40	0.0001			
				2214	3.3001	0.50		2324	19.20	0.0003			
WATERSHED CONDITIONS:				2219	3.8395	0.82		2336	46.80	0.0007			
36% of area in cultivation				2224	5.0403	1.24		2342	72.60	0.0011			
(alfalfa, sowed crops and				2230	3.7998	1.62		2400	103.30	0.0028			
row crops; the pasture or				2237	2.1431	1.87	4-19	30	100.80	0.0061			
range land (64%) is mostly				2255	0.4667	2.01		54	122.20	0.0090			
short grass on moderately				2314	0.3789	2.13		106	157.20	0.0108			
steep slopes. About 10% is				2335	0.1714	2.19		124	201.40	0.0143			
severely eroded.								154	244.80	0.0216			
								248	300.60	0.0376			
								354	334.60	0.0604			
								418	330.90	0.0691			
								530	347.60	0.0957			
								612	331.90	0.1112			
								654	287.70	0.1253			
								742	228.30	0.1388			
								818	175.00	0.1467			
								906	124.70	0.1545			
								1000	94.60	0.1609			
								1042	74.40	0.1648			
								1054	69.20	0.1657			
								1200	48.00	0.1699			
								1342	30.70	0.1743			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006521. For 30-day antecedent P and Q, see table on previous page.



EVERT OF APRIL 18 - 19, 1968
CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT

CHICKASHA, OKLAHOMA WATERSHED C-1

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, R. 7 W., T. 7 N., about 2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 17.83 acres

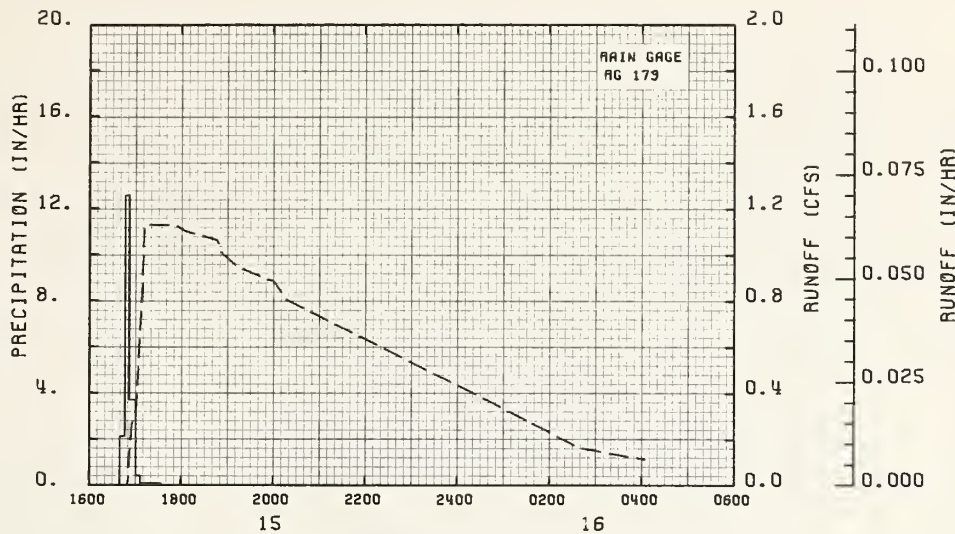
MONTHLY PRECIPITATION AND RDNOFF (inches)													CHICKASHA, OKLAHOMA		WATERSHED C-1		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1968	P 2.47	0.97	1.83	1.78	4.97	3.89	3.29	1.64	3.38	2.30	4.75	0.83	32.10				
	O 0.0	0.0	0.001	0.0	0.002	0.635	0.308	0.0	0.046	0.394	0.902	0.0	2.288				
STA AV	P 1.11	0.86	1.67	3.51	2.84	2.53	2.19	5.17	3.63	1.55	1.41	0.76	27.21				
	O 0.0	0.0	0.008	0.063	0.000	0.160	0.085	0.733	0.127	0.098	0.225	0.0	1.501				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	6-15	0.063	6-15	0.060	6-15	0.117	6-15	0.277	6-15	0.362	6-15	0.425	11-26	0.600	11-26	0.637
MAXIMUMS FOR PERIOD OF RECORD																
	4-12	0.081	8-28	0.065	8-28	0.128	8-28	0.349	8-28	0.614	8-28	0.920	8-28	1.049	8-23	1.153
	1967		1965		1965		1965		1965		1965		1965		1966	

NOTES: Watershed conditions: Continuous cotton - tillage during fallow period consisted of shredding stalks, disking, chiseling, spring-tooth harrowing and spike-tooth harrowing. Cotton was planted during the third of June. Tillage during the growing season consisted of rotary hoeing and cultivating. Principal drain with less than 0.05 ft. grade per 100 feet was maintained during the growing season by use of field cultivator. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, OSDA Misc. Pub. 1216, pp. 69.30-1 and 69.30-3. Monthly precipitation values obtained from one recording rain gage, No. 173, located near the 1.5 ft. H-flume. Precipitation and runoff records began January 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 SELECTED RUNOFF EVENT													CHICKASHA, OKLAHOMA		WATERSHED C-1	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.						
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)						
EVENT OF JUNE 15 - 16, 1968																
6-15	RG 173	0.0	6-15	RG 173	0.0	0.0	6-15	1650	0.0	0.0						
					1640	2.1428	0.25	1651	0.02	0.0						
					1647	12.5992	1.51	1653	0.14	0.0002						
					1653	3.6751	2.00	1656	0.27	0.0007						
					1701	0.4000	2.04	1701	0.31	0.0021						
					1707			1708	0.75	0.0055						
WATERSHED CONDITIONS:					1734	0.0667	2.07	1712	1.13	0.0090						
100% cropland, continuous								1719	1.13	0.0478						
dryland cotton. Field								1749	1.10	0.0643						
freshly tilled, including								1805	1.06	0.1063						
rotary hoeing and planting								1847								
cotton.																
30 Day Antecedent Conditions:								1854	1.00	0.1130						
Rainfall								1915	0.94	0.1320						
Runoff								2001	0.88	0.1709						
Date	Rainfall	Runoff						2018	0.80	0.1841						
05-15	0.28	0.0						2018	0.38	0.3225						
05-21	0.47	0.0						6-16								
05-25	0.86	0.001						31								
05-29	0.22	0.0						239	0.16	0.3543						
05-31	0.76	0.001						404	0.11	0.3648						
06-01	0.51	0.155														
06-05	0.78	0.016														
06-07	0.53	0.015														
06-10	0.03	0.0														

NOTES: To convert runoff in cfs to IN/HR, multiply by 0.05562. Runoff ended at 1707 on June 17, 1968 with accumulated total of 0.44942 inches.



EVENT OF JUNE 15 - 16, 1968
CHICKASHA, OKLAHOMA WATERSHED C-1

1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-1

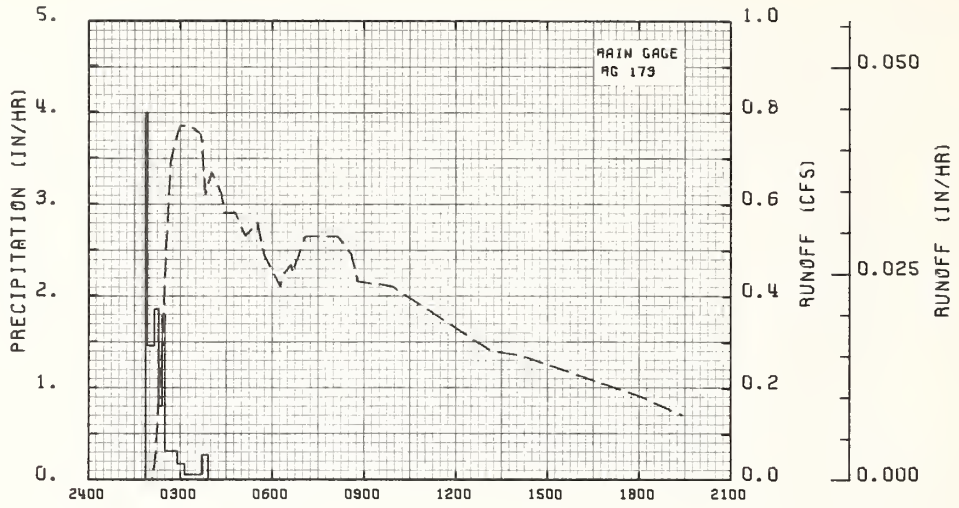
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 9, 1968										
10- 9	RG 173 0.0	0.0	10- 9	RG 173 152	0.0	0.0	10- 9	150	0.0	0.0
				155	4.0000	0.20		204	0.0	0.0
				209	1.4571	0.54		209	0.03	0.0001
				218	1.8667	0.82		215	0.12	0.0005
				224	0.8000	0.90		221	0.23	0.0014
				229	1.8000	1.05		225	0.31	0.0024
				254	0.3120	1.18		231	0.49	0.0047
				308	0.1714	1.22		241	0.70	0.0102
				341	0.0545	1.25		258	0.77	0.0218
				354	0.2769	1.31		316	0.77	0.0347
								340	0.75	0.0516
								342	0.72	0.0530
								349	0.62	0.0574
								400	0.67	0.0640
								420	0.62	0.0760
								425	0.58	0.0787
								447	0.58	0.0906
								506	0.53	0.1004
								530	0.56	0.1126
								543	0.49	0.1188
								615	0.42	0.1324
								623	0.45	0.1356
								636	0.47	0.1411
								639	0.45	0.1424
								651	0.49	0.1477
								704	0.53	0.1539
								807	0.53	0.1851
								835	0.49	0.1985
								848	0.43	0.2040
								954	0.42	0.2301
								1308	0.28	0.2929
								1405	0.27	0.3075
								1803	0.18	0.3569
								1924	0.14	0.3687

WATERSHED CONDITIONS:
100 % cropland, continuous
dryland cotton. Cotton
matre, average height
27 inches.

30 Day Antecedent Conditions:

Date	Rainfall	Pnnoff
(inches)	(inches)	(inches)
09-15	0.04	0.0
09-17	0.21	0.0
09-23	1.28	0.26
09-24	0.35	0.003
10-05	0.89	0.004

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05562. Runoff ended at 1512 on Oct. 10, 1968 with accumulated total of 0.38954 inches.



EVENT OF OCTOBER 9, 1968
CHICKASHA, OKLAHOMA WATERSHED C-1

CHICKASHA, OKLAHOMA WATERSHED C-2

LOCATION: Grady County, Oklahoma; SE 1/4, sec. 4, R. 8 W., T. 7 N., about 6 miles West and 4 miles North of Chickasha Oklahoma; Washita River Basin.

AREA: 32.54 acres

MONTHLY PRECIPITATION AND RDNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-2															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.42	0.89	0.90	2.21	4.16	4.10	3.92	2.64	2.85	1.85	4.45	0.70	31.09															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.180	0.360															
STA AV	P	0.85	0.93	1.38	2.89	2.96	3.35	1.74	3.03	3.48	1.34	2.09	0.79	24.83															
	O	0.0	0.0	0.0	0.023	0.001	0.077	0.0	0.004	0.006	0.003	0.0	0.026	0.146															

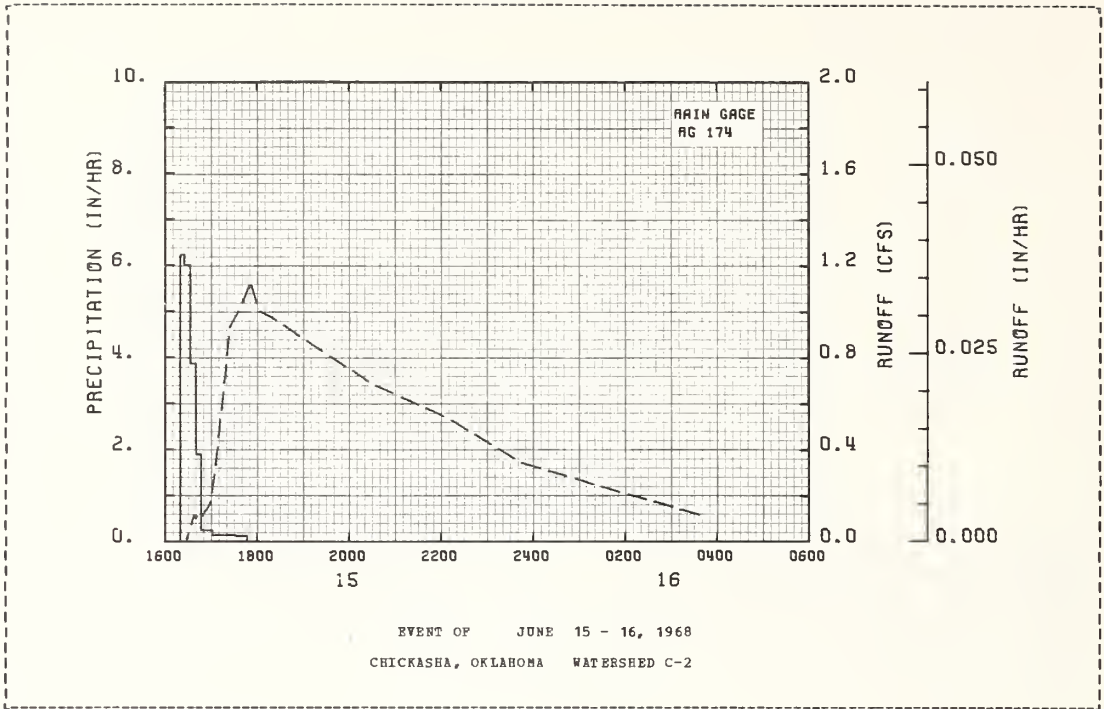
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	6-15	0.034	6-15	0.031	6-15	0.058	6-15	0.131	6-15	0.169	6-15	0.175	6-15	0.175	6-15	0.175

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	4-12	0.099	4-12	0.075	4-12	0.110	6-1	0.208	6-1	0.246	6-1	0.246	6-1	0.246
	1967		1967		1967		1962		1962		1962		1962	

NOTES: Watershed conditions: This 32.5 acre watershed continued in mixed cropping. The north 15.5 acres and 0.2 acre drainage way was planted to wheat in the fall of 1967. The area was undisturbed after harvest in June 1968 until mid-September when it was moldboard plowed and prepared for wheat. Wheat was seeded during latter part of October, 1968. The south 16.8 acres were in cotton in 1967. The entire watershed area was used as pasture for cattle from December, 1967 until about March 1, 1968 when cattle were removed. The south 16.8 acres were planted to grain sorghum with 14 inch row spacing in early May 1968. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.31-1 and 69.31-3. Monthly precipitation values obtained from one weighting type rain gage, No. 174. Precipitation and runoff records began May 1, 1962. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 SELECTED RDNOFF EVENT														CHICKASHA, OKLAHOMA WATERSHED C-2													
ANTECEDENT CONDITIONS						RAINFALL						RUNOFF															
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.													
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	Mo-Day	of Day	(cfs)	(inches)													
EVENT OF JUNE 15 - 16, 1968																											
6-15	RG 174	0.0	6-15	1620	0.0	0.0	6-15	1627	0.0	0.0																	
				1625	6.2404	0.52		1634	0.07	0.0001																	
				1633	6.0001	1.32		1638	0.12	0.0003																	
				1640	3.8571	1.77		1640	0.10	0.0004																	
				1647	1.8857	1.99		1645	0.13	0.0007																	
WATERSHED CONDITIONS:						1702	0.2400	2.05	1648	0.11	0.0009																
100% cropland. North						1732	0.1400	2.12	1655	0.15	0.0014																
15.53 acres and drainage						1747	0.1200	2.15	1700	0.18	0.0018																
channel in wheat. The									1705	0.31	0.0024																
south 16.79 acres planted									1720	0.77	0.0065																
to grain sorghum in 14 inch																											
rows in early May.																											
30 Day Antecedent Conditions:									1725	0.94	0.0087																
Rainfall Runoff									1740	1.03	0.0162																
Date	(inches)	(inches)							1751	1.13	0.0222																
05-15	0.77	0.004							1802	1.00	0.0282																
05-21	0.52	0.0							1819	0.97	0.0367																
05-25	0.51	0.0																									
05-29	0.03	0.0							2025	0.69	0.0899																
06-01	0.51	0.0							2211	0.53	0.1229																
06-05	0.78	0.0							2344	0.34	0.1434																
06-07	0.53	0.0						6-16	145	0.22	0.1606																
06-10	0.03	0.0							341	0.11	0.1703																

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03048. Runoff ended at 1128 on June 16, 1968 with accumulated total of 0.17476 inches.



CHICKASHA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 44.26 acres

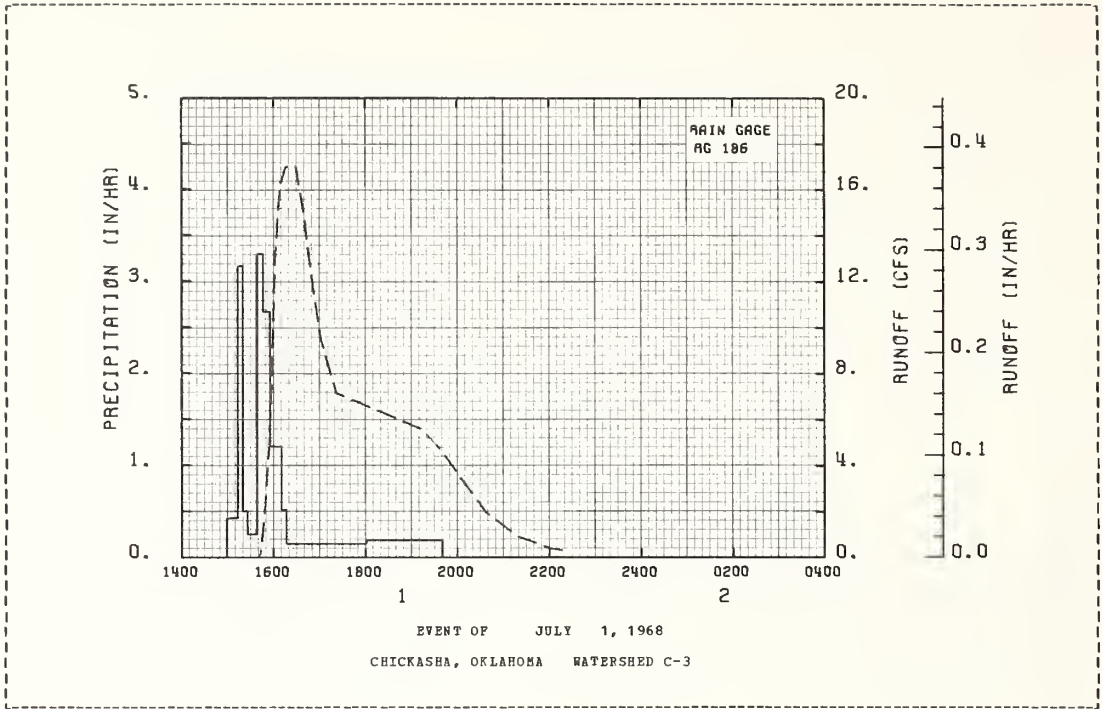
MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-3															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.52	1.11	1.83	1.65	4.26	3.23	3.44	1.37	2.96	2.32	4.30	0.75	29.74															
	O	0.050	0.017	0.132	0.0	0.210	1.569	0.866	0.006	0.111	0.442	0.5H7	0.0	3.990															
STA AV	P	1.09	0.92	1.89	3.92	2.74	2.14	2.96	3.76	3.46	1.45	1.33	0.74	26.39															
	O	0.017	0.007	0.077	0.677	0.091	0.565	0.569	0.971	0.341	0.113	0.147	0.0	3.575															

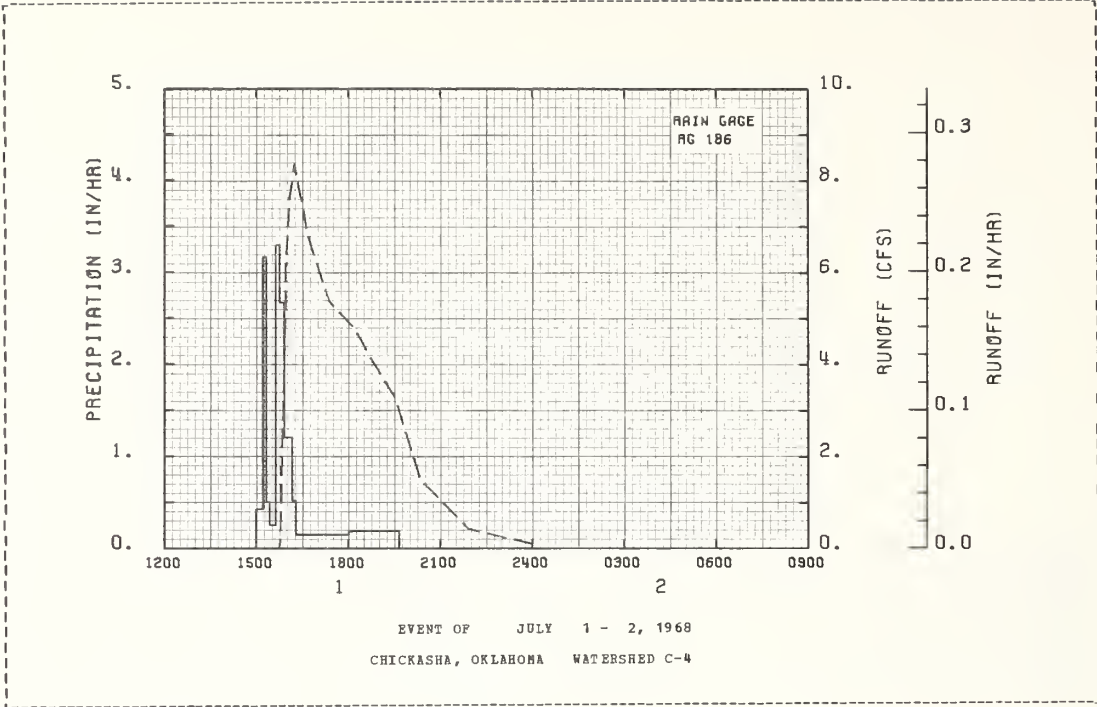
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-15	0.418	6-15	0.355	6-15	0.538	7- 1	0.823	7- 1	0.835	6-15	0.846	6-15	0.846
MAXIMUMS FOR PERIOD OF RECORD															
		4-12	0.428	4-12	0.373	4-12	0.618	8-29	1.029	8-29	1.093	4-12	1.110	4-12	1.333
		1967		1967		1967		1966		1966		1967		1967	

NOTES: Watershed conditions: Cropland, previously graded and smoothed for row irrigation. Entire watershed disked then moldboard plowed 10-12 inches deep in mid-December 1967. Spring preplanting tillage consisted of spring toothing, smoothing, incorporation of herbicide with disk and spring-tooth harrow, incorporated fertilizer, spring-tooth and spike tooth harrowed. Planted cotton first week of May. Replanted most all cotton second week of June. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Watershed area irrigated only one time during last week of June with average of approximately 1.0 inch of water. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.32-1 and 69.32-3. Monthly precipitation data obtained from two recording weighing type rain gauges, No. 186 and Cotton Research Station gage. Precipitation and runoff records began September 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 SELECTED RUNOFF EVENT												CHICKASHA, OKLAHOMA WATERSHED C-3											
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF															
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.									
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	Mo-Day	of Day	(cfs)	(inches)									
EVENT OF JULY 1, 1968																							
	RG 186			RG 186																			
7- 1	0.0	0.0	7- 1	1459	0.0	0.0	7- 1	1539	0.0	0.0													
				1513	0.4286	0.10		1540	0.0	0.0													
				1520	3.1714	0.47		1541	0.02	0.0													
				1526	0.5000	0.52		1543	0.26	0.0001													
				1538	0.2500	0.57		1545	0.78	0.0005													
WATERSHED CONDITIONS:																							
100% cropland. All water-																							
sheds planted to row crop																							
June 12-13. Replanted																							
cotton in south field and																							
soybeans in triangle on																							
June 21. Rotary hoed all																							
cotton in north field on																							
June 28.																							
30 Day Antecedent Conditions:																							
Date	Rainfall	Runoff																					
(inches)	(inches)	(inches)																					
05-31	0.63	0.038						1609	16.21	0.0732													
06-01	0.82	0.520						1616	17.01	0.1168													
06-05	0.43	0.088						1622	17.01	0.1540													
06-07	0.38	0.115						1629	17.01	0.1986													
06-15	1.49	0.831						1639	15.04	0.2588													
06-16	0.11	0.015																					
								1648	12.54	0.3047													
								1651	11.88	0.3185													
								1702	9.44	0.3624													
								1722	7.11	0.4239													
								1912	5.57	0.6843													
								1935	4.79	0.7287													
								2038	1.92	0.8077													
								2118	0.91	0.8288													
								2200	0.39	0.8390													
								2225	0.26	0.8420													

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241. Runoff ended at 1413 on July 2, 1968 with an accumulated total of 0.84845 inches.





CHICKASHA, OKLAHOMA WATERSHED C-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 12.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-5																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	2.50	1.03	1.76	1.67	4.50	3.11	3.16	1.38	2.82	2.33	4.22	0.74	29.22																	
	Q	0.0	0.0	0.265	0.0	0.029	0.207	0.018	0.0	0.0	0.011	0.072	0.0	0.602																	
STA AV	P	1.10	0.86	1.83	3.72	2.80	2.26	2.43	4.95	3.36	1.42	1.27	0.75	26.74																	
	Q	0.0	0.0	0.125	0.416	0.007	0.052	0.006	0.101	0.005	0.003	0.018	0.0	0.733																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1968		6-15	0.069	6-15	0.062	6-15	0.106	6-15	0.174	6-15	0.196	6-15	0.206	6-15	0.207	3-19	0.246														
		MAXIMUMS FOR PERIOD OF RECORD																													
		4-12	0.280	4-12	0.250	4-12	0.409	4-12	0.673	4-12	0.775	4-12	0.812	4-12	0.935	4-9	1.180														
		1967		1967		1967		1967		1967		1967		1967		1967															

NOTES: Watershed conditions: Watershed planted to wheat in fall of 1967 and harvested for grain in June 1968. Watershed tandem disked 4-5 inches deep June 24 and July 18. Chiseled 6-8 inches deep parallel with field July 23 and diagonally with field July 25. Watershed tandem disked 4-6 inches on September 11, spring-tooth harrowed 5-6 inches deep on Oct. 2, spring-tooth harrowed 4-5 inches deep on Oct. 18, and spike-tooth harrowed on Oct. 22. Watershed was planted to wheat Oct. 23, 1968. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two weighting recording type rain gages, Numbers 185 and 187. Precipitation and runoff records began May 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 13.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED C-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.50	1.03	1.76	1.67	4.50	3.09	3.15	1.39	2.79	2.34	4.22	0.74	29.18	
	O 0.0	0.044	0.450	0.0	0.025	0.283	0.027	0.0	0.0	0.081	0.225	0.0	1.135	
STA AV	P 1.10	0.86	1.81	3.74	2.80	2.25	2.42	4.95	3.35	1.42	1.27	0.75	26.72	
	O 0.0	0.015	0.207	0.387	0.006	0.071	0.009	0.217	0.021	0.020	0.056	0.0	1.009	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	10-9	0.116	6-15	0.071	6-15	0.130	6-15	0.232	6-15	0.266	6-15	0.279	6-15	0.283	3-18	0.408
MAXIMUMS FOR PERIOD OF RECORD																
	8-28	0.305	4-12	0.259	4-12	0.398	4-12	0.634	4-12	0.744	4-12	0.787	4-12	0.895	4-9	1.050
	1965		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: Watershed planted to wheat in fall of 1967 and harvested for grain in June 1968. Watershed tandem disked 4-5 inches deep June 24 and July 18. Chiseled 6-8 inches deep parallel with field July 23 and diagonally with field July 25. Watershed tandem disked 4-6 inches on September 11, spring-tooth harrowed 5-6 inches deep on October 2, spring-tooth harrowed 4-5 inches deep on October 18, and spike-tooth harrowed on October 22. Watershed was planted to wheat October 23, 1968. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.35-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two weighting recording type rain gages, Numbers 185 and 187. Precipitation and runoff records began May 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 26.52 acres

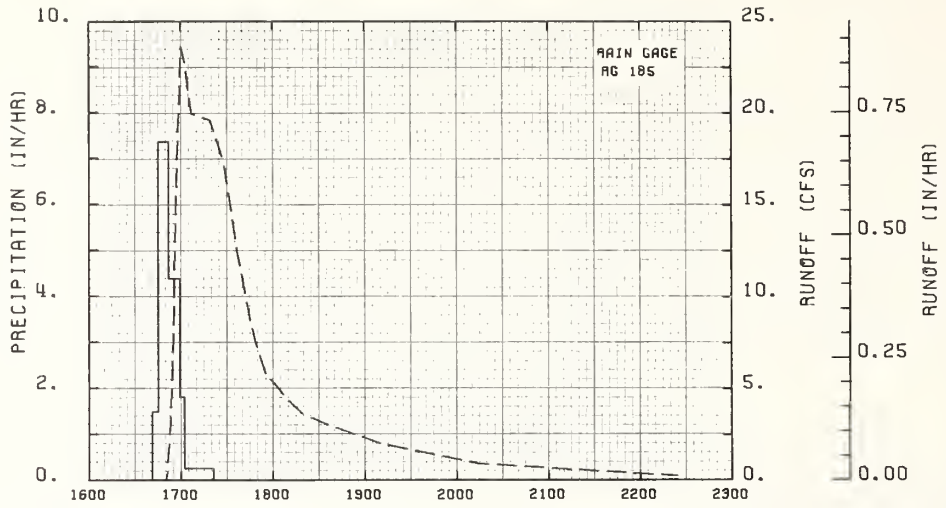
MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-7															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.48	0.99	1.73	1.64	4.47	3.05	3.08	1.39	2.75	2.35	4.21	0.75	28.89															
	O	0.0	0.0	0.021	0.0	0.017	0.945	0.372	0.0	0.061	0.492	0.243	0.0	2.151															
STA AV	P	1.09	0.84	1.78	3.70	2.78	2.25	2.41	4.92	3.34	1.41	1.27	0.74	26.54															
	O	0.0	0.019	0.010	0.653	0.015	0.298	0.224	0.646	0.152	0.123	0.061	0.0	2.200															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-15	0.882	6-15	0.573	6-15	0.710	6-15	0.835	6-15	0.848	6-15	0.850	6-15	0.850	6-15	0.850
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.957	4-12	0.637	4-12	0.824	4-12	0.944	4-12	0.969	4-12	1.050	4-10	1.228	4-9	1.634
		1967		1967		1967		1967		1967		1960		1967		1967	

NOTES: Watershed conditions: Cropland, north portion of watershed was summer fallowed and planted to alfalfa in September. South portion of watershed was planted to soy beans and grain sorghum. South field was disked 6-8 inches deep October 29, chisled 12-14 inches deep October 30 and moldboard plowed 10-12 inches deep November 12. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, DSOA Misc. Pub. 1216, pp. 69.36-1 and 69.36-3. Monthly precipitation data from Thiessen weighted rainfall value from two recording weighting type rain gauges, Numbers 185 and 187. Precipitation and runoff records began May 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 SELECTED RUNOFF EVENT														CHICKASHA, OKLAHOMA WATERSHED C-7													
		ANTECEDENT CONDITIONS			RAINFALL			RUNOFF																			
		Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.															
		Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)															
EVENT OF JUNE 15, 1968																											
	RG	185				RG	185																				
6-15		0.0	0.0		6-15	1641	0.0	0.0	6-15	1650	0.0	0.0															
						1645	1.4997	0.10		1651	0.44	0.0001															
						1652	7.3723	0.96		1653	3.12	0.0024															
						1659	4.3714	1.47		1655	7.85	0.0092															
						1702	1.7999	1.56		1657	16.56	0.0245															
WATERSHED CONDITIONS:																											
100 % cropland. South																											
portion of watershed spring																											
tooth harrowed May 29 and																											
planted to soybeans and																											
sorghum June 12. North																											
portion of watershed fallow,																											
spring tooth harrowed in																											
April, 1968.																											
30 Day Antecedent Conditions:																											
		Painfall	Runoff																								
		Date (inches)	(inches)																								
		05-15	0.21	0.0																							
		05-21	0.45	0.0																							
		05-25	0.77	0.007																							
		05-29	0.14	0.0																							
		05-31	0.68	0.009																							
		06-01	0.76	0.095																							
		06-05	0.26	0.0																							
		06-07	0.32	0.0																							

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740. Antecedent precipitation amounts are from Thiessen weighted rainfall using rain gauges 185 and 187. Runoff ended at 1200 on June 16, 1968 with accumulated total of 0.85006 inches.



EVENT OF JUNE 15, 1968
 CHICKASHA, OKLAHOMA WATERSHED C-7

CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.28 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-8															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	2.45	1.08	1.80	1.69	4.56	3.01	3.16	1.37	2.61	2.45	4.14	0.76	29.08															
	O	0.0	0.0	0.0	0.0	0.0	0.075	0.091	0.0	0.0	0.003	0.0	0.0	0.169															
STA AV	P	1.08	0.88	1.81	3.21	2.87	2.26	2.45	4.86	3.31	1.41	1.26	0.75	26.14															
	O	0.0	0.0	0.021	0.135	0.004	0.022	0.117	0.326	0.193	0.001	0.0	0.0	0.818															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge				Maximum Volume for Selected Time Interval																							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		6-15	0.047	6-15	0.032	6-15	0.044	7- 1	0.076	7- 1	0.090	7- 1	0.091	7- 1	0.091	7- 1	0.091												
MAXIMUMS FOR PERIOD OF RECORD																													
		9-19	0.257	9-19	0.190	9-19	0.249	8-29	0.374	8-29	0.430	8-29	0.436	9-19	0.610	8-21	0.678												
		1965		1965		1965		1966		1966		1966		1965		1966													

NOTES: Watershed conditions: Cropland, watershed was drilled to alfalfa in fall of 1965 and remained in alfalfa throughout 1968. Because of poor soil moisture conditions alfalfa was harvested only three times during 1968. Watershed chiseled 10-12 inches deep on 3-foot spacing in October. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.37-1. Maps - revised composite, p. 69.7-21; topography, p. 69.37-5 of foregoing reference. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighting type rain gages, numbers 185 and 188. Precipitation and runoff records began April 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-1

LOCATION: Caddo County, Oklahoma; NE 1/4, sec. 21, T. 8 N., R. 9 W., about 4-3/4 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 17.76 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)		CHICKASHA, OKLAHOMA WATERSHED R-1												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.02	1.26	1.08	2.83	4.50	2.15	4.31	2.18	3.09	2.04	4.97	1.17	31.60
	O	0.000	0.0	0.0	0.000	0.003	0.001	0.001	0.002	0.001	0.001	0.007	0.0	0.017
STA AV	P	0.73	0.92	1.27	3.45	2.91	4.23	1.50	3.41	3.94	1.54	2.14	0.84	26.88
	O	0.000	0.000	0.000	0.022	0.007	0.004	0.000	0.006	0.006	0.001	0.003	0.000	0.050

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-2, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,400 pounds of grass, 1,000 pounds of weeds and 2,600 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.38-1 and 69.38-2. Precipitation data obtained from recording rain gage No. 189. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-2

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N., R. 9 W., about 4-1/2 miles North and 2-3/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 24.08 acres

		MONTHLY PRECIPITATION AND RUNOFF (inches)												
		CHICKASHA, OKLAHOMA WATERSHED R-2												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.72	1.03	0.71	2.58	4.48	2.08	3.97	2.08	2.80	1.95	4.51	1.02	28.93
	O	0.004	0.0	0.0	0.010	0.019	0.006	0.004	0.013	0.002	0.007	0.016	0.002	0.082
STA AV	P	0.67	0.87	1.19	3.39	2.88	4.20	1.45	3.33	3.85	1.51	2.07	0.81	26.21
	O	0.001	0.000	0.002	0.064	0.014	0.029	0.001	0.038	0.039	0.009	0.013	0.004	0.213

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,800 pounds of grass, 1,100 pounds of weeds, and 2,500 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 190. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CRICKASRA, OKLAHOMA WATERSHED R-3

LOCATION: Caddo County, Oklahoma; NE 1/4, sec/ 21. T. 8 N., R. 9 W., about 4-1/2 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 25.84 acres

		MONTHLY PRECIPITATION AND RUNOFF (inches)					CHICKASHA, OKLAHOMA WATERSHED R-3							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.72	1.06	0.78	2.56	4.28	1.94	3.84	2.05	2.66	1.92	4.38	0.99	28.18
	Q	0.0	0.0	0.0	0.002	0.004	0.005	0.000	0.004	0.000	0.003	0.003	0.000	0.021
STA AV	P	0.67	0.87	1.19	3.37	2.87	4.15	1.44	3.31	3.77	1.49	2.05	0.80	25.98
	Q	0.000	0.000	0.001	0.029	0.006	0.012	0.000	0.017	0.019	0.004	0.006	0.001	0.096

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-2 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,300 pounds of grass, 900 pounds of weeds and 2,400 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.40-1. Precipitation data obtained from recording rain gage No. 191. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-4

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N. R. 9 W., about 4-1/2 miles North and 2-1/2 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 18.12 acres

		MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED R-4						
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.99	0.96	0.74	2.68	4.67	2.05	3.78	2.23	2.79	1.99	4.71	1.10	29.69
	O	0.0	0.0	0.0	0.002	0.008	0.002	0.001	0.004	0.0	0.001	0.002	0.000	0.020
STA AV	P	0.72	0.85	1.20	3.43	2.94	4.25	1.42	3.40	3.84	1.59	2.10	0.82	26.57
	O	0.0	0.0	0.000	0.091	0.005	0.022	0.000	0.027	0.023	0.004	0.005	0.000	0.177

NOTES: Watershed Conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-2 and R-3. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses, and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,900 pounds of grass, 800 pounds of weeds and 2,600 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.41-1 and 69.41-2. Precipitation data obtained from recording rain gage No. 192. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

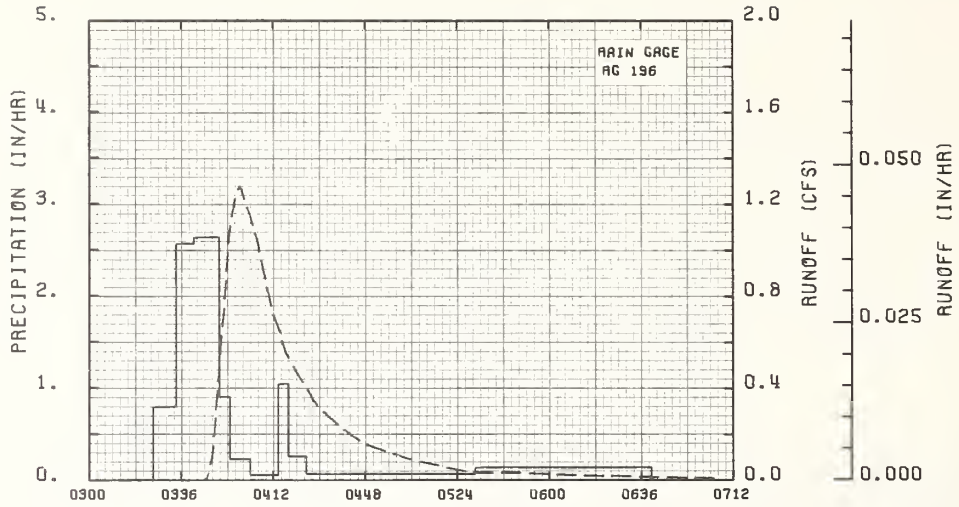
CRICKASRA, OKLAHOMA WATERSHED R-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 23.72 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CRICKASRA, OKLAHOMA WATERSHED R-5																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	2.72	1.10	1.73	2.42	4.24	2.30	4.32	1.11	3.04	2.44	4.55	1.27	31.24																	
	Q	0.0	0.0	0.171	0.0	0.035	0.048	0.017	0.0	0.012	0.0	0.023	0.0	0.306																	
STA AV	P	1.40	0.60	2.04	4.52	4.39	2.19	3.08	2.80	3.64	1.80	1.84	0.89	29.18																	
	Q	0.0	0.0	0.086	0.537	0.242	0.024	0.052	0.0	0.004	0.0	0.008	0.0	0.953																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1968		3-19	0.080	3-19	0.069	3-19	0.099	3-19	0.122	3-19	0.125	3-19	0.126	3-19	0.127	3-14	0.170														
MAXIMUMS FOR PERIOD OF RECORD																															
		4-12	0.879	4-12	0.577	4-12	0.721	4-12	0.790	4-12	0.806	4-12	0.810	4-10	0.947	4-9	1.066														
		1967		1967		1967		1967		1967		1967		1967		1967															

NOTES: Watershed conditions: Native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1968 was good. The vegetative cover in November 1968, based on 25 clipped samples uniformly spaced, averaged 2,600 pounds per acre of standing vegetation and 2,600 pounds per acre of mulch. This watershed was within the same pasture area as Watershed R-6, however, was subjected to a slightly heavier grazing rate. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 69.42-1; Maps - Topography, 1966, p. 69.42-3 of foregoing reference; revised composite, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, numbers 195 and 196. Precipitation and runoff records began July 1, 1966. For long-time precipitation records, see U. S. Weather Bureau records at Chickasha, Oklahoma.



EVENT OF SEPTEMBER 4, 1968
CHICKASHA, OKLAHOMA WATERSHED R-6

CHICKASHA, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 N., R. 6 W., about 8 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 19.19 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED R-7														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	2.62	1.08	1.74	2.28	4.25	2.62	4.39	0.97	3.01	2.32	4.17	1.24	30.69													
	O	0.291	0.014	0.630	0.112	0.453	0.617	0.900	0.0	0.475	0.429	0.732	0.0	4.653													
STA AV	P	1.35	0.58	2.04	4.21	4.38	2.26	3.04	2.88	3.48	1.64	1.72	0.87	28.44													
	O	0.146	0.007	0.315	1.211	0.559	0.324	0.480	0.205	0.414	0.158	0.244	0.0	4.064													

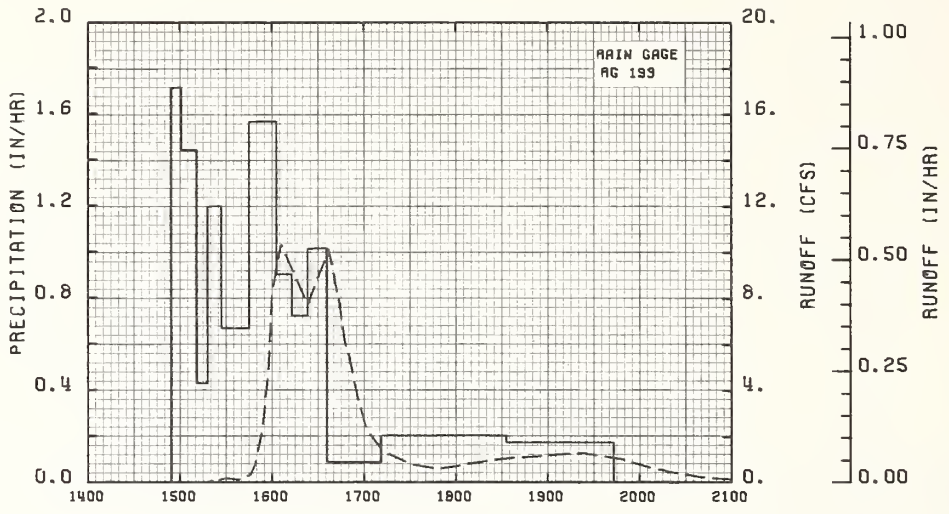
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days									
		Date	Date	Date	Date	Date	Date	Date									
1968		9- 4	1.204	9- 4	0.434	7- 1	0.484	7- 1	0.624	7- 1	0.627	7- 1	0.627	5-25	0.712	7- 1	0.639

MAXIMUMS FOR PERIOD OF RECORD																	
		4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th></th></th></th></th></th></th></th>	4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th></th></th></th></th></th></th>	4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th></th></th></th></th></th>	4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th></th></th></th></th>	4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th></th></th></th>	4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th></th></th>	4-12 <th>4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th></th>	4-12 <th>4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th></th>	4-12 <th>4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th></th>	4-12 <th>4-10 <th>4- 9 <th colspan="4"></th> </th></th>	4-10 <th>4- 9 <th colspan="4"></th> </th>	4- 9 <th colspan="4"></th>				
		1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th></th></th></th></th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th></th></th></th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th></th></th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th></th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th></th>	1967 <th>1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th></th>	1967 <th>1967 <th>1967 <th colspan="4"></th> </th></th>	1967 <th>1967 <th colspan="4"></th> </th>	1967 <th colspan="4"></th>				
		1.512	0.939	1.130	1.322	1.360	1.377	1.735	2.266								

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Range condition class during the year was poor. The vegetative cover in November 1968, based on 25 clipped samples uniformly spaced, averaged 1,600 pounds per acre of standing vegetation and 1,500 pounds per acre of mulch. This watershed was within the same pasture area as Watershed W-8. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.44-1 and 69.44-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gauges, number 193 and 194. Precipitation and runoff records began July 1, 1966. For long-time precipitation records, see U. S. Weather Bureau records at Chickasha, Oklahoma.

1968 SELECTED RUNOFF EVENT													CHICKASHA, OKLAHOMA WATERSHED R-7												
		ANTECEDENT CONDITIONS			RAINFALL				RUNOFF																
		Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.													
		Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)													
EVENT OF JULY 1, 1968																									
7- 1	RG	193	0.0	0.0	7- 1	1454	RG	193	7- 1	1515	0.0	0.0													
						1501	1.7143	0.20		1517			0.02	0.0											
						1511	1.4400	0.44		1520	0.06	0.0001													
						1518	4.4286	0.49		1529	0.17	0.0010													
						1527	1.2000	0.67		1537	0.10	0.0020													
		WATERSHED CONDITIONS:				1545	0.6667	0.87		1546	0.34	0.0037													
		100% rangeland, formerly				1603	1.5667	1.34		1549	0.81	0.0052													
		cultivated but returned				1613	1.9000	1.49		1554	2.43	0.0122													
		to range use during the				1623	0.7200	1.61		1558	5.22	0.0254													
		1930-40 period after				1636	1.0154	1.83		1600	8.12	0.0369													
		severe erosion. Grass																							
		cover primarily little				1711	0.0857	1.88		1603	9.42	0.0596													
		bluestem with a large				1833	0.2049	2.16		1606	10.35	0.0851													
		percent of bare ground				1943	0.1714	2.36		1623	7.71	0.2148													
		between grass bunches.								1637	10.11	0.3214													
		Vegetative sampling in								1644	7.71	0.3754													
		November 1968 showed an																							
		average of 1,500 pounds																							
		of standing grass, 100																							
		pounds of weeds, and 1,500																							
		pounds of mulch per acre.																							
		Areas subject to continuous																							
		grazing. Range condition																							
		class was poor.																							
		30 Day Antecedent Conditions:																							
		Date	Rainfall	Runoff																					
		(inches)	(inches)	(inches)																					
		06-01	0.91	0.347																					
		06-04	0.06	0.0																					
		06-05	0.41	0.026																					
		06-07	0.48	0.168																					
		06-15	0.18	0.001																					
		06-16	0.55	0.076																					
		06-25	0.03	0.0																					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05168. Antecedent precipitation amounts are from Thiessen weighted rainfall using rain gauges 193 and 194. Runoff ended at 0150 on July 2, 1968 with accumulated total of 0.62659 inches.



EVENT OF JULY 1, 1968
CHICKASHA, OKLAHOMA WATERSHED R-7

CRICKASHA, OKLAHOMA WATERSHED R-8

LOCATION: Grady County, Oklahoma; NW 1/4 sec. 13, T. 7 W., R. 6 W., about 8-1/2 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.55 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED R-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.72	1.34	2.04	2.25	4.36	2.62	4.43	0.95	3.13	2.29	4.27	1.13	31.53
	O	0.080	0.002	0.268	0.052	0.226	0.363	0.534	0.003	0.346	0.195	0.279	0.003	2.351
STA AV	P	1.40	0.72	2.10	4.24	4.58	2.32	3.09	2.84	3.61	1.71	1.76	0.87	29.23
	O	0.040	0.001	0.134	0.733	0.270	0.132	0.297	0.098	0.195	0.075	0.093	0.001	2.068

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	9-4	0.751	9-4	0.301	7-1	0.320	7-1	0.382	7-1	0.384	7-1	0.385	7-1	0.385

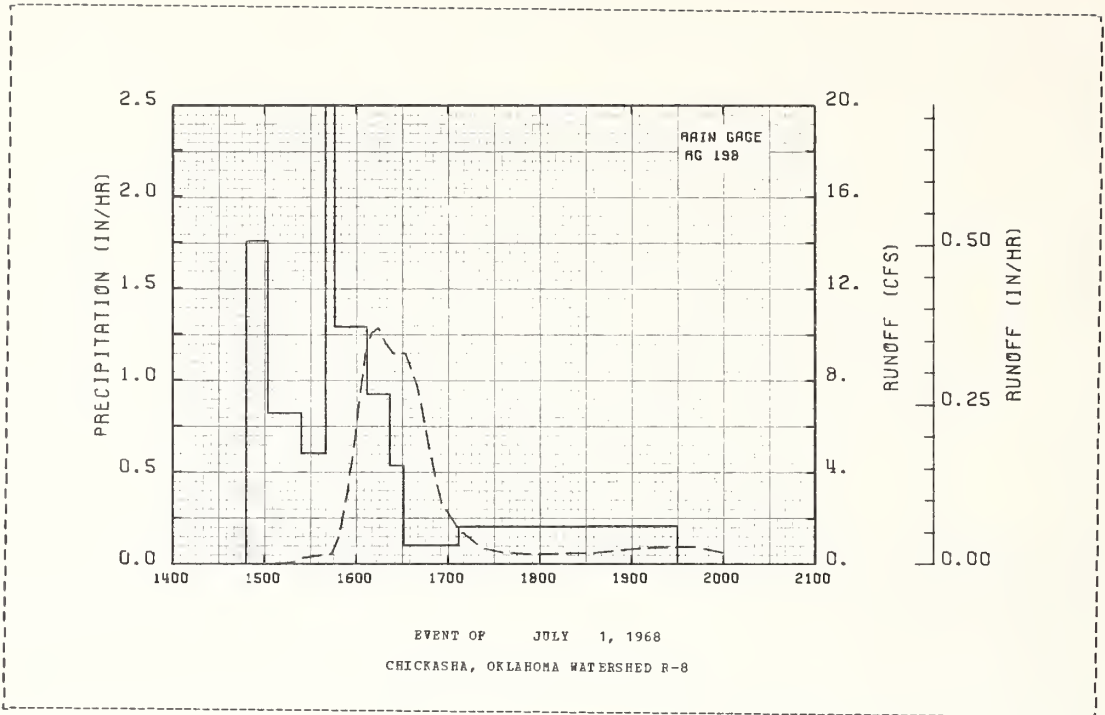
MAXIMUMS FOR PERIOD OF RECORD													
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
4-12	1.163	4-12	0.699	4-12	0.840	4-12	0.957	4-12	0.980	4-12	1.002	4-11	1.153
1967		1967		1967		1967		1967		1967		1967	1.398

NOTES: Watershed conditions: Eighty-six percent of the area was cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Although the watershed has not been reseeded to grass, the predominant grass species is little bluestem. Range condition class during the year was poor. The vegetative cover in November 1968, based on 25 clipped samples uniformly spaced, averaged 1,300 pounds per acre of standing vegetation and 1,600 pounds per acre of mulch. This watershed was within the same pasture area as Watershed R-7. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSDA Misc. Pub. 1226, pp. 69.45-1 and 69.45-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gauges, numbers 197 and 198. Precipitation and runoff records began July 1, 1966. For long-time precipitation records, see U. S. Weather Bureau records at Chickasha, Oklahoma.

NOTE: Due to error in the watershed area factor used to determine previously published runoff rates (in/hr) and accumulations (in.) the values reported in OSDA Misc. Pubs. 1226 and 1262 should be multiplied by 0.670177.

1968 SELECTED RUNOFF EVENT													CHICKASHA, OKLAHOMA WATERSHED R-8	
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF JULY 1, 1968														
7-1	RG 198	0.0	7-1	RG 198	0.0	0.0	7-1	1456	0.0	0.0				
					1448	0.0		1501	0.0	0.0				
					1502	1.7571		1504	0.0	0.0				
					1524	0.8182		1510	0.05	0.0001				
					1540	0.6000		1515	0.07	0.0003				
					1546	2.5000		1521	0.13	0.0007				
					1607	1.2858		1525	0.28	0.0012				
					1622	0.9200		1531	0.34	0.0023				
					1631	0.5333		1538	0.40	0.0039				
					1707	0.1000		1544	0.47	0.0055				
					1829	0.2049		1549	1.28	0.0080				
					1930	0.2066		1554	3.05	0.0140				
								1558	4.89	0.0240				
								1603	7.68	0.0436				
								1606	9.15	0.0588				
								1610	10.07	0.0819				
								1614	10.31	0.1063				
								1619	9.60	0.1362				
								1624	9.15	0.1694				
								1632	9.15	0.2085				
								1640	7.68	0.2488				
								1652	3.65	0.2885				
								1656	2.62	0.2960				
								1707	1.48	0.3093				
								1722	0.67	0.3190				
								1736	0.47	0.3239				
								1751	0.43	0.3280				
								1813	0.47	0.3340				
								1832	0.47	0.3393				
								1908	0.71	0.3524				
								1938	0.76	0.3658				
								2003	0.43	0.3748				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03600. Thiessen weighted rainfall using rain gauges 197 and 198. Runoff ended at 1156 on July 3, 1968 with accumulated total of 0.3848 inches.



SONORA, TEXAS WATERSHED W-14

LOCATION: Sutton County, Texas; gauging station on Water Street at Sonora city limit; Lowery Draw, East Fort Devils River, Devils River, Rio Grande River Basin.

AREA: 30720.00 acres 48.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED W-14	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 1.76	1.32	2.17	4.38	3.52	1.37	2.16	0.55	1.54	0.31	2.71	0.0	21.81	
	O 0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
STA AV	P 0.91	1.20	0.83	2.55	3.31	1.63	1.49	1.22	4.22	1.14	1.48	0.61	20.60	
	O 0.0	0.0	0.0	0.000	0.017	0.0	0.0	0.0	0.120	0.0	0.0	0.0	0.138	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	4-9	0.001	4-9	0.001	4-9	0.001	4-9	0.003	4-9	0.003	4-9	0.003	4-8	0.003	4-2	0.003

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
9-23 1964	0.060	9-23 1964	0.060	9-23 1964	0.120	9-23 1964	0.220	9-23 1964	0.270	9-23 1964	0.380	9-23 1964	0.610	9-21 1964	0.800

NOTES: Watershed conditions: 0.4% caliche and paved roads; 0.3% urban area; 0.3% cropland; 99.0% rangeland. Cropland seeded to oats in fall for winter grazing. Rangeland moderately to severely overgrazed during the year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.1-7. Precipitation data by Thiessen method using rain gauges 1, 1-A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY AIR TEMPERATURE (degrees F)															SONORA, TEXAS WATERSHED W-14										
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	44	33	64	52	51	32	65	48	83	49	85	65	91	72	93	65	80	60	85	57	81	63	58	33	
2	49	39	62	32	65	36	65	55	87	61	87	60	90	66	93	65	81	63	90	61	80	61	63	28	
3	49	43	61	33	65	32	73	54	87	67	79	55	82	67	94	68	92	66	91	63	79	43	58	29	
4	45	32	64	35	48	35	73	37	86	50	82	59	85	65	94	67	95	68	81	57	70	39	61	24	
5	47	31	65	34	47	38	67	34	80	51	85	63	85	61	95	67	95	65	77	59	81	47	59	31	
6	51	29	67	33	65	40	72	41	77	64	89	70	87	57	94	69	85	66	86	55	79	45	58	30	
7	29	15	65	29	71	44	77	53	85	65	88	69	87	64	97	67	89	66	86	61	65	43	58	25	
8	29	21	59	33	70	54	82	57	82	57	85	69	89	70	99	70	95	65	85	67	57	32	58	23	
9	51	28	57	33	73	46	81	53	80	63	85	67	89	67	99	70	95	66	85	62	53	32	59	32	
10	49	28	53	45	75	49	69	49	77	56	88	70	89	68	99	69	91	58	77	57	60	38	59	40	
11	48	33	55	41	73	33	68	52	73	53	95	68	91	64	98	70	89	55	79	60	60	29	61	45	
12	47	33	54	38	50	31	71	54	69	54	97	67	91	66	99	66	88	53	85	65	65	32	65	56	
13	52	20	52	30	61	29	79	57	83	62	97	67	89	71	98	68	86	57	88	67	72	48	61	26	
14	61	25	34	30	65	40	79	60	83	67	95	66	88	69	96	71	67	59	86	66	70	53	56	22	
15	63	33	44	29	75	49	75	50	85	70	95	72	90	70	94	73	88	61	85	68	67	46	57	26	
16	61	30	51	28	74	46	77	62	85	64	95	72	92	71	94	72	96	68	83	57	71	38	64	36	
17	59	42	50	39	69	53	85	63	77	58	94	64	95	69	93	71	95	63	81	45	65	46	65	52	
18	57	39	46	39	68	57	85	64	77	47	88	63	94	67	91	70	86	52	75	36	57	36	59	44	
19	39	33	57	40	71	51	82	58	77	51	90	61	93	68	93	68	89	59	80	43	62	30	60	26	
20	44	36	69	37	69	38	73	51	78	52	90	61	89	66	93	70	89	67	81	50	65	35	55	34	
21	55	37	69	29	38	31	76	59	80	62	87	61	92	66	94	69	89	70	79	63	70	38	63	49	
22	55	34	49	25	59	24	83	63	85	68	90	61	92	69	94	67	87	70	77	50	69	46	57	34	
23	55	41	47	22	66	29	84	48	87	68	89	67	93	68	94	68	89	70	83	47	69	49	51	17	
24	66	28	62	27	68	43	70	38	85	67	89	66	92	69	94	65	87	62	83	47	67	36	59	27	
25	73	39	69	34	77	44	75	45	92	67	91	64	91	67	92	63	77	57	80	41	71	38	67	35	
26	72	45	71	35	76	51	87	52	94	67	91	67	91	67	93	63	81	48	82	46	64	43	70	38	
27	63	54	70	43	68	56	87	59	85	63	89	60	94	63	93	66	83	49	81	50	50	29	67	43	
28	69	57	63	42	67	58	87	59	84	56	93	70	94	65	91	67	82	51	78	43	59	29	62	31	
29	68	57	52	32	69	56	70	44	90	63	93	73	94	67	91	61	81	55	84	47	59	36	71	34	
30	64	58			72	58	75	47	90	70	93	74	94	68	91	67	82	55	85	51	50	29	67	42	
31	69	56			77	56			89	68			93	69	78	65			82	61				59	21
AV.	54	36	58	34	65	43	76	52	83	60	89	65	90	67	94	67	87	60	82	55	66	40	60	33	
MEAN	45.4		46.3		54.6		64.3		71.9		77.8		78.8		80.8		73.9		68.8		53.3		47.1		
STA AV	58	32	59	34	71	43	80	54	84	60	89	65	93	67	92	67	86	62	79	52	70	45	60	34	

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 1630 of the day shown. STA AV based on 5 yr record period.

1968		DAILY PRECIPITATION (inches)											SONORA, TEXAS WATERSHED W-14											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.35	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.0	0.0	0.03	0.47	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.01	0.66	0.0	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0												
5	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
7	0.0	0.0	0.0	0.0	1.40	0.0	0.14	0.0	0.0	0.0	0.0	0.0												
8	0.60	0.0	0.0	0.38	0.0	0.03	0.39	0.0	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.32	1.45	1.18	0.0	0.0	0.0	0.0	0.01	0.71	0.0												
10	0.0	0.11	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.03	0.51	0.0	0.63	0.0	0.0	0.24	0.0	0.0	0.0	0.0												
12	0.0	0.01	0.0	0.20	0.09	0.0	0.0	0.08	0.0	0.0	0.0	0.0												
13	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.0	0.0												
14	0.0	0.29	0.0	0.0	0.0	0.0	0.01	0.0	0.67	0.0	0.00	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0												
17	0.0	0.28	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0												
18	0.09	0.33	0.0	1.32	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0												
19	0.34	0.0	0.62	0.03	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0												
20	0.64	0.0	0.37	0.11	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0												
21	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.39	0.0												
27	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.08	0.0	0.0	0.68	0.0												
28	0.08	0.07	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0												
TOTAL	1.76	1.32	2.17	4.38	3.52	1.37	2.16	0.55	1.54	0.31	2.71	0.0												
STA AV	0.91	1.20	0.83	2.55	3.31	1.63	1.49	1.22	4.22	1.14	1.48	0.61												

NOTES: Precipitation values are Thiessen weighted average of rain gages 1, 1-A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr period.

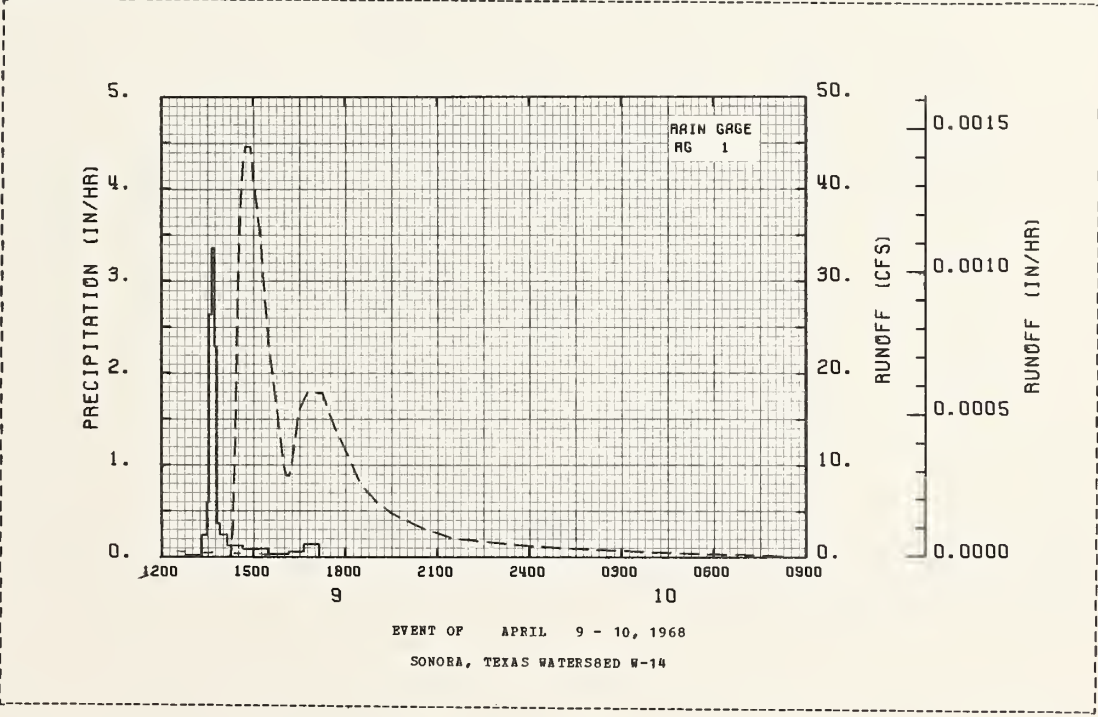
1968		MEAN DAILY DISCHARGE (cfs)											SONORA, TEXAS WATERSHED W-14											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.0	4.134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
MEAN	0.0	0.0	0.0	0.1441	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
INCHES	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
STA AV	0.0	0.0	0.0	0.000	0.017	0.0	0.0	0.0	0.120	0.0	0.0	0.0												

NOTES: To convert mean daily discharge in CPS to IN/OAY, multiply by 0.000775. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr period.

1968 SELECTED RUNOFF EVENT			SONORA, TEXAS WATERSHED W-14							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 9 - 10, 1968										
4-9	RG 1 0.0	0.0	4-9	RG 1 1247	0.0	0.0	4-9	1415	0.0	0.0
				1319	0.0187	0.01		1420	3.54	0.0
				1329	0.2400	0.05		1425	13.86	0.0
				1334	0.6000	0.10		1430	29.18	0.0001
				1339	2.6400	0.32		1435	37.05	0.0002
				1344	3.3600	0.60		1440	42.64	0.0003
				1349	2.2800	0.79		1445	44.57	0.0004
				1354	0.3600	0.82		1455	44.57	0.0006
				1409	0.2400	0.88		1500	41.35	0.0007
				1419	0.1200	0.90		1515	34.60	0.0010
				1439	0.1200	0.94		1520	30.49	0.0011
				1509	0.0800	0.98		1525	26.82	0.0012
				1529	0.0900	1.01		1530	23.27	0.0013
				1609	0.0300	1.03		1545	16.54	0.0015
				1639	0.0600	1.06		1600	9.71	0.0016
				1709	0.1400	1.13		1605	8.74	0.0016
								1610	8.74	0.0016
								1615	10.00	0.0016
								1630	16.07	0.0017
								1645	17.86	0.0018
								1715	17.86	0.0021
								1730	15.33	0.0022
								1745	13.33	0.0023
								1800	11.62	0.0024
								1830	7.83	0.0026
								1900	6.00	0.0027
								1930	4.69	0.0028
								2030	3.09	0.0029
								2130	1.99	0.0030
								2230	1.63	0.0031
							4-10	2400	1.17	0.0032
								130	0.87	0.0032
								300	0.65	0.0032
								430	0.44	0.0032
								600	0.29	0.0032
								730	0.18	0.0032
								915	0.0	0.0032

WATERSHED CONDITIONS:
 0.4% caliche and paved roads;
 0.3% urban area; 0.3% crop-
 land; 99.0% rangeland.
 Cropland seeded to oats in
 fall for winter grazing.
 Rangeland moderately to
 severely overgrazed during
 the year depending on
 climatic conditions and
 stocking rates.

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000032.



SONORA, TEXAS WATERSHED S-9

LOCATION: Sutton County, Texas; gauging station on Water Street at Sonora city limit; Lowrey Draw, East Fort Devils River, Devils River, Rio Grande River Basin.

AREA: 1774.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-9
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.83	1.23	2.54	3.64	1.86	1.49	3.37	0.70	2.47	0.28	2.87	0.0	22.28
	O	0.001	0.0	0.008	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014
STA AV	P	0.91	1.22	0.86	2.23	2.94	1.66	1.44	1.14	4.61	1.19	1.24	0.60	20.05
	O	0.000	0.0	0.001	0.001	0.009	0.017	0.0	0.0	0.386	0.0	0.0	0.0	0.413

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	4-18	0.010	4-18	0.002	3-20	0.002	3-20	0.003	3-20	0.004	3-19	0.006	3-19	0.007	3-17	0.007
MAXIMUMS FOR PERIOD OF RECORD																
	9-23	1.190	9-23	0.570	9-23	0.800	9-23	1.040	9-23	1.070	9-23	1.270	9-22	1.450	9-19	2.680
	1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: 0.3% caliche roads; 99.7% rangeland. Rangeland fair condition to moderately overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, OSDA Misc. Pub. 1262, p. 70.2-5. Precipitation data by Thiessen method using rain gages 1 and 1-A. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED S-9
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.30	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.06	1.50	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.07	0.0	0.07	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.61	0.0	0.0	0.33	0.0	0.02	0.40	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.33	1.09	0.77	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	
10	0.0	0.11	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.05	0.51	0.0	0.79	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.02	0.0	0.23	0.11	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
14	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	
17	0.0	0.16	0.0	0.0	0.0	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.13	0.29	0.0	1.00	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
19	0.36	0.0	0.93	0.06	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.64	0.0	0.47	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.69	0.0	0.0	
28	0.08	0.08	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.83	1.23	2.54	3.64	1.86	1.49	3.37	0.70	2.47	0.28	2.87	0.0	0.0	
STA AV	0.91	1.22	0.86	2.23	2.94	1.66	1.44	1.14	4.61	1.19	1.24	0.60	0.60	

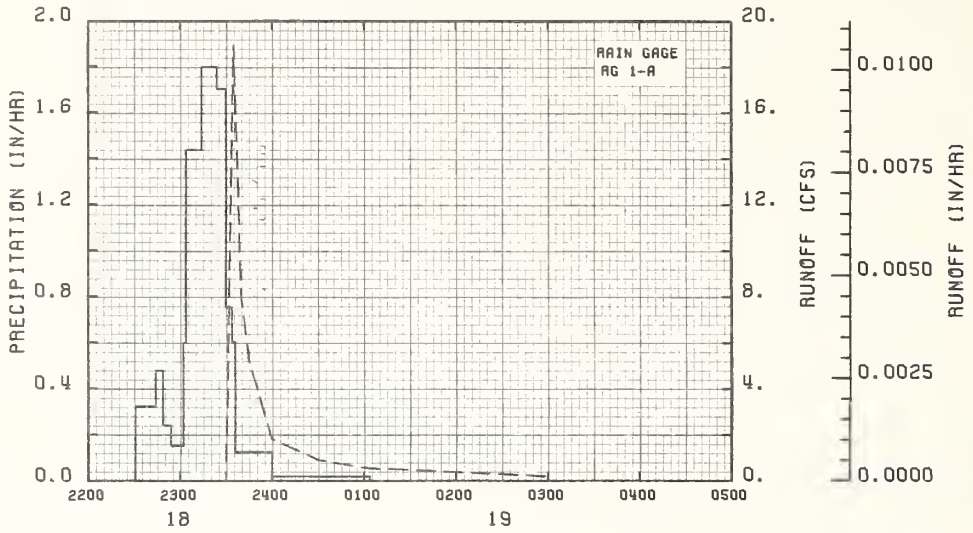
NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14, (70.001). Precipitation values are Thiessen weighted average of rain gages 1 and 1-A. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

SONORA, TEXAS WATERSHED S-9												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.077	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.118	0.201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.037	0.0	0.453	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0012	0.0	0.0184	0.0136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.001	0.0	0.008	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.000	0.0	0.001	0.001	0.009	0.017	0.0	0.0	0.386	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013417. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

SONORA, TEXAS WATERSHED S-9												
1968 SELECTED RUNOFF EVENT												
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 18 - 19, 1968												
4-18	RG 1-A 0.0	0.0	4-18	2231	1-A 0.0	0.0	4-18	2330	0.0	0.0		
				2244	0.3231	0.07		2335	18.96	0.0009		
				2249	0.4799	0.11		2340	8.05	0.0013		
				2254	0.2400	0.13		2345	5.19	0.0015		
				2302	0.1500	0.15		2400	1.79	0.0017		
WATERSHED CONDITIONS:												
0.3% caliche roads:				2304	0.5999	0.17	4-19	30	0.89	0.0020		
99.7% rangeland.				2314	1.4401	0.41		100	0.54	0.0021		
Rangeland fair condition				2324	1.7999	0.71		300	0.18	0.0023		
to moderately overgrazed				2330	1.6999	0.88						
during a year depending				2334	0.7500	0.93						
on climatic conditions												
and stocking rates.				2336	0.6001	0.95						
				2400	0.1250	1.00						
			4-19	104	0.0187	1.02						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.



EVENT OF APRIL 18 - 19, 1968
SONORA, TEXAS WATERSHED S-9

SONORA, TEXAS WATERSHED S-10

LOCATION: Sutton County, Texas; gauging station on flood detention reservoir, 6 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 5392.00 acres 8.42 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-10
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.77	1.26	2.15	4.03	3.36	1.74	1.72	0.33	1.56	0.32	2.58	0.0	20.81
	O	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.063
STA AV	P	0.92	1.17	0.85	2.44	3.15	1.77	1.24	1.18	4.17	1.07	1.46	0.59	20.01
	O	0.0	0.0	0.0	0.0	0.035	0.017	0.0	0.0	0.274	0.0	0.0	0.0	0.326

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1968	5-9	0.026	5-9	0.016	5-9	0.023	5-9	0.030	5-9	0.040	5-9	0.057	5-9	0.062	5-4	0.063

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
9-23 1964	0.810	9-23 1964	0.720	9-23 1964	0.950	9-23 1964	1.110	9-23 1964	1.150	9-23 1964	1.230	9-23 1964	1.520	9-19 1964	1.930

NOTES: Watershed conditions: Caliche roads - 0.4%; rangeland - 99.6%. Range condition poor to fair, with moderate to severe overgrazing during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, DSOA Misc. Pub. 1262, p. 70.3-6. Thiessen weighted rainfall using rain gauges 1, 1-A, 2, 3, 4, 5, 6, and 7. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED S-10
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.34	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.03	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.56	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.01	0.0	0.06	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	1.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.58	0.0	0.0	0.37	0.0	0.03	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.39	1.21	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0
10	0.0	0.11	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.02	0.55	0.0	0.80	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.02	0.0	0.17	0.07	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0
14	0.0	0.30	0.0	0.0	0.0	0.0	0.02	0.0	0.66	0.0	0.02	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0
17	0.0	0.25	0.0	0.0	0.0	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.12	0.31	0.0	1.29	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0
19	0.33	0.0	0.49	0.03	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.67	0.0	0.33	0.10	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.65	0.0	0.0	0.0
28	0.05	0.06	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.77	1.26	2.15	4.03	3.36	1.74	1.72	0.33	1.56	0.32	2.58	0.0		
STA AV	0.92	1.17	0.85	2.44	3.15	1.77	1.24	1.18	4.17	1.07	1.46	0.59		

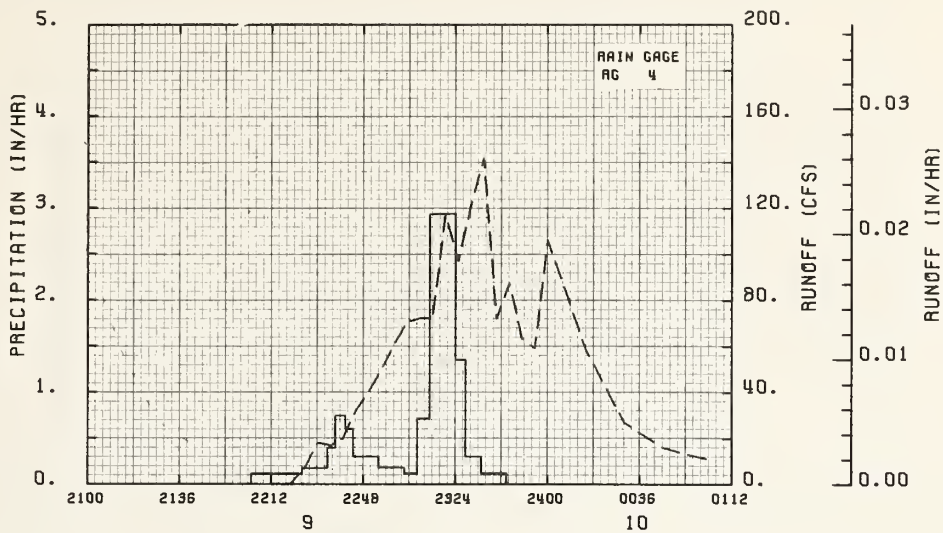
NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation values are Thiessen weighted average of rain gauges 1, 1-A, 2, 3, 4, 5, 6, and 7. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED S-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	4.603	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	8.552	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	1.133	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.4609	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.035	0.017	0.0	0.0	0.274	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.004414. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED S-10												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 9 - 10, 1968												
5-9	RG 4 0.0	0.0	5-9	RG 4 2204	0.0	0.0	5-9	2220	1.09	0.0		
				2224	0.1200	0.04		2225	7.07	0.0001		
				2234	0.1800	0.07		2230	17.94	0.0004		
				2237	0.4000	0.09		2235	16.85	0.0007		
				2241	0.7500	0.14		2240	20.12	0.0010		
				2244	0.6000	0.17		2245	32.08	0.0015		
				2254	0.3000	0.22		2250	40.23	0.0021		
				2304	0.1800	0.25		2255	50.02	0.0029		
				2309	0.1200	0.26		2300	60.89	0.0038		
				2314	0.7200	0.32		2305	70.68	0.0049		
				2324	2.9399	0.81		2310	72.31	0.0060		
				2328	1.3500	0.90		2315	71.77	0.0071		
				2334	0.3000	0.93		2320	117.44	0.0089		
				2344	0.1200	0.95		2325	96.78	0.0104		
								2330	121.24	0.0123		
								2335	141.90	0.0145		
								2340	71.77	0.0156		
								2345	87.53	0.0169		
								2350	63.07	0.0179		
								2355	58.72	0.0188		
								2400	106.02	0.0204		
								5-10	15	58.18	0.0231	
									30	26.64	0.0243	
									45	15.77	0.0250	
									100	11.42	0.0255	
									115	8.70	0.0259	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000184.



EVENT OF MAY 9 - 10, 1968
SONORA, TEXAS WATERSHED S-10

SONORA, TEXAS WATERSHED S-11

LOCATION: Sutton County, Texas; gauging station on flood detention reservoir, 4 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 10787.00 acres 16.85 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-11
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.81	1.38	1.99	4.53	4.18	1.53	2.38	0.37	1.23	0.31	2.71	0.0	22.43
	O	0.0	0.0	0.001	0.075	0.303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.380
STA AV	P	0.94	1.18	0.81	2.68	3.53	1.68	1.61	1.24	4.08	1.12	1.42	0.61	20.90
	O	0.0	0.0	0.000	0.028	0.138	0.009	0.0	0.0	0.184	0.0	0.0	0.0	0.358

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1968	Date	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
	5-10	0.137	5-10	0.093	5-10	0.125	5-9	0.152	5-9	0.159	5-9	0.172	5-9	0.217	5-3	0.303	

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
9-23 1964	0.390	9-23 1964	0.310	9-23 1964	0.550	9-23 1964	0.770	9-23 1964	0.780	9-23 1964	0.780	9-23 1964	0.910	9-19 1964	1.250

NOTES: Watershed conditions: Caliche roads - 0.4%; rangeland - 99.6%. Range condition poor to fair; moderately to severely overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.4-8. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968	DAILY PRECIPITATION (inches)												SONORA, TEXAS WATERSHED S-11
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.39	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.01	0.31	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.00	0.80	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
5	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	1.99	0.0	0.24	0.0	0.0	0.0	0.0	0.0	
8	0.59	0.0	0.0	0.46	0.0	0.02	0.37	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.31	1.41	1.18	0.0	0.0	0.0	0.0	0.02	0.68	0.0	
10	0.0	0.12	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.02	0.58	0.0	0.69	0.0	0.0	0.20	0.0	0.0	0.0	0.0	
12	0.0	0.00	0.0	0.18	0.07	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
13	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.0	0.0	0.0	
14	0.0	0.27	0.0	0.0	0.0	0.0	0.02	0.0	0.72	0.0	0.00	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	
17	0.0	0.33	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.11	0.35	0.0	1.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.33	0.0	0.42	0.03	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	
20	0.69	0.0	0.34	0.11	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.38	0.0	
27	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.02	0.0	0.0	0.73	0.0	
28	0.06	0.07	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	
TOTAL	1.81	1.38	1.99	4.53	4.18	1.53	2.38	0.37	1.23	0.31	2.71	0.0	
STA AV	0.94	1.18	0.81	2.68	3.53	1.68	1.61	1.24	4.08	1.12	1.42	0.61	

NOTES: For daily air temperatures, in the vicinity, see table for Watershed #14, p. 70.001. Precipitation values are Thiessen weighted average of rain gauges 5, 6, 7, 8, 9, 10, and 11. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHEO S-11												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	38.707	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	13.650	0.181	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	78.139	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	20.349	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	10.582	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.650	9.767	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0210	1.1333	4.4315	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.001	0.075	0.303	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.000	0.028	0.138	0.009	0.0	0.0	0.184	0.0	0.0	0.0

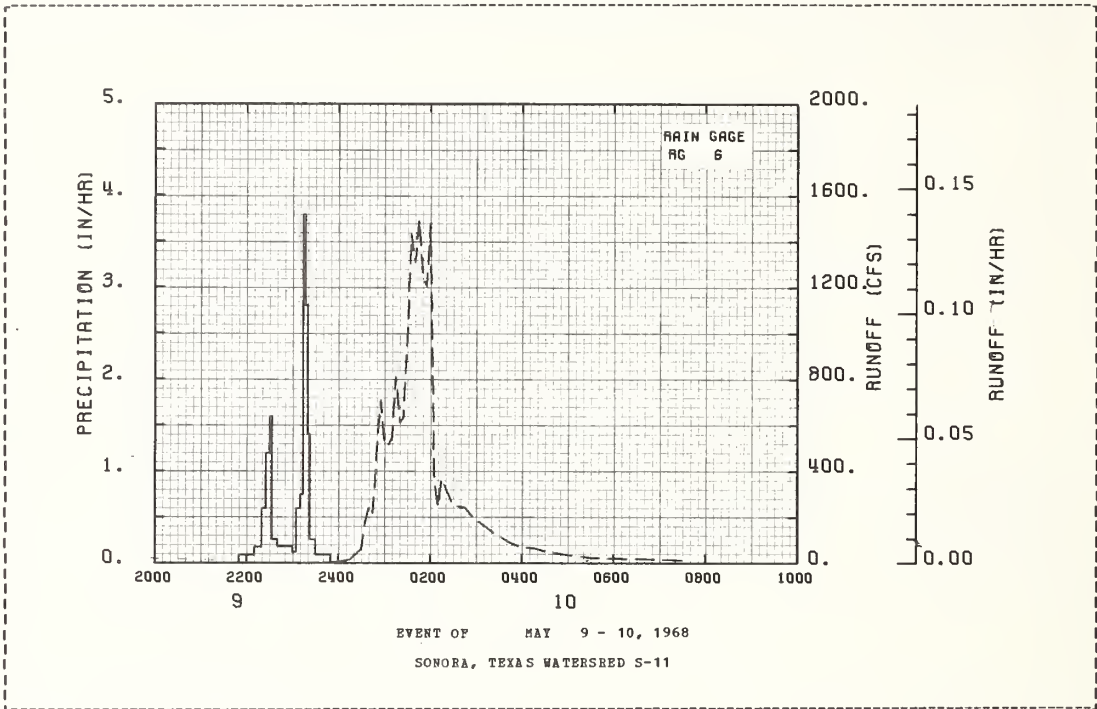
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002206. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHEO S-11											
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 9 - 10, 1968											
5-9	RG 0.0	0.0	5-9	RG 2150	0.0	0.0	5-9	2330	0.0	0.0	
				2210	0.0900	0.03		2400	8.70	0.0004	
				2220	0.1800	0.06	5-10	15	18.49	0.0008	
				2225	0.6000	0.11		30	64.17	0.0023	
				2230	1.1999	0.21		35	178.38	0.0037	
WATERSHED CONDITIONS:											
Caliche roads - 0.4%;											
rangeland - 99.6%. Range											
condition poor to fair;											
moderately to severely											
overgrazed during a year											
depending on climatic											
conditions and stocking											
rates.											
				2233	1.6004	0.29		40	252.34	0.0056	
				2240	0.2571	0.32		45	217.54	0.0073	
				2300	0.1800	0.38		50	474.23	0.0109	
				2305	0.1200	0.39		55	710.26	0.0163	
				2310	0.6000	0.44		100	532.97	0.0204	
				2314	0.7500	0.49		105	509.04	0.0243	
				2317	3.7998	0.68		110	552.55	0.0285	
				2320	2.7998	0.82		115	812.50	0.0347	
				2323	1.3999	0.89		120	610.19	0.0394	
				2330	0.2571	0.92		125	637.39	0.0443	
				2350	0.0900	0.95		130	964.78	0.0517	
								135	1432.49	0.0627	
								140	1306.31	0.0727	
								145	1495.57	0.0842	
								150	1235.61	0.0937	
								155	1202.98	0.1029	
								200	1477.08	0.1142	
								205	383.95	0.1171	
								210	244.73	0.1190	
								215	366.55	0.1218	
								230	249.08	0.1275	
								245	240.38	0.1330	
								300	185.99	0.1373	
								315	149.01	0.1407	
								330	115.30	0.1434	
								345	95.93	0.1454	
								400	67.44	0.1470	
								415	63.09	0.1485	
								430	48.95	0.1496	
								500	33.72	0.1511	

NOTES: To convert runoff in CES to IN/HR, multiply by 0.000092.

1968 SELECTED RUNOFF EVENT			SONORA, TEXAS WATERSHED S-11									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
			EVENT OF MAY 9 - 10, 1968 (CONTINUED)									
									5-10	530	22.84	0.1521
										600	19.58	0.1530
										730	11.96	0.1546

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000092.



SONORA, TEXAS WATERSHED S-12

LOCATION: Sutton County, Texas; gauging station on flood detention reservoir, 2 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 2801.00 acres 4.38 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-12															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.67	1.35	1.80	4.68	3.87	1.27	2.42	0.89	1.36	0.34	2.56	0.0	22.19	P	0.89	1.19	0.77	2.73	3.53	1.46	1.71	1.25	4.03	1.14	1.39	0.58	20.66	
	O	0.0	0.0	0.0	0.344	0.479	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.826	O	0.0	0.0	0.0	0.083	0.266	0.000	0.017	0.0	0.231	0.0	0.0	0.0	0.598	
STATION AVERAGE														STATION AVERAGE															
STA	P	0.89	1.19	0.77	2.73	3.53	1.46	1.71	1.25	4.03	1.14	1.39	0.58	20.66	STA	P	0.89	1.19	0.77	2.73	3.53	1.46	1.71	1.25	4.03	1.14	1.39	0.58	20.66
	O	0.0	0.0	0.0	0.083	0.266	0.000	0.017	0.0	0.231	0.0	0.0	0.0	0.598		O	0.0	0.0	0.0	0.083	0.266	0.000	0.017	0.0	0.231	0.0	0.0	0.0	0.598

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	5-9	0.279	5-9	0.212	5-9	0.285	5-9	0.342	5-9	0.357	5-9	0.387	5-9	0.427	5-3	0.479
MAXIMUMS FOR PERIOD OF RECORD																
	9-23 1964	1.200	9-23 1964	0.790	9-23 1964	1.000	9-23 1964	1.080	9-23 1964	1.090	9-23 1964	1.090	9-23 1964	1.150	9-19 1964	1.620

NOTES: Watershed conditions: Paved roads - 0.2% of the area; rangeland - 99.8%. Range conditions poor to fair, with moderate to severe overgrazing during a year depending on climatic conditions and stocking rates. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.5-7. Thiessen weighted rainfall using rain gauges 8, 10, 11, 12, and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, approximately 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED S-12													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1	0.0	0.0	0.0	0.38	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.01	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.01	0.58	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.07	0.0	0.04	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	1.82	0.0	0.30	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.63	0.0	0.0	0.34	0.0	0.03	0.60	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.23	1.81	1.40	0.0	0.0	0.0	0.0	0.0	0.66	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.11	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.02	0.46	0.0	0.42	0.0	0.0	0.17	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.20	0.10	0.0	0.0	0.07	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.08	0.05	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.25	0.0	0.0	0.0	0.0	0.00	0.0	0.64	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.35	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.03	0.34	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.31	0.0	0.48	0.03	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.59	0.0	0.34	0.12	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.35	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.37	0.0	0.0	0.61	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.08	0.07	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TOTAL	1.67	1.35	1.80	4.68	3.87	1.27	2.42	0.89	1.36	0.34	2.56	0.0	
														STA AV	0.89	1.19	0.77	2.73	3.53	1.46	1.71	1.25	4.03	1.14	1.39	0.58	

NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation values are Thiessen weighted average of rain gauges 8, 10, 11, 12, and 13. Records began May 1961, part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONDRRA, TEXAS WATERSHED S-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.518	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	5.237	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	27.073	12.495	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	2.259	33.680	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	4.469	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.247	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.806	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	10.397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	1.3512	1.8193	0.0082	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.344	0.479	0.002	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.083	0.266	0.000	0.017	0.0	0.231	0.0	0.0	0.0

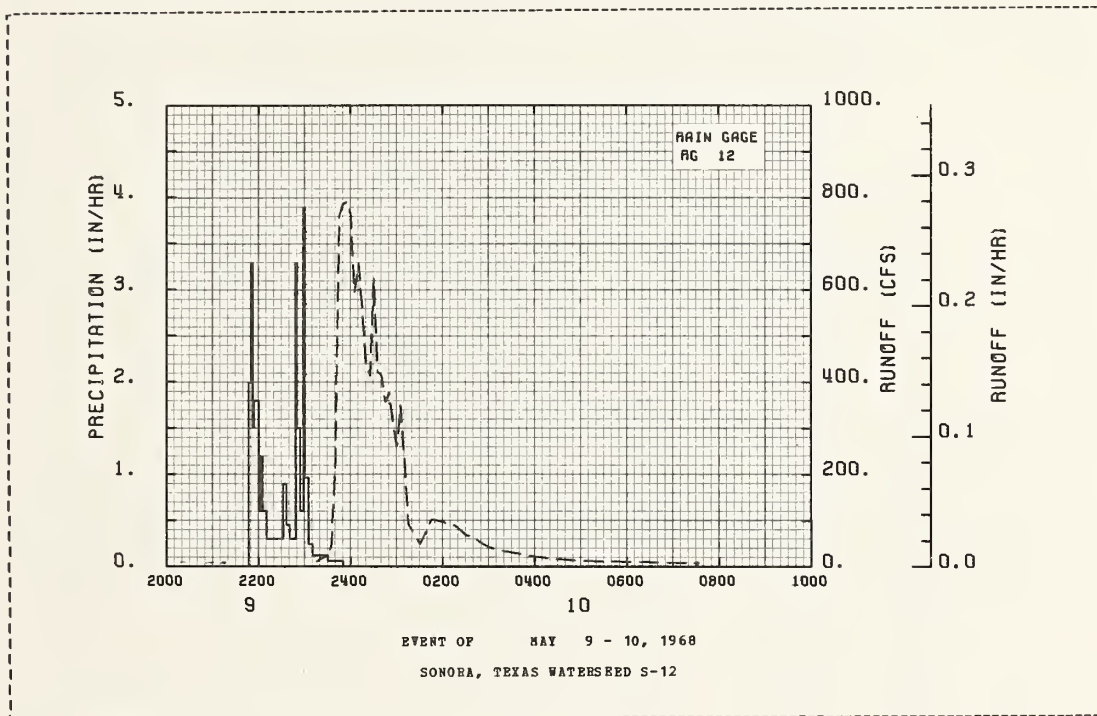
NDTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.008498. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 SELECTED RONDFF EVENT SONDRRA, TEXAS WATERSHED S-12												
ANTECEDENT			CDNOITDWS			RAINFALL			RONOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 9 - 10, 1968												
5- 9	RG 12 0.0	0.004	5- 9	RG 12 2147	0.0	0.0	5- 9	2315	11.58	0.0		
				2150	1.9999	0.10		2330	26.55	0.0023		
				2152	3.3008	0.21		2335	49.43	0.0038		
				2154	1.4997	0.26		2340	233.57	0.0107		
				2200	1.7999	0.44		2345	760.31	0.0332		
				2202	0.6001	0.46		2350	786.58	0.0564		
				2205	1.1999	0.52		2355	790.53	0.0797		
				2210	0.6000	0.57		2400	761.72	0.1022		
				2220	0.3000	0.62	5-10	5	593.68	0.1197		
				2232	0.3000	0.68		10	656.94	0.1391		
				2236	0.9000	0.74		15	558.09	0.1556		
				2240	0.4500	0.77		20	430.71	0.1683		
				2248	0.3000	0.81		25	413.48	0.1805		
				2250	3.2993	0.92		30	624.46	0.1990		
				2254	1.5000	1.02		35	421.11	0.2114		
				2258	0.6000	1.06		40	412.35	0.2236		
				2300	3.8991	1.19		45	355.87	0.2341		
				2305	0.9601	1.27		50	377.05	0.2452		
				2310	0.2400	1.29		55	308.70	0.2543		
				2330	0.1200	1.33		100	261.82	0.2620		
				2350	0.0600	1.35		105	350.78	0.2723		
								110	233.01	0.2792		
								115	91.79	0.2819		
								130	49.43	0.2863		
								145	102.52	0.2954		
								200	95.75	0.3039		
								215	88.97	0.3118		
								230	68.35	0.3178		
								245	56.49	0.3228		
								300	41.24	0.3265		
								315	35.02	0.3296		
								330	30.22	0.3323		
								400	21.18	0.3361		
								430	15.82	0.3389		
								500	12.43	0.3411		

NDTES: To convert runoff in CFS to IN/HR, multiply by 0.000354.

1968 SELECTED RUNOFF EVENT			SONORA, TEXAS WATERSHED S-12								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Mainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
			EVENT OF MAY 9 - 10, 1968 (CONTINUED)								
									730 7.06 0.3473		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000354.



SONORA, TEXAS WATERSHED S-13

LOCATION: Sutton County, Texas: gauging station on flood detention reservoir, 0.5 mi. SE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 686.00 acres 1.07 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED S-13	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.65	1.45	2.21	4.52	3.02	1.27	2.55	0.62	1.46	0.32	2.87	0.0	21.93
	O	0.0	0.0	0.006	0.355	0.120	0.0	0.003	0.0	0.002	0.0	0.0	0.0	0.486
STA AV	P	0.96	1.29	0.79	2.68	3.24	1.48	1.42	1.28	3.81	1.06	1.43	0.62	20.04
	O	0.0	0.0	0.001	0.102	0.094	0.0	0.000	0.0	0.137	0.0	0.0	0.0	0.335

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge Date	1 Hour				2 Hours				Maximum Volume for Selected Time Interval				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	4-9	0.717	4-9	0.252	4-9	0.298	4-9	0.325	4-9	0.329	4-9	0.329	4-9	0.329

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	9-23 1964	0.770	9-23 1964	0.460	9-23 1964	0.600	9-23 1964	0.680	9-23 1964	0.680	9-23 1964	0.680	9-19 1964	0.850

NOTES: Watershed conditions: Paved roads - 1.5% of the area, rangeland - 98.5%. Range in poor to fair condition, severely overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.6-7. Precipitation data by Thiessen method using rain gauges 12 and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED S-13	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.37	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.07	0.61	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
5	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	1.12	0.0	0.40	0.0	0.0	0.0	0.0	0.0		
8	0.61	0.0	0.0	0.24	0.0	0.03	0.27	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.16	2.00	1.18	0.0	0.0	0.0	0.0	0.0	1.02	0.0		
10	0.0	0.11	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.03	0.42	0.0	0.41	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.24	0.21	0.0	0.0	0.07	0.0	0.0	0.0	0.0		
13	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.41	0.03	0.0	0.0	0.0		
14	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0		
17	0.0	0.39	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.02	0.38	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.29	0.0	0.76	0.03	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0		
20	0.64	0.0	0.53	0.15	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.34	0.0		
27	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.58	0.0		
28	0.07	0.07	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0		
TOTAL	1.65	1.45	2.21	4.52	3.02	1.27	2.55	0.62	1.46	0.32	2.87	0.0		
STA AV	0.96	1.29	0.79	2.68	3.24	1.48	1.42	1.28	3.81	1.06	1.43	0.62		

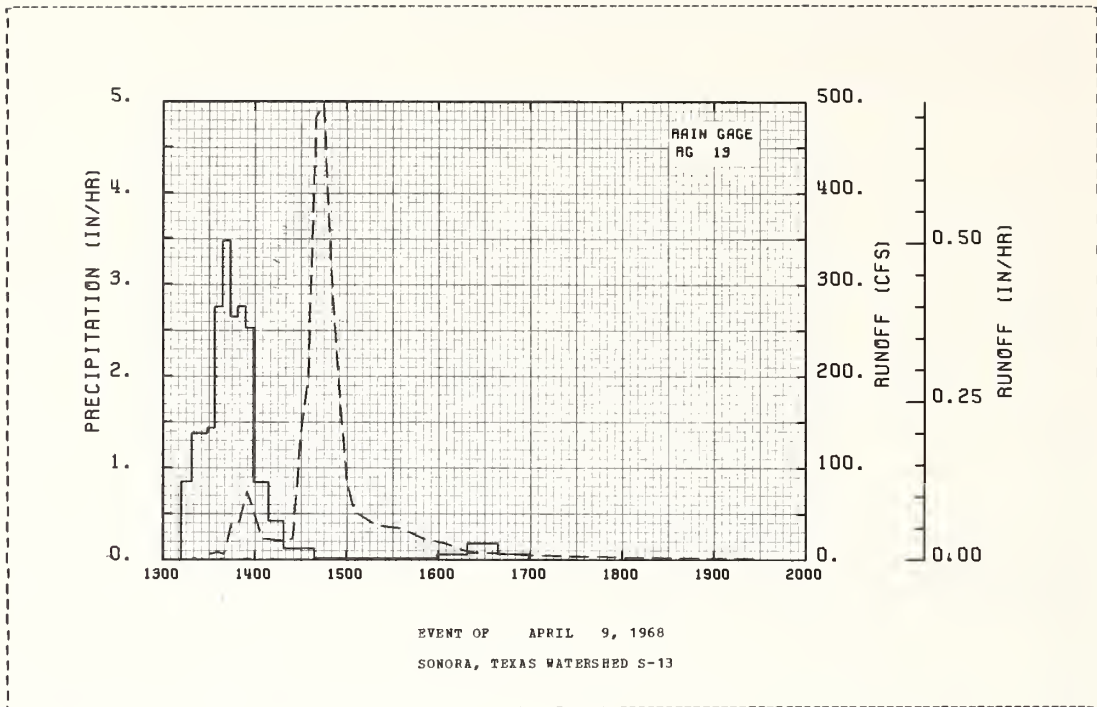
NOTES: For daily air temperatures, in the vicinity, see table for W-14 p. 70.001. Precipitation values are Thiessen weighted average of rain gauges 12 and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED S-13												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.111	0.0	0.006	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.490	0.164	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	1.283	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	1.816	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.008	0.117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.029	0.635	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0057	0.3414	0.1112	0.0	0.0026	0.0	0.0016	0.0	0.0	0.0
INCHES	0.0	0.0	0.006	0.355	0.120	0.0	0.003	0.0	0.002	0.0	0.0	0.0
STA AV	0.0	0.0	0.001	0.102	0.094	0.0	0.000	0.0	0.137	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.034696. Records began in May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED S-13												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 9, 1968												
4-9	RG 13	0.0	4-9	RG 13	0.0	0.0	4-9	1320	0.0	0.0		
					0.8571	0.10		1325	0.28	0.0		
					1.3800	0.33		1330	6.71	0.0008		
					1.4400	0.45		1335	8.51	0.0018		
					2.7600	0.68		1340	5.81	0.0025		
					3.4800	0.97		1345	41.30	0.0075		
					2.6400	1.19		1350	42.13	0.0126		
					2.7600	1.42		1355	74.71	0.0216		
					2.5200	1.63		1405	22.55	0.0270		
					0.8400	1.77		1420	20.27	0.0343		
					0.4200	1.84		1425	23.73	0.0372		
					0.1200	1.88		1430	136.20	0.0536		
					0.0150	1.90		1435	198.87	0.0775		
					0.0600	1.92		1440	482.82	0.1356		
					0.1800	1.98		1445	496.58	0.1955		
					0.0600	2.00		1450	312.45	0.2331		
								1455	191.12	0.2561		
								1500	85.29	0.2664		
								1505	51.60	0.2726		
								1520	36.80	0.2859		
								1535	33.89	0.2981		
								1550	22.55	0.3063		
								1605	17.22	0.3125		
								1620	7.68	0.3153		
								1635	6.78	0.3177		
								1705	4.43	0.3209		
								1800	2.08	0.3237		
								1930	0.62	0.3251		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001446.



SONORA, TEXAS WATERSHED W-1

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 10.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-1			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	2.44	2.30	1.41	3.67	1.19	2.68	2.90	0.78	1.75	0.06	2.92	0.0	22.10			
	O	0.0	0.029	0.0	0.006	0.001	0.001	0.014	0.0	0.0	0.0	0.0	0.0	0.052			
STA AV	P	1.57	1.68	0.67	2.85	2.76	1.74	2.56	2.24	3.83	1.17	1.31	0.56	22.96			
	O	0.136	0.006	0.0	0.313	0.192	0.000	0.019	0.048	0.312	0.0	0.0	0.0	1.026			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1968	Date	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Rate	Vol.	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days					
	7-3	0.016		7-3	0.011	7-3	0.014	2-17	0.021	2-17	0.023	2-17	0.024	2-17	0.029	2-11	0.029
MAXIMUMS FOR PERIOD OF RECORD																	
	4-30	1.680		4-30	0.990	4-30	1.180	4-30	1.280	4-30	1.300	4-30	1.300	4-29	1.490	9-21	1.570
	1966			1966		1966		1966		1966		1966		1966		1964	

NOTES: Watershed conditions: 100% rangeland; fair level of management; stocking rate, 30-35 animal units per section. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, OSOA Misc. Pub. 1262, p. 70.7-7. Precipitation data from rain gage 15. Precipitation and runoff records began October 1963; part-year amounts not included in station averages. For long-time precipitation records, see U.S. Weather records at the Texas Agricultural Experiment Station, Substation No. 14. Watershed is on substation property.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED W-1
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	1.17	0.0	0.50	0.0	0.0	0.47	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.29	1.57	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.09	0.0	0.0	0.0	0.03	0.14	0.80	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.14	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.03	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.55	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.23	0.0	0.0	
9	0.0	0.0	0.05	0.90	0.80	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	
10	0.0	0.16	0.20	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.03	0.38	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.07	0.0	0.45	0.0	0.0	0.04	0.17	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.07	0.22	0.0	0.0	0.0	0.0	
14	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
17	0.0	0.94	0.0	0.0	0.0	1.73	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
18	0.42	0.26	0.0	0.31	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	
19	0.35	0.0	0.0	0.07	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.97	0.0	0.60	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.02	0.0	0.0	0.81	0.0	0.0	
28	0.0	0.08	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.44	2.30	1.41	3.67	1.19	2.68	2.90	0.78	1.75	0.06	2.92	0.0	0.0	
STA AV	1.57	1.68	0.67	2.85	2.76	1.74	2.56	2.24	3.83	1.17	1.31	0.56	0.0	

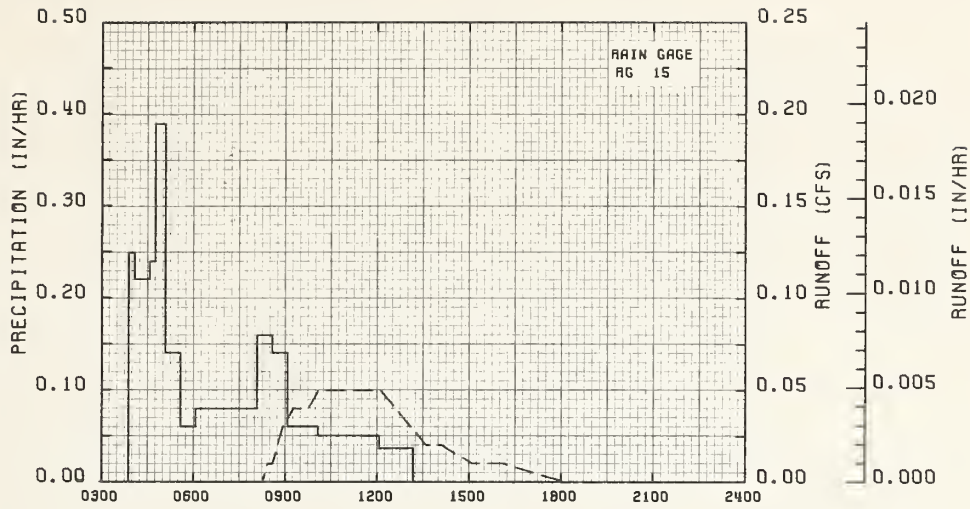
NOTES: For daily air temperatures, in the vicinity, see table for W-14, p. 70.001. Precipitation data obtained from rain gage 15. Records began October 1963; part-year amounts not included in averages. STA AV based on 4 yr record period

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.010	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0004	0.0	0.0001	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.029	0.0	0.006	0.001	0.001	0.014	0.0	0.0	0.0	0.0	0.0
STA AV	0.136	0.006	0.0	0.313	0.192	0.000	0.019	0.048	0.312	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CPS to IN/OAY, multiply by 2.333480. Records began October 1963; part-year amounts not included in averages. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED W-1												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 17, 1968												
2-17	RG 15 0.0	0.0	2-17	RG 15 352	0.0	0.0	2-17	813	0.0	0.0		
				404	0.2500	0.05		815	0.0	0.0		
				434	0.2200	0.16		825	0.01	0.0001		
				444	0.2400	0.20		835	0.01	0.0003		
				504	0.3900	0.33		845	0.02	0.0006		
				534	0.1400	0.40		855	0.03	0.0011		
				604	0.0600	0.43		915	0.04	0.0022		
				704	0.0800	0.51		945	0.04	0.0039		
				804	0.0800	0.59		1005	0.05	0.0052		
				834	0.1600	0.67		1115	0.05	0.0105		
				904	0.1400	0.74		1135	0.05	0.0121		
				1004	0.0600	0.80		1205	0.05	0.0148		
				1104	0.0500	0.85		1235	0.04	0.0170		
				1204	0.0500	0.90		1305	0.03	0.0187		
				1310	0.0364	0.94		1335	0.02	0.0200		
								1405	0.02	0.0208		
								1505	0.01	0.0219		
								1605	0.01	0.0225		
								1805	0.0	0.0233		
								2005	0.0	0.0237		
								2300	0.0	0.0239		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.097228.



EVENT OF FEBRUARY 17, 1968
SONORA, TEXAS WATERSHED W-1

SONORA, TEXAS WATERSHED W-2

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 8.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-2
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.36	2.15	1.36	3.47	1.20	2.04	2.71	0.97	1.60	0.06	2.52	0.0	20.44
	O	0.0	0.010	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015
STA AV	P	1.04	1.55	0.60	2.88	2.69	1.71	2.37	2.12	2.73	0.98	1.43	0.48	20.57
	O	0.0	0.003	0.0	0.541	0.255	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.851

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
Date Rate		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.		Date Vol.	
1968		4-1	0.011	4-1	0.004	4-1	0.004	2-17	0.008	2-17	0.010	2-16	0.010	2-15	0.010	2-9	0.010

MAXIMUMS FOR PERIOD OF RECORD																	
		4-30	1.550	4-30	1.250	4-30	1.710	4-30	1.960	4-30	2.000	4-30	2.000	4-29	2.140	4-24	2.160
		1966		1966		1966		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: 100% rangeland; low good level of management; stocking rate, 32 animal units per section. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.8-6. Precipitation data from rain gage 16. Precipitation and runoff records began January 1965. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14. Watershed is on substation property.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED W-2
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	1.17	0.0	0.42	0.0	0.0	0.50	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.16	1.12	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.05	0.0	0.0	0.0	0.02	0.06	1.05	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.25	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.59	0.0	0.03	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.23	0.0	0.0	
9	0.0	0.0	0.0	0.77	0.73	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	
10	0.0	0.17	0.19	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.01	0.37	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.05	0.0	0.42	0.0	0.0	0.22	0.24	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.17	0.10	0.0	0.0	0.0	0.0	
14	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
17	0.0	0.90	0.0	0.0	0.0	1.38	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
18	0.41	0.27	0.0	0.27	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	
19	0.32	0.0	0.06	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.92	0.0	0.54	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.08	0.0	0.0	0.80	0.0	0.0	
28	0.0	0.06	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.36	2.15	1.36	3.47	1.20	2.04	2.71	0.97	1.60	0.06	2.52	0.0	20.44	
STA AV	1.04	1.55	0.60	2.88	2.69	1.71	2.37	2.12	2.73	0.98	1.43	0.48	20.57	

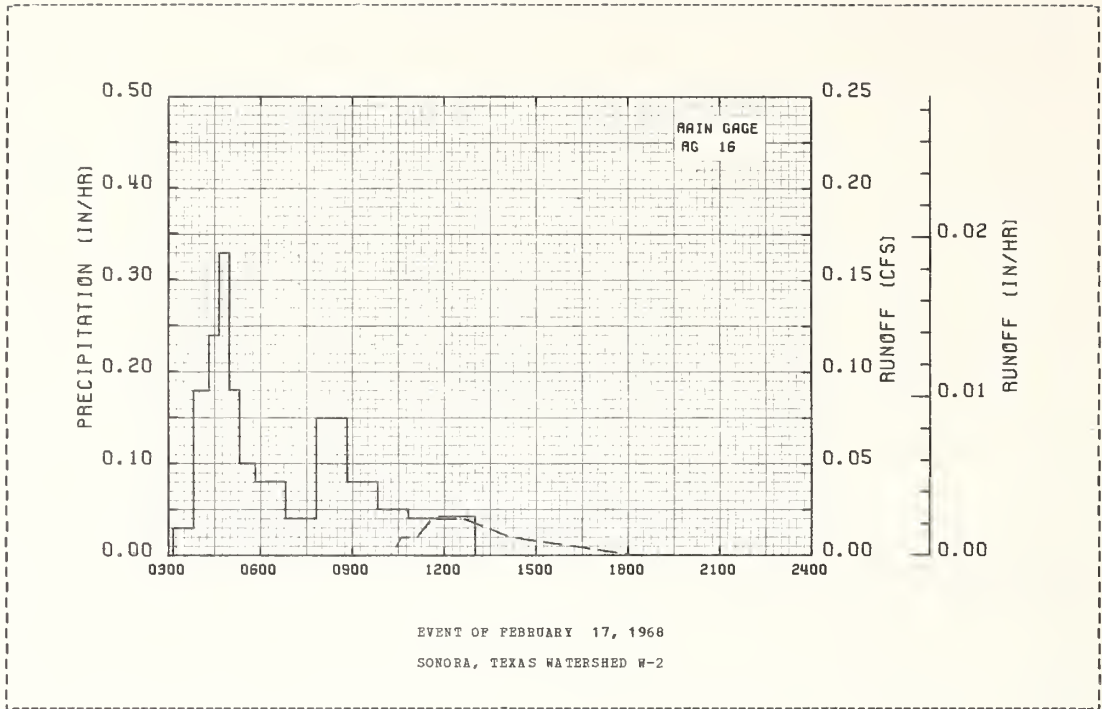
NOTES: For daily air temperatures, in the vicinity, see table for W-14, p. 70.001. Precipitation data obtained from rain gage 16. Records began January 1965. STA AV based on 3 yr record period.

1968		MEAN DAILY DISCHARGE (cfs)						SONORA, TEXAS WATERSHED W-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0001	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.010	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.0	0.003	0.0	0.541	0.255	0.0	0.0	0.052	0.0	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 2.767616. Records began January 1965. STA AV based on 3 yr record period.

1968		SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED W-2					
ANTECEDENT CONDITIONS			RAINFALL						RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF FEBRUARY 17, 1968													
2-17	RG 16 0.0	0.0	2-17	RG 16 309	0.0	0.0	2-17	1000	0.0	0.0			
				349	0.0300	0.02		1015	0.0	0.0			
				419	0.1800	0.11		1035	0.01	0.0002			
				439	0.2400	0.19		1045	0.01	0.0004			
				459	0.3300	0.30		1105	0.01	0.0009			
WATERSHED CONDITIONS:													
	100% rangeland; low good			519	0.1800	0.36		1135	0.02	0.0019			
	level of management;			549	0.1000	0.41		1235	0.02	0.0044			
	stocking rate, 32 animal			649	0.0800	0.49		1405	0.01	0.0071			
	units per section.			749	0.0400	0.53		1805	0.0	0.0100			
				849	0.1500	0.68		2000	0.0	0.0103			
				949	0.0800	0.76							
				1049	0.0500	0.81							
				1149	0.0400	0.85							
				1300	0.0423	0.90							

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.115317.



SONORA, TEXAS WATERSHED W-3

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 6.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED W-3	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.38	2.27	1.52	3.69	1.59	2.00	3.12	0.72	1.82	0.27	2.81	0.0	22.19	
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	P 1.03	1.64	0.72	3.08	3.17	1.76	2.08	2.37	2.74	1.25	1.44	0.52	21.78	
	O 0.0	0.0	0.0	0.315	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.330	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
1968	Maximum Discharge		Maximum Volume for Selected Time Interval											
	Date	Rate	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.					
1968	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0

MAXIMUMS FOR PERIOD OF RECORD														
	4-30	1.670	4-30	1.020	4-30	1.220	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260
	1966		1966		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: 100% rangeland; range in fair condition. Precipitation data from rain gage 17. No runoff occurred during 1968. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, OSDA Misc. Pub. 1262, p. 70.9-4. Precipitation and runoff records began January 1965. For long-time precipitation records, see O.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968	DAILY PRECIPITATION (inches)												SONORA, TEXAS WATERSHED W-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	1.03	0.0	0.96	0.0	0.0	0.48	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.44	0.94	0.0	0.0	0.0	0.0	0.0		
3	0.07	0.0	0.0	0.0	0.09	0.0	0.11	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.60	0.0	0.09	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.23	0.0		
9	0.0	0.0	0.0	0.90	1.04	0.0	0.0	0.0	0.0	0.23	0.57	0.0		
10	0.0	0.15	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.02	0.37	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.06	0.0	0.48	0.0	0.0	0.48	0.26	0.0	0.0	0.0	0.0		
13	0.0	0.54	0.0	0.0	0.0	0.0	0.20	0.03	0.33	0.0	0.0	0.0		
14	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.08	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.97	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.45	0.24	0.0	0.30	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0		
19	0.32	0.0	0.04	0.06	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0		
20	0.87	0.0	0.52	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.01	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0		
27	0.04	0.0	0.04	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.90	0.0		
28	0.0	0.05	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
TOTAL	2.38	2.27	1.52	3.69	1.59	2.00	3.12	0.72	1.82	0.27	2.81	0.0		
STA AV	1.03	1.64	0.72	3.08	3.17	1.76	2.08	2.37	2.74	1.25	1.44	0.52		

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, 70.001. Precipitation data obtained from rain gage 17. Records began January 1965. STA AV based on 3 yr record period.

SONORA, TEXAS WATERSHED W-5

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 7.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED W-5	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.29	2.23	1.38	3.63	1.27	1.78	2.90	0.55	1.50	0.28	2.54	0.0	20.35	
	O 0.0	0.0	0.0	0.003	0.003	0.004	0.003	0.0	0.0	0.0	0.0	0.0	0.013	
STA AV	P 1.13	1.29	0.91	3.93	1.82	1.59	2.52	2.85	2.91	1.11	1.54	0.35	21.96	
	O 0.0	0.0	0.0	0.388	0.021	0.001	0.001	0.040	0.0	0.0	0.0	0.0	0.451	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
Date	Maximum Discharge	Maximum Volume for Selected Time Interval										
	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days				
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	5-9 0.015	6-1 0.003	6-1 0.003	6-1 0.003	6-1 0.003	6-1 0.003	6-1 0.003	5-31 0.003	5-30 0.003	5-24 0.003	5-24 0.003	

MAXIMUMS FOR PERIOD OF RECORD													
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
4-30 1966	1.380	4-30 1966	0.790	4-30 1966	1.010	4-30 1966	1.080	4-30 1966	1.080	4-30 1966	1.080	4-29 1966	1.130
												4-24 1966	1.150

NOTES: Watershed conditions: Rangeland - 100%; range overgrazed, low poor condition. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.11-5. Precipitation data from rain gage 19. Precipitation and runoff records began January 1966. For long-time precipitation records, see O.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	1.14	0.0	1.00	0.0	0.0	0.39	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.22	0.75	0.0	0.0	0.0	0.0	0.0		
3	0.05	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.68	0.0	0.08	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.19	0.0		
9	0.0	0.0	0.0	0.77	0.75	0.0	0.0	0.0	0.0	0.24	0.59	0.0		
10	0.0	0.18	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.01	0.41	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.07	0.0	0.44	0.01	0.0	0.37	0.13	0.0	0.0	0.0	0.0		
13	0.0	0.49	0.0	0.0	0.0	0.0	0.02	0.0	0.27	0.0	0.0	0.0		
14	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	1.00	0.0	0.0	0.0	0.56	0.0	0.10	0.0	0.0	0.0	0.0		
18	0.41	0.25	0.0	0.30	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0		
19	0.30	0.0	0.05	0.06	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0		
20	0.78	0.0	0.47	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
27	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.69	0.0		
28	0.0	0.03	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
TOTAL	2.29	2.23	1.38	3.63	1.27	1.78	2.90	0.55	1.50	0.28	2.54	0.0		
STA AV	1.13	1.29	0.91	3.93	1.82	1.59	2.52	2.85	2.91	1.11	1.54	0.35		

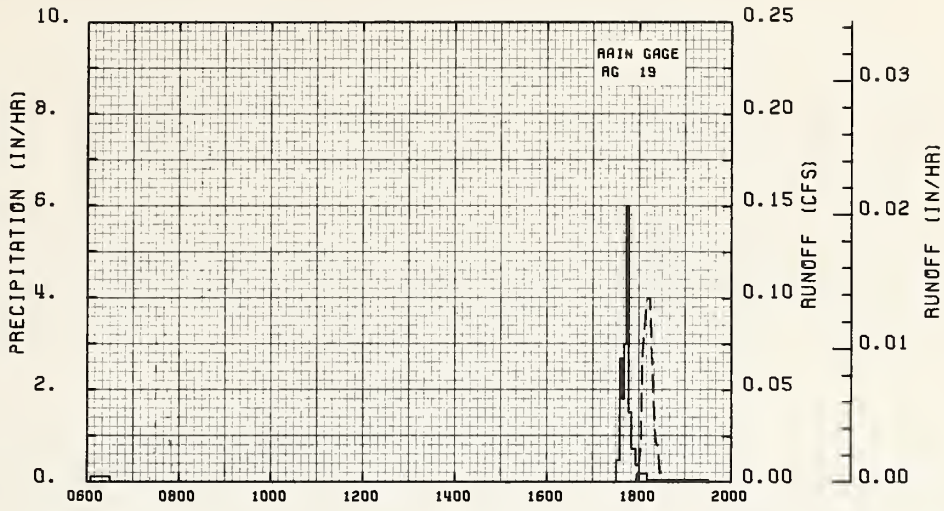
NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation data obtained from rain gage 19. Records began January 1966. STA AV based on 2 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.00	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.003	0.003	0.004	0.003	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.388	0.021	0.001	0.001	0.040	0.0	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 3.305764. Records began January 1966. STA AV based on 2 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED W-5												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 1, 1968												
6- 1	RG 19 0.0	0.0	6- 1	RG 19 605	0.0	0.0	6- 1	1754	0.0	0.0		
				630	0.1200	0.05		1756	0.0	0.0		
				1730	0.0	0.05		1758	0.01	0.0		
				1735	0.4800	0.09		1800	0.01	0.0		
				1737	2.7007	0.18		1802	0.02	0.0001		
				1740	1.7999	0.27		1804	0.07	0.0003		
				1743	2.9998	0.42		1806	0.08	0.0006		
				1746	5.9996	0.72		1810	0.10	0.0015		
				1750	1.5000	0.82		1814	0.10	0.0024		
				1755	0.7200	0.88		1816	0.07	0.0028		
				1800	0.3600	0.91		1818	0.05	0.0031		
				1810	0.1800	0.94		1820	0.03	0.0033		
				1930	0.0450	1.00		1822	0.02	0.0034		
								1824	0.02	0.0035		
								1826	0.01	0.0036		
								1828	0.0	0.0036		
								1833	0.0	0.0036		
								1900	0.0	0.0036		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.137740.



EVENT OF JUNE 1, 1968
SONORA, TEXAS WATERSHED W-5

SONORA, TEXAS WATERSHED W-6

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 6.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-6														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	2.35	2.34	1.49	3.76	1.39	1.93	3.23	0.66	1.61	0.47	2.94	0.0	22.17														
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
STA AV	P	1.23	1.35	1.00	4.23	1.78	1.56	2.57	3.05	3.14	1.21	1.88	0.33	23.33														
	O	0.0	0.0	0.0	0.307	0.013	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.333														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	1-1	0.0	1-1	0.0	1-1	0.0	1-1	0.0	1-1	0.0	1-1	0.0	1-1	0.0

MAXIMUMS FOR PERIOD OF RECORD														
1966	4-30	1.900	1966	4-30	0.840	1966	4-30	0.910	1966	4-30	0.910	1966	4-30	0.910

NOTES: Watershed conditions: Rangeland - 100%; range condition - poor. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, DSDA Misc. Pub. 1262, p. 70.12-4. Precipitation data from rain gage 20. No runoff occurred during 1968. Precipitation and runoff records began January 1966. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED W-6													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	1.09	0.0	0.83	0.0	0.0	0.38	0.0	0.0	0.0															
2	0.0	0.0	0.0	0.0	0.0	0.41	1.01	0.0	0.0	0.0	0.0	0.0															
3	0.07	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0															
4	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
5	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0															
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
7	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
8	0.60	0.0	0.08	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.21	0.0															
9	0.0	0.0	0.0	0.95	0.87	0.0	0.0	0.0	0.0	0.42	0.66	0.0															
10	0.0	0.18	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
11	0.0	0.01	0.37	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
12	0.0	0.08	0.0	0.50	0.0	0.0	0.37	0.23	0.0	0.0	0.0	0.0															
13	0.0	0.55	0.0	0.0	0.0	0.0	0.08	0.0	0.30	0.0	0.0	0.0															
14	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0															
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0															
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
17	0.0	1.02	0.0	0.0	0.0	0.69	0.0	0.09	0.0	0.0	0.0	0.0															
18	0.46	0.25	0.0	0.31	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0															
19	0.32	0.0	0.0	0.06	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0															
20	0.85	0.0	0.56	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.01	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0															
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0															
27	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.02	0.0	0.0	0.90	0.0															
28	0.0	0.04	0.01	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0															
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0															
TOTAL	2.35	2.34	1.49	3.76	1.39	1.93	3.23	0.66	1.61	0.47	2.94	0.0															
STA AV	1.23	1.35	1.00	4.23	1.78	1.56	2.57	3.05	3.14	1.21	1.88	0.33															

NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation data obtained from rain gage 20. Records began January 1966. STA AV based on 2 yr record period.

SONORA, TEXAS WATERSHED W-7

LOCATION: Sutton County, Texas; 10 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 12.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED W-7	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 1.66	1.17	2.16	3.55	1.87	1.81	3.25	0.83	1.97	0.32	2.52	0.0	21.11	
	Q 0.0	0.0	0.001	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	
STA AV	P 0.95	1.25	1.01	2.31	3.13	1.94	1.58	0.72	2.78	0.83	1.43	0.62	18.53	
	Q 0.0	0.0	0.000	0.038	0.150	0.188	0.0	0.0	0.015	0.0	0.0	0.0	0.391	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
Maximum Discharge Date	Maximum Volume for Selected Time Interval											
	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.					
1968 5-11 0.001	4-9 0.0	4-9 0.001	4-9 0.001	4-9 0.002	4-8 0.002	4-7 0.002	4-1 0.002					

MAXIMUMS FOR PERIOD OF RECORD												
6-2 0.910	6-2 0.570	6-2 0.660	6-2 0.660	6-2 0.660	6-2 0.730	6-2 0.730	6-2 0.730					
1967	1967	1967	1967	1967	1967	1967	1967					

NOTES: Watershed conditions: Rangeland - 100%; range condition - high fair. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.13-6. Precipitation data from rain gage 1. Precipitation and runoff records began January 1965. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED W-7	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.28	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.03	1.38	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0		
5	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.18	0.0	0.09	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.57	0.0	0.0	0.37	0.0	0.02	0.38	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.31	1.13	0.82	0.0	0.0	0.0	0.0	0.0	0.72	0.0		
10	0.0	0.10	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.04	0.46	0.0	0.76	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
12	0.0	0.02	0.0	0.18	0.12	0.0	0.0	0.25	0.0	0.0	0.0	0.0		
13	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0		
14	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0		
17	0.0	0.18	0.0	0.0	0.0	1.55	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.11	0.28	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.32	0.0	0.69	0.05	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0		
20	0.59	0.0	0.37	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.34	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.61	0.0		
28	0.06	0.06	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
TOTAL	1.66	1.17	2.16	3.55	1.87	1.81	3.25	0.83	1.97	0.32	2.52	0.0		
STA AV	0.95	1.25	1.01	2.31	3.13	1.94	1.58	0.72	2.78	0.83	1.43	0.62		

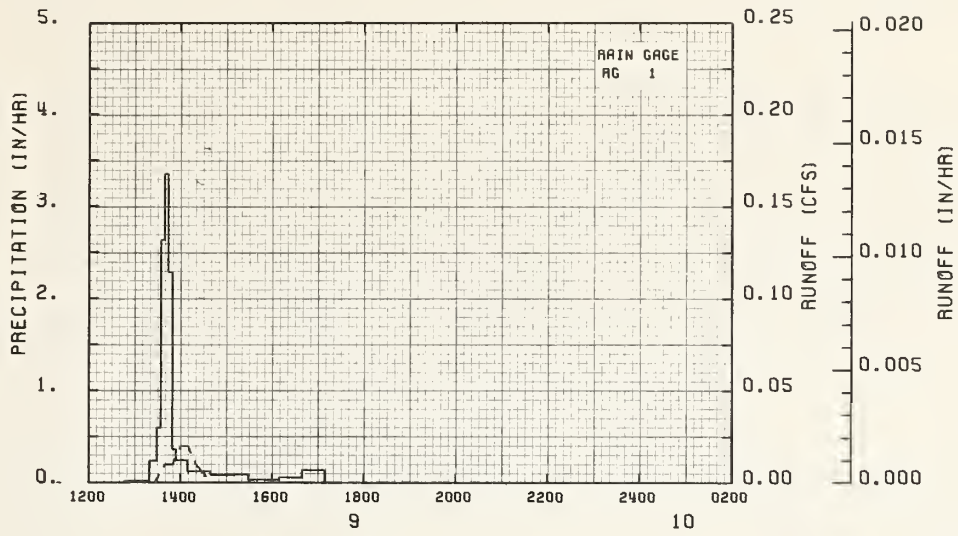
NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation data obtained from rain gage 1. Records began January 1965. STA AV based on 3 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.001	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.000	0.038	0.150	0.188	0.0	0.0	0.015	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.950943. Records began January 1965. STA AV based on 3 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED W-7											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 9, 1968											
4-9	RG 1 0.0	0.0	4-9	RG 1 1247	0.0	0.0	4-9	1326	0.0	0.0	
				1319	0.0187	0.01		1340	0.01	0.0001	
				1329	0.2400	0.05		1350	0.01	0.0002	
				1334	0.6000	0.10		1400	0.02	0.0004	
				1339	2.6400	0.32		1410	0.02	0.0006	
WATERSHED CONDITIONS:				1344	3.3600	0.60		1420	0.01	0.0008	
Rangeland - 100%, range				1349	2.2800	0.79		1440	0.0	0.0010	
condition - high fair.				1354	0.3600	0.82		2200	0.0	0.0021	
				1409	0.2400	0.88					
				1419	0.1200	0.90					
				1439	0.1200	0.94					
				1509	0.0800	0.99					
				1529	0.0900	1.01					
				1609	0.0300	1.03					
				1639	0.0600	1.06					
				1709	0.1400	1.13					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.081289.



EVENT OF APRIL 9, 1968
SONORA, TEXAS WATERSHED W-7

TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin.

AREA: 74.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 1
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0.34	0.10	0.37	3.38	3.63	3.02	3.88	4.60	3.54	6.96	1.12	1.62	32.56	
	O 0.195	0.118	0.142	0.142	0.187	0.397	0.155	0.195	0.118	0.654	0.214	0.279	2.795	
STA AV	P 0.56	0.50	1.06	3.03	4.27	8.51	3.51	3.85	5.20	2.28	0.81	0.85	34.42	
	O 0.235	0.463	0.601	0.352	0.696	3.442	0.386	0.362	0.748	0.339	0.235	0.241	8.100	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	6-13	0.887	6-13	0.204	10-16	0.302	10-16	0.404	10-16	0.423	10-16	0.430	10-16	0.441	10-16	0.488
MAXIMUMS FOR PERIOD OF RECORD																
	6-20	5.835	6-20	3.150	6-20	4.160	6-20	4.224	6-20	4.232	6-20	4.246	6-20	4.264	6-4	5.979
	1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 95% contoured corn; 5% quillies and grassed waterways; precipitation from rain gage 117 before April 1 and after November 12; Thiessen average of gages 116, 117, 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 10, 1964. January 1 to February 10, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3, (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

1968 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 1
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
2	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.68	0.21	0.0	
6	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
7	0.0	0.0	0.05	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.50	0.02	1.26	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	1.25	0.0	0.66	0.0	0.0	0.54	0.0	
11	0.27	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.05	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.34	1.09	0.87	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.14	0.02	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	1.25	0.27	1.46	4.62	0.05	0.0	
17	0.0	0.0	0.0	0.24	0.06	0.0	0.0	0.0	0.30	0.31	0.0	0.0	
18	0.0	0.0	0.22	0.46	0.0	0.0	0.0	0.50	0.61	0.0	0.0	1.08	
19	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	
22	0.0	0.0	0.0	0.65	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.29	0.0	0.16	0.09	0.27	0.02	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.10	0.0	0.0	0.90	0.31	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.04	0.02	0.0	1.58	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	
28	0.0	0.0	0.0	0.0	0.43	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.02	0.0	0.0	0.0	0.0	0.17	0.27	0.23	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.10	0.0	0.0	0.0	1.58	0.29	0.21	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.34	0.10	0.37	3.38	3.63	3.02	3.88	4.60	3.54	6.96	1.12	1.62	
STA AV	0.56	0.50	1.06	3.03	4.27	8.51	3.51	3.85	5.20	2.28	0.81	0.85	

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after November 12; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV are based on 5 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.014	0.014	0.017	0.013	0.013	0.017	0.013	0.007	0.007	0.010	0.019	0.019
2	0.014	0.017	0.014	0.016	0.013	0.017	0.012	0.007	0.007	0.012	0.019	0.021
3	0.014	0.017	0.018	0.025	0.011	0.016	0.012	0.007	0.032	0.020	0.019	0.019
4	0.012	0.019	0.016	0.014	0.012	0.013	0.012	0.010	0.008	0.023	0.022	0.019
5	0.012	0.016	0.014	0.011	0.014	0.014	0.012	0.007	0.008	0.025	0.026	0.016
6	0.014	0.012	0.014	0.013	0.016	0.013	0.013	0.006	0.007	0.009	0.025	0.018
7	0.014	0.013	0.014	0.014	0.025	0.014	0.012	0.006	0.006	0.008	0.022	0.016
8	0.012	0.014	0.014	0.010	0.015	0.015	0.016	0.016	0.007	0.160	0.019	0.021
9	0.010	0.015	0.014	0.011	0.015	0.012	0.008	0.008	0.006	0.014	0.024	0.019
10	0.010	0.012	0.014	0.011	0.018	0.134	0.008	0.031	0.007	0.010	0.025	0.019
11	0.010	0.010	0.014	0.009	0.016	0.034	0.008	0.008	0.006	0.010	0.024	0.021
12	0.010	0.010	0.015	0.011	0.016	0.015	0.010	0.007	0.006	0.010	0.019	0.022
13	0.010	0.010	0.019	0.017	0.063	0.663	0.009	0.006	0.007	0.010	0.022	0.017
14	0.010	0.011	0.015	0.013	0.015	0.018	0.009	0.006	0.006	0.010	0.030	0.019
15	0.010	0.012	0.016	0.010	0.012	0.014	0.010	0.008	0.007	0.010	0.026	0.019
16	0.011	0.012	0.014	0.011	0.013	0.014	0.043	0.010	0.037	1.324	0.025	0.019
17	0.014	0.010	0.014	0.012	0.013	0.016	0.012	0.007	0.033	0.052	0.025	0.019
18	0.018	0.010	0.014	0.022	0.014	0.015	0.009	0.013	0.029	0.033	0.022	0.258
19	0.020	0.013	0.014	0.018	0.012	0.015	0.009	0.009	0.019	0.029	0.021	0.035
20	0.075	0.012	0.014	0.016	0.015	0.016	0.009	0.009	0.016	0.025	0.024	0.025
21	0.098	0.010	0.014	0.019	0.017	0.015	0.009	0.009	0.013	0.025	0.025	0.025
22	0.023	0.010	0.014	0.036	0.019	0.016	0.009	0.009	0.012	0.025	0.025	0.025
23	0.016	0.010	0.014	0.024	0.016	0.015	0.011	0.010	0.011	0.025	0.022	0.025
24	0.019	0.010	0.014	0.012	0.013	0.017	0.010	0.007	0.010	0.025	0.020	0.022
25	0.038	0.012	0.013	0.014	0.034	0.020	0.009	0.006	0.010	0.025	0.019	0.019
26	0.026	0.014	0.013	0.013	0.021	0.018	0.010	0.332	0.010	0.020	0.019	0.019
27	0.015	0.014	0.012	0.013	0.018	0.015	0.009	0.011	0.010	0.019	0.021	0.019
28	0.017	0.014	0.012	0.012	0.050	0.016	0.009	0.007	0.010	0.019	0.020	0.019
29	0.018	0.015	0.012	0.013	0.017	0.015	0.011	0.009	0.010	0.019	0.021	0.019
30	0.014	0.014	0.014	0.011	0.018	0.013	0.139	0.013	0.012	0.019	0.021	0.019
31	0.014	0.013	0.013	0.021	0.021	0.009	0.008	0.008	0.008	0.019	0.019	0.019
MEAN	0.0197	0.0127	0.0143	0.0148	0.0188	0.0415	0.0156	0.0197	0.0124	0.0660	0.0224	0.0281
INCHES	0.195	0.118	0.142	0.142	0.187	3.397	0.155	0.195	0.118	0.654	0.214	0.279
STA AV	0.235	0.463	0.601	0.352	0.696	6.442	0.386	0.362	0.748	0.339	0.235	0.241

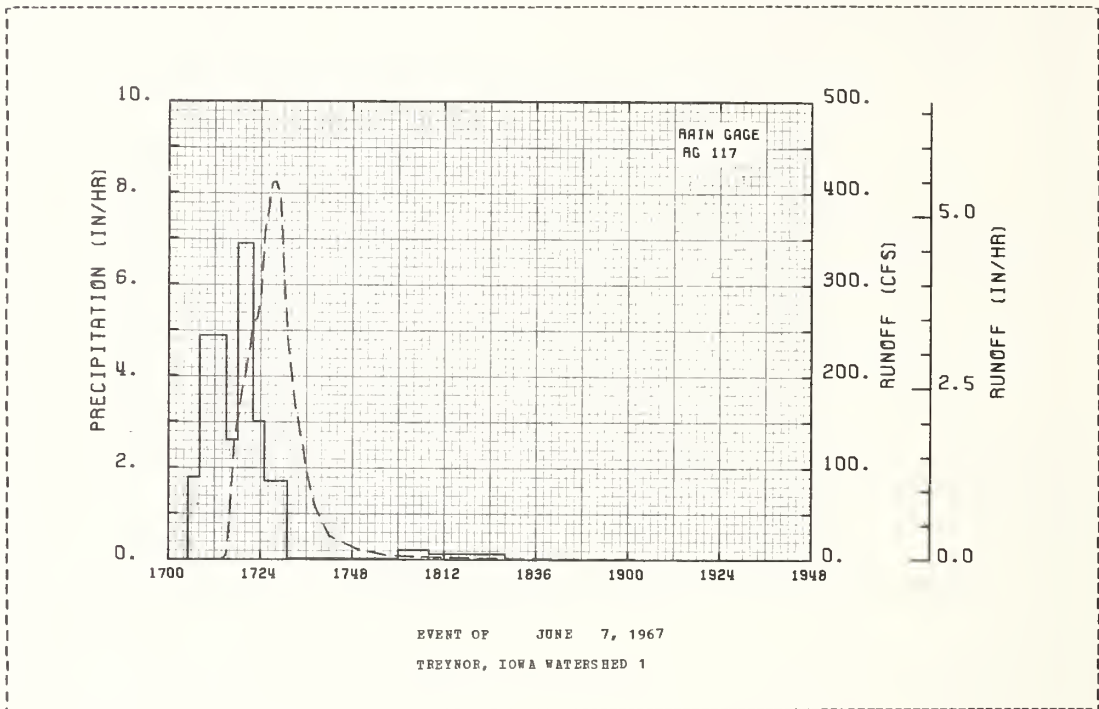
NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.31948. STA AV are based on 5 yr record period.

1967 SELECTED RUNOFF EVENT TREYNOR, IOWA WATERSHED 1												
ANTECEDENT CONDITIONS			RAINFALL							RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 7, 1967												
6-7	RG 117 0.11	0.007	6-7	RG 117 1705	0.0	0.0	6-7	1707	0.060	0.0		
				1708	1.7999	0.09		1709	0.080	0.0		
				1715	4.8856	0.66		1710	0.120	0.0		
				1718	2.6006	0.79		1711	0.170	0.0		
				1722	6.9001	1.25		1713	0.360	0.0001		
WATERSHED CONDITIONS:												
	95% contoured corn 4-6 in.			1725	2.9998	1.40		1714	0.760	0.0002		
	tall, less than 10% canopy,			1731	1.6999	1.57		1715	5.640	0.0009		
	rotary hoed 3 days prior			1800	0.0207	1.58		1716	50.580	0.0071		
	to event; 5% gullies and			1808	0.2250	1.61		1717	127.450	0.0268		
	grassed waterways, grass			1828	0.1200	1.65		1719	180.900	0.0954		
	10-16 in. tall.							1721	226.000	0.1853		
								1722	260.300	0.2390		
								1723	262.300	0.2976		
								1724	285.300	0.3581		
								1725	356.100	0.4290		
								1726	382.900	0.5107		
								1727	411.300	0.5997		
								1728	411.300	0.6906		
								1729	396.700	0.7799		
								1730	312.100	0.8594		
								1731	240.750	0.9205		
								1733	165.900	1.0104		
								1735	122.800	1.0747		
								1736	95.840	1.0989		
								1738	59.010	1.1334		
								1740	41.070	1.1555		
								1742	25.100	1.1702		
								1744	20.920	1.1804		
								1749	11.260	1.1983		
								1757	4.560	1.2123		
								1807	2.350	1.2200		
								1822	1.090	1.2257		
								1823	0.970	1.2259		
								1827	1.090	1.2268		
								1839	1.090	1.2297		

NOTES: To convert runoff in CFS to IN/HP, multiply by 0.01331. Event precipitation totals for rain gages 116 and 118 are 1.52 in. and 1.24 in., respectively and Thiessen weighted average total for event is 1.46 in.

1967 SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 1								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 7, 1967 (CONTINUED)											
							6-7	1842	0.760	1.2303	
								1850	0.460	1.2314	
								1902	0.360	1.2325	

NOTES: To convert runoff in cfs to in/hr, multiply by 0.01331. Event precipitation totals for rain gages 116 and 118 are 1.52 in. and 1.24 in., respectively and Thiessen weighted average total for event is 1.46 in.



TREYNOR, IOWA WATERSHED 2

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missouri River Basin.

AREA: 82.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 2
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.34	0.10	0.37	3.35	3.55	3.15	3.85	4.58	3.61	6.88	1.13	1.62	32.53
	O	0.256	0.202	0.204	0.212	0.188	0.481	0.138	0.169	0.105	0.640	0.157	0.184	2.938
STA AV	P	0.56	0.50	1.05	3.01	4.16	3.44	3.70	5.20	2.25	6.88	1.13	1.62	34.04
	O	0.254	0.564	0.642	0.353	0.686	3.224	0.315	0.331	0.669	0.331	0.213	0.216	7.800

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
1968	Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6-13	1.131	6-13	0.272	10-16	0.307	10-16	0.399	10-16	0.417	10-16	0.422	10-16	0.485
MAXIMUMS FOR PERIOD OF RECORD														
	6-20	4.866	6-20	2.701	6-20	3.693	6-20	3.780	6-20	3.786	6-20	3.810	6-4	5.531
	1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 95% contoured corn; 5% gullies and grassed waterways. Precipitation from gage 117 before April 1 and after November 12; Thiessen average of gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 - February 3, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, OSDA Misc. Pub. 1194, p. 71.2-5. For long-time precipitation records, see U.S. Weather Bureau records period at Omaha, Nebraska.

1968	DAILY PRECIPITATION (inches)												TREYNOR, IOWA WATERSHED 2
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
2	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.68	0.22	0.0	
6	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
7	0.0	0.0	0.05	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.51	0.02	1.29	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	1.23	0.0	0.60	0.0	0.0	0.54	0.0	
11	0.27	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.05	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.33	1.08	0.95	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.19	0.02	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.28	1.43	4.56	0.05	0.0	
17	0.0	0.0	0.0	0.26	0.05	0.0	0.0	0.0	0.34	0.28	0.0	0.0	
18	0.0	0.0	0.22	0.44	0.0	0.0	0.0	0.50	0.59	0.0	0.0	1.08	
19	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	
22	0.0	0.0	0.0	0.63	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.29	0.0	0.16	0.10	0.24	0.02	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.10	0.0	0.0	0.87	0.35	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.05	0.02	0.0	1.59	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	
28	0.0	0.0	0.0	0.0	0.39	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.02	0.0	0.0	0.0	0.0	0.14	0.27	0.22	0.0	0.0	0.0	0.0	
30	0.0	0.10	0.0	0.0	0.0	0.0	1.49	0.28	0.20	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.34	0.10	0.37	3.35	3.55	3.15	3.85	4.58	3.61	6.88	1.13	1.62	
STA AV	0.56	0.50	1.05	3.01	4.16	3.44	3.70	5.20	2.25	6.88	1.13	1.62	

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through November 12, and from station 117 for remainder of year. STA AV are based on 5 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.017	0.027	0.032	0.022	0.015	0.022	0.016	0.009	0.006	0.008	0.017	0.017
2	0.017	0.027	0.024	0.027	0.015	0.019	0.014	0.009	0.006	0.006	0.017	0.019
3	0.017	0.027	0.022	0.031	0.012	0.019	0.014	0.009	0.075	0.006	0.017	0.018
4	0.017	0.027	0.028	0.026	0.012	0.018	0.012	0.012	0.013	0.006	0.017	0.018
5	0.017	0.027	0.030	0.029	0.012	0.021	0.012	0.008	0.009	0.016	0.021	0.014
6	0.017	0.027	0.030	0.029	0.018	0.016	0.013	0.008	0.008	0.009	0.021	0.015
7	0.017	0.029	0.030	0.027	0.027	0.015	0.012	0.006	0.006	0.007	0.017	0.011
8	0.017	0.030	0.027	0.027	0.016	0.014	0.021	0.016	0.007	0.198	0.017	0.013
9	0.017	0.026	0.027	0.030	0.016	0.014	0.015	0.008	0.007	0.019	0.017	0.014
10	0.017	0.022	0.024	0.030	0.016	0.130	0.012	0.026	0.006	0.010	0.019	0.015
11	0.017	0.022	0.023	0.024	0.016	0.062	0.011	0.008	0.006	0.010	0.022	0.018
12	0.017	0.022	0.019	0.024	0.016	0.022	0.012	0.007	0.006	0.010	0.021	0.021
13	0.017	0.022	0.020	0.032	0.055	0.979	0.011	0.008	0.006	0.010	0.021	0.013
14	0.017	0.022	0.021	0.023	0.028	0.025	0.011	0.008	0.006	0.010	0.028	0.011
15	0.017	0.022	0.022	0.019	0.019	0.022	0.012	0.011	0.007	0.010	0.027	0.010
16	0.019	0.019	0.019	0.022	0.017	0.022	0.038	0.012	0.037	1.455	0.022	0.012
17	0.022	0.017	0.019	0.020	0.018	0.020	0.008	0.006	0.031	0.045	0.019	0.014
18	0.022	0.024	0.025	0.032	0.022	0.017	0.007	0.016	0.024	0.039	0.015	0.136
19	0.022	0.027	0.020	0.023	0.018	0.014	0.009	0.008	0.014	0.039	0.014	0.029
20	0.076	0.024	0.018	0.023	0.019	0.014	0.008	0.007	0.009	0.036	0.017	0.022
21	0.084	0.019	0.017	0.025	0.020	0.014	0.008	0.006	0.008	0.033	0.018	0.022
22	0.038	0.019	0.014	0.044	0.022	0.013	0.008	0.007	0.008	0.030	0.015	0.022
23	0.036	0.022	0.017	0.027	0.016	0.016	0.011	0.008	0.010	0.027	0.013	0.019
24	0.035	0.022	0.020	0.015	0.014	0.021	0.009	0.007	0.008	0.027	0.014	0.017
25	0.053	0.022	0.023	0.022	0.036	0.027	0.008	0.007	0.006	0.027	0.015	0.017
26	0.046	0.026	0.024	0.019	0.022	0.021	0.008	0.296	0.006	0.023	0.017	0.017
27	0.039	0.027	0.024	0.016	0.020	0.019	0.008	0.014	0.006	0.022	0.017	0.017
28	0.042	0.027	0.021	0.017	0.055	0.019	0.006	0.009	0.006	0.022	0.018	0.017
29	0.038	0.027	0.021	0.016	0.019	0.022	0.008	0.009	0.006	0.022	0.016	0.017
30	0.033		0.021	0.015	0.016	0.018	0.122	0.014	0.009	0.022	0.017	0.017
31	0.030		0.024		0.028		0.014	0.008		0.021		0.017
MEAN	0.0287	0.0242	0.0229	0.0246	0.0211	0.0558	0.0155	0.0190	0.0122	0.0718	0.0182	0.0207
INCHES	0.256	0.202	0.204	0.212	0.188	0.481	0.138	0.169	0.105	0.640	0.157	0.184
STA AV	0.254	0.564	0.642	0.353	0.686	3.224	0.315	0.331	0.669	0.331	0.213	0.216

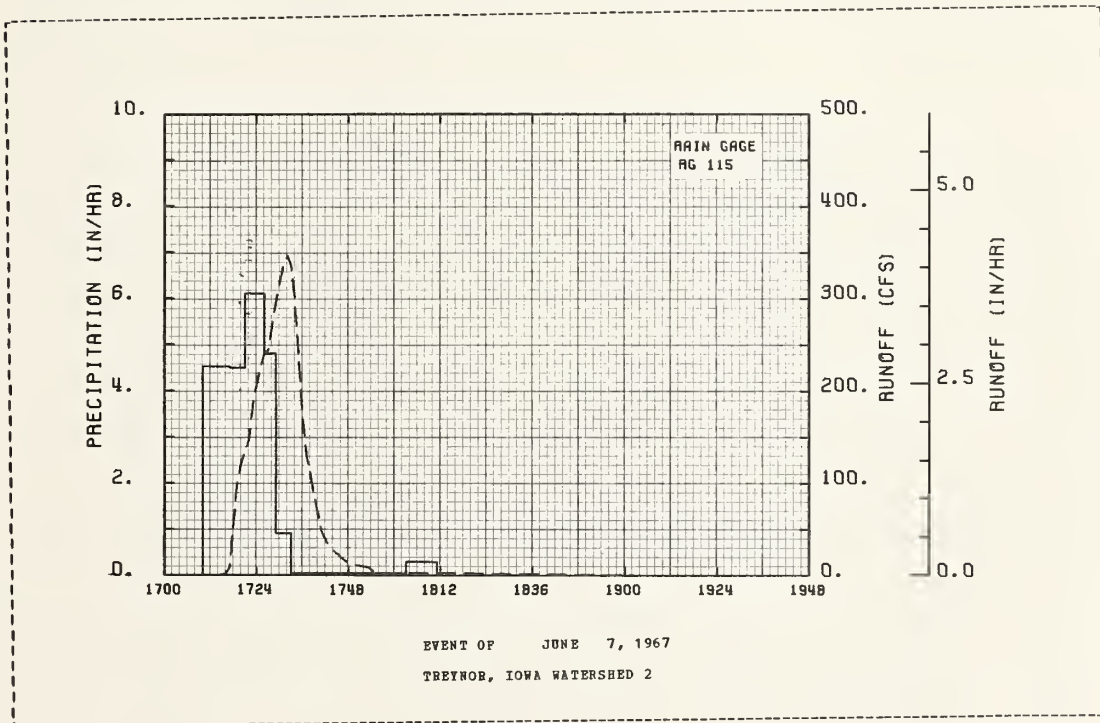
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28746. STA AV are based on 5 yr record period.

1967 SELECTED RUNOFF EVENT TREYNOR, IOWA WATERSHED 2												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 7, 1967												
6-7	RG 115 0.08	0.005	6-7	RG 115 1710	0.0	0.0	6-7	1709	0.030	0.0		
				1717	4.5428	0.53		1710	0.040	0.0		
				1721	4.5001	0.83		1711	0.070	0.0		
				1726	6.1204	1.34		1712	0.230	0.0		
				1729	4.7997	1.58		1713	0.290	0.0001		
WATERSHED CONDITIONS:			1733	0.9000	1.64		1714	0.450	0.0002			
95% contoured corn, 4-6 in. tall less than 10% canopy, rotary hoed 3 days prior to event; 5% quillies and grassed waterways, grass approximately 10-16 in. tall.			1803	0.0400	1.66		1716	2.630	0.0008			
30 Day Antecedent Conditions:			1811	0.3000	1.70		1717	9.310	0.0020			
Date	Rainfall	Runoff					1719	103.750	0.0246			
(inches)	(inches)	(inches)					1720	123.850	0.0472			
05-08 thru							1722	147.600	0.1012			
05-11	0.0	0.017					1723	185.500	0.1348			
05-12	0.16	0.005					1725	226.400	0.2167			
05-13 thru							1726	241.200	0.2632			
05-27	0.0	0.051					1727	244.300	0.3122			
05-28	0.51	0.006					1729	296.000	0.4196			
05-29	0.28	0.006					1731	339.000	0.5468			
05-30	1.42	0.017					1732	346.500	0.6150			
05-31	0.82	0.012					1733	335.200	0.6828			
06-01	0.08	0.007					1734	299.400	0.7468			
06-2,3	0.0	0.008					1736	170.600	0.8403			
06-04	1.47	0.186					1737	131.900	0.8704			
06-05	2.42	1.491					1739	85.680	0.9140			
06-06	0.0	0.006					1741	45.840	0.9402			
							1743	30.760	0.9555			
							1746	18.810	0.9704			
							1748	11.920	0.9765			
							1752	8.910	0.9848			
							1753	7.960	0.9865			
							1755	3.330	0.9887			
							1756	2.080	0.9892			
							1757	1.770	0.9896			
							1801	2.540	0.9913			
							1803	3.100	0.9924			
							1806	2.630	0.9941			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gages 116 and 118 are 1.52 in. and 1.24 in., respectively and the Thiessen weighted average event precipitation is 1.51 inches.

1967 SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 2							
ANTECEDENT CONDITIONS			RAINFALL				BUROFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 7, 1967 (CONTINUED)										
							6-7	1810	2.540	0.9962
								1813	2.540	0.9977
								1819	2.250	1.0006
								1823	1.700	1.0022
								1827	1.380	1.0034
								1834	1.050	1.0051
								1847	0.730	1.0074
								1853	0.580	1.0082
								1856	0.450	1.0085
								1902	0.420	1.0090

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gages 116 and 118 are 1.52 in. and 1.24 in., respectively and the Thiessen weighted average event precipitation is 1.51 inches.



TREYNOR, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin.

AREA: 107.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TREYNOR, IOWA WATERSHED 3	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.30	0.10	0.27	3.77	3.51	3.16	3.37	3.68	3.64	6.68	0.92	1.63	31.03
	O	0.232	0.154	0.148	0.136	0.128	0.161	0.104	0.103	0.091	0.787	0.196	0.360	2.600
STA AV	P	0.52	0.51	1.00	3.27	4.17	8.47	3.17	3.02	5.02	2.28	0.75	0.84	33.02
	O	0.208	0.467	0.542	0.319	0.276	1.016	0.387	0.242	0.346	0.405	0.246	0.241	4.695

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	10-8	0.267	10-16	0.185	10-16	0.333	10-16	0.468	10-16	0.495	10-16	0.503	10-16	0.513	10-8	0.565

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	6-20 1967	2.010	6-20 1967	1.005	6-20 1967	1.287	6-20 1967	1.336	6-20 1967	1.350	6-20 1967	1.371	2-27 1965	1.408	6-14 1967	1.741

NOTES: Watershed conditions: 96% permanent pasture with controlled grazing; 4% gravel roads and farmstead. Precipitation: arithmetic average of gauges 113 and 114 before April 1 and after November 12; Thiessen average of gauges 112, 113 and 114 for remainder of year. Precipitation records began January 1, 1964. Runoff records began January 2, 1964, January 1, 1964 runoff estimated and included in average. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.3-4. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

1968 DAILY AIR TEMPERATURE (degrees F)													TREYNOR, IOWA WATERSHED 3												
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	16	14	38	24	60	20	58	24	88	52	80	55	80	54	80	56	77	53	85	59	67	44	34	32	
2	16	-6	43	22	34	14	46	34	90	56	90	59	74	54	82	58	86	56	70	45	47	38	42	34	
3	10	-10	44	28	42	10	68	38	70	50	94	62	85	52	84	67	80	59	59	38	55	30	39	26	
4	10	-4	50	28	66	23	37	22	60	38	90	65	88	62	87	70	69	53	64	33	60	34	55	26	
5	26	0	50	30	54	34	45	18	62	32	90	70	88	60	96	75	70	50	56	47	48	40	36	22	
6	0	-12	36	24	55	24	68	30	62	50	88	66	81	64	96	74	74	50	66	46	43	36	40	20	
7	6	-16	34	17	62	29	58	41	59	43	90	70	90	65	93	74	84	56	76	44	38	32	26	10	
8	23	12	44	14	62	42	60	40	72	43	91	68	96	65	84	70	72	56	63	58	31	22	32	8	
9	24	8	28	14	46	36	68	34	62	40	94	73	82	60	88	68	70	52	60	42	36	20	44	22	
10	19	4	20	4	64	32	74	34	80	53	66	52	92	72	86	64	74	48	66	39	31	28	46	22	
11	22	6	22	-1	44	22	87	41	62	39	79	60	96	66	75	51	76	46	73	46	30	20	52	32	
12	20	-2	19	8	36	12	76	54	70	38	78	57	89	70	82	54	78	48	73	58	27	6	60	14	
13	11	1	20	7	48	13	62	42	76	54	90	60	92	74	92	64	83	54	78	65	38	22	14	2	
14	20	2	27	5	64	34	52	35	80	54	76	58	94	72	86	64	83	58	79	64	37	28	12	-2	
15	22	4	37	-20	68	32	74	34	80	53	66	52	92	72	88	72	79	56	86	70	44	33	20	-1	
16	31	6	38	6	69	34	82	51	61	45	74	50	91	72	92	62	68	54	74	49	39	34	36	10	
17	38	20	20	-2	63	50	64	40	64	42	84	58	82	72	78	56	68	49	50	40	38	32	34	20	
18	40	26	38	2	74	48	52	40	50	40	88	64	90	70	82	66	56	52	56	39	34	27	34	30	
19	45	22	48	24	50	30	57	50	60	38	90	60	86	64	92	72	68	51	63	34	28	16	32	19	
20	49	26	22	3	37	22	60	45	62	41	92	70	90	62	94	73	73	48	69	38	49	16	19	11	
21	48	28	19	-4	38	22	67	39	68	42	88	64	92	70	94	75	86	66	74	48	60	36	31	14	
22	36	26	25	10	26	12	59	42	53	48	92	57	88	67	95	74	85	68	62	43	64	30	32	14	
23	31	19	30	4	44	14	52	34	68	50	94	68	84	72	96	70	76	62	61	44	54	36	14	4	
24	42	20	33	24	68	25	52	30	68	42	87	69	90	69	84	58	74	52	46	32	52	30	12	0	
25	46	26	34	28	74	46	45	28	58	52	77	51	86	67	84	55	78	48	60	31	48	31	20	9	
26	42	30	36	32	78	38	62	34	57	50	63	50	86	68	80	58	78	50	74	39	41	32	26	20	
27	35	30	44	29	69	46	67	43	71	46	77	48	86	64	82	62	76	49	48	36	39	19	26	14	
28	51	28	32	10	80	44	62	42	76	53	98	58	83	56	74	61	80	53	50	32	40	24	20	13	
29	51	16	33	4	71	44	76	43	72	50	95	66	86	58	66	60	74	54	66	32	39	18	22	7	
30	38	12			88	44	84	48	74	50	82	58	84	66	74	58	85	58	76	41	44	23	7	-16	
31	40	30			50	30			70	59			72	58	74	55			82	53				6	-9
AV.	29	11	33	14	56	29	62	37	67	46	85	60	86	64	84	64	76	53	66	44	43	27	29	13	
MEAN	20.6		23.8		43.3		50.0		56.8		73.2		75.7		74.4		64.9		55.7		35.7		21.8		
STA AV	30	12	35	14	48	25	61	38	72	50	81	60	86	65	81	60	73	52	66	42	48	29	35	17	

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV based on 4 yr record period.

1968		DAILY PRECIPITATION (inches)										TREYNOR, IOWA WATERSHED 3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
2	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	1.25	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.66	0.20	0.0	
6	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.02	0.02	0.0	
7	0.0	0.0	0.05	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.28	0.02	1.61	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.21	0.0	0.0	0.33	0.0	
11	0.25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.03	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.40	0.94	1.23	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.24	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.19	1.52	4.08	0.05	0.0	
17	0.0	0.0	0.0	0.23	0.03	0.0	0.04	0.0	0.02	0.26	0.0	0.0	
18	0.0	0.0	0.07	0.33	0.0	0.0	0.0	0.54	0.64	0.0	0.0	1.14	
19	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	
22	0.0	0.0	0.0	0.77	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.51	0.0	0.19	0.07	0.18	0.02	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.07	0.36	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.08	0.0	0.0	0.91	0.34	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.02	0.0	0.0	0.02	0.03	0.0	1.34	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
28	0.0	0.0	0.0	0.0	0.34	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.02	0.0	0.0	0.0	0.0	0.12	0.26	0.22	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.15	0.0	0.0	0.0	1.26	0.31	0.17	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.30	0.10	0.27	3.77	3.51	3.16	3.37	3.68	3.64	6.68	0.92	1.63	
STA AV	0.52	0.51	1.00	3.27	4.17	8.47	3.17	3.02	5.02	2.28	0.75	0.84	

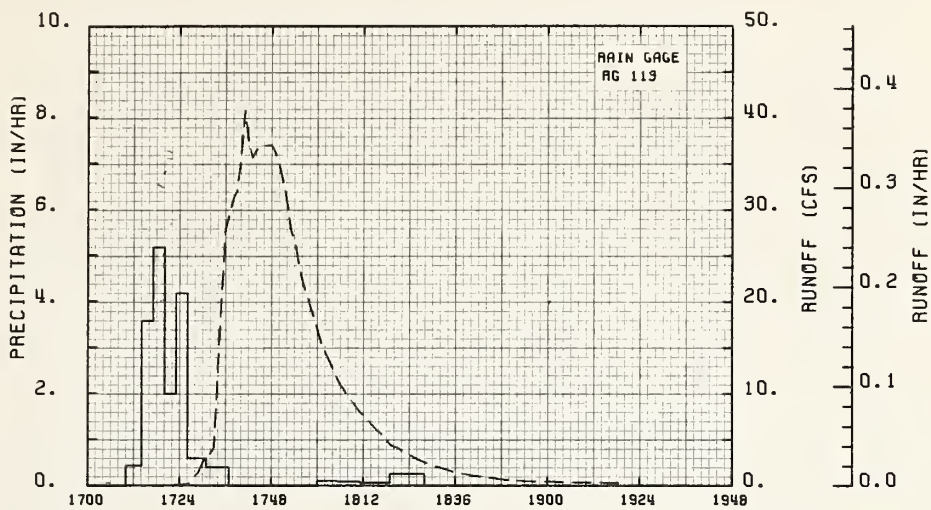
NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after November 12; Thiessen weighted average values from gages 112, 113 and 114 for remainder of year. STA AV are based on 5 yr record period.

1968		MEAN DAILY DISCHARGE (cfs)										TREYNOR, IOWA WATERSHED 3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.022	0.027	0.022	0.019	0.019	0.017	0.011	0.009	0.007	0.006	0.027	0.033	
2	0.022	0.027	0.022	0.022	0.017	0.017	0.012	0.010	0.006	0.006	0.027	0.030	
3	0.022	0.027	0.022	0.025	0.017	0.017	0.011	0.010	0.135	0.006	0.027	0.027	
4	0.022	0.027	0.022	0.020	0.017	0.015	0.010	0.012	0.015	0.007	0.027	0.027	
5	0.022	0.027	0.022	0.019	0.017	0.016	0.011	0.009	0.010	0.012	0.029	0.027	
6	0.022	0.027	0.022	0.019	0.019	0.014	0.012	0.008	0.009	0.008	0.028	0.027	
7	0.022	0.027	0.022	0.017	0.024	0.015	0.010	0.009	0.007	0.007	0.027	0.027	
8	0.022	0.027	0.022	0.017	0.017	0.014	0.010	0.011	0.007	0.665	0.027	0.027	
9	0.022	0.027	0.022	0.017	0.017	0.014	0.010	0.009	0.006	0.031	0.028	0.027	
10	0.022	0.026	0.022	0.017	0.017	0.027	0.008	0.010	0.006	0.015	0.031	0.027	
11	0.022	0.026	0.022	0.017	0.017	0.025	0.008	0.008	0.007	0.012	0.027	0.030	
12	0.022	0.024	0.022	0.019	0.017	0.014	0.009	0.008	0.006	0.012	0.027	0.030	
13	0.022	0.022	0.022	0.021	0.025	0.256	0.008	0.008	0.005	0.010	0.030	0.027	
14	0.022	0.022	0.022	0.019	0.021	0.024	0.008	0.007	0.005	0.010	0.034	0.027	
15	0.022	0.022	0.022	0.017	0.017	0.017	0.008	0.010	0.005	0.010	0.033	0.027	
16	0.022	0.022	0.022	0.017	0.017	0.017	0.020	0.008	0.045	2.209	0.033	0.027	
17	0.022	0.022	0.022	0.017	0.017	0.017	0.011	0.007	0.012	0.085	0.030	0.027	
18	0.022	0.022	0.022	0.023	0.017	0.014	0.010	0.012	0.017	0.044	0.027	0.594	
19	0.022	0.022	0.019	0.020	0.017	0.014	0.008	0.008	0.012	0.039	0.027	0.081	
20	0.051	0.022	0.021	0.020	0.017	0.014	0.009	0.006	0.009	0.036	0.031	0.057	
21	0.105	0.022	0.021	0.018	0.017	0.014	0.009	0.006	0.008	0.033	0.033	0.055	
22	0.062	0.022	0.019	0.030	0.017	0.014	0.008	0.005	0.008	0.033	0.033	0.050	
23	0.042	0.022	0.020	0.032	0.017	0.016	0.011	0.006	0.009	0.027	0.030	0.043	
24	0.041	0.022	0.021	0.019	0.014	0.014	0.013	0.005	0.008	0.027	0.027	0.039	
25	0.089	0.022	0.022	0.022	0.033	0.018	0.009	0.005	0.007	0.027	0.030	0.039	
26	0.062	0.022	0.022	0.020	0.018	0.017	0.009	0.188	0.007	0.027	0.033	0.039	
27	0.040	0.022	0.022	0.020	0.017	0.014	0.008	0.029	0.007	0.027	0.033	0.036	
28	0.042	0.022	0.022	0.022	0.021	0.014	0.006	0.011	0.006	0.027	0.030	0.030	
29	0.035	0.022	0.022	0.022	0.017	0.013	0.007	0.010	0.006	0.027	0.027	0.027	
30	0.027	0.020	0.022	0.022	0.017	0.012	0.165	0.012	0.008	0.027	0.030	0.027	
31	0.027	0.019	0.019	0.022	0.022	0.015	0.008	0.008	0.007	0.027	0.027	0.027	
MEAN	0.0336	0.0239	0.0215	0.0203	0.0185	0.0241	0.0150	0.0150	0.0136	0.1142	0.0294	0.0522	
INCHES	0.232	0.154	0.148	0.136	0.128	0.161	0.104	0.103	0.091	0.787	0.196	0.360	
STA AV	0.208	0.467	0.542	0.319	0.276	1.016	0.387	0.242	0.346	0.405	0.246	0.241	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.22244. STA AV are based on 5 yr record period.

1967 SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 3									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF JUNE 7, 1967												
6-7	RG 113 0.17	0.005	6-7	RG 113	1710	0.0	0.0	6-7	1717	0.030	0.0	
					1714	0.4500	0.03		1719	0.040	0.0	
					1717	3.5998	0.21		1720	0.060	0.0	
					1720	5.1997	0.47		1722	0.150	0.0	
					1723	1.9999	0.57		1724	0.180	0.0001	
WATERSHED CONDITIONS:					1726	4.2010	0.78		1726	0.230	0.0002	
96% pasture, good stand,					1731	0.5999	0.83		1727	0.510	0.0003	
moderately grazed, 60%					1737	0.4000	0.87		1728	1.050	0.0004	
10-12 in. tall, 40% 2-4					1800	0.0	0.87		1729	1.630	0.0006	
in. tall; 4% gravel roads					1805	0.1200	0.88		1730	2.570	0.0009	
and farmstead.												
30 Day Antecedent Conditions:					1811	0.1000	0.89		1731	3.300	0.0014	
	Rainfall	Runoff			1819	0.0750	0.90		1732	3.580	0.0019	
Date	(inches)	(inches)			1828	0.2667	0.94		1733	4.190	0.0025	
05-08 thru									1734	12.930	0.0038	
05-27	0.0	0.061							1735	20.920	0.0064	
05-28	0.36	0.003										
05-29	0.29	0.003							1736	28.070	0.0102	
05-30	1.29	0.007							1737	29.660	0.0146	
05-31	0.71	0.005							1738	31.320	0.0194	
06-01	0.16	0.005							1739	32.150	0.0243	
06-02	0.0	0.003							1740	35.660	0.0295	
06-03	0.0	0.003										
06-04	1.23	0.004							1741	40.820	0.0354	
06-05	1.89	0.246							1742	37.000	0.0415	
06-06	0.0	0.007							1743	35.660	0.0471	
									1744	36.560	0.0527	
									1745	37.000	0.0584	
									1748	37.000	0.0755	
									1749	36.110	0.0812	
									1750	34.770	0.0867	
									1751	32.980	0.0919	
									1752	30.900	0.0968	
									1753	27.690	0.1014	
									1754	26.550	0.1056	
									1755	24.340	0.1095	
									1756	22.250	0.1131	
									1758	19.650	0.1196	
									1801	15.480	0.1277	
									1806	10.900	0.1379	
									1811	7.980	0.1452	
									1816	5.870	0.1506	
									1818	5.050	0.1523	
									1819	4.440	0.1530	
									1820	4.190	0.1537	
									1821	4.080	0.1543	
									1823	3.520	0.1555	
									1827	2.710	0.1574	
									1831	2.080	0.1589	
									1835	1.560	0.1600	
									1841	1.050	0.1612	
									1849	0.650	0.1623	
									1857	0.450	0.1630	
									1910	0.340	0.1638	
									1915	0.320	0.1641	
									1918	0.290	0.1642	
									1920	0.270	0.1643	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.009268. Event precipitation totals for rain gages 112 and 114 are 0.97 in. and 0.88 in., respectively and the Thiessen weighted average event precipitation is 0.93 in.



TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin.

AREA: 150.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TREYNOR, IOWA WATERSHED 4	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.29	0.10	0.27	3.86	3.49	3.32	3.45	3.85	3.96	6.92	1.09	1.57	32.17
	O	0.378	0.340	0.317	0.311	0.364	0.381	0.354	0.267	0.216	0.390	0.509	0.521	4.347
STA AV	P	0.52	0.51	0.99	3.27	4.12	8.58	3.23	2.99	5.52	2.35	0.79	0.82	33.69
	O	0.409	0.422	0.663	0.448	0.516	1.251	0.970	0.593	0.650	0.637	0.553	0.486	7.597

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6-13	0.151	6-13	0.044	6-13	0.045	6-14	0.047	6-14	0.049	6-13	0.055	6-13	0.066	10-16	0.133
MAXIMUMS FOR PERIOD OF RECORD																
	6-25	0.296	6-22	0.166	6-20	0.228	2-28	0.352	2-28	0.496	2-28	0.645	2-28	0.758	6-20	1.072
	1966		1964		1967		1965		1965		1965		1965		1967	

NOTES: Watershed conditions: 82% contoured corn above level terraces which have a capacity of 2 in. of runoff; 7% contoured corn below the bottom terraces; 10% grassed terrace back-slopes; 1% gully. Precipitation from gage 113 before April 1 and after November 12; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 27, 1964. January 1-February 27, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3, (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, OSDA Misc. Pub. 1194, p. 71.4-4. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

1968 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.07		
2	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	1.46	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.66	0.20	0.0		
6	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.02	0.02	0.0		
7	0.0	0.0	0.05	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.25	0.02	1.60	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.92	0.0	0.21	0.0	0.0	0.51	0.0		
11	0.25	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.02	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.44	0.93	1.36	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.24	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.21	1.62	4.25	0.05	0.0		
17	0.0	0.0	0.0	0.28	0.04	0.0	0.05	0.0	0.02	0.32	0.0	0.0		
18	0.0	0.0	0.07	0.34	0.0	0.0	0.0	0.55	0.66	0.0	0.0	1.06		
19	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27		
22	0.0	0.0	0.0	0.77	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.54	0.0	0.20	0.08	0.18	0.02	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.10	0.44	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.08	0.0	0.0	0.93	0.35	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.02	0.0	0.0	0.03	0.02	0.0	1.40	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09		
28	0.0	0.0	0.0	0.0	0.35	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.02	0.0	0.0	0.0	0.0	0.12	0.26	0.22	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.15	0.0	0.0	0.0	1.29	0.35	0.16	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.29	0.10	0.27	3.86	3.49	3.32	3.45	3.85	3.96	6.92	1.09	1.57		
STA AV	0.52	0.51	0.99	3.27	4.12	8.58	3.23	2.99	5.52	2.35	0.79	0.82		

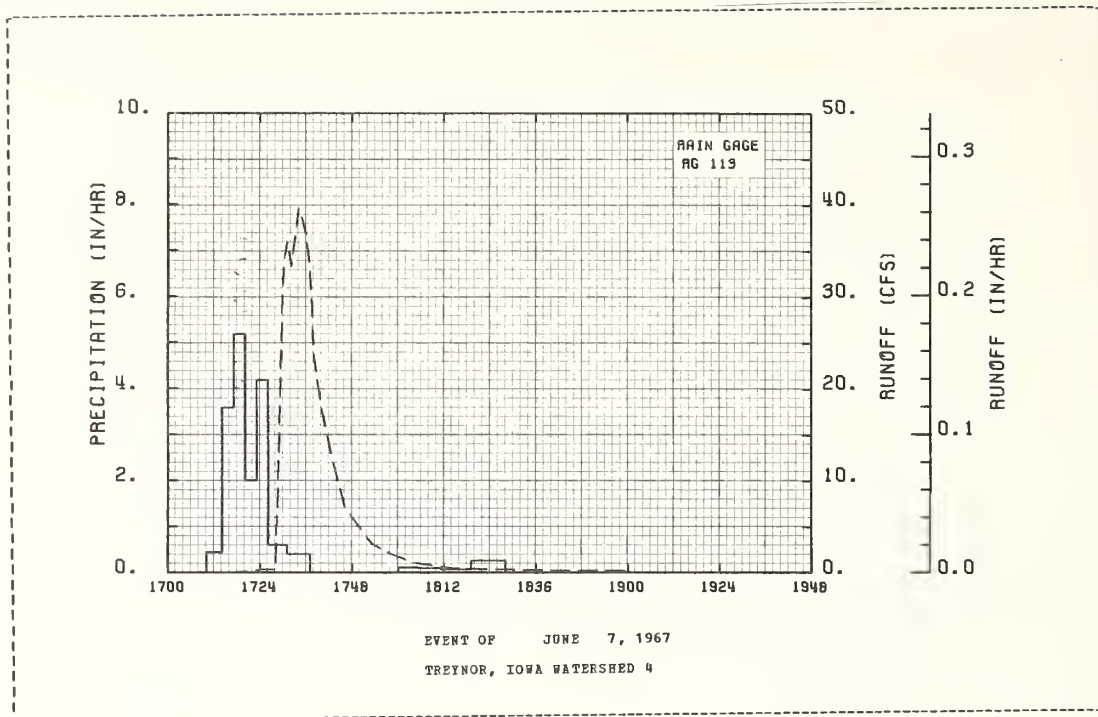
NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through November 12, and from 113 for remainder of year. STA AV are based on 5 yr record period.

TREYNOR, IOWA WATERSHED 4												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.083	0.083	0.064	0.068	0.073	0.073	0.073	0.064	0.047	0.039	0.105	0.105
2	0.078	0.083	0.064	0.068	0.073	0.073	0.073	0.064	0.044	0.039	0.105	0.105
3	0.073	0.083	0.064	0.070	0.073	0.073	0.073	0.064	0.062	0.039	0.105	0.105
4	0.073	0.083	0.068	0.064	0.073	0.068	0.073	0.065	0.052	0.039	0.105	0.099
5	0.073	0.078	0.068	0.064	0.073	0.074	0.073	0.059	0.047	0.048	0.105	0.099
6	0.073	0.073	0.064	0.064	0.073	0.068	0.073	0.055	0.047	0.043	0.105	0.105
7	0.073	0.073	0.064	0.064	0.080	0.068	0.073	0.055	0.043	0.039	0.105	0.105
8	0.073	0.073	0.064	0.058	0.073	0.064	0.075	0.061	0.039	0.071	0.105	0.105
9	0.073	0.073	0.064	0.055	0.073	0.064	0.077	0.055	0.041	0.053	0.110	0.105
10	0.073	0.073	0.064	0.055	0.073	0.071	0.076	0.061	0.044	0.047	0.116	0.105
11	0.073	0.073	0.064	0.051	0.073	0.063	0.075	0.055	0.045	0.047	0.110	0.105
12	0.073	0.073	0.064	0.058	0.073	0.052	0.073	0.055	0.045	0.047	0.105	0.099
13	0.073	0.073	0.064	0.067	0.078	0.336	0.073	0.055	0.045	0.047	0.105	0.094
14	0.073	0.073	0.064	0.065	0.074	0.074	0.073	0.055	0.045	0.047	0.110	0.094
15	0.073	0.073	0.064	0.064	0.073	0.068	0.073	0.057	0.043	0.047	0.116	0.094
16	0.073	0.073	0.064	0.064	0.073	0.064	0.083	0.056	0.068	0.197	0.116	0.099
17	0.073	0.073	0.064	0.064	0.073	0.064	0.073	0.055	0.052	0.125	0.110	0.105
18	0.073	0.073	0.065	0.070	0.073	0.068	0.073	0.060	0.054	0.097	0.105	0.148
19	0.073	0.073	0.064	0.065	0.073	0.073	0.070	0.050	0.051	0.094	0.105	0.119
20	0.073	0.073	0.064	0.064	0.073	0.073	0.070	0.047	0.047	0.101	0.105	0.116
21	0.078	0.073	0.064	0.066	0.073	0.073	0.070	0.045	0.044	0.105	0.105	0.116
22	0.083	0.073	0.064	0.079	0.073	0.073	0.073	0.045	0.043	0.105	0.105	0.110
23	0.083	0.073	0.064	0.084	0.073	0.080	0.073	0.045	0.039	0.105	0.105	0.105
24	0.083	0.073	0.064	0.068	0.073	0.075	0.072	0.043	0.039	0.105	0.105	0.105
25	0.083	0.073	0.064	0.068	0.083	0.080	0.068	0.044	0.039	0.105	0.105	0.105
26	0.083	0.068	0.064	0.068	0.073	0.083	0.064	0.062	0.039	0.105	0.105	0.105
27	0.083	0.073	0.064	0.064	0.073	0.078	0.061	0.051	0.039	0.105	0.105	0.105
28	0.083	0.068	0.064	0.064	0.074	0.075	0.061	0.047	0.039	0.105	0.105	0.105
29	0.083	0.064	0.064	0.064	0.073	0.075	0.061	0.050	0.039	0.105	0.105	0.105
30	0.083		0.069	0.068	0.073	0.073	0.080	0.053	0.039	0.105	0.105	0.105
31	0.083		0.065		0.079		0.068	0.047		0.105		0.105
MEAN	0.0769	0.0739	0.0645	0.0653	0.0740	0.0800	0.0719	0.0542	0.0453	0.0794	0.1068	0.1060
INCHES	0.378	0.340	0.317	0.311	0.364	0.381	0.354	0.267	0.216	0.390	0.509	0.521
STA AV	0.409	0.422	0.663	0.448	0.516	1.251	0.970	0.593	0.650	0.637	0.553	0.486

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.15868. STA AV are based on 5 yr record period.

TREYNOR, IOWA WATERSHED 4												
1967 SELECTED RUNOFF EVENT												
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 7, 1967												
6-7	RG 0.17	113 0.0	6-7	RG 1710	113 0.0	0.0	6-7	1718	0.090	0.0		
				1714	0.4500	0.03		1722	0.230	0.0001		
				1717	3.5998	0.21		1724	0.390	0.0003		
				1720	5.1997	0.47		1728	0.390	0.0003		
				1723	1.9999	0.57		1730	33.580	0.0041		
WATERSHED CONDITIONS:				1726	4.2010	0.78		1731	36.000	0.0079		
82% contoured corn above				1731	0.5999	0.83		1732	33.280	0.0117		
level terraces; 7% contoured				1737	0.4000	0.87		1733	36.450	0.0155		
corn below terraces,				1800	0.0	0.87		1734	39.630	0.0193		
all corn 4-6 in. tall.				1805	0.1200	0.88		1735	38.270	0.0236		
Less than 10% canopy;				1811	0.1000	0.89		1736	36.450	0.0277		
10% grassed terrace back-				1819	0.0750	0.90		1737	32.370	0.0315		
slopes grass 12-18 in. tall.				1828	0.2667	0.94		1738	23.290	0.0346		
30 Day Antecedent Conditions:								1740	17.700	0.0391		
	Rainfall	Runoff						1742	13.670	0.0426		
	Date (inches)	(inches)										
05-08 thru												
	05-27	0.0						1744	10.150	0.0452		
	05-28	0.36						1746	7.050	0.0471		
	05-29	0.29						1753	3.090	0.0510		
	05-30	1.29						1758	2.000	0.0524		
	05-31	0.71						1804	1.040	0.0534		
	06-01	0.16										
	06-02	0.0						1814	0.450	0.0552		
	06-03	1.23						1832	0.260	0.0559		
	06-04	1.89						1840	0.210	0.0562		
	06-05	0.0						1859	0.180	0.0566		
	06-06	0.0										

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00661. Event precipitation totals for gages 111 and 112 are 1.07 in. and 0.97 in., respectively and the Thiessen average event precipitation is 1.00 in.



TREYNOR, IOWA WATERSHED 5

LOCATION: Pottawattamie County, Iowa; approximately 9 miles southeast of Treynor and 3 miles southwest of Macedonia; West Nishnabotna River, Missouri River Basin.

AREA: 389.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 5															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.37	0.10	0.41	3.23	2.51	2.57	2.23	3.42	3.19	6.26	1.05	1.68	27.02															
	O	0.300	0.189	0.213	0.200	0.159	0.091	0.070	0.069	0.041	0.231	0.129	0.190	1.882															
STA AV	P	0.51	0.51	1.33	3.04	3.29	7.26	3.05	3.69	4.82	1.89	1.01	0.93	31.32															
	O	0.250	0.348	0.636	0.325	0.301	1.290	0.545	0.336	0.515	0.338	0.297	0.282	5.464															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

	Maximum Discharge Date	Maximum Volume for Selected Time Interval															
		1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.		
1968	10-8	0.036		10-16	0.024	10-16	0.044	10-16	0.081	10-16	0.112	10-16	0.117	10-16	0.123	10-16	0.146
MAXIMUMS FOR PERIOD OF RECORD																	
	6-20	1.250		6-20	0.890	6-20	1.271	6-20	1.529	6-20	1.575	6-20	1.636	6-20	1.744	6-20	2.460
	1967			1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: Percent crop distribution of area above or below level terraces, respectively is: corn, 24 and 6; beans, 24 and 0; small grain, 15 and 1; hay and clover, 7 and 1; pasture, 11 and 7; and roads and farmsteads, 1 and 3. Precipitation: Before April 4 and after November 1 arithmetic average of gages 101 and 108; Thiessen average of seven recording gages for remainder of year. Precipitation and runoff records began February 6, 1963. January 1-February 6, 1963 precipitation and runoff estimated and included in average. Maximum discharge rate and volumes for selected time intervals for the period of record reported previously are revised. For daily air temperature, in the vicinity, see table for Watershed 3, (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.5-6. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

1968 DAILY PRECIPITATION (inches)														TREYNOR, IOWA WATERSHED 5														
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.12	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.20	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.18	0.0	0.0	0.0	0.01	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
7	0.0	0.0	0.05	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.18	0.13	0.02	1.73	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
10	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.29	0.0	0.0	0.49	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
11	0.31	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
12	0.04	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
13	0.0	0.0	0.0	0.0	0.24	0.73	0.98	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
14	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.31	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.02	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.45	0.97	3.58	0.04	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
17	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.36	0.23	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
18	0.0	0.0	0.22	0.94	0.0	0.0	0.0	0.0	0.65	0.67	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
20	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
22	0.0	0.0	0.0	0.62	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.13	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
23	0.0	0.0	0.0	0.10	0.0	0.39	0.13	0.43	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
25	0.0	0.10	0.0	0.0	0.0	0.51	0.28	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.40	0.0	0.03	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.06	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29	0.02	0.0	0.0	0.0	0.0	0.17	0.20	0.21	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
30	0.0	0.0	0.10	0.0	0.0	0.0	0.0	1.28	0.57	0.08	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
31	0.0	0.0	0.0	0.36	0.0	0.0	0.04	0.03	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
TOTAL	0.37	0.10	0.41	3.23	2.51	2.57	2.23	3.42	3.19	6.26	1.05	1.68																
STA AV	0.51	0.51	1.33	3.04	3.29	7.26	3.05	3.69	4.82	1.89	1.01	0.93																

NOTES: Daily precipitation amounts are Thiessen weighted average values from seven stations (101 through 107) for period of April 4 through November 1 and are arithmetic averages from stations 101 and 108 for remainder of the year. STA AV are based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.132	0.115	0.129	0.086	0.087	0.067	0.029	0.037	0.022	0.015	0.058	0.072
2	0.121	0.107	0.103	0.100	0.082	0.054	0.033	0.035	0.014	0.015	0.058	0.072
3	0.121	0.118	0.111	0.149	0.073	0.047	0.034	0.043	0.169	0.012	0.058	0.072
4	0.137	0.121	0.125	0.095	0.068	0.041	0.030	0.041	0.040	0.009	0.058	0.072
5	0.171	0.112	0.110	0.103	0.077	0.037	0.031	0.029	0.025	0.007	0.058	0.062
6	0.176	0.117	0.115	0.095	0.093	0.034	0.040	0.025	0.021	0.010	0.058	0.062
7	0.213	0.112	0.114	0.096	0.158	0.038	0.034	0.017	0.019	0.010	0.058	0.064
8	0.215	0.127	0.137	0.065	0.087	0.038	0.035	0.027	0.016	0.399	0.052	0.049
9	0.199	0.118	0.112	0.069	0.079	0.039	0.034	0.035	0.015	0.177	0.047	0.047
10	0.182	0.107	0.099	0.069	0.082	0.043	0.031	0.058	0.015	0.035	0.048	0.058
11	0.181	0.100	0.094	0.065	0.082	0.068	0.033	0.029	0.013	0.029	0.074	0.083
12	0.164	0.099	0.126	0.070	0.074	0.043	0.034	0.024	0.015	0.029	0.086	0.116
13	0.164	0.102	0.137	0.101	0.111	0.141	0.028	0.026	0.015	0.029	0.091	0.094
14	0.164	0.104	0.121	0.085	0.130	0.109	0.021	0.022	0.015	0.029	0.094	0.052
15	0.153	0.127	0.121	0.070	0.079	0.047	0.019	0.030	0.015	0.029	0.126	0.024
16	0.143	0.114	0.121	0.072	0.076	0.047	0.033	0.124	0.015	1.601	0.097	0.020
17	0.156	0.091	0.132	0.077	0.076	0.052	0.032	0.022	0.018	0.396	0.079	0.043
18	0.167	0.101	0.162	0.250	0.072	0.045	0.026	0.124	0.016	0.082	0.065	0.415
19	0.165	0.103	0.134	0.126	0.068	0.041	0.014	0.032	0.018	0.072	0.058	0.092
20	0.185	0.094	0.099	0.109	0.072	0.032	0.021	0.022	0.015	0.072	0.065	0.065
21	0.191	0.099	0.100	0.090	0.077	0.033	0.013	0.019	0.015	0.072	0.072	0.058
22	0.142	0.090	0.100	0.419	0.079	0.031	0.012	0.014	0.015	0.072	0.072	0.061
23	0.121	0.090	0.100	0.132	0.080	0.049	0.015	0.030	0.018	0.072	0.072	0.110
24	0.130	0.103	0.106	0.099	0.068	0.047	0.015	0.023	0.018	0.072	0.072	0.118
25	0.155	0.103	0.103	0.103	0.112	0.055	0.015	0.014	0.015	0.072	0.072	0.172
26	0.150	0.103	0.103	0.099	0.105	0.052	0.015	0.022	0.015	0.065	0.072	0.189
27	0.138	0.113	0.105	0.096	0.071	0.043	0.015	0.032	0.015	0.058	0.072	0.176
28	0.163	0.103	0.094	0.096	0.069	0.036	0.015	0.019	0.015	0.058	0.072	0.176
29	0.148	0.103	0.098	0.098	0.070	0.044	0.019	0.027	0.015	0.058	0.072	0.165
30	0.119	0.094	0.091	0.063	0.027	0.027	0.269	0.089	0.015	0.058	0.072	0.125
31	0.131		0.084		0.073		0.149	0.031		0.058		0.121
MEAN	0.1581	0.1068	0.1126	0.1091	0.0837	0.0494	0.0369	0.0362	0.0222	0.1217	0.0703	0.1002
INCHES	0.300	0.189	0.213	0.200	0.159	0.091	0.070	0.069	0.041	0.231	0.129	0.190
STA AV	0.250	0.348	0.636	0.325	0.301	1.290	0.545	0.336	0.515	0.338	0.297	0.282

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.06119. STA AV are based on 6 yr record period.

COTTONWOOD, SOUTH OAKOTA WATERSHED H-2

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.

AREA: 2.13 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COTTONWOOD, SOUTH OAKOTA WATERSHED H-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 0	0.29 0.0	0.17 0.0	0.10 0.0	1.56 0.0	1.46 0.0	6.47 0.414	1.03 0.0	1.81 0.0	0.48 0.0	0.08 0.0	0.36 0.0	0.76 0.0	14.57 0.414
STA AV	P 0	0.27 0.091	0.19 0.0	0.66 0.117	1.98 0.006	2.83 0.220	4.34 0.469	1.11 0.018	1.34 0.017	1.26 0.018	0.40 0.0	0.21 0.0	0.45 0.0	15.00 0.956

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	6-7	0.703	6-7	0.264	6-7	0.271	6-7	0.273	6-7	0.273	6-8	0.374	6-7	0.374	6-1	0.412

MAXIMUMS FOR PERIOD OF RECORD															
5-30	3.577	5-30	0.608	5-30	0.629	5-30	1.129	5-30	1.129	5-30	1.129	5-30	1.129	6-11	1.372
1963	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963	1963	1967	1967

NOTES: Watershed conditions: 100% heavily grazed rangeland. Vegetative cover in late July was 436.9 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72.1-5. For temperature information, see table of maximum and minimum values included for Watershed 72.005. Arithmetic mean of rain gages RH-1, RR-2, RH-3 and RH-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 6 yr record period. For long-time precipitation records, see U.S. Weather Station records at Cottonwood, South Dakota.

1968 DAILY PRECIPITATION (inches)													COTTONWOOD, SOUTH DAKOTA WATERSHED H-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.095S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.065S		
2	0.015S	0.0	0.0	0.165S	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.025S		
3	0.075S	0.0	0.0	0.585S	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.165S	0.0		
5	0.085S	0.0	0.0	0.0	0.09	0.23	0.0	0.0	0.0	0.0	0.025S	0.0		
6	0.0	0.0	0.0	0.0	0.03	1.22	0.0	0.0	0.0	0.0	0.025S	0.0		
7	0.0	0.0	0.0	0.055S	0.37	1.10	0.0	0.0	0.07	0.0	0.035S	0.0		
8	0.0	0.0	0.0	0.025S	0.03	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.41	0.0	0.0	0.085S	0.0		
10	0.0	0.0	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.025S	0.0		
11	0.0	0.035S	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.245S		
13	0.0	0.0	0.0	0.105S	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.115S		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.31	0.36	0.0	0.0	0.04	0.085S	0.015S	0.025S		
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.19	0.0	0.0	0.025S		
17	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.40	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.055S	0.0	0.07	0.40	0.0	0.01	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.045S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.055S	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.025S		
21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.105S		
22	0.0	0.0	0.0	0.125S	0.31	0.0	0.04	0.0	0.05	0.0	0.0	0.065S		
23	0.0	0.015S	0.015S	0.0	0.02	0.68	0.0	0.03	0.0	0.0	0.0	0.0		
24	0.0	0.025S	0.0	0.0	0.0	0.60	0.95	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.035S	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.025S	0.075S		
26	0.045S	0.035S	0.0	0.055S	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.025S		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.025S		
30	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.29	0.17	0.10	1.56	1.46	6.47	1.03	1.81	0.48	0.08	0.36	0.76		
STA AV	0.27	0.19	0.66	1.98	2.83	4.34	1.11	1.34	1.26	0.40	0.21	0.45		

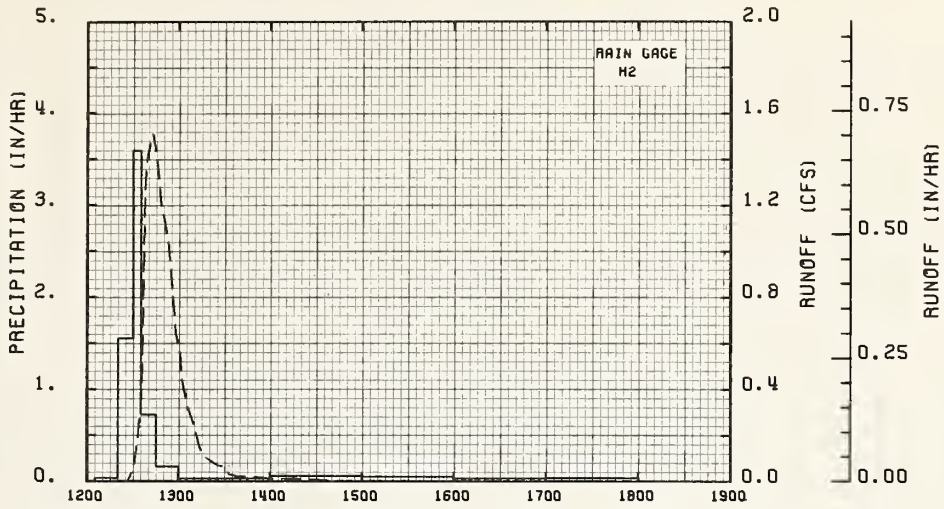
NOTES: Arithmetic mean of rain gages RH-1, RH-2, RR-3 and RH-4. STA AV based on 6 yr record period.

1968		MEAN DAILY DISCHARGE (cfs)						COTTONWOOD, SOUTH DAKOTA WATERSHED H-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.414	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.091	0.0	0.117	0.006	0.220	0.469	0.018	0.017	0.018	0.0	0.0	0.0	

NOTES: STA AV based on 6 yr record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 11.1745.

1968		SELECTED RUNOFF EVENT				COTTONWOOD, SOUTH DAKOTA WATERSHED H-2					
ANTECEDENT CONDITIONS		RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 7, 1968											
6-7	RG H2 0.0	0.003	6-7	1205	H2 0.0	0.0	6-7	1226	0.0	0.0	
				1220	0.0400	0.01		1228	0.02	0.0001	
				1230	1.5600	0.27		1231	0.08	0.0013	
				1235	3.6000	0.57		1233	0.18	0.0033	
				1245	0.7200	0.69		1235	0.32	0.0072	
				1300	0.1600	0.73		1236	0.50	0.0104	
				1400	0.0300	0.76		1238	1.30	0.0244	
				1500	0.0600	0.82		1239	1.40	0.0349	
				1600	0.0500	0.87		1242	1.50	0.0686	
				1700	0.0300	0.90		1243	1.51	0.0802	
				1800	0.0400	0.94		1246	1.37	0.1138	
								1248	1.22	0.1338	
								1253	1.04	0.1778	
								1256	0.80	0.1991	
								1258	0.64	0.2103	
								1301	0.55	0.2242	
								1302	0.44	0.2280	
								1306	0.32	0.2398	
								1310	0.24	0.2485	
								1312	0.19	0.2518	
								1313	0.16	0.2531	
								1315	0.12	0.2553	
								1318	0.10	0.2579	
								1325	0.07	0.2625	
								1330	0.06	0.2649	
								1333	0.03	0.2659	
								1338	0.02	0.2670	
								1345	0.02	0.2680	
								1401	0.01	0.2695	
								1418	0.01	0.2705	
								1443	0.0	0.2716	
								1516	0.0	0.2726	
								1545	0.0	0.2732	
								1616	0.0	0.2735	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4656.



EVENT OF JUNE 7, 1968
COTTONWOOD, SOUTH DAKOTA WATERSHED R-2

COTTONWOOD, SOUTH DAKOTA WATERSHED L-2

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.

AREA: 2.38 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COTTONWOOD, SOUTH DAKOTA WATERSHED L-2				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P 0.25	0.17	0.09	1.63	1.48	6.23	1.08	1.89	0.51	0.08	0.34	0.57	14.32					
	O 0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.021					
STA AV	P 0.25	0.20	0.62	1.96	2.82	4.33	1.06	1.35	1.29	0.39	0.20	0.35	14.79					
	O 0.0	0.0	0.280	0.0	0.045	0.328	0.001	0.0	0.0	0.0	0.0	0.0	0.654					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1968	Maximum Discharge Date	Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6-7	0.090	6-7	0.017	6-7	0.017	6-7	0.017	6-7	0.017	6-8	0.019	6-7	0.019	6-1	0.020		
MAXIMUMS FOR PERIOD OF RECORD																		
	6-15	0.542	6-15	0.388	6-15	0.540	6-15	1.073	6-15	1.164	6-15	1.243	6-15	1.243	3-8	1.544		
	1963		1963		1963		1963		1963		1963		1963		1966			

NOTES: Watershed conditions: 100% lightly grazed rangeland. Vegetative cover in late July was 839.5 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72.2-4. For temperature information, see table of maximum and minimum values included for Watershed 72.005. Arithmetic mean of rain gages RL-1, RL-2, RL-3 and RL-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 6 yr record period. For long-time precipitation records, see U.S. Weather Station records at Cottonwood, South Dakota.

1968 DAILY PRECIPITATION (inches)													COTTONWOOD, SOUTH DAKOTA WATERSHED L-2
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.055	
2	0.035	0.0	0.0	0.135	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.025	
3	0.065	0.0	0.0	0.695	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.115	0.0	
5	0.085	0.0	0.0	0.0	0.06	0.23	0.0	0.0	0.0	0.0	0.035	0.0	
6	0.0	0.0	0.0	0.0	0.04	1.20	0.0	0.0	0.0	0.0	0.045	0.0	
7	0.0	0.0	0.0	0.045	0.36	1.12	0.0	0.0	0.09	0.0	0.045	0.0	
8	0.0	0.0	0.0	0.025	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.41	0.0	0.0	0.055	0.0	
10	0.0	0.0	0.0	0.0	0.02	0.05	0.0	0.0	0.0	0.0	0.035	0.0	
11	0.0	0.035	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.175	
13	0.0	0.0	0.0	0.095	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.025	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.35	0.36	0.0	0.0	0.04	0.085	0.015	0.015	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.015	
17	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.34	0.0	0.0	0.015	0.0	
18	0.0	0.0	0.075	0.0	0.09	0.23	0.0	0.07	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	
20	0.0	0.065	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.015	
21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.095	
22	0.0	0.0	0.0	0.135	0.30	0.0	0.04	0.0	0.05	0.0	0.0	0.115	
23	0.0	0.015	0.0	0.0	0.02	0.66	0.0	0.04	0.0	0.0	0.0	0.0	
24	0.0	0.025	0.0	0.0	0.0	0.65	0.98	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.055	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.025	0.045	
26	0.045	0.0	0.0	0.055	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.015	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.025	
30	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.25	0.17	0.09	1.63	1.48	6.23	1.08	1.89	0.51	0.08	0.34	0.57	
STA AV	0.25	0.20	0.62	1.96	2.82	4.33	1.06	1.35	1.29	0.39	0.20	0.35	

NOTES: Arithmetic mean of rain gages RL-1, RL-2, RL-3 and RL-4. STA AV based on 6 yr record period.

1968		MEAN DAILY DISCHARGE (cfs)											COTTONWOOD, SOUTH DAKOTA WATERSHED L-2											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
7	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0											
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0											
STA AV	0.0	0.0	0.280	0.0	0.045	0.328	0.001	0.0	0.0	0.0	0.0	0.0	0.0											

NOTES: STA AV based on 6 yr record period. To convert mean daily discharge in CFS to IN/OAY, multiply by 10.0007.

COTTONWOOD, SOUTH OAKOTA WATERSHED M-1

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.

AREA: 2.35 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COTTONWOOD, SOUTH OAKOTA WATERSHED M-1														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	0.30	0.18	0.10	1.87	1.46	6.34	1.06	1.80	0.48	0.08	0.34	0.89	14.90														
	O	0.0	0.0	0.0	0.0	0.0	0.173	0.0	0.0	0.0	0.0	0.0	0.0	0.173														
STA AV	P	0.26	0.19	0.64	2.00	2.83	4.38	1.09	1.34	1.24	0.41	0.22	0.47	15.05														
	O	0.0	0.0	0.319	0.0	0.220	0.311	0.001	0.002	0.0	0.0	0.0	0.0	0.853														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	6-7	0.569	6-7	0.154	6-7	0.155	6-7	0.155	6-7	0.155	6-8	0.159	6-7	0.167	6-1	0.172

MAXIMUMS FOR PERIOD OF RECORD																		
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1963	5-30	2.030	1963	5-30	0.710	1963	5-30	0.760	1963	5-30	1.122	1963	5-30	1.122	1963	5-30	1.122	
														3-8	1.538	1966	3-8	1.913

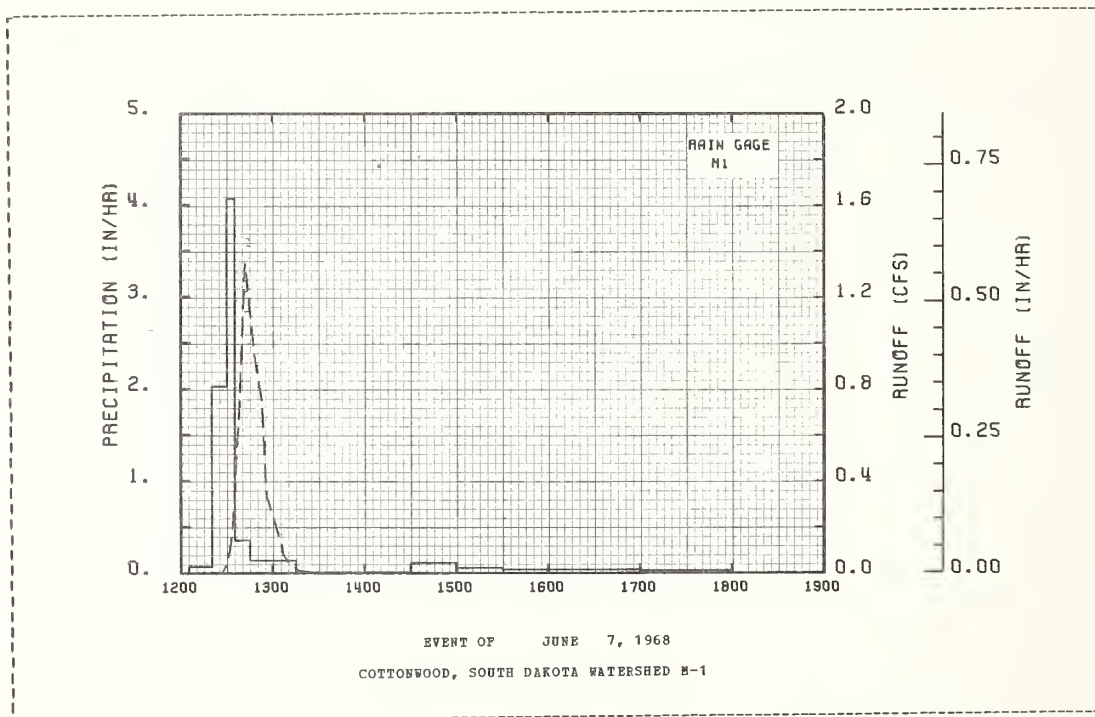
NOTES: Watershed conditions: 100% moderately grazed rangeland. Vegetative cover in late July was 359.4 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72.5-7. Arithmetic mean of rain gages RM-1, RM-2, RM-3 and RM-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 6 yr record period. For long-time precipitation records, see U.S. Weather Station records at Cottonwood, South Dakota.

1968 DAILY AIR TEMPERATURE (degrees F)														COTTONWOOD, SOUTH DAKOTA WATERSHED M-1													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	28	-5	43	13	58	27	69	27	86	38	81	41	70	49	88	42	82	40	86	39	58	27	48	28			
2	-5	-19	48	13	55	17	66	27	80	38	91	42	75	40	94	49	80	49	85	41	59	23	34	24			
3	14	-33	53	16	58	7	49	18	68	33	99	52	83	50	96	53	75	50	57	25	65	30	40	11			
4	11	-16	42	22	67	22	38	5	65	27	98	55	85	49	98	57	70	36	78	26	61	32	48	25			
5	32	-6	54	17	60	20	54	6	72	34	79	53	81	58	100	56	71	37	76	46	49	30	30	12			
6	-3	-25	47	20	71	26	58	36	69	50	77	55	87	55	100	67	84	42	75	30	32	26	36	7			
7	1	-29	45	9	68	30	47	37	55	39	71	55	90	54	102	62	88	47	75	41	31	24	32	-2			
8	20	-18	46	19	57	28	52	32	56	45	69	56	86	59	98	57	65	49	67	43	41	20	41	9			
9	24	0	51	16	49	23	61	25	63	27	79	58	85	52	92	57	76	34	63	26	38	29	53	20			
10	39	3	40	22	43	25	75	32	64	32	74	55	96	54	67	57	87	37	76	22	37	16	54	9			
11	35	15	42	20	42	19	83	38	58	28	75	52	96	54	83	56	92	43	73	33	38	10	67	22			
12	25	-2	26	7	46	7	81	34	74	34	88	46	94	60	89	58	98	52	85	36	53	18	48	11			
13	23	-13	22	1	64	15	47	29	76	52	88	59	95	62	88	50	94	55	88	52	55	32	14	0			
14	41	2	28	2	62	37	60	24	79	41	74	53	94	58	73	54	97	50	85	46	44	27	17	-16			
15	38	5	37	11	60	23	80	27	78	46	71	49	98	66	85	57	95	48	69	48	42	15	36	4			
16	43	16	36	12	69	16	78	40	64	37	73	43	96	66	85	50	77	47	64	42	45	34	42	3			
17	40	12	24	-9	72	29	49	35	63	34	87	52	93	64	77	42	70	46	53	38	36	22	40	19			
18	36	13	26	-1	64	32	48	25	60	35	86	56	89	57	77	54	80	38	56	17	30	18	32	17			
19	42	23	36	21	33	25	55	36	54	33	93	56	84	55	85	53	78	38	68	22	35	13	23	9			
20	49	25	40	6	33	10	63	37	59	28	92	56	104	60	88	55	78	44	79	24	66	25	16	-2			
21	50	26	16	2	32	13	61	30	73	31	93	55	98	57	92	57	80	57	62	44	60	32	13	3			
22	44	32	21	8	36	-5	53	32	71	48	87	55	92	56	93	56	76	49	60	24	65	34	12	9			
23	43	21	33	15	63	11	54	29	63	46	84	55	93	60	83	66	74	33	59	31	55	30	11	0			
24	62	34	50	21	69	27	58	24	61	45	74	59	87	57	82	51	73	38	68	19	51	25	5	-3			
25	49	28	50	34	68	33	62	34	66	36	67	48	83	53	89	43	78	35	71	27	48	30	32	2			
26	36	27	50	26	65	28	60	40	68	41	68	44	87	63	89	47	78	37	70	27	41	24	21	10			
27	27	10	46	22	67	29	60	34	71	44	88	49	87	56	85	56	80	33	50	34	54	19	18	11			
28	34	15	35	21	74	30	68	29	75	44	87	63	85	59	87	60	77	34	71	19	42	23	11	1			
29	29	15	60	8	73	30	77	37	80	40	79	50	93	61	80	55	78	33	83	33	46	11	4	-17			
30	56	21			78	26	87	40	80	53	75	51	93	64	76	51	83	40	86	32	58	19	-4	-25			
31	49	31			60	20			73	49			88	43	78	45			68	38			10	-17			
AV.	32	6	39	13	58	22	61	30	68	39	81	52	89	56	87	54	80	42	71	33	47	24	28	6			
MEAN	19.7		26.6		40.3		45.9		53.8		67.0		72.9		70.6		61.5		52.1		35.9		17.3				
STA AV	33	6	36	9	46	19	61	32	71	42	81	53	91	59	89	55	79	46	66	33	49	20	36	10			

NOTES: Temperature data from U.S. Weather Station records at Cottonwood, South Dakota for 24 hour period ending at 1700. STA AV based on 59 yr record period.

1968 SELECTED RUNOFF EVENT			COTTONWOOD, SOUTH DAKOTA WATERSHED H-1								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 7, 1968											
6-7	RG M1 0.0	0.0	6-7	RG M1 1205	0.0	0.0	6-7	1227	0.0	0.0	
					1220	0.0800	0.02	1228	0.02	0.0001	
					1230	2.0400	0.36	1231	0.06	0.0009	
					1235	4.0800	0.70	1233	0.15	0.0024	
					1245	0.3600	0.76	1235	0.32	0.0057	
WATERSHED CONDITIONS: 100% moderately grazed rangeland; vegetative cover in late July was 359.4 lbs. per acre (oven-dry weight).					1315	0.1400	0.83	1236	0.49	0.0085	
					1430	0.0080	0.84	1238	0.69	0.0168	
					1500	0.1200	0.90	1242	1.35	0.0455	
					1530	0.0600	0.93	1245	1.15	0.0719	
					1600	0.0400	0.95	1248	0.95	0.0939	
					1700	0.0400	0.99	1253	0.74	0.1236	
					1800	0.0300	1.02	1256	0.33	0.1348	
								1301	0.23	0.1446	
								1305	0.14	0.1497	
								1307	0.08	0.1513	
							1311	0.04	0.1530		
							1317	0.01	0.1541		
							1330	0.0	0.1548		
							1346	0.0	0.1550		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4220.



AHOSKIE, NORTH CAROLINA WATERSHED W-A1

LOCATION: Hertford, Bertie, and Northampton Counties, North Carolina; approximately 3/4 mile southwest of Ahoskie; Chowan River Basin.

AREA: 36480.00 acres 57.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A1															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	3.96	0.97	4.74	3.11	4.56	4.56	6.49	1.65	1.24	3.83	2.98	1.88	39.97	P	3.96	0.97	4.74	3.11	4.56	4.56	6.49	1.65	1.24	3.83	2.98	1.88	39.97	
	O	3.893	0.357	3.616	1.427	0.735	0.750	1.597	0.173	0.102	0.153	0.267	0.235	13.304	O	3.893	0.357	3.616	1.427	0.735	0.750	1.597	0.173	0.102	0.153	0.267	0.235	13.304	
STA AV	P	3.61	3.06	2.90	1.90	3.76	4.70	5.12	4.93	2.35	1.72	1.62	2.59	38.24	P	3.61	3.06	2.90	1.90	3.76	4.70	5.12	4.93	2.35	1.72	1.62	2.59	38.24	
	O	2.158	1.994	2.599	0.709	0.656	0.877	1.202	1.168	0.281	0.151	0.164	0.584	12.543	O	2.158	1.994	2.599	0.709	0.656	0.877	1.202	1.168	0.281	0.151	0.164	0.584	12.543	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days						
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
	1-	1	0.0	1-	1	0.0	1-	1	0.0	1-	1	0.0	1-	1	0.0	1-	1	0.0			
	10-	5	0.070	10-	5	0.070	10-	5	0.140	10-	5	0.420	10-	5	1.650	10-	5	3.020	10-	3	4.140
	1964		1964		1964		1964		1964		1964		1964		1964		1964		1964		1964

NOTES: Watershed conditions: Woodland, 65%; row crops, 30%; pasture, 2%; roads, urban, and homesites, 3%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation began in 1964. Records of runoff began in 1950. STA AV computed on 1965 thru 68 data. Precipitation Thiessen weighted using 10 gages. Maximum volumes of runoff not available for 1968. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968 DAILY AIR TEMPERATURE (degrees F)														AHOSKIE, NORTH CAROLINA WATERSHED W-A1													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	42	32	50	39	40	25	75	49	79	42	81	49	95	69	91	71	80	62	85	46	NR	NR	56	27			
2	41	25	68	41	61	31	60	36	78	48	87	60	93	71	90	72	86	62	89	51	NR	NR	63	46			
3	50	32	65	31	59	32	57	40	86	52	82	63	92	72	92	72	86	61	89	63	NR	NR	57	42			
4	57	42	53	24	56	14	78	53	87	61	82	56	88	66	94	73	86	60	86	57	NR	NR	61	42			
5	48	23	54	23	63	29	77	64	75	54	83	50	78	65	92	68	88	60	67	30	NR	NR	58	31			
6	34	18	57	21	64	28	67	45	69	44	85	49	84	65	94	69	85	65	75	31	NR	NR	55	28			
7	41	30	51	35	56	37	67	33	69	38	85	55	85	57	96	71	84	66	79	62	NR	NR	52	22			
8	33	13	44	46	63	22	80	44	73	35	87	68	86	59	95	70	85	55	78	49	NR	NR	45	19			
9	30	17	51	22	76	49	81	56	78	45	83	66	84	60	95	70	84	57	74	49	NR	NR	37	20			
10	31	24	49	26	70	58	70	47	80	55	87	67	94	68	94	70	82	66	73	51	NR	NR	31	20			
11	30	23	34	18	67	43	57	46	80	56	84	67	86	70	90	62	85	62	75	58	NR	NR	37	15			
12	29	9	39	9	64	44	69	35	81	64	86	70	82	69	82	61	84	52	75	50	NR	NR	50	13			
13	53	24	38	15	68	36	77	37	79	62	83	64	88	69	85	56	81	50	80	54	NR	NR	67	25			
14	55	31	52	16	45	23	83	40	70	53	79	51	90	69	91	68	84	51	81	58	NR	NR	62	46			
15	39	25	51	30	62	25	81	46	68	55	88	52	90	69	92	68	84	46	80	60	NR	NR	48	26			
16	44	26	51	18	70	42	65	41	80	58	89	63	93	69	89	69	83	49	80	61	NR	NR	38	12			
17	49	17	62	35	59	45	71	34	86	59	89	68	92	67	94	70	82	49	83	60	NR	NR	49	20			
18	56	21	52	30	58	45	75	43	86	62	85	62	89	67	95	73	80	51	81	66	NR	NR	55	19			
19	60	22	47	14	70	39	82	51	83	59	82	66	89	68	91	70	85	60	83	67	NR	NR	60	32			
20	60	23	59	24	78	40	80	48	72	45	87	69	89	69	94	68	85	50	73	56	NR	NR	64	47			
21	64	28	57	22	86	54	80	53	74	43	87	58	87	61	96	71	83	51	73	39	NR	NR	49	27			
22	60	28	38	15	85	57	75	50	75	43	86	57	89	62	96	68	86	50	77	38	NR	NR	45	29			
23	63	30	40	22	77	48	66	46	80	50	93	68	90	68	96	73	88	53	77	55	NR	NR	56	39			
24	62	27	39	26	56	27	72	51	90	61	93	70	91	71	98	70	86	52	80	53	NR	NR	49	11			
25	49	22	45	23	60	27	69	41	89	58	92	71	92	69	97	75	88	62	78	71	NR	NR	39	21			
26	44	17	47	17	68	32	73	40	77	49	95	75	91	71	93	66	89	62	NR	NR	NR	NR	41	21			
27	56	21	52	14	78	37	83	46	68	59	95	75	85	70	87	60	84	64	67	29	NR	NR	58	22			
28	64	25	57	22	77	49	76	48	63	51	90	62	90	71	77	54	83	48	67	46	NR	NR	71	43			
29	68	28	52	34	82	54	68	35	75	52	88	55	88	69	80	52	82	47	58	31	NR	NR	67	NR			
30	68	31			80	51	72	46	77	57	92	66	86	67	80	47	81	53	59	31	NR	NR	45	22			
31	64	42			84	41			78	49			88	66	81	47		64	26				46	33			
AV.	49	25	50	24	67	38	72	44	77	52	86	62	88	67	90	66	84	55	76	50	NR	NR	52	27			
MEAN			37.5		37.4		52.7		58.9		65.0		74.7		77.9		78.6		70.1		63.1		NR		39.9		
STA AV	51	28	54	31	63	38	73	46	80	54	86	61	89	66	88	65	83	58	73	47	64	38	53	30			

NOTES: Temperature data from O.S. Weather Bureau Station records at Lewiston, North Carolina. STA AV based on 15 yr record period.

1968		DAILY PRECIPITATION (inches)					AHOSKIE, NORTH CAROLINA WATERSHED W-A1						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.14	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
2	0.0	0.22	0.0	0.0	0.0	0.22	0.0	0.0	0.24	0.0	0.0	0.16	
3	0.0	0.03	0.0	0.0	0.0	0.06	1.74	0.0	0.0	0.0	0.0	0.13	
4	0.24	0.0	0.0	0.0	0.20	0.0	0.20	0.24	0.0	0.16	0.0	0.20	
5	0.0	0.0	0.0	1.39	0.18	0.0	0.38	0.0	0.0	0.0	0.0	0.0	
6	0.44	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.69	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48	0.0	0.04	
8	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.21	
9	0.11	0.0	0.0	0.0	0.0	0.19	0.66	0.09	0.11	0.0	0.50	0.01	
10	0.69	0.0	0.28	0.23	0.0	0.36	0.0	0.10	0.04	0.0	0.79	0.0	
11	0.16	0.0	0.0	0.0	0.01	0.23	0.0	0.07	0.0	0.0	0.67	0.0	
12	0.21	0.0	1.00	0.0	1.17	0.35	0.0	0.0	0.0	0.0	0.55	0.0	
13	1.51	0.0	0.07	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	
14	0.47	0.0	0.0	0.0	0.36	0.0	0.17	0.27	0.0	0.33	0.0	0.27	
15	0.0	0.0	0.0	0.18	0.03	0.0	0.07	0.38	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.12	0.0	0.0	0.0	0.48	0.03	0.0	0.0	0.0	0.0	
17	0.0	0.0	2.53	0.0	0.0	0.40	0.23	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.70	0.46	0.85	0.47	0.0	0.0	0.24	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	
23	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.08	
24	0.13	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	1.28	1.99	0.42	0.0	0.16	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.24	0.0	0.27	
29	0.0	0.72	0.0	0.22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	
TOTAL	3.96	0.97	4.74	3.11	4.56	4.56	6.49	1.65	1.24	3.83	2.98	1.88	
STA AV	3.61	3.06	2.90	1.90	3.76	4.70	5.12	4.93	2.35	1.72	1.62	2.59	

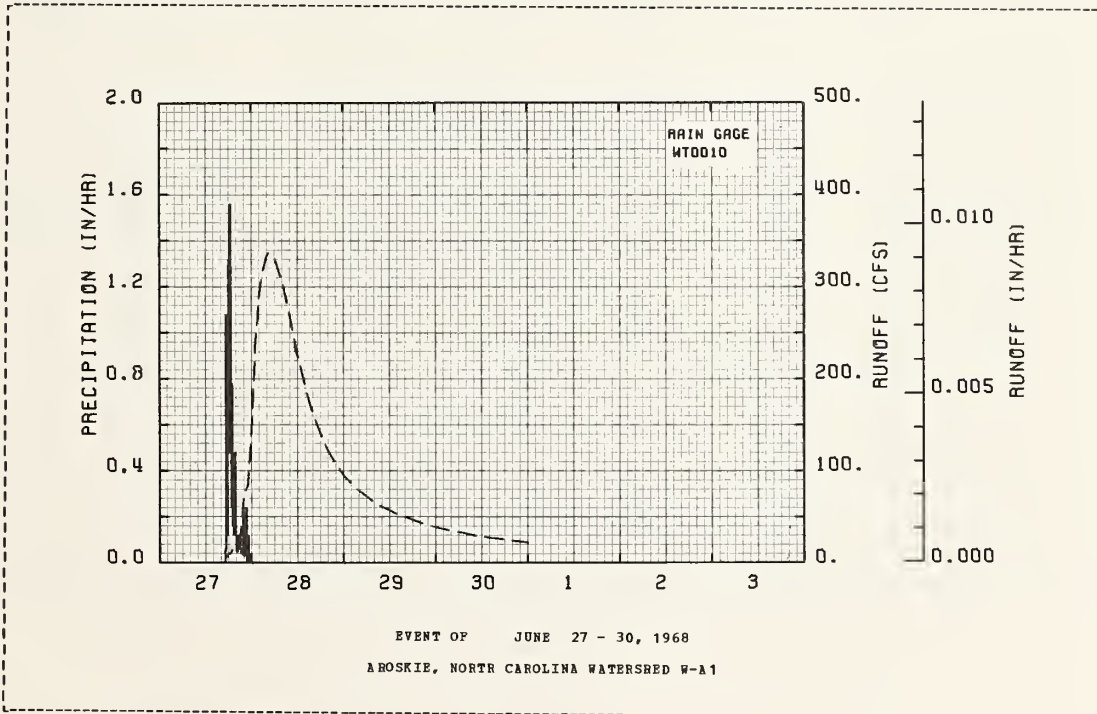
NOTES: Precipitation values are Thiessen weighted averages of 10 gages. STA AV based on 4 yr record period.

1968		MEAN DAILY DISCHARGE (cfs)					AHOSKIE, NORTH CAROLINA WATERSHED W-A1						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	99.0	32.0	50.0	50.0	23.0	29.0	21.0	12.0	6.0	3.8	6.0	9.4	
2	87.0	29.0	67.0	64.0	20.0	22.0	17.0	11.0	6.2	3.8	6.3	9.8	
3	74.0	47.0	59.0	52.0	18.0	20.0	17.0	11.0	5.8	3.8	6.0	10.0	
4	89.0	48.0	46.0	47.0	16.0	18.0	279.0	10.0	5.8	3.8	5.5	12.0	
5	112.0	36.0	40.0	46.0	16.0	15.0	142.0	10.0	5.6	3.8	5.5	13.0	
6	85.0	30.0	36.0	521.0	18.0	13.0	145.0	10.0	6.2	3.8	5.8	13.0	
7	168.0	28.0	30.0	265.0	16.0	12.0	76.0	9.1	8.8	12.0	5.8	12.0	
8	119.0	26.0	26.0	156.0	14.0	12.0	40.0	8.5	7.0	12.0	6.0	12.0	
9	84.0	23.0	24.0	107.0	12.0	19.0	28.0	8.5	6.0	8.0	6.0	10.0	
10	82.0	21.0	24.0	78.0	12.0	24.0	103.0	8.8	6.0	6.3	15.0	10.0	
11	113.0	18.0	30.0	77.0	11.0	75.0	142.0	8.2	5.6	5.8	17.0	9.8	
12	95.0	17.0	110.0	80.0	14.0	81.0	443.0	8.2	5.4	5.5	61.0	9.4	
13	218.0	15.0	310.0	62.0	97.0	136.0	193.0	8.2	5.4	5.5	44.0	9.6	
14	1700.0	14.0	194.0	49.0	41.0	56.0	90.0	8.2	5.2	5.5	22.0	10.0	
15	1000.0	14.0	131.0	44.0	44.0	33.0	50.0	11.0	5.0	8.2	17.0	12.0	
16	500.0	14.0	101.0	45.0	43.0	23.0	101.0	11.0	4.9	7.7	15.0	14.0	
17	294.0	12.0	546.0	37.0	30.0	17.0	91.0	8.8	4.9	5.8	14.0	12.0	
18	182.0	12.0	1460.0	32.0	28.0	40.0	42.0	8.0	4.7	5.5	13.0	11.0	
19	142.0	11.0	988.0	28.0	88.0	70.0	30.0	12.0	4.7	6.8	13.0	10.0	
20	111.0	11.0	324.0	26.0	46.0	34.0	144.0	12.0	4.7	24.0	14.0	9.6	
21	91.0	11.0	196.0	23.0	28.0	23.0	67.0	7.7	4.6	17.0	13.0	10.0	
22	79.0	10.0	134.0	22.0	20.0	15.0	33.0	6.8	4.6	12.0	12.0	11.0	
23	68.0	9.6	122.0	20.0	17.0	12.0	23.0	6.6	4.5	9.1	11.0	13.0	
24	59.0	9.2	112.0	26.0	14.0	10.0	18.0	6.4	4.5	8.0	11.0	15.0	
25	53.0	8.5	84.0	70.0	12.0	9.1	16.0	6.2	4.3	7.1	11.0	14.0	
26	48.0	7.3	68.0	49.0	12.0	8.2	15.0	6.1	4.2	6.6	12.0	12.0	
27	44.0	9.6	59.0	36.0	61.0	14.0	16.0	6.0	4.1	6.6	11.0	11.0	
28	44.0	10.0	50.0	28.0	147.0	219.0	23.0	6.0	4.1	6.6	10.0	12.0	
29	44.0	14.0	44.0	23.0	100.0	61.0	16.0	6.2	4.0	6.8	10.0	15.0	
30	42.0	0.0	40.0	24.0	67.0	29.0	14.0	6.0	3.9	6.6	9.8	14.0	
31	40.0	0.0	37.0	0.0	42.0	0.0	13.0	6.0	6.3	6.3	0.0	14.0	
MEAN	192.45	18.87	178.77	72.90	36.35	38.31	78.97	8.53	5.22	7.55	13.62	11.60	
INCHES	3.893	0.357	3.616	1.427	0.735	0.750	1.597	0.173	0.102	0.153	0.267	0.235	
STA AV	2.158	1.994	2.599	0.709	0.656	0.877	1.202	1.168	0.281	0.151	0.164	0.584	

NOTES: To convert mean daily discharge in CFS to IN/OAY, multiply by 0.0006525. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 4 yr record period.

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 27 - 30, 1968										
6-27	0.0	0.003	6-27	1700	0.0	0.0	6-27	1730	6.90	0.0
				1720	0.0600	0.02		1800	10.50	0.0001
				1730	1.0800	0.20		1830	11.00	0.0002
				1735	0.1200	0.21		1930	22.80	0.0007
				1745	0.4200	0.28		2030	22.80	0.0013
				1800	0.4800	0.40		2100	30.50	0.0017
				1815	1.3200	0.73		2200	74.20	0.0031
				1825	1.0201	0.90		2300	85.90	0.0053
				1835	1.5600	1.16		2400	143.80	0.0084
				1845	0.2400	1.20	6-28	100	235.00	0.0135
				1855	0.7800	1.33		200	291.40	0.0207
				1900	0.4799	1.37		300	318.00	0.0290
				1915	0.1600	1.41		400	333.40	0.0379
				1920	0.1200	1.42		430	337.00	0.0425
				1930	0.3000	1.47		600	331.00	0.0561
				1940	0.4800	1.55		800	305.80	0.0734
				1950	0.1800	1.58		1000	268.60	0.0890
				1955	0.1200	1.59		1200	224.20	0.1024
				2020	0.0480	1.61		1500	175.00	0.1187
				2030	0.1200	1.63		1700	149.30	0.1275
				2040	0.0600	1.64		2000	120.00	0.1385
				2050	0.0600	1.65		2400	94.00	0.1501
				2100	0.1200	1.67	6-29	400	77.80	0.1594
				2110	0.0600	1.68		800	64.30	0.1671
				2140	0.0400	1.70		1400	52.40	0.1766
				2145	0.2400	1.72		2000	42.80	0.1844
				2205	0.0300	1.73		2400	38.00	0.1888
				2220	0.0400	1.74	6-30	1200	27.70	0.1995
				2230	0.1800	1.77		2400	21.60	0.2075
				2240	0.2400	1.81				
				2300	0.0	1.81				
				2310	0.1200	1.83				
				2330	0.0	1.83				
				2345	0.0400	1.84				

NOTES: To convert CFS to IN/HR, multiply by 0.0002719. Precipitation is Thiessen average of 10 rain gages.



AHOSKIE, NORTH CAROLINA WATERSHED W-12

LOCATION: Hertford, Bertie, and Northampton Counties, North Carolina; approximately 5 miles northwest of Aulander; Chowan River Basin.

AREA: 15360.00 acres 24.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-12															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	4.53	0.93	4.46	3.18	4.26	5.45	5.64	1.83	0.68	4.04	2.91	1.61	39.52															
	O	3.479	0.404	2.758	1.283	0.485	1.495	2.117	0.127	0.061	0.253	0.193	0.182	12.837															
STA AV	P	3.61	2.96	2.80	1.92	3.47	5.01	4.52	4.89	2.17	1.83	1.65	2.53	37.34															
	O	1.830	1.939	2.062	0.636	0.466	0.981	1.024	0.902	0.188	0.146	0.123	0.563	10.859															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		1-14	0.050	1-14	0.050	1-14	0.100	1-14	0.310	1-14	0.610	1-14	1.150	1-13	1.800	1-12	2.320												
MAXIMUMS FOR PERIOD OF RECORD																													
		10-5	0.080	10-5	0.080	10-5	0.170	10-5	0.500	10-5	0.970	10-5	1.640	10-4	2.370	10-3	3.060												
		1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964												

NOTES: Watershed conditions: Woodland, 75%; row crops, 22%; pasture, 2%; roads & homesites, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-68 data. Precipitation Thiessen weighted using 5 gages. For temperature information, see table of maximum and minimum values included with data for Watershed 75.001. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968 DAILY PRECIPITATION (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-12													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.17	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.17	0.24	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.24	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.05	0.0	0.14	2	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.14				
3	0.0	0.04	0.0	0.0	0.0	0.0	0.06	2.23	0.0	0.0	0.0	0.15	3	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15				
4	0.15	0.0	0.0	0.0	0.14	0.0	0.22	0.34	0.0	0.11	0.0	0.15	4	0.15	0.0	0.0	0.0	0.14	0.0	0.22	0.34	0.0	0.11				
5	0.0	0.0	0.0	1.41	0.09	0.0	0.59	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	1.41	0.09	0.0	0.59	0.0	0.0	0.0				
6	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.33	0.0	0.0	6	0.51	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.33	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.21	8	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.21				
9	0.12	0.0	0.0	0.0	0.0	0.0	0.29	0.17	0.0	0.12	0.0	0.0	9	0.12	0.0	0.0	0.0	0.0	0.29	0.17	0.0	0.12	0.0				
10	0.74	0.0	0.28	0.24	0.0	0.45	0.0	0.07	0.09	0.0	0.80	0.0	10	0.74	0.0	0.28	0.24	0.0	0.45	0.0	0.07	0.09	0.80				
11	0.11	0.0	0.0	0.0	0.0	0.41	0.0	0.09	0.0	0.0	0.70	0.0	11	0.11	0.0	0.0	0.0	0.0	0.41	0.0	0.09	0.0	0.70				
12	0.17	0.0	0.97	0.0	1.01	0.56	0.0	0.0	0.0	0.0	0.51	0.0	12	0.17	0.0	0.97	0.0	1.01	0.56	0.0	0.0	0.0	0.51				
13	1.96	0.0	0.06	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	13	1.96	0.0	0.06	0.0	0.0	0.0	0.58	0.0	0.0	0.0				
14	0.64	0.0	0.0	0.0	0.38	0.0	0.20	0.17	0.0	0.39	0.0	0.24	14	0.64	0.0	0.0	0.0	0.38	0.0	0.20	0.17	0.0	0.39				
15	0.0	0.0	0.0	0.19	0.03	0.0	0.0	0.65	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.19	0.03	0.0	0.0	0.65	0.0	0.0				
16	0.0	0.0	0.14	0.0	0.0	0.0	0.20	0.05	0.0	0.0	0.0	0.0	16	0.0	0.0	0.14	0.0	0.0	0.0	0.20	0.05	0.0	0.0				
17	0.0	0.0	2.27	0.0	0.0	0.49	0.41	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	2.27	0.0	0.0	0.49	0.41	0.0	0.0	0.0				
18	0.0	0.0	0.0	0.0	0.69	0.46	0.74	0.46	0.0	0.0	0.20	0.0	18	0.0	0.0	0.0	0.0	0.69	0.46	0.74	0.46	0.0	0.20				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0				
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21				
23	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.10	23	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.01				
24	0.13	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	24	0.13	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.16				
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	1.11	2.18	0.22	0.0	0.09	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	1.11	2.18	0.22	0.0	0.09	0.0				
28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.22	0.0	0.19	28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.22	0.0				
29	0.0	0.65	0.0	0.21	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.65	0.0	0.21	0.12	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	31	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.18				
TOTAL	4.53	0.93	4.46	3.18	4.26	5.45	5.64	1.83	0.68	4.04	2.91	1.61	TOTAL	4.53	0.93	4.46	3.18	4.26	5.45	5.64	1.83	0.68	4.04	2.91	1.61		
STA AV	3.61	2.96	2.80	1.92	3.47	5.01	4.52	4.89	2.17	1.83	1.65	2.53	STA AV	3.61	2.96	2.80	1.92	3.47	5.01	4.52	4.89	2.17	1.83	1.65	2.53		

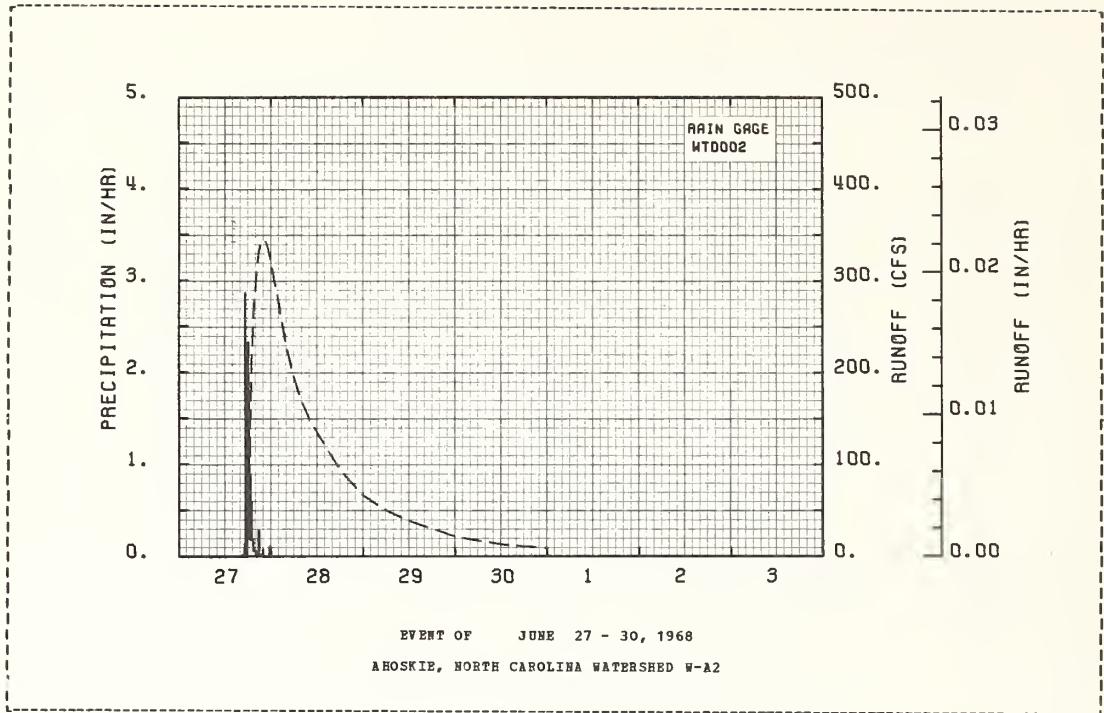
NOTES: Precipitation values are Thiessen weighted averages of 5 gages. STA AV based on 4 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) AHSOKIE, NORTH CAROLINA WATERSHED W-A2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	40.00	11.00	24.00	17.00	8.00	4.90	6.60	3.00	1.60	1.00	1.40	4.10
2	33.00	11.00	26.00	20.00	6.60	3.60	4.40	2.80	1.60	1.00	1.40	4.20
3	27.00	20.00	21.00	16.00	5.70	4.10	96.00	2.80	1.60	1.00	1.20	4.60
4	54.00	17.00	16.00	14.00	5.10	3.40	259.00	3.80	1.60	1.00	1.20	6.10
5	40.00	13.00	14.00	18.00	5.10	2.80	163.00	4.20	1.40	1.00	1.20	4.80
6	30.00	12.00	12.00	203.00	4.80	2.40	146.00	3.00	1.60	1.20	1.20	3.00
7	68.00	12.00	10.00	93.00	4.20	2.30	74.00	2.30	1.70	10.00	1.20	3.00
8	37.00	11.00	8.90	54.00	3.80	9.60	38.00	2.30	1.40	8.40	1.20	2.80
9	26.00	9.80	8.40	36.00	3.60	11.00	22.00	2.20	1.40	3.30	1.20	3.10
10	30.00	9.60	8.70	27.00	3.50	13.00	19.00	2.20	1.40	2.00	1.10	3.00
11	38.00	8.80	14.00	34.00	3.50	106.00	84.00	2.20	1.40	1.60	2.80	3.10
12	30.00	8.20	50.00	35.00	9.40	128.00	148.00	2.20	1.30	1.40	44.00	3.00
13	116.00	7.90	93.00	25.00	17.00	131.00	74.00	2.20	1.30	1.30	12.00	3.00
14	743.00	7.70	58.00	19.00	5.10	50.00	38.00	2.20	1.30	21.00	3.10	3.90
15	410.00	7.50	40.00	18.00	10.00	20.00	21.00	2.20	1.30	7.80	1.30	4.40
16	142.00	7.30	31.00	18.00	7.20	10.00	14.00	4.60	1.30	2.50	1.20	3.30
17	74.00	7.10	408.00	14.00	5.10	14.00	14.00	3.60	1.30	1.60	1.70	3.00
18	50.00	6.90	418.00	12.00	16.00	61.00	14.00	2.20	1.30	1.40	2.20	2.80
19	40.00	6.60	141.00	9.80	28.00	53.00	11.00	12.00	1.30	32.00	4.60	2.80
20	32.00	6.80	81.00	8.50	8.00	26.00	49.00	3.10	1.20	37.00	3.80	2.80
21	28.00	6.80	56.00	7.50	4.00	12.00	18.00	1.90	1.20	8.00	3.40	2.80
22	23.00	6.10	40.00	6.70	2.90	6.40	8.40	1.70	1.20	3.10	3.30	2.70
23	20.00	6.30	45.00	6.20	2.50	4.80	6.30	1.60	1.20	2.00	3.40	5.00
24	19.00	6.30	39.00	9.50	2.30	4.10	4.80	1.40	1.20	2.00	3.60	4.60
25	18.00	6.30	28.00	35.00	2.10	3.50	4.10	1.40	1.00	2.00	4.10	3.90
26	15.00	6.00	22.00	24.00	2.30	2.90	3.90	1.40	1.00	2.00	3.60	5.00
27	14.00	6.00	18.00	17.00	30.00	74.00	7.40	1.40	1.00	1.20	3.40	4.40
28	12.00	6.10	15.00	12.00	48.00	150.00	7.40	1.40	1.00	1.20	3.40	6.50
29	12.00	9.80	13.00	8.90	32.00	38.00	3.90	1.60	1.00	1.70	3.30	5.00
30	12.00		11.00	10.00	18.00	13.00	3.40	1.40	1.00	1.20	3.90	3.60
31	12.00		10.00		9.40		3.30	1.40		1.20		3.40
MEAN	72.419	8.997	57.419	27.603	10.103	32.160	44.061	2.635	1.303	5.261	4.147	3.797
INCHES	3.479	0.404	2.758	1.283	0.485	1.495	2.117	0.127	0.061	0.253	0.193	0.182
STA AV	1.830	1.939	2.062	0.636	0.466	0.981	1.024	0.902	0.188	0.146	0.123	0.563

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0015496. Runoff data furnished by U.S. Geological Survey. Records are good. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT AHSOKIE, NORTH CAROLINA WATERSHED W-A2											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JUNE 27 - 30, 1968											
6-27	RG WT0002 0.0	0.003	6-27	RG WT0002 1700	0.0	0.0	6-27	1630	2.50	0.0	
				1720	0.1500	0.05		1700	3.10	0.0001	
				1725	2.8802	0.29		1730	7.00	0.0003	
				1730	1.9198	0.45		1800	19.30	0.0007	
				1735	0.1200	0.46		1830	124.20	0.0030	
WATERSHED CONDITIONS:											
Watershed condition:											
Approximate land use 75%											
in woodland, 22% in row											
crops, 2% in pasture, 1%											
misc. (roads and homesites).											
				1745	0.0	0.46		1900	214.40	0.0085	
				1750	1.3201	0.57		1930	264.80	0.0162	
				1755	0.6000	0.62		2000	296.80	0.0253	
				1800	1.3198	0.73		2030	321.60	0.0353	
				1810	2.3401	1.12		2100	336.00	0.0459	
				1815	1.6798	1.26		2130	343.20	0.0569	
				1825	0.4200	1.33		2200	345.00	0.0680	
				1835	0.9000	1.48		2230	343.20	0.0791	
				1845	0.1800	1.51		2300	338.70	0.0901	
				1900	0.6000	1.66		2400	321.60	0.1114	
				1920	0.1800	1.72		6-28	100	298.40	0.1314
				1930	0.0600	1.73		400	229.60	0.1825	
				1955	0.0720	1.76		600	193.50	0.2098	
				2030	0.0	1.76		800	168.30	0.2332	
				2040	0.0600	1.77		1000	148.70	0.2537	
				2050	0.3000	1.82		1800	93.00	0.3161	
				2145	0.0218	1.84		2400	66.00	0.3469	
				2200	0.0800	1.86		600	49.50	0.3693	
				2330	0.0	1.86		6-29	1200	38.00	0.3862
				2345	0.1200	1.89		2400	21.40	0.4092	
								6-30	1200	12.80	0.4224
								2400	8.70	0.4307	

NOTES: To convert CFS to IN/HR, multiply by 0.00006457. Precipitation is Thiessen average of 2 rain gages.



AHOSKIE, NORTH CAROLINA WATERSHED W-A3

LOCATION: Northampton County, North Carolina, approximately 3 miles southeast of Rich Square; Chowan River Basin.

AREA: 2368.00 acres 3.70 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A3															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	4.37	1.06	3.66	3.58	3.80	5.18	5.48	1.87	0.58	4.44	2.95	1.84	38.81															
	Q	3.564	0.280	1.908	1.465	0.150	0.367	0.776	0.009	0.0	0.022	0.047	0.016	8.605															
STA AV	P	3.77	3.10	2.66	2.13	3.43	5.05	3.97	5.07	2.05	2.02	1.72	2.69	37.64															
	Q	1.266	1.390	1.362	0.486	0.458	0.302	0.314	0.460	0.060	0.043	0.034	0.356	6.531															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS

1968	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	1-14	0.080	1-14	0.080	1-14	0.170	1-14	0.490	1-13	0.880	1-13	1.290	1-13	1.670	1-13	2.370

MAXIMUMS FOR PERIOD OF RECORD

10- 5	0.120	10- 5	0.120	10- 5	0.240	10- 5	0.670	10- 5	1.240	10- 5	1.880	10- 4	2.570	10- 4	3.490
1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Woodland, 88%; row crops, 10%; homesites, pastures, and roads, 2%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, OSDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-68 data. Precipitation Thiessen weighted using 2 gages. For temperature information, see table of maximum and minimum values included with data for Watershed 75.001. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968 DAILY PRECIPITATION (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A3													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.17	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03															
2	0.0	0.33	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.16															
3	0.0	0.0	0.0	0.0	0.0	0.13	2.39	0.0	0.0	0.0	0.0	0.15															
4	0.19	0.0	0.0	0.0	0.15	0.0	0.19	0.56	0.0	0.11	0.0	0.12															
5	0.0	0.0	0.0	1.47	0.09	0.0	0.69	0.0	0.0	0.0	0.0	0.0															
6	0.51	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.22	0.0	0.0	0.0															
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.0	0.05															
8	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.21															
9	0.12	0.0	0.0	0.0	0.0	0.49	0.11	0.0	0.08	0.0	0.57	0.0															
10	0.76	0.0	0.31	0.26	0.0	0.20	0.0	0.09	0.16	0.0	0.79	0.0															
11	0.10	0.0	0.0	0.0	0.0	0.34	0.0	0.13	0.0	0.0	0.69	0.0															
12	0.15	0.0	0.78	0.0	0.51	0.51	0.0	0.0	0.0	0.0	0.45	0.0															
13	1.98	0.0	0.02	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0															
14	0.40	0.0	0.0	0.0	0.42	0.0	0.19	0.13	0.0	0.20	0.0	0.31															
15	0.0	0.0	0.0	0.27	0.04	0.0	0.0	0.87	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.13	0.0	0.0	0.0	0.03	0.09	0.0	0.0	0.0	0.0															
17	0.0	0.0	1.81	0.0	0.0	0.51	0.70	0.0	0.0	0.0	0.0	0.0															
18	0.0	0.0	0.0	0.0	0.66	0.38	0.56	0.0	0.0	0.0	0.26	0.0															
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.83	0.0	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0															
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25															
23	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.11															
24	0.16	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0															
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.0	0.0	0.99	2.15	0.10	0.0	0.12	0.0	0.0	0.0															
28	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.32	0.0	0.22															
29	0.0	0.73	0.0	0.20	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23															
TOTAL	4.37	1.06	3.66	3.58	3.80	5.18	5.48	1.87	0.58	4.44	2.95	1.84															
STA AV	3.77	3.10	2.66	2.13	3.43	5.05	3.97	5.07	2.05	2.02	1.72	2.69															

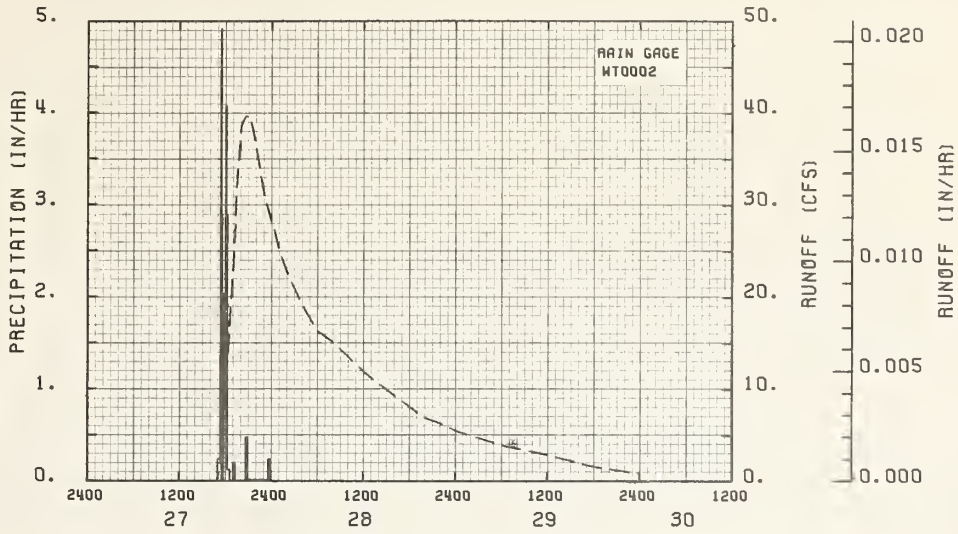
NOTES: Precipitation values are Thiessen weighted averages of 2 gages. STA AV based on 4 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) AHSOKIE, NORTH CAROLINA WATERSHED W-A3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.60	1.70	3.00	2.40	1.90	0.0	0.0	0.0	0.0	0.0	0.01	0.02
2	5.60	1.90	3.50	2.50	1.40	0.0	0.0	0.0	0.0	0.0	0.0	0.02
3	4.40	3.60	2.80	1.80	1.00	0.0	7.20	0.0	0.0	0.0	0.0	0.02
4	6.70	2.70	2.20	1.60	0.70	0.0	16.00	0.10	0.0	0.0	0.0	0.04
5	6.00	1.80	1.80	2.90	0.80	0.0	16.00	0.10	0.0	0.0	0.0	0.04
6	4.80	1.60	1.50	27.00	0.60	0.0	15.00	0.0	0.0	0.0	0.0	0.03
7	9.60	1.40	1.20	14.00	0.40	0.0	5.70	0.0	0.0	0.21	0.0	0.03
8	5.30	1.30	1.00	9.20	0.30	0.0	1.90	0.0	0.0	0.07	0.01	0.04
9	3.50	1.00	1.00	6.50	0.20	0.20	0.80	0.0	0.0	0.01	0.01	0.03
10	4.50	1.00	1.00	4.70	0.20	0.20	0.70	0.0	0.0	0.01	1.20	0.03
11	5.90	0.80	1.80	6.40	0.10	2.50	0.60	0.0	0.0	0.01	0.22	0.03
12	4.10	0.80	5.40	6.90	0.30	2.80	3.30	0.0	0.0	0.01	2.20	0.03
13	20.00	0.70	11.00	4.80	0.20	2.50	1.80	0.0	0.0	0.01	0.55	0.03
14	125.00	0.60	7.70	3.60	0.10	0.40	0.80	0.0	0.0	0.01	0.07	0.30
15	38.00	0.60	5.80	3.50	0.40	0.0	0.40	0.10	0.0	0.01	0.04	0.08
16	23.00	0.60	4.90	3.20	0.30	0.0	0.20	0.60	0.0	0.01	0.02	0.04
17	15.00	0.50	31.00	2.30	0.20	0.30	0.70	0.0	0.0	0.01	0.02	0.03
18	11.00	0.50	34.00	1.80	0.40	2.00	0.70	0.0	0.0	0.01	0.03	0.03
19	9.10	0.40	18.00	1.40	0.50	1.50	0.50	0.0	0.0	0.72	0.06	0.04
20	7.40	0.40	12.00	1.10	0.20	0.50	3.60	0.0	0.0	0.87	0.04	0.04
21	6.10	0.40	8.70	1.00	0.05	0.10	0.70	0.0	0.0	0.07	0.03	0.03
22	5.00	0.40	6.30	0.80	0.0	0.0	0.30	0.0	0.0	0.02	0.02	0.04
23	4.20	0.40	6.00	0.70	0.0	0.0	0.10	0.0	0.0	0.02	0.02	0.08
24	3.80	0.40	4.80	3.40	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.06
25	3.40	0.40	3.50	12.00	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.04
26	3.00	0.40	2.70	8.00	0.0	0.0	0.0	0.0	0.0	0.01	0.03	0.04
27	2.80	0.30	2.10	5.10	1.10	8.30	0.05	0.0	0.0	0.01	0.02	0.04
28	3.00	0.40	1.70	3.00	1.30	12.00	0.05	0.0	0.0	0.01	0.02	0.07
29	2.70	0.90	1.30	1.90	1.30	2.80	0.0	0.0	0.0	0.01	0.02	0.08
30	2.30	1.10	2.30	0.80	0.40	0.40	0.05	0.0	0.0	0.02	0.02	0.06
31	1.80	1.00	1.00	0.20	0.20	0.05	0.0	0.0	0.0	0.01	0.02	0.06
MEAN	11.439	0.962	6.123	4.860	0.482	1.217	2.490	0.029	0.0	0.070	0.157	0.050
INCHES	3.564	0.280	1.908	1.465	0.150	0.367	0.776	0.009	0.0	0.022	0.047	0.016
STA AV	1.266	1.390	1.362	0.486	0.458	0.302	0.344	0.460	0.060	0.043	0.034	0.356

NOTES: To convert mean daily discharge in CPS to IN/OAY, multiply by 0.0100514. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT AHSOKIE, NORTH CAROLINA WATERSHED W-A3												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 27 - 29, 1968												
6-27	RG WTD002 0.0	0.0	6-27	RG WTD002 1700	0.0	0.0	6-27	600	0.0	0.0		
				1720	0.2400	0.08		1630	0.0	0.0		
				1725	4.9203	0.49		1700	0.10	0.0		
				1730	2.8796	0.73		1730	3.00	0.0003		
				1745	0.0	0.73		1800	10.40	0.0017		
				1750	2.0401	0.90		1830	16.20	0.0045		
				1755	0.9601	0.98		1900	23.60	0.0087		
				1800	2.2797	1.17		1930	32.80	0.0146		
				1805	4.0803	1.51		2000	38.60	0.0221		
				1810	2.8802	1.75		2030	39.60	0.0303		
				1815	1.9198	1.91		2100	39.60	0.0386		
				1835	0.1200	1.95		2130	38.20	0.0467		
				1900	0.0	1.95		2300	31.00	0.0684		
				1915	0.2000	2.00		2400	28.00	0.0808		
				2040	0.0	2.00	6-28	100	25.00	0.0919		
				2050	0.4800	2.08		200	22.60	0.1019		
				2335	0.0109	2.11		400	19.00	0.1193		
				2345	0.2400	2.15		600	16.20	0.1340		
								800	15.00	0.1471		
								1200	11.80	0.1695		
								1600	9.20	0.1871		
								2000	6.80	0.2005		
								2200	6.20	0.2059		
								2400	5.40	0.2108		
							6-29	600	3.80	0.2224		
								1200	2.80	0.2307		
								1800	1.50	0.2361		
								2400	0.80	0.2390		

NOTES: To convert CPS to IN/HR, multiply by 0.00041881. Precipitation is Thiessen average of 2 rain gages.



EVENT OF JUNE 27 - 29, 1968
AROSKIE, NORTH CAROLINA WATERSHED W-A3

AHOSKIE, NORTH CAROLINA WATERSHED W-A4

LOCATION: Hertford County, North Carolina; approximately 2 miles southwest of Ahoskie; Chowan River Basin.

AREA: 1664.00 acres 2.60 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A4														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	2.70	1.08	4.97	3.18	4.94	4.12	7.11	1.20	2.07	3.37	2.85	2.00	39.59														
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
STA AV	P	3.35	3.11	3.01	2.09	4.27	4.01	5.15	5.32	2.80	1.47	1.53	2.63	38.73														
	O	0.472	1.193	0.878	0.135	0.427	0.202	0.255	1.237	0.173	0.045	0.045	0.247	5.310														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge				Maximum Volume for Selected Time Interval													
		Date	Rate	Date	Vol.	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1-14	0.130	1-14	0.130	1-14	0.260	1-14	0.730	1-13	1.200	1-13	1.660	1-13	2.010	1-13	2.490		
MAXIMUMS FOR PERIOD OF RECORD																			
		5-30	0.160	5-30	0.160	5-30	0.320	5-29	0.820	1-13	1.200	1-13	1.660	1-13	2.010	8-21	3.480		
		1966		1966		1966		1966		1968		1968		1968		1967			

NOTES: Watershed conditions: Woodland, 60%; row crops, 39%; homesites, pastures, and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, OSDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-68 data. Precipitation Thiessen weighted using 2 gauges. For temperature information, see table of maximum and minimum values included for Watershed 75.001. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968 DAILY PRECIPITATION (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A4													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.15	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02															
2	0.0	0.21	0.0	0.0	0.0	0.20	0.0	0.0	0.55	0.0	0.0	0.15															
3	0.0	0.0	0.0	0.0	0.0	0.04	0.77	0.0	0.0	0.0	0.0	0.12															
4	0.34	0.0	0.0	0.0	0.30	0.0	0.11	0.08	0.0	0.22	0.0	0.23															
5	0.0	0.0	0.0	1.38	0.21	0.0	0.15	0.0	0.0	0.0	0.0	0.0															
6	0.43	0.0	0.0	0.04	0.04	0.0	0.17	0.0	1.06	0.0	0.0	0.0															
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.01															
8	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.24															
9	0.06	0.0	0.0	0.0	0.0	0.19	0.96	0.19	0.18	0.0	0.45	0.0															
10	0.22	0.0	0.32	0.22	0.0	0.27	0.0	0.12	0.0	0.0	0.82	0.0															
11	0.20	0.0	0.0	0.0	0.0	0.04	0.0	0.05	0.0	0.0	0.62	0.0															
12	0.20	0.0	1.05	0.0	1.13	0.15	0.0	0.0	0.0	0.0	0.54	0.0															
13	1.04	0.0	0.08	0.0	0.37	0.0	1.40	0.0	0.0	0.0	0.0	0.0															
14	0.07	0.0	0.0	0.0	0.0	0.0	0.39	0.47	0.0	0.01	0.0	0.32															
15	0.0	0.0	0.0	0.23	0.02	0.0	0.29	0.07	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.12	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0	0.0															
17	0.0	0.0	2.52	0.0	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.0															
18	0.0	0.0	0.0	0.0	0.87	0.59	0.84	0.22	0.0	0.0	0.15	0.0															
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0															
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25															
23	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08															
24	0.14	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0															
25	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.0	0.0	1.70	1.87	0.70	0.0	0.28	0.0	0.0	0.0															
28	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.21	0.0	0.27															
29	0.0	0.87	0.0	0.26	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31															
TOTAL	2.70	1.08	4.97	3.18	4.94	4.12	7.11	1.20	2.07	3.37	2.85	2.00															
STA AV	3.35	3.11	3.01	2.09	4.27	4.01	5.15	5.32	2.80	1.47	1.53	2.63															

NOTES: Precipitation values are Thiessen weighted averages of 2 gauges. STA AV based on 4 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) AHOSKIE, NORTH CAROLINA WATERSHED W-A4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.472	1.193	0.878	0.135	0.427	0.202	0.255	1.237	0.173	0.045	0.045	0.247

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0143039. Runoff data furnished by U. S. Geological Survey. Records are good. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT AHOSKIE, NORTH CAROLINA WATERSHED W-A4												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 27 - 29, 1968												
6-27	RG WTD002 0.0	0.000	6-27	RG WTD002 1920	0.0	0.0	6-27	600	0.20	0.0		
				1930	1.6799	0.28		1745	0.20	0.0014		
				1940	2.2801	0.66		1800	0.90	0.0015		
				1950	1.0200	0.83		1815	2.00	0.0017		
				1955	0.3600	0.86		1900	1.40	0.0025		
WATERSHED CONDITIONS:				2005	0.1200	0.88		1945	7.00	0.0044		
Watershed conditions:				2020	0.2400	0.94		2045	5.20	0.0080		
Approximate land use -				2030	0.6600	1.05		2100	9.00	0.0091		
60% in woodland, 39% in				2115	0.0667	1.10		2115	10.60	0.0106		
row crops, 1% misc.				2135	0.1500	1.15		2130	14.50	0.0125		
(homesites, pastures,												
and roads).				2200	0.0	1.15		2200	44.60	0.0213		
				2205	0.3600	1.18		2215	47.30	0.0281		
				2215	0.0	1.18		2230	44.60	0.0349		
				2220	0.4800	1.22		2330	25.90	0.0559		
				2230	1.0800	1.40		2400	20.50	0.0628		
				2235	2.6402	1.62	6-28	200	13.30	0.0829		
				2240	0.9601	1.70		400	8.40	0.0958		
				2300	0.0	1.70		600	6.40	0.1046		
				2310	0.7800	1.83		800	4.60	0.1112		
								1000	3.10	0.1158		
								1200	2.50	0.1191		
								1600	1.50	0.1239		
								1900	1.00	0.1261		
								2400	0.80	0.1288		
							6-29	1200	0.50	0.1334		
								2400	0.30	0.1363		

NOTES: To convert CFS to IN/HR, multiply by 0.00059599. Precipitation is Thiessen average of 2 rain gages.

