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HYDROLOGIC DATA FOR EXPERIMENTAL AGRICULTURAL WATERSHEDS IN THE UNITED STATES, 1971

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UNITED STATES
DEPARTMENT OF
AGRICULTURE

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NUMBER 1383

PREPARED BY
SCIENCE AND
EDUCATION
ADMINISTRATION

ABSTRACT

Burford, James B., Jane L. DeLashmutt, and Ralph T. Roberts. 1980. Hydrologic data for experimental agricultural watersheds in the United States, 1971. U.S. Department of Agriculture, Miscellaneous Publication No. 1383, 509 pp.

Hydrologic data from 145 agricultural watersheds for calendar year 1971 are summarized in this publication. Daily and monthly total precipitation and streamflow together with annual maximum peak discharge and maximum runoff for selected time intervals are included. Watershed descriptive information is presented. Maximum and minimum daily temperatures are given for many of the watersheds. This is the 15th publication in this series.

KEYWORDS: Air temperature, hydrology data, hydrology research, precipitation, streamflow, water data, watersheds.

Science and Education Administration
U.S. DEPARTMENT OF AGRICULTURE
In Cooperation With
State Agricultural Experiment Stations

HYDROLOGIC DATA FOR EXPERIMENTAL AGRICULTURAL WATERSHEDS IN THE UNITED STATES, 1971

Compiled by
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PREFACE

This publication presents basic data on monthly precipitation and runoff; annual maximum discharge and maximum volumes of runoff; daily precipitation and mean daily discharge, with 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 1971. 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. Department of Agriculture'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 those 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 1971 or earlier, 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 10.001-1 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 1971 in this publication. Table 4 includes similar data on discontinued watersheds.

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971

This is the 15th publication in the series on hydrological data by the Science and Education Administration - Agricultural Research (SEA-AR) (formerly Agricultural Research Service (ARS)). 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 14 publications, previously published records and general descriptions can be readily found and consulted.

This publication contains selected hydrologic data from 145 watersheds for 1971. It includes data on monthly precipitation and runoff for all the watersheds; annual maximum discharge and maximum volumes of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 135 watersheds; daily precipitation for 145 watersheds; mean daily discharge for 144 watersheds; daily maximum and minimum air temperatures for 18 watersheds; and detailed information on 1 or more selected typical storm events for 122 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, land management, and recommended area of application of the results are given as well as graphs and maps.

The first 11 publications in this series resulted from the cooperative efforts of several former 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.

A computer-oriented system has been designed and developed by the Water Data Laboratory to produce camera copy sheets for these publications. This is the fourth publication that has been compiled using the computerized system. Hydrologic data submitted from research projects, in digital form and recorded by computer, 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 alphanumeric data using computer-compatible word-processing equipment. The format of hand-compiled references (4-11) has been retained where practicable in the computer-compiled versions of the publications.

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 the former Agricultural Research Service. They are described in the following three reference summaries. Beginning with the hydrologic data for 1956 through 1971, the types of data previously published separately in these three references are combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 1226, 1262, 1330, 1370, 1380, and 1383. These 12 publications are listed in table 1 as references 4-15. These reference numbers have been assigned to simplify citations to them in this and future publications. The first three looseleaf and the first eight miscellaneous 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 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 sam-

pling 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, information on 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 all these 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 15 references data are included for each watershed.

Table 3 summarizes where data for each watershed can be found in this 15th publication.

Table 4 lists the watershed units where studies were discontinued in 1970.

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 for some watersheds, daily precipitation, and discharge; (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

Table 1.--Description of references 4-15 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"

Number of watersheds for which indicated data are given									
Reference	For calendar year (19--)	Miscellaneous Publication No.	Year published (19--)	Total pages	Monthly precipitation and runoff	Annual maximum discharge and runoff for selected time intervals	Selected runoff events	New water-sheds	Daily precipitation, discharge, and/or temperature (max.-min.)
4.....	56-59	95	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	542	174	174	116	1	174
13.....	69	1370	79	602	167	150	139	5	167
14.....	70	1380	79	515	153	139	113	2	150
15.....	71	1383	80	509	145	135	122	1	145

Table 2.--Index to information on experimental agricultural watersheds included in references 1-151/--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres 2/	Record			Index to information in reference 1/--														
	Town	State			(19--)	Rev. ref.	No.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
25001	McCredie	MO	S.R.W.	153.	41	07	01	02	04	05	06	07	08	09	10	11	12	13	14	15		
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	13	14	15	
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	13	14	15	
26004	Coshocton	OH	135	2.69	38	70	06	01	02	04	05	06	07	08	09	10	11	12	13			
26005	Coshocton	OH	130	1.63	38	72	06	01	02	04	05	06	07	08	09	10	11	12	13	14		
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	13			
26008	Coshocton	OH	132	0.59	48	70	06	01	02	04	05	06	07	08	09	10	11	12	13			
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	13	14	15	
26011	Coshocton	OH	115	1.61	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
26012	Coshocton	OH	127	1.65	49	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
26013	Coshocton	OH	109	1.69	38		06	01	02	04	05	06	07	08	09	10	11	12	13	14	15	
26014	Coshocton	OH	103	0.65	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
26015	Coshocton	OH	110	1.27	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
26016	Coshocton	OH	113	1.45	39	73	06	01	02	04	05	06	07	08	09	10	11	12	13			
26017	Coshocton	OH	118	1.96	40	73	06	01	02	04	05	06	07	08	09	10	11	12	13			
26018	Coshocton	OH	111	1.18	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
26019	Coshocton	OH	121	1.42	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
26020	Coshocton	OH	106	1.56	39	72	06	01	02	04	05	06	07	08	09	10	11	12	13	14	15	
26021	Coshocton	OH	188	2.05	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
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	13	14		
26024	Coshocton	OH	187	7.20	41	71	06	01	02	04	05	06	07	08	09	10	11	12	13	14		
26025	Coshocton	OH	192	7.59	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
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	13			
26028	Coshocton	OH	177	75.6	40	71	06	01	02	04	05	06	07	08	09	10	11	12	13			
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	13	14	15
26031	Coshocton	OH	10	122.	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13	14		
26032	Coshocton	OH	5	349.	40	71	06	01	02	04	05	06	07	08	09	10	11	12	13	14		
26033	Coshocton	OH	92	920.	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13	14		
26034	Coshocton	OH	94	1,520.	39	71	06	01	02	04	05	06	07	08	09	10	11	12	13	14		
26035	Coshocton	OH	95	2,570.	39	72	06	01	02	04	05	06	07	08	09	10	11	12	13	14	15	
26036	Coshocton	OH	97	4,580.	37	71	06	01	02	03	04	05	06	07	08	09	10	11	12	13	14	
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	13	14	15		
26039	Coshocton	OH	194	187.	60		06			05	06	07	08	09	10	11	12	13	14	15		
26040	Coshocton	OH	182	69.6	64	71										10	11	12	13	14		
26041	Coshocton	OH	166	79.2	67															13	14	15
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	03	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				

See footnotes at end of table.

Table 2.--Index to information on experimental ~~genit~~ watersheds included in references 1-151/--

Water- shed ident. code	Study location Town State	Water- shed name-No.	Area in acres 2/ 3/	Record Rev. (19--) ref. B E No. 3/ 4/			Index to information in reference 1/--																		
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15							
65007	Newell	SD W-7	160.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15				
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	13	14	15				
65013	Newell	SD W-13	160.	58	73					04	05	06	07	08	09	10	11	12	13	14	15				
65014	Newell	SD W-14	35.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15				
65015	Newell	SD W-15	115.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15				
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	13	14	15				
67002	N. Danville	VT W-2	146.	58						04	05	06	07	08			11	12	13	14	15				
67003	N. Danville	VT W-3	2,067.	60						05	06	07	08				11	12	13	14	15				
67004	N. Danville	VT W-4	10,752.	60													11	12	13	14	15				
67005	N. Danville	VT W-5	27,469.	60						05	06	07	08				11	12	13	14	15				
68001	Reynolds	ID W-1	57,700.	63										07	08	09	10	11	12	13	14	15			
68002	Reynolds	ID W-2	8,990.	65												09	10	11	12	13	14	15			
68003	Reynolds	ID W-3	7,846.	66													10	11	12	13	14	15			
68004	Reynolds	ID W-4	13,453.	67														11	12	13	14	15			
68011	Reynolds	ID W-11	306.	67														11	12	13	14	15			
68012	Reynolds	ID W-12	205.	67														11	12	13	14	15			
68013	Reynolds	ID W-13	100.	66													10	11	12	13	14	15			
68014	Reynolds	ID W-14	33.	67														11	12	13	14	15			
69001	Chickasha	OK 100	2,339,800.	61	78									06	07	08	09	10	11	12	13	14	15		
69002	Chickasha	OK 200	(d)2,612,500. (e) 273,000.	61	75									06	07	08	09	10	11	12	13	14	15		
69004	Chickasha	OK 400	112,910.	61	68									06	07	08	09	10							
69005	Chickasha	OK 500	(d)2,768,000. (e) 43,840.	64	78									08	09	10	11	12	13	14	15				
69006	Chickasha	OK 600	(d)3,011,800. (e) 243,050.	63	71									07	08	09	10	11	12	13	14				
69007	Chickasha	OK 700	(d)3,061,120. (e) 50,830.	61	78									06	07	06	09	10	11	12	13	14	15		
69008	Chickasha	OK 611	4,845.	61	74									06	07	08	09				13	14	15		
69009	Chickasha	OK 612	563.	61	74									06	07	08	09	10	11	12	13	14	15		
69010	Chickasha	OK 111	16,640.	61	78									06	07	08	09	10	11	12	13	14	15		
69011	Chickasha	OK 131	25,660.	61	78									06	07	08	09	10	11	12	13	14	15		
69012	Chickasha	OK 411	34,180.	61	74									06	07	08	09	10	11	12	13	14	15		
69013	Chickasha	OK 511	38,020.	61	78									06	07	08	09	10	11	12	13	14	15		
69014	Chickasha	OK 110	25,020.	63	78									07	08	09	10	11	12	13	14	15			
69015	Chickasha	OK 522	132,990.	63	73									07	08	09	10	11	12	13	14	15			
69016	Chickasha	OK 512	22,530.	63	78									07	08	09	10	11	12	13	14	15			
69017	Chickasha	OK 621	21,310.	63	73									07	08	09	10	11	12	13	14	15			
69018	Chickasha	OK 121	131,780.	63	74									07	08	09	10	11	12	13	14	15			
69019	Chickasha	OK 513	12,314.	65	78									09	10	11	12	13	14	15					
69020	Chickasha	OK 514	7,225.	67	78																				
69021	Chickasha	OK 5141	4,064.	67	78																				
69022	Chickasha	OK 5142	360.	67	74																				
69023	Chickasha	OK 5143	485.	67	74																				
69024	Chickasha	OK 5144	1,456.	67	78																				
69025	Chickasha	OK 5145	253.	67	78																				
69026	Chickasha	OK 5146	762.	67	78																				
69027	Chickasha	OK 311	15,206.	67	78															11	12	13	14	15	
69030	Chickasha	OK C-1	17.8	65	76														09	10	11	12	13	14	15
69031	Chickasha	OK C-2	32.5	62	75														09	10	11	12	13	14	15
69032	Chickasha	OK C-3	44.3	65	76														09	10	11	12	13	14	15
69033	Chickasha	OK C-4	29.9	65	76														09	10	11	12	13	14	15
69034	Chickasha	OK C-5	12.8	65	76														09	10	11	12	13	14	15
69035	Chickasha	OK C-6	13.0	65	76														09	10	11	12	13	14	15
69036	Chickasha	OK C-7	26.5	65	76														09	10	11	12	13	14	15

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-151/--
Continued

Watershed ident. code	Study location		Watershed name-No.	Area in acres ±/	Record Rev. (19--) ref.			Index to information in reference 1/--														
	Town	State			B	E	No.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
69037	Chickasha	OK	C-8	27.3	65	76									09	10	11	12	13	14	15	
69038	Chickasha	OK	R-1	17.8	62	74									09	10	11	12	13	14	15	
69039	Chickasha	OK	R-2	24.1	62	74									09	10	11	12	13	14	15	
69040	Chickasha	OK	R-3	25.8	62	74									09	10	11	12	13	14	15	
69041	Chickasha	OK	R-4	18.1	62	74									09	10	11	12	13	14	15	
69042	Chickasha	OK	R-5	23.7	66	77									10	11	12	13	14	15		
69043	Chickasha	OK	R-6	27.2	66	77									10	11	12	13	14	15		
69044	Chickasha	OK	R-7	19.2	66	78									10	11	12	13	14	15		
69045	Chickasha	OK	R-8	27.6	66	78									10	11	12	13	14	15		
70001	Sonora	TX	W-14	30,720.	61	73												11	12	13	14	15
70002	Sonora	TX	S-9	1,774.	61	73												11	12	13	14	15
70003	Sonora	TX	S-10	5,392.	61	73												11	12	13	14	15
70004	Sonora	TX	S-11	10,787.	61	73												11	12	13	14	15
70005	Sonora	TX	S-12	2,801.	61	73												11	12	13	14	15
70006	Sonora	TX	S-13	686.	61	73												11	12	13	14	15
70007	Sonora	TX	W-1	10.2	63													11	12	13	14	15
70008	Sonora	TX	W-2	8.6	65													11	12	13	14	15
70009	Sonora	TX	W-3	6.7	65													11	12	13	14	15
70010	Sonora	TX	W-4	4.5	66													11	12	13	14	15
70011	Sonora	TX	W-5	7.2	66													11	12	13	14	15
70012	Sonora	TX	W-6	6.9	66													11	12	13	14	15
70013	Sonora	TX	W-7	12.2	65	73												11	12	13	14	15
71001	Treynor	IA	W-1	74.5	64										08	09	10	11	12	13	14	15
71002	Treynor	IA	W-2	82.8	64										08	09	10	11	12	13	14	15
71003	Treynor	IA	W-3	107.	64										08	09	10	11	12	13	14	15
71004	Treynor	IA	W-4	150.	64										08	09	10	11	12	13	14	15
71005	Treynor	IA	W-5	389.	63	74									08	09	10	11	12	13	14	15
72001	Cottonwood	SD	H-2	2.13	63	73									09	10	11	12	13	14	15	
72002	Cottonwood	SD	L-2	2.38	63	73									09	10	11	12	13	14	15	
72005	Cottonwood	SD	M-1	2.35	63	73									09	10	11	12	13	14	15	
73002	Fort Staunton	NM	7302	32.2	66													10				
75001	Ahoskie	NC	W-A1	36,480.	64	74									09	10	11	12	13	14	15	
75002	Ahoskie	NC	W-A2	15,360.	64	74									09	10	11	12	13	14	15	
75003	Ahoskie	NC	W-A3	2,368.	64	74									09	10	11	12	13	14	15	
75004	Ahoskie	NC	W-A4	1,664.	64	74									09	10	11	12	13	14	15	

1/ For description of references 1-15, see page 2 and table 1.

2/ (a) area changed from 63,170 acres (1-1-1967).

(b) area changed from 10,050 acres (1-1-1967).

(c) area changed from 22,656 acres (1-1-1967).

(d) = total drainage area.

(e) = total study area.

3/ B = year (19--); record began; E = year (19--); record ended.

4/ Reference in which additional or revised watershed information has been included.

published in references 1 and 4-15, 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.

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 DISCHARGE (in/hr) AND MAXIMUM VOLUMES 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 MAXIMUMS 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) location (publication) where the most recent map may be found; (3) length of precipitation and runoff records; and (4) location of the nearest long-time National Weather Service 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. Co-operating agencies are identified 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 for all events follow the tabular data. Runoff rates expressed in both cubic feet per second (CFS) and inches per hour (IN/HR) are shown on the graphs. Some very low runoff rates expressed in IN/HR are given in the "E" format, such as 7.25 E-4, which is equal to 0.000725 IN/HR.

Maps follow the graphs unless previously published in references 3-14 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 one watershed installed in recent years and not reported previously (see table 3), 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 this 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 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 non-coherent. 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 pe-

riods 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. 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.

WATERSHED GEOLOGY information, when available, for new watersheds is reported here. The parts of each 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 periods of 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 describe 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 sig-

nificant 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 Science and Education Administration-Agricultural Research," on pages 26 and 27. 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:

<u>Symbol</u>	<u>Meaning</u>
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.
NR	when used in place of value, "no record."
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 through 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 DATA PREPARATION

At each research location many individuals have contributed to the planning and establishment of the watershed and the collection, compilation, and analysis of the data. Some of those who were directly responsible for preparing the data and information for this report are--

<u>Name</u>	<u>Location</u>
R. B. Slack.....	08
A. P. Barnett.....	10
J. C. Carr, V. O. Shanholtz.....	13
R. M. Weaver.....	16
L. A. Kramer, M. Mazzocco.....	25, 71
C. A. Salrin.....	26

W. O. Ree, W. R. Gwinn, F.L.	
Wimberly.....	37
C. W. Richardson, D. A. Wright.	42, 70
A. J. Bowie, C. K. Mutchler.....	62
V. A. Ferreira.....	63, 64
C. L. Hanson, A. R. Kuhlman, D. A. Woolhiser.....	65, 72
R. DeAngelis, D. Grant.....	67
R. L. Engleman.....	68
D. G. DeCoursey, M. A. Hartman, A. D. Nicks, E. D. Rhodes, R. R. Schoof, O. D. Workman.....	69
R. B. Slack, P. Yates, T. K. Woody.....	75

ADDITIONAL PUBLICATIONS BY LOCATION

In references 1 and 4-14 (see pp. 2 and 3), citations to other publications, which present watershed data and interpretations of results in various journals, bulletins, and periodicals, are given at the end of the introduction for many of the locations. Following is a listing, by location number, of additional publications that have resulted from related work through 1971. Several publications pertaining to the overall program of hydrology that could not be tied to a specific location are listed at the end under General References.

16. Klingerstown, Pennsylvania
Engman, E. T., Gburek, W. J., Parmele, L. H., and Urban, J. B.
1971. Scale problems in interdisciplinary water resources investigations. Water Resources Bul. (Amer. Water Resources Assoc. Jour.) 7(3): 495-505, illus.
26. Coshocton, Ohio
Dragoun, F. J., and Harrold, L. L.
1971. Flood hydrology of a small reforested watershed. Amer. Soc. Agr. Engin. Trans. 14(6): 1129-1131, illus.

Edwards, W. M., Chichester, F. W., and Harrold, L. L.
1971. Management of barnlot runoff to improve downstream water quality. Amer. Soc. Agr. Engin. Internatl. Symp. on Livestock Wastes Proc. 1971, pp. 48-50.

Harrold, L. L.
1971. Runoff from agricultural land as a potential source of chemical, sediment, and waste pollutants. In Man's Impact on Terrestrial and Oceanic Ecosystems. Part IV (14), pp. 230-239. MIT Press, Cambridge, Mass.

1971. Studies in hydrology and water quality of agricultural watersheds, Coshocton, Ohio. Ohio Agr. Res. and Devlpmt. Cent. Brochure, 13 pp., illus.

McGuinness, J. L., and Harrold, L. L.
1971. Reforestation influences on small watershed streamflow. Water Resources Res. 7(4): 845-852, illus.

Harrold, L. L., and Edwards, W. M.
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1971. Experimental catchments aid interpretation of a more extensive flood network. Internatl. Assoc. Sci. Hydrol.,

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- Taylor, A. W., Edwards, W. M., and Simpson, E. C. C.
1971. Nutrient in streams draining woodland and farmland near Coshocton, Ohio. Water Resources Res. 7(1): 81-89.
37. Stillwater, Oklahoma
Ree, W. O., Wimberley, F. L., Gwinn, W. R., and Lauritzen, C. W.
1971. Rainfall harvesting system design. U.S. Dept. Agr. ARS 41-184, 12 pp., illus.
42. Riesel, Texas
Baird, R. W., and Knisel, W. G., Jr.
1971. Soil conservation practices and crop production in the Blacklands of Texas. U.S. Dept. Agr. Conserv. Res. Rpt. 15, 23 pp., illus.
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1971. Hydrologic studies on a seepy area in the Texas Blacklands. U.S. Dept. Agr. ARS 41-178, 11 pp., illus.
- Richardson, C. W., and Koester, J. H.
1971. Sampler for watershed runoff. Agr. Engin. 52: 188-189, illus.
- Williams, J. R., Hiler, E. A., and Baird, R. W.
1971. Prediction of sediment yields from small watersheds. Amer. Soc. Agr. Engin. Trans. 14(6): 1157-1162, illus.
62. Oxford, Mississippi
Bowie, A. J.
1971. Precipitation studies on the Pigeon Roost Creek and Toby Tubby Creek watersheds in north Mississippi. U.S. Dept. Agr. ARS 41-176, pp. 43-50.
- McDowell, L. L., Grissinger, E. H., Bolton, G. C., and others.
1971. Chlorinated hydrocarbon insecticide contamination of streambed sediments in the Mississippi River Delta. Miss. Water Resources Conf. Proc. 1971, pp. 9-21, illus.
- McHenry, J. R., Hawks, P. H., Harmon, W. C., and others.
1971. Determination of sediment density with a gamma probe: A manual of theory, operation, and maintenance for technical operation model 497. U.S. Dept. Agr. ARS 41-183, 24 pp., illus.
- Robinson, A. R.
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63. Tombstone, Arizona
Neyman, J., and Osborn, H. B.
1971. Evidence of widespread effects of cloudseeding at the two Arizona experiments. Natl. Acad. Sci. Proc. 68(3), pp. 649-652, illus.

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- _____
Lane, L. J., and Kagan, R. S.
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67. North Danville, Vermont
Kunkle, S. H., and Comer, G. H.
1971. Estimating suspended sediment concentrations in streams by turbidity measurements. *Jour. Soil and Water Conserv.* 26(1): 18-20, illus.
69. Chickasha, Oklahoma
Allen, P. B., and Welch, N. H.
1971. Sediment yield reductions on watersheds treated with flood-retarding structures. *Amer. Soc. Agr. Engin. Trans.* 14(5): 814-817, illus.
70. Sonora, Texas
Williams, J. R., and Knisel, W. G., Jr.
1971. Sediment yield from rangeland watersheds in the Edwards Plateau of Texas. *U.S. Dept. Agr. ARS* 41-185, 9 pp., illus.
71. Treyvor, Iowa
Saxton, K. E., Spomer, R. G., and Kramer, L. A.
1971. Hydrology and erosion of loessial watersheds. *Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour.* 97(HY 11): 1835-1851, illus.
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1971. Consequences of historic rainfall on western Iowa farmland. *Water Resources Res.* 7(3): 524-535, illus.
- _____
Saxton, K. E.
1971. Agricultural Research Service precipitation facilities and related studies. *U.S. Dept. Agr. ARS* 41-176, pp. 37-47.
74. Athens, Georgia
Asmussen, L. E.
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1971. Algorithm for adjusting stream stage records.

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75. Ahoskie, North Carolina
Snyder, W. M., Mills, W. C., and Stephens, J. C.
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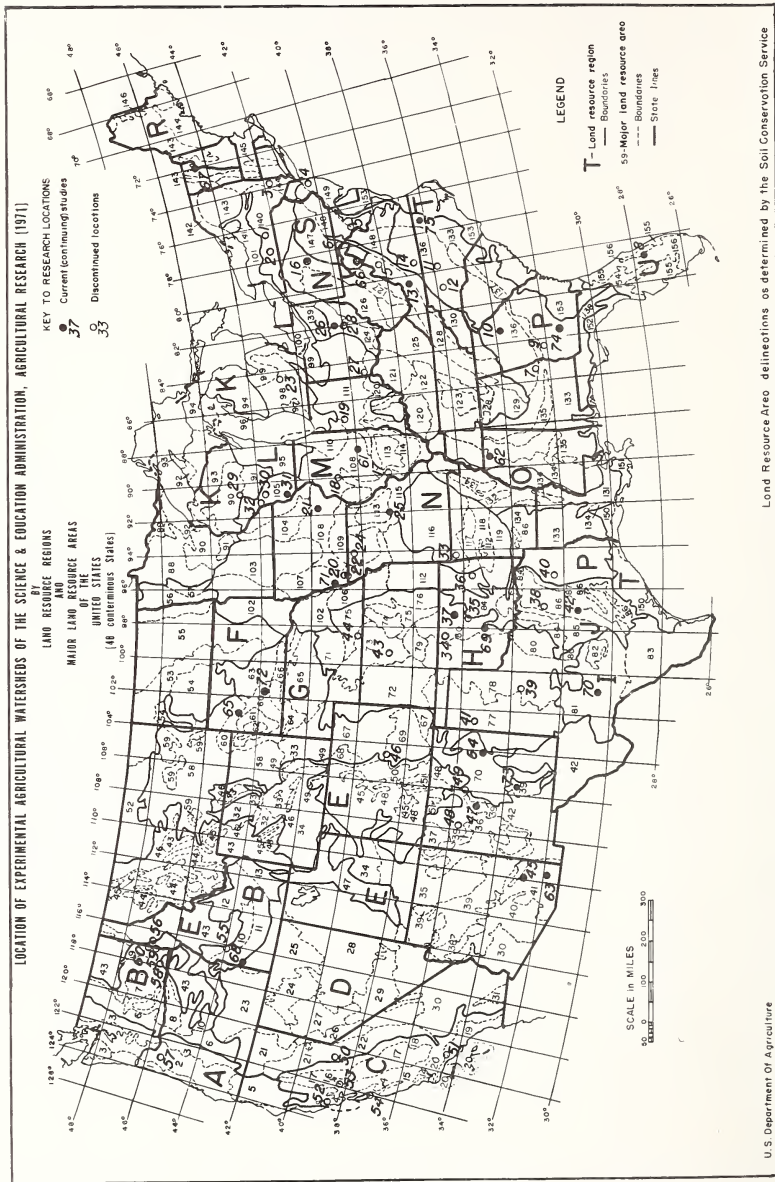
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UNITED STATES INDEX MAP AND RELATED DATA

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Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1971 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	8	14	238-272
Florida.....	Vero Beach.....	08	U-55	2/3	0	30-42
Georgia.....	Watkinsville.....	10	P-136	1	2	43-46
Idaho.....	Reynolds.....	68	D-23, D-25	8	6	310-340
Iowa.....	Treynor.....	71	M-107	5	5	469-490
Mississippi....	Oxford.....	62	P-133, P-134	12	12	194-237
Missouri.....	McCredie.....	25	M-113	1	0	67-68
New Mexico.....	Santa Rosa.....	64	G-70	1	1	273-275
North Carolina	Ahoskie.....	75	P-133	4	4	497-509
Ohio.....	Coshocton.....	26	N-124	3/10	9	69-98
Oklahoma.....	Chickasha.....	69	H-78, H-80, J-84	3/33	17	341-426
	Stillwater.....	37	H-80	3	3	99-108
Pennsylvania..	Klingerstown.....	16	S-147	1	1	64-66
South Dakota..	Newell.....	65	G-58, G-59, G-60	7	0	276-289
	Cottonwood.....	72	G-60	3	0	491-496
Texas.....	Riesel (Waco).....	42	J-86	22	22	109-193
	Sonora.....	70	I-81	13	13	427-468
Vermont.....	North Danville.....	67	R-144	5	8	290-309
Virginia.....	Blacksburg.....	13	N-128, N-130, P-136, S-148	5	5	47-63

^{1/} See location map (p. 26) and legend (p. 27).

^{2/} Includes data for one new Watershed W-5 (08005), Vero Beach, Fla.

^{3/} 9 watersheds (Coshocton, Ohio) included in the 1970 publication (reference No. 14) are not included in this publication. Records terminated during 1971, either temporary or permanent.

^{4/} One watershed for Chickasha, Okla. (69006) included in the 1970 publication (reference #14) is not included in this publication. Records were terminated.

Table 4.-- Watersheds, listed by State and locality, for which data were previously included but are not in this publication^{1/}

State	Locality	Major land resource area ^{2/}	Discontinued watershed units		
			Number	Record period (19--)	Assigned location and watershed number
Ohio.....	Coshocton.....	N-124	1	37-71	26.036
			1	38-72	26.005
			4	39-71	26.023,-031,-033,-034
			1	41-71	26.024
			1	40-71	26.032
			1	64-71	26.040
Oklahoma.....	Chickasha.....	H-80, H-78, J-78	1	63-71	69.006

^{1/} For discontinued watershed studies prior to 1970, see tables in previous publications.

^{2/} See location map (p. 26) and legend (p. 27).

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

[8.002-1 TO 75.004-3, A TOTAL OF 480 DATA SHEETS]

**For location by States and Land Resource Areas
and Regions, see U.S. Index Map, page 26.**

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED #2

LOCATION: Okeechobee County, Florida. Runoff gaging site is about 3 mi. E. of City of Okeechobee on Cemetery Road. Taylor Creek empties into Lake Okeechobee.

AREA: 66880.00 acres 104.50 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED #2			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
P	0.09	3.53	1.25	0.39	5.50	11.67	6.91	6.18	5.85	5.13	0.74	1.63	48.88	
1971	0	0.135	0.221	0.147	0.048	0.103	2.452	2.558	2.377	4.022	1.006	0.406	0.707	14.082
STA AV P	1.93	2.49	3.34	1.91	4.46	8.72	6.47	6.66	6.35	4.40	1.25	1.51	49.50	
Q	0.531	0.400	1.185	0.198	0.378	2.274	2.103	2.145	2.756	2.153	2.115	0.219	15.493	

NOTES: Watershed conditions: 1971: Range & forest, 41%; improved pasture, 45%; cropland, 4%; miscellaneous, 10%. For revised map of watershed, see p. 06-002-3. Precipitation Thiessen weighted using 7 gages. Area changed from 98.7 sq. miles (beginning of record to Dec. 31, 1966) to 104.5 sq. miles (Jan. 1, 1967). Precipitation and runoff records began July 1955. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida.

1971 DAILY AIR TEMPERATURE (degrees F)													VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED #2							
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	64	37	75	45	88	60	77	65	90	73	88	60	90	73	89	73	93	71	89	71	89	71	82	62	
2	75	56	73	54	86	67	80	62	91	56	89	67	93	74	91	70	88	72	94	72	79	68	78	69	
3	78	59	79	47	88	39	76	63	89	49	89	69	89	71	94	72	88	72	93	69	89	64	73	54	
4	89	67	79	56	62	37	74	63	83	42	88	60	92	70	91	73	90	73	92	69	78	63	68	53	
5	82	61	84	64	75	46	82	61	87	51	90	63	90	72	88	69	90	73	91	72	80	67	78	67	
6	84	63	81	65	82	64	78	47	90	58	85	69	88	72	91	71	88	72	93	70	84	64	83	66	
7	71	63	89	72	76	38	67	40	95	59	89	67	89	72	95	75	87	72	92	69	86	63	86	60	
8	84	63	77	38	64	37	77	44	93	67	90	68	88	75	94	74	86	72	90	71	83	62	88	63	
9	86	61	58	33	70	45	79	47	94	66	91	65	88	74	90	70	78	70	91	75	81	61	85	61	
10	85	62	57	39	80	55	81	53	96	65	90	68	89	73	89	69	83	71	85	64	74	50	86	59	
11	78	50	69	45	83	56	78	56	95	69	92	67	89	72	90	74	89	74	76	77	77	48	83	56	
12	82	54	79	57	85	60	81	46	93	69	90	69	93	71	87	73	87	71	88	70	80	52	84	57	
13	81	51	68	35	85	67	84	47	92	68	91	72	95	74	77	73	88	74	88	70	80	57	84	59	
14	83	49	61	29	88	62	86	59	89	69	95	75	93	73	85	75	85	69	90	71	80	61	80	60	
15	81	46	73	41	91	65	85	57	86	70	95	72	92	74	85	76	90	69	93	70	81	66	84	62	
16	67	38	79	43	82	50	86	51	89	67	94	69	93	73	91	72	90	70	91	70	83	58	86	68	
17	65	53	83	53	77	43	88	48	88	62	95	72	94	72	91	73	93	72	89	71	82	57	85	60	
18	74	50	78	58	76	55	88	59	87	58	95	71	95	75	90	75	94	70	83	68	83	58	71	55	
19	61	26	81	55	84	53	91	56	89	58	92	73	94	73	88	75	93	69	85	67	84	57	76	62	
20	52	27	83	55	68	33	88	60	91	65	93	72	94	72	91	75	90	68	85	68	83	56	83	62	
21	70	48	86	69	73	50	91	63	89	62	95	71	93	72	91	74	90	70	86	68	74	46	84	67	
22	75	57	88	60	81	48	92	62	88	59	92	72	92	72	93	73	89	71	86	65	73	52	79	66	
23	82	59	76	54	84	62	94	72	85	61	89	73	91	70	95	72	88	72	89	66	79	62	76	63	
24	85	60	81	58	82	56	91	73	87	66	91	72	90	71	93	73	90	72	90	64	85	59	79	57	
25	84	61	86	62	86	63	91	64	89	65	91	70	93	71	91	74	90	69	85	61	74	49	80	55	
26	83	43	87	69	86	42	93	71	91	63	90	72	93	72	93	73	89	68	83	60	78	55	82	53	
27	70	29	87	63	72	43	92	68	91	62	93	72	92	74	94	74	89	69	85	63	82	53	85	58	
28	69	33	87	62	80	50	96	63	92	66	89	71	90	72	92	74	90	69	84	65	81	69	84	55	
29	75	37			83	55	95	67	90	59	89	72	89	73	91	74	89	67	84	69	78	65	83	56	
30	82	57			70	41	97	72	87	57	89	71	90	73	89	73	92	70	87	68	82	57	82	52	
31	83	58			75	46			89	59	90	74	89	74	89	74	87	69							
AV.	77	51	78	53	79	51	85	59	90	62	91	70	91	73	90	73	89	71	88	68	81	59	81	60	
MEAN	63.9	65.5	65.4	72.3	75.9	80.4	82.0	81.7	79.8	78.3	69.9	70.5													
STA AV	70	49	74	50	77	55	83	61	88	66	89	71	92	74	92	74	91	73	87	66	79	56	74	52	

NOTES: Temperature data from R-3, readings taken daily. STA AV period for July 1, 1956 through 1971.

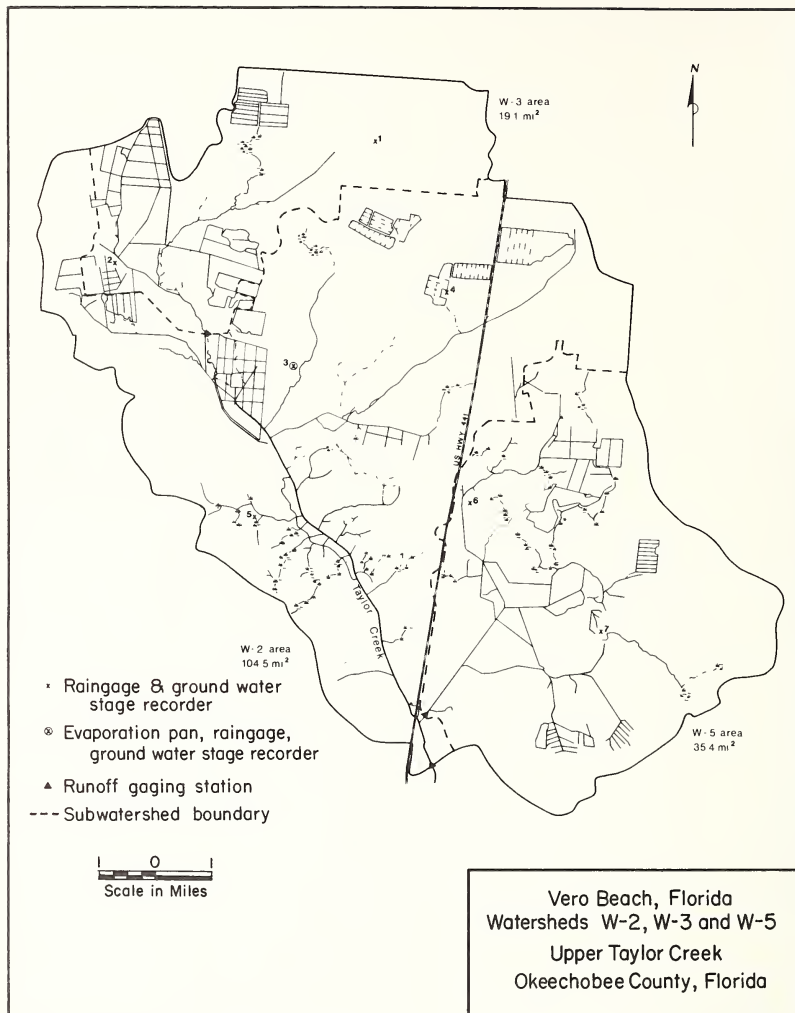
Cooperative Research Project of OSDA, Florida Agricultural Experiment Station, U.S. Geological Survey and the Central and Southern Florida Flood Control District

1971		DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (TAYLOR CREEK)					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	0.04	0.0	0.34	0.00	0.39	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.00	0.0	0.03	0.02	0.0	0.12	0.0	0.02	0.57	
4	0.0	0.0	0.0	0.17	0.0	0.01	0.27	1.02	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.03	0.0	0.0	0.32	0.22	0.14	0.37	0.54	0.0	
6	0.0	0.62	0.0	0.0	0.0	0.02	0.41	0.0	0.90	0.07	0.0	0.0	
7	0.0	0.0	0.31	0.0	0.0	0.06	0.02	0.0	0.01	0.68	0.0	0.0	
8	0.0	0.61	0.0	0.0	0.0	1.21	0.28	0.0	0.03	0.40	0.02	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.97	1.37	0.03	0.34	0.62	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.61	0.01	0.22	0.05	0.51	0.06	0.0	
11	0.0	0.0	0.0	0.0	0.66	2.19	0.0	0.05	0.15	0.19	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.02	1.75	0.22	0.0	0.0	
13	0.0	0.14	0.0	0.0	0.19	0.12	0.0	0.17	0.52	0.00	0.0	0.0	
14	0.0	0.0	0.13	0.0	0.71	0.0	0.21	0.34	0.11	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	1.99	0.0	0.09	0.21	0.0	0.05	0.0	0.0	
16	0.0	0.0	0.13	0.0	0.46	0.02	0.15	0.18	0.0	0.12	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.01	2.39	0.28	0.0	0.05	0.46	0.0	0.0	
18	0.03	0.0	0.0	0.0	0.0	0.60	0.0	0.31	0.01	0.23	0.0	0.0	
19	0.06	0.0	0.0	0.0	0.0	0.12	0.0	0.66	0.0	0.15	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.14	0.0	0.01	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.09	0.05	0.01	0.0	0.0	0.0	0.0	
22	0.0	0.03	0.0	0.0	0.0	0.36	0.51	0.0	0.03	0.18	0.0	0.86	
23	0.0	2.16	0.0	0.0	0.0	0.37	0.30	0.14	0.09	0.00	0.0	0.09	
24	0.0	0.0	0.0	0.05	0.0	0.38	0.00	0.00	0.08	0.00	0.0	0.11	
25	0.0	0.10	0.0	0.12	0.0	0.89	0.0	0.32	0.01	0.0	0.0	0.0	
26	0.0	0.0	0.21	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.02	0.0	0.0	0.17	0.20	0.00	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	1.45	0.54	0.32	0.02	0.01	0.29	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.07	1.25	0.01	0.01	0.05	0.07	0.0	
30	0.0	0.0	0.32	0.0	0.0	0.01	0.05	0.01	0.01	0.11	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.42	0.0	0.0	
TOTAL	0.09	3.53	1.25	0.39	5.50	11.67	6.91	6.18	5.85	5.15	0.78	1.63	
STA AV	1.93	2.49	3.34	1.91	4.46	8.72	6.47	6.66	6.35	4.40	1.25	1.51	

NOTES: Thiessen weighted rainfall, using 7 rain gages. STA AV based on period July 1, 1955 through 1971.

1971		MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	13.0	10.0	21.0	6.7	1.9	8.6	140.0	229.0	231.0	22.0	60.0	18.0	
2	14.0	11.0	20.0	6.1	1.9	6.9	209.0	129.0	481.0	20.0	53.0	15.0	
3	14.0	12.0	17.0	6.1	1.7	6.4	134.0	78.0	912.0	18.0	51.0	18.0	
4	13.0	12.0	16.0	6.7	1.7	6.2	83.0	75.0	564.0	18.0	42.0	23.0	
5	16.0	12.0	16.0	7.9	1.7	5.8	82.0	271.0	597.0	18.0	41.0	21.0	
6	12.0	14.0	18.0	7.3	1.9	4.3	95.0	253.0	622.0	20.0	158.0	20.0	
7	12.0	16.0	18.0	6.7	1.9	5.2	200.0	180.0	814.0	22.0	117.0	19.0	
8	13.0	20.0	20.0	5.4	1.9	7.9	176.0	93.0	479.0	60.0	75.0	19.0	
9	13.0	19.0	15.0	4.9	1.9	23.0	285.0	70.0	344.0	53.0	50.0	18.0	
10	13.0	15.0	13.0	4.6	1.9	88.0	1060.0	56.0	437.0	176.0	38.0	18.0	
11	13.0	13.0	13.0	4.1	1.9	85.0	580.0	50.0	289.0	272.0	31.0	18.0	
12	12.0	12.0	12.0	4.0	1.9	574.0	287.0	47.0	465.0	284.0	31.0	17.0	
13	12.0	12.0	11.0	4.3	1.7	563.0	161.0	74.0	885.0	277.0	25.0	17.0	
14	12.0	12.0	12.0	4.3	3.9	401.0	100.0	291.0	761.0	134.0	22.0	18.0	
15	11.0	12.0	13.0	4.6	10.0	126.0	111.0	335.0	940.0	91.0	20.0	17.0	
16	10.0	12.0	13.0	5.0	83.0	68.0	101.0	271.0	546.0	74.0	19.0	16.0	
17	10.0	14.0	15.0	5.5	40.0	82.0	131.0	286.0	336.0	67.0	19.0	16.0	
18	11.0	15.0	11.0	5.5	20.0	854.0	141.0	231.0	244.0	105.0	19.0	15.0	
19	11.0	15.0	10.0	4.6	12.0	906.0	106.0	377.0	172.0	153.0	19.0	14.0	
20	9.5	13.0	8.7	3.9	11.0	563.0	73.0	531.0	103.0	129.0	18.0	14.0	
21	8.9	13.0	7.3	3.2	8.1	199.0	115.0	370.0	107.0	117.0	17.0	14.0	
22	9.8	14.0	7.9	2.7	7.5	131.0	83.0	242.0	74.0	99.0	20.0	15.0	
23	11.0	81.0	8.7	2.3	5.8	157.0	184.0	157.0	41.0	81.0	16.0	25.0	
24	11.0	94.0	9.6	1.9	4.3	338.0	261.0	147.0	52.0	65.0	16.0	26.0	
25	10.0	38.0	9.6	1.8	4.3	447.0	169.0	203.0	46.0	56.0	16.0	21.0	
26	13.0	33.0	9.2	1.7	6.0	764.0	96.0	262.0	39.0	39.0	15.0	18.0	
27	11.0	24.0	11.0	1.7	5.0	478.0	108.0	188.0	34.0	36.0	17.0	17.0	
28	8.7	19.0	9.4	1.7	9.5	235.0	130.0	281.0	32.0	36.0	15.0	19.0	
29	9.0	7.5	1.9	0.0	3.9	245.0	20.0	158.0	27.0	42.0	16.0	18.0	
30	9.7	9.0	1.7	2.2	19.0	752.0	194.0	184.0	42.0	42.0	18.0	15.0	
31	10.0	8.2			12.0		436.0	265.0		43.0	14.0	14.0	
MEAN	11.57	20.96	12.59	4.27	8.79	252.31	219.03	203.48	355.83	86.10	35.93	17.71	
INCREAS	0.135	0.221	0.147	0.048	0.103	2.852	2.558	2.377	4.022	1.006	0.406	0.207	
STA AV	0.531	0.480	1.145	0.194	0.378	2.274	2.103	2.145	2.756	2.153	2.115	0.219	

NOTES: To convert mean daily discharge in CFS to M^3/DAY , multiply by .0003589. Discharge is confined flow from Williamson ditch and S-1 structure. Ebnoff data furnished by the U.S. Geological Survey. Discharge measurements generally made once a week.



VERO BRACE, FLORIDA (TAYLOR CREEK) WATERSHED #-3

LOCATION: Okeechobee County, Florida. Rnnoff gaging site is approximately 11 mi. (airline) N-WW of City of Okeechobee on State Road #68. Northern reach of Taylor Creek Watershed.

AREA: 12224.00 acres 19.10 sq. miles

	MONTHLY PRECIPITATION AND RUNOFF (inches)					VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED #-3							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P	0.05	5.19	1.17	0.67	5.59	10.75	6.72	7.33	6.27	7.08	0.36	1.33	51.51
1971 Q	0.067	0.295	0.165	0.044	0.055	2.815	1.731	3.872	4.422	2.116	0.505	0.237	16.321
STA AV P	1.81	2.48	3.31	2.24	4.46	7.85	6.74	6.56	5.91	4.34	1.12	1.45	48.28
Q	0.473	0.345	1.073	0.179	0.276	1.687	1.881	2.112	2.638	1.915	1.188	0.151	13.917

NOTES: Watershed conditions: 1971: Improved pasture, 55%; range & forest, 38%; cropland, 1%; miscellaneous, 10%. For revised map of watershed, see p. 08.002-3. Area changed from 15.7 sq. miles (beginning of record to Dec. 31, 1966) to 19.1 sq. miles (Jan. 1, 1967). Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 3 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida.

1971	DAILY PRECIPITATION (inches)					VERO BRACE, FLORIDA (TAYLOR CREEK) WATERSHED #-3							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.20	0.02	0.29	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	0.64	0.0	0.06	0.0
3	0.0	0.0	0.0	0.0	0.00	0.0	0.04	0.07	0.0	0.0	0.0	0.02	0.73
4	0.0	0.0	0.0	0.0	0.22	0.0	0.03	0.19	1.54	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.14	0.31	0.03	0.41	0.02	0.0
6	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.64	0.0	1.10	0.01	0.0	0.0
7	0.0	0.0	0.20	0.0	0.0	0.0	0.13	0.0	0.0	0.00	1.32	0.0	0.0
8	0.0	0.79	0.0	0.0	0.0	0.0	2.15	0.33	0.0	0.01	0.05	0.04	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.72	0.03	0.29	0.85	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.83	0.03	0.88	0.07	0.60	0.12	0.0
11	0.0	0.0	0.0	0.0	0.0	0.25	2.55	0.0	0.18	0.0	0.23	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.01	1.36	0.46	0.0	0.0
13	0.0	0.04	0.10	0.0	0.0	0.12	0.0	0.0	1.03	0.89	0.00	0.0	0.0
14	0.0	0.0	0.06	0.0	0.0	0.28	0.0	0.11	0.37	0.17	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	2.15	0.0	0.01	0.25	0.0	0.15	0.0	0.0
16	0.0	0.0	0.12	0.0	0.0	0.51	0.00	0.27	0.50	0.0	0.00	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	1.61	0.75	0.0	0.19	0.33	0.0	0.0
18	0.02	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.08	0.06	0.40	0.0	0.0
19	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.59	0.0	0.21	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.31	0.0	0.02	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.00	0.04	0.0	0.0	0.0	0.0
22	0.0	0.00	0.0	0.0	0.0	0.0	0.14	0.27	0.0	0.0	0.06	0.0	0.31
23	0.0	4.25	0.0	0.0	0.0	0.0	0.02	0.33	0.0	0.11	0.30	0.0	0.06
24	0.0	0.0	0.0	0.00	0.0	0.0	0.05	0.0	0.59	0.04	0.0	0.0	0.22
25	0.0	0.06	0.0	0.39	0.0	0.0	1.43	0.0	0.08	0.0	0.0	0.0	0.0
26	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.52	0.02	0.01	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	2.28	0.13	0.06	0.08	0.01	0.12	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.03	1.41	0.01	0.01	0.01	0.07	0.10	0.0
30	0.0	0.0	0.49	0.0	0.0	0.0	0.11	0.03	0.55	0.0	0.13	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	1.04	0.0	0.0	0.0
TOTAL	0.05	5.19	1.17	0.67	5.59	10.75	6.72	7.33	5.27	7.08	0.36	1.33	
STA AV	1.81	2.48	3.31	2.24	4.46	7.85	6.74	6.56	5.91	4.34	1.12	1.45	

NOTES: For daily air temperatures in the vicinity, see table for Watershed #2, p. 08.002-1. Thiessen weighted average of 3 rain gages. STA AV based on period July 1, 1955 through 1971.

1971						VERO BEACH, FLORIDA (TAYLOR CREEK)						WATERSHED # 3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.70	0.90	3.80	1.80	0.0	0.70	19.00	57.00	33.00	7.80	13.00	3.40	
2	0.70	2.80	3.60	1.20	0.0	0.60	19.00	36.00	69.00	7.20	19.00	3.60	
3	0.70	1.80	3.60	1.00	0.0	0.60	11.00	25.00	111.00	6.70	16.00	4.80	
4	0.60	1.80	3.00	1.20	0.0	0.50	9.00	18.00	60.00	6.50	16.00	7.90	
5	0.60	1.60	2.80	1.60	0.0	0.30	9.00	54.00	42.00	4.60	12.00	4.80	
6	0.60	1.80	3.00	1.00	0.0	0.30	13.00	69.00	48.00	7.50	11.00	4.10	
7	1.00	1.80	3.20	0.80	0.0	0.20	25.00	51.00	118.00	12.00	9.30	3.40	
8	0.50	2.40	3.00	0.60	0.0	0.30	17.00	37.00	67.00	18.00	8.20	3.20	
9	0.80	3.00	2.80	0.60	0.0	10.00	25.00	29.00	51.00	19.00	7.50	3.00	
10	0.30	2.20	2.60	0.60	0.0	5.90	46.00	23.00	53.00	68.00	7.20	3.00	
11	0.40	1.80	2.80	0.60	0.0	64.00	26.00	20.00	44.00	93.00	7.00	2.80	
12	0.50	1.80	2.60	0.60	0.0	186.00	17.00	18.00	57.00	121.00	5.90	2.80	
13	0.60	1.80	2.60	0.80	0.0	113.00	12.00	24.00	245.00	114.00	5.40	2.80	
14	0.80	1.60	2.60	0.60	0.0	44.00	9.00	53.00	291.00	50.00	5.10	4.10	
15	0.80	1.80	2.80	0.60	2.40	74.00	8.00	70.00	134.00	30.00	5.40	3.40	
16	0.80	1.80	2.60	0.60	6.60	15.00	10.00	78.00	86.00	25.00	5.90	3.20	
17	1.00	1.80	2.40	0.40	3.00	81.00	22.00	96.00	60.00	20.00	5.40	2.60	
18	1.80	2.20	1.80	0.40	1.20	153.00	31.00	66.00	50.00	30.00	5.60	2.00	
19	1.80	2.20	1.80	0.30	0.80	43.00	14.00	81.00	46.00	47.00	5.40	3.00	
20	1.40	2.20	1.60	0.30	0.60	25.00	13.00	106.00	38.00	40.00	4.80	2.80	
21	1.40	2.00	1.40	0.30	0.60	17.00	18.00	93.00	30.00	33.00	4.80	3.00	
22	1.40	2.00	1.60	0.40	0.50	18.00	11.00	80.00	24.00	25.00	4.30	2.80	
23	1.40	36.00	1.60	0.40	0.40	17.00	15.00	59.00	20.00	20.00	3.80	3.40	
24	1.40	22.00	1.60	0.30	0.60	13.00	35.00	44.00	18.00	16.00	3.60	3.40	
25	1.40	7.20	1.20	0.40	0.20	62.00	18.00	98.00	16.00	12.00	3.40	3.00	
26	1.40	5.40	1.20	0.50	0.10	162.00	13.00	82.00	14.00	7.30	4.60	2.40	
27	1.20	4.60	1.20	0.40	0.10	59.00	12.00	48.00	12.00	12.00	4.10	2.40	
28	0.90	4.10	1.00	0.20	0.20	31.00	12.00	36.00	11.00	9.70	3.60	2.40	
29	0.60		0.80	0.20	3.00	25.00	40.00	29.00	10.00	10.00	4.10	2.40	
30	0.60		1.40	0.10	1.80	17.00	116.00	25.00	9.00	10.00	3.60	2.20	
31	0.60		2.00		1.00		86.00	26.00		11.00		1.80	
MEAN	0.913	4.443	2.245	0.613	0.745	39.613	23.581	52.742	62.233	28.616	7.107	3.223	
INCHES	0.067	0.295	0.165	0.044	0.055	2.615	1.731	3.672	4.422	2.116	0.505	0.237	
STA #V	0.473	0.385	1.073	0.179	0.276	1.667	1.881	2.112	2.638	1.915	1.188	0.151	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00194712. Runoff data furnished by U.S. Geological Survey.

VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5

LOCATION: Okechohee County, Florida; 125 feet upstream from control structure 7, 450 feet upstream from confluence with Taylor Creek, 3.6 miles north of town of Okechohee, Florida.

AHRA: 22656.00 acres 35.40 sq. miles

SLOPES: Slope-Percent 0-2
Percent of area 100.0

SOILS: Predominantly fine sand surface which is very friable and has above average infiltration rates and little surface runoff until it becomes saturated. Generally underlain at varying depths by organic hardpan or clay or silt layers of variable thickness and hardness.

EROSION: Erosion Class + 1 2 3 4 5
Percent of Area 0.0 100.0 0.0 0.0 0.0 0.0

LAND CAPABILITY: Class I II III IV V VI VII VIII
Percent of Area 0.0 3.0 5.0 86.0 0.0 0.0 0.0 0.0

GEOLOGY: See Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 08-2-1.

SURFACE DRAINAGE: Fair to poor.

CHARACTER OF FLOW: Perennial flow.

INSTRUMENTATION: Daily stage and runoff data provided by U.S. Geological Survey. Precipitation: Two recording rain gages.

WATERSHED CONDITIONS: Vegetative Cover: Improved pasture - 60 percent; unimproved pasture and range with little timber - 15 percent; woodland - 10 percent; citrus - 5 percent; urban, roads, etc. - 5 percent.

GENERALLY REPRESENTS: Southern Florida Flatwoods land resource area (U-155).

MONTHLY PRECIPITATION AND RUNOFF (inches)												VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1965 P	0.37	3.62	3.89	0.83	0.93	7.30	6.37	3.00	4.63	5.18	0.56	0.76	37.04	
1965 Q	0.117	0.243	0.256	0.131	0.061	0.264	0.302	0.236	0.154	0.441	0.289	0.120	2.614	
1966 P	6.48	3.19	1.06	2.84	5.09	12.98	8.18	10.80	4.50	5.90	0.37	0.56	61.94	
1966 Q	1.137	0.928	0.319	0.283	0.834	2.958	4.449	8.460	1.502	2.325	0.199	0.150	23.507	
1967 P	0.84	2.54	0.94	0.0	0.23	12.56	11.38	12.39	5.38	3.72	0.41	2.26	52.65	
1967 Q	0.141	0.142	0.130	0.092	0.062	0.207	5.571	2.998	1.777	1.467	0.142	0.120	12.848	
1968 P	1.10	1.85	0.75	0.44	5.46	18.04	7.74	3.50	7.69	5.73	2.04	0.08	54.41	
1968 Q	0.146	0.152	0.114	0.080	0.114	9.522	4.904	0.422	2.712	3.587	0.718	0.165	22.637	
1969 P	2.02	1.16	7.82	0.77	8.20	10.54	6.01	9.74	7.36	10.44	4.03	2.78	70.86	
1969 Q	0.269	0.143	3.170	0.156	1.050	4.996	0.970	5.279	3.054	5.638	3.103	1.869	29.697	
1970 P	4.68	2.93	7.17	0.23	5.20	7.69	8.13	7.81	4.84	5.56	0.07	0.45	54.76	
1970 Q	3.073	1.152	3.806	0.332	0.291	1.324	3.508	2.438	0.392	1.975	0.266	0.122	18.679	
1971 P	0.13	2.11	0.99	0.27	4.87	11.51	6.02	5.46	6.58	4.58	1.26	2.20	45.97	
1971 Q	0.114	0.152	0.154	0.078	0.141	1.809	2.033	1.509	4.040	0.385	0.489	0.182	11.085	
STA AV P	2.23	2.49	2.17	0.77	4.28	11.52	7.69	7.53	5.85	5.87	1.25	1.30	53.95	
Q	0.714	0.416	1.135	0.159	0.365	3.012	3.105	3.049	1.947	2.260	0.744	0.390	17.295	

NOTES: Watershed Conditions: Same as described in previous section under WATERSHED CONDITIONS. For map of watershed, see p. 08.002-3. Precipitation and runoff records began April 1964, part-year records not included in STA AV. Precipitation Thiessen weighted using 2 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okechohee Hurricane Gate 8, Florida (gage discontinued Nov. 1971, afterwards use Okechohee 958).

1965		DAILY PRECIPITATION (inches)				VERO BEACH, FLORIDA (WILLIAMSON GITCH)				WATERSHED W-5			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	1.18	0.0	0.0	
2	0.0	0.03	0.06	0.0	0.0	0.0	0.0	0.20	0.38	0.11	0.0	0.0	
3	0.0	0.0	0.08	0.0	0.0	0.0	0.05	0.35	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.33	0.0	0.0	0.0	0.72	0.19	0.0	0.0	0.0	0.0	
5	0.0	0.22	0.0	0.0	0.0	0.54	0.24	0.0	0.0	0.0	0.10	0.0	
6	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.21	0.26	0.22	0.0	
7	0.0	0.50	0.0	0.0	0.0	1.22	0.0	0.43	0.10	0.36	0.02	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.23	0.03	0.12	0.05	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.02	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.27	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.60	0.95	0.24	0.31	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.28	0.12	0.0	0.0	0.03	0.0	0.22	
14	0.0	0.0	0.58	0.0	0.0	0.17	0.07	0.22	0.0	1.01	0.0	0.0	
15	0.03	0.0	0.0	0.0	0.0	0.01	0.99	0.0	0.0	0.03	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.10	0.52	0.32	0.30	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.02	0.34	0.0	0.26	0.0	0.0	0.0	
18	0.0	0.13	0.0	0.0	0.0	2.61	0.03	0.0	0.03	0.0	0.0	0.0	
19	0.0	0.03	0.0	0.0	0.03	0.05	0.03	0.14	0.0	0.0	0.0	0.09	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.45	
21	0.0	0.06	0.0	0.0	0.0	0.0	1.19	0.0	0.0	0.0	0.0	0.0	
22	0.05	0.12	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0	
23	0.0	1.72	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.03	0.0	
24	0.0	0.13	0.0	0.41	0.32	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
25	0.0	0.28	0.0	0.0	0.0	0.05	0.0	0.03	0.02	0.0	0.0	0.0	
26	0.0	0.0	1.45	0.23	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	
27	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.27	0.34	0.0	0.08	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.06	0.13	0.0	0.03	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.05	1.57	0.41	0.08	0.0	
31	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.24	0.0	0.94	0.0	0.0	
TOTAL	0.37	3.62	3.49	0.83	0.93	7.30	6.37	3.00	4.63	5.18	0.56	0.76	
STA AV	0.37	3.62	3.49	0.83	0.93	7.30	6.37	3.00	4.63	5.18	0.56	0.76	

NOTES: For daily air temperatures in the vicinity (1965), see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 08-002-1. Precipitation values are Thiessen weighted averages of two gauges. STA AV based on 1 yr (1965) record period.

1966		DAILY PRECIPITATION (inches)				VERO BEACH, FLORIDA (WILLIAMSON GITCH)				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	0.56	0.62	0.64	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	0.04	0.0	
3	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.10	0.08	0.0	0.0	
4	2.69	0.0	0.0	1.34	0.0	0.0	0.0	0.14	0.0	0.40	0.0	0.38	
5	0.70	0.0	0.20	0.09	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	
6	0.02	0.0	0.0	0.0	0.09	0.94	0.05	0.12	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	2.76	1.24	0.07	0.65	0.79	2.49	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.03	2.04	0.0	0.79	0.09	0.08	0.0	0.0	
9	0.0	0.0	0.0	0.76	0.03	0.24	0.26	0.01	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.57	0.0	0.0	0.16	0.36	1.30	0.0	0.0	0.0	
11	0.63	0.0	0.0	0.0	1.11	0.0	0.36	1.11	0.38	0.0	0.0	0.0	
12	0.07	0.0	0.0	0.0	0.0	0.0	0.41	0.55	0.07	0.08	0.0	0.05	
13	0.0	0.06	0.04	0.0	0.0	0.0	0.98	0.17	0.03	0.56	0.0	0.0	
14	0.0	0.0	0.04	0.0	0.0	0.71	0.0	0.0	0.36	1.03	0.0	0.0	
15	0.0	0.02	0.02	0.0	0.0	0.92	0.50	0.36	0.13	0.0	0.03	0.0	
16	0.0	0.0	0.0	0.0	0.0	1.18	0.56	0.0	0.0	0.0	0.11	0.0	
17	0.0	0.0	0.07	0.0	0.0	0.08	0.0	0.0	0.11	0.0	0.0	0.07	
18	0.0	0.20	0.0	0.0	0.18	0.09	0.0	0.17	0.10	0.0	0.0	0.05	
19	0.02	0.76	0.0	0.0	0.0	0.43	0.0	0.0	0.26	0.0	0.0	0.0	
20	0.30	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.23	0.49	0.42	0.63	0.11	0.0	0.0	0.0	
22	0.41	0.43	0.0	0.0	0.18	0.04	0.75	0.0	0.0	1.19	0.0	0.0	
23	0.0	1.57	0.0	0.0	0.06	0.0	0.02	3.59	0.0	0.0	0.18	0.0	
24	0.0	0.0	0.0	0.0	0.01	0.0	0.43	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.04	0.0	0.0	0.0	0.0	
26	0.60	0.0	0.0	0.0	0.26	0.0	0.81	0.57	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.06	0.0	0.09	0.12	0.13	0.0	0.0	0.0	
28	0.01	0.15	0.0	0.0	0.0	0.07	0.85	0.0	0.24	0.0	0.0	0.0	
29	0.38	0.0	0.69	0.0	0.0	1.45	0.26	0.0	0.29	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.07	0.0	1.20	0.12	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.57	0.06	0.0	0.22	0.13	0.0	0.0	0.0	0.0	
TOTAL	6.48	3.19	1.06	2.84	5.09	12.98	8.18	10.80	4.50	5.90	0.37	0.56	
STA AV	3.43	3.41	2.27	1.84	3.01	10.14	7.28	6.90	4.56	5.54	0.67	0.66	

NOTES: For daily air temperatures in the vicinity (1966), see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 08-002-1. Precipitation values are Thiessen weighted averages of two gauges. STA AV based on 2 yr (1965-1966) record period.

1967		DAILY PRECIPITATION (Inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)				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	1.58	0.68	0.0	1.34	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	1.76	0.19	0.0	0.0	0.0	0.0	0.0
3	0.14	0.0	0.20	0.0	0.0	0.55	1.14	0.0	0.10	0.0	0.0	0.0
4	0.15	0.0	0.0	0.0	0.0	0.02	0.37	0.28	0.59	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	1.68	0.0	1.80	0.12	0.25	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.40	1.00	0.02	0.0	0.51	0.0	0.0
7	0.0	0.08	0.0	0.0	0.0	0.70	0.44	0.0	0.14	0.0	0.0	0.0
8	0.0	0.02	0.28	0.0	0.0	0.04	0.50	0.02	0.0	0.0	0.0	0.0
9	0.0	0.27	0.24	0.0	0.0	0.01	0.23	0.0	0.18	0.24	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.02	0.0	0.0
11	0.02	0.29	0.0	0.0	0.0	0.0	0.0	0.84	1.10	0.04	0.0	1.18
12	0.0	0.11	0.0	0.0	0.0	0.0	0.90	0.26	0.11	0.0	0.0	0.18
13	0.0	0.05	0.0	0.0	0.0	0.19	0.43	0.50	0.79	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.28	2.82	0.0	0.04	0.24	0.0	0.0
15	0.15	0.0	0.0	0.0	0.0	0.09	0.03	0.04	0.0	0.0	0.0	0.0
16	0.06	0.0	0.0	0.0	0.01	0.88	0.05	0.33	0.0	0.0	0.33	0.0
17	0.0	0.0	0.0	0.0	0.0	0.38	0.21	1.17	0.08	0.06	0.0	0.0
18	0.14	0.0	0.0	0.0	0.0	0.59	0.0	0.13	0.0	0.0	0.0	0.05
19	0.0	0.0	0.0	0.0	0.0	0.03	0.03	0.01	0.6	0.73	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.04	0.43	0.25	0.0	0.0	0.0	0.0
21	0.0	1.35	0.0	0.0	0.0	0.0	0.55	1.29	0.05	0.0	0.0	0.0
22	0.0	0.38	0.0	0.0	0.23	0.32	0.44	0.07	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	1.13	0.03	0.0	0.0	0.29	0.0	0.05
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.01	0.6	0.73	0.0
25	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	1.38	0.0	0.0	0.85
29	0.0	0.0	0.02	0.0	0.0	0.36	0.0	0.06	0.46	0.0	0.0	0.0
30	0.0	0.08	0.0	0.0	0.0	2.14	0.0	2.58	0.0	0.0	0.0	0.0
31	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.84	2.54	0.94	0.0	0.23	12.56	11.38	12.39	5.38	3.72	0.41	2.26
STA AV	2.56	3.12	1.83	1.22	2.08	10.95	8.64	8.73	4.83	4.93	0.45	1.19

NOTES: For daily air temperatures in the vicinity (1967), see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 08.002-1. Precipitation values are Thiessen weighted averages of two gages. STA AV based on 3 yr (1965-1967) record period.

1968		DAILY PRECIPITATION (Inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)				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	0.12	0.04	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.38	1.93	0.04	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	3.00	3.19	3.09	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.43	1.07	0.85	0.63	0.0	0.0	0.0	0.0
5	0.0	0.31	0.0	0.14	0.04	0.96	0.69	0.0	0.0	0.0	0.0	0.0
6	0.0	0.02	0.57	0.0	0.0	0.01	0.53	0.0	0.34	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.26	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.56	0.18	0.06	0.46	0.09	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	2.21	0.16	0.0	1.44	0.03	1.47	0.0
10	0.37	0.0	0.0	0.0	0.05	0.92	0.18	0.16	0.78	1.02	0.0	0.0
11	0.0	0.16	0.0	0.08	0.02	1.26	0.00	0.0	0.72	0.11	0.49	0.0
12	0.0	0.0	2.17	0.0	0.0	0.02	0.0	0.0	0.16	0.0	0.0	0.0
13	0.33	0.0	0.0	0.0	0.0	1.52	0.0	0.0	0.88	0.01	0.00	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.25	0.0	1.43	0.0	0.0
15	0.0	0.0	0.0	0.06	0.43	1.25	0.0	0.13	0.0	0.01	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.73	0.22	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0	0.0	1.58	0.0	0.0
18	0.0	0.02	0.0	0.0	0.0	0.23	0.75	0.0	0.0	0.01	0.0	0.0
19	0.0	0.77	0.0	0.0	1.31	0.73	0.09	0.0	0.28	0.22	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.30	0.07	0.09	0.20	0.0	0.04	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.16	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0
23	0.0	0.45	0.0	0.0	0.27	0.0	0.08	0.08	0.98	0.08	0.0	0.81
24	0.33	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.40	0.02	0.0	0.0
25	0.0	0.0	0.0	0.0	0.95	0.65	0.0	0.03	0.05	0.06	0.0	0.0
26	0.0	0.0	0.0	0.0	0.46	1.28	0.0	0.09	0.80	0.0	0.0	0.0
27	0.0	0.0	0.0	0.01	0.25	0.01	0.0	0.03	0.01	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.32	0.94	0.0	0.40	0.02	0.6	0.0	0.07
29	0.0	0.11	0.0	0.14	0.53	0.0	0.37	0.47	0.0	0.0	0.04	0.0
30	0.08	0.0	0.0	0.0	0.0	0.0	0.22	0.78	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0
TOTAL	1.10	1.85	0.75	0.44	5.46	18.04	7.74	3.50	7.69	5.73	2.04	0.08
STA AV	2.20	2.80	1.56	1.03	2.93	12.72	8.42	7.42	5.55	5.13	0.84	0.92

NOTES: For daily air temperatures in the vicinity (1968), see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 08.002-1. Precipitation values are Thiessen weighted averages of two gages. STA AV based on 4 yr (1965-1968) record period.

1969 DAILY PRECIPITATION (inches)												VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSEED #=5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.09	0.0	0.17	0.0	0.0						
2	0.0	0.0	0.0	0.29	0.08	0.0	0.05	0.07	0.0	2.97	0.0	0.0						
3	0.0	0.08	3.66	0.0	0.0	0.0	0.0	0.38	0.0	0.48	0.0	0.0						
4	0.49	0.0	0.0	0.0	0.0	0.04	1.03	0.28	0.0	0.0	0.0	0.0						
5	0.92	0.0	0.0	0.0	0.0	0.15	0.02	0.01	0.06	0.11	0.0	0.0						
6	0.11	0.0	0.19	0.08	0.0	2.02	0.03	0.05	0.52	0.02	0.0	0.0						
7	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.38	3.33	0.01	0.0	0.0					0.13	
8	0.0	0.08	3.66	0.0	0.0	0.13	0.0	0.77	0.0	0.48	0.0	0.0					0.0	
9	0.0	0.03	0.65	0.0	0.0	0.0	0.0	0.46	2.20	0.0	0.0	0.00					0.01	
10	0.0	0.0	0.0	0.03	0.05	0.0	0.04	1.59	0.33	0.0	0.0	2.33						
11	0.15	0.0	0.0	0.0	0.0	0.05	0.0	0.79	0.0	0.0	0.0	0.0						
12	0.0	0.02	0.0	0.0	1.33	1.86	0.0	0.70	0.0	0.0	0.0	0.0						
13	0.0	0.0	3.14	0.0	0.0	0.78	0.0	0.57	0.0	0.0	0.0	0.82						
14	0.0	0.0	0.0	0.0	1.57	1.56	0.58	0.36	0.06	0.0	1.52	0.0						
15	0.0	1.02	0.0	0.0	0.20	1.38	0.98	0.93	0.31	0.0	0.0	0.0						
16	0.0	0.0	2.00	0.10	0.00	0.68	0.12	0.15	0.12	0.0	0.0	0.0						
17	0.0	0.0	0.20	0.0	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0						
18	0.0	0.0	0.01	0.11	0.0	0.10	0.45	0.28	1.58	1.01	0.0	0.0						
19	0.32	0.0	0.0	0.0	0.01	0.62	0.01	0.02	0.42	0.0	0.0	0.0						
20	0.04	0.0	0.0	0.0	2.69	0.64	0.47	0.0	0.0	0.0	0.0	0.0						
21	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.12	0.01	0.0	0.0						
22	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.38	0.0	0.26	0.0	0.15						
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	1.05	0.0	0.0						
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	0.83	0.0	0.0						
25	0.0	0.0	0.32	0.0	0.0	0.0	0.0	1.49	0.0	0.01	0.0	0.0						
26	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.03	0.05	0.13	0.16						
27	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.35	0.0						
28	0.0	0.0	0.0	0.12	0.25	0.0	1.47	0.0	0.16	0.12	1.20	0.0						
29	0.0	0.0	0.0	0.0	0.11	0.04	0.02	0.0	0.33	2.13	0.0	0.0						
30	0.0	0.0	0.0	0.0	0.0	0.03	0.07	0.0	0.0	0.16	0.0	0.0						
31	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.04	0.0	0.58	0.0	0.0						
TOTAL	2.02	1.16	7.82	0.77	8.20	10.54	6.01	9.74	7.36	10.44	4.03	2.78						
STA AV	2.16	2.47	2.81	0.98	3.88	12.28	7.94	7.89	5.91	6.19	1.48	1.29						

NOTES: For daily air temperatures in the vicinity (1969), see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 08-002-2. Precipitation values are Thiessen weighted averages of two pages. STA AV based on 5 yr (1965-1969) record period.

1970 DAILY PRECIPITATION (inches)												VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSEED #=5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.0	0.03	0.0	0.0	0.0	1.12	0.0	0.0	0.0	0.01	0.0	0.0						
2	0.40	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.51	0.0	0.0						
3	1.10	2.04	0.0	0.09	0.0	0.0	0.24	0.0	0.0	0.55	0.0	0.0						
4	0.0	0.0	0.0	0.0	0.0	1.11	0.73	0.0	0.11	0.00	0.0	0.0						
5	0.0	0.0	0.06	0.0	0.0	0.47	0.40	0.0	0.11	0.00	0.0	0.0						
6	1.50	0.00	0.0	0.13	0.0	0.0	0.17	1.36	0.38	0.58	0.0	0.0						
7	0.0	0.0	0.68	0.0	0.0	0.18	1.52	0.78	0.00	0.57	0.0	0.0						
8	0.0	0.0	0.32	0.0	0.0	0.0	0.08	2.02	0.08	0.0	0.0	0.0						
9	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.70	0.05	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	0.05	0.04	0.0						
11	0.0	0.0	0.76	0.02	0.0	1.57	0.0	0.11	0.0	0.0	0.0	0.0						
12	0.0	0.0	0.55	0.0	0.0	0.0	0.25	0.69	0.0	0.02	0.0	0.0						
13	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.06	0.04	0.0	0.0						
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	1.57	0.0	0.0	0.0						
15	1.62	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.02	0.32	0.03	0.0						
16	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.52	0.0	0.0						
17	0.05	0.01	0.0	0.0	0.0	0.0	0.11	0.0	0.03	0.38	0.0	0.16						
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	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	0.01	0.0	0.0						
20	0.0	0.0	0.0	0.0	0.0	0.0	0.55	1.29	0.05	0.01	0.0	0.0						
21	0.0	0.0	0.0	0.0	0.0	0.27	1.66	0.10	0.10	0.15	0.0	0.0						
22	0.0	0.0	0.42	0.0	0.0	0.0	0.11	0.03	0.0	0.0	0.0	0.0						
23	0.0	0.0	0.0	0.0	0.32	0.86	0.53	0.18	0.01	0.0	0.0	0.0						
24	0.0	0.0	0.0	0.0	1.61	0.59	0.0	0.01	0.49	0.0	0.0	0.0						
25	0.0	0.59	2.63	0.0	0.05	0.71	0.0	0.0	0.18	0.0	0.0	0.13						
26	0.0	0.0	1.70	0.0	0.57	0.03	0.45	0.03	0.01	0.0	0.0	0.0						
27	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
28	0.0	0.0	0.0	0.0	0.32	0.06	0.0	0.0	0.0	0.0	0.0	0.0						
29	0.0	0.0	0.0	0.0	2.04	0.56	0.01	0.01	0.96	0.45	0.0	0.0						
30	0.00	0.0	0.0	0.0	0.12	0.10	0.0	0.03	0.54	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	0.16						
TOTAL	4.68	2.93	7.17	0.23	5.20	7.69	8.13	7.81	4.84	5.56	0.07	0.45						
STA AV	2.58	2.55	3.54	0.85	4.18	11.52	7.97	7.87	5.73	6.09	1.25	1.15						

NOTES: For daily air temperatures in the vicinity (1970), see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 08-002-1. Precipitation values are Thiessen weighted averages of two pages. STA AV based on 6 yr (1965-1970) record period.

1971 DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED #5		
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	0.43	0.0	0.39	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.22	0.0	0.01	0.34
4	0.0	0.0	0.0	0.10	0.0	0.0	0.44	1.06	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.06	0.0	0.0	0.43	0.03	0.0	0.29	1.15	0.0
6	0.0	0.96	0.0	0.0	0.0	0.04	0.12	0.0	0.96	0.08	0.0	0.0
7	0.0	0.0	0.42	0.0	0.0	0.05	0.04	0.0	0.62	0.22	0.0	0.0
8	0.0	0.58	0.0	0.0	0.0	0.87	0.19	0.0	0.06	0.65	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	2.18	1.16	0.05	0.34	0.30	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.02	0.04	0.46	0.02	0.0
11	0.0	0.0	0.0	0.0	0.74	1.29	0.0	0.03	0.42	0.10	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.01	2.26	0.00	0.0	0.0
13	0.0	0.03	0.0	0.0	0.14	0.17	0.0	1.26	0.26	0.01	0.0	0.0
14	0.0	0.0	0.0	0.0	1.02	0.0	0.09	0.36	0.06	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	1.72	0.0	0.11	0.12	0.0	0.0	0.0	0.0
16	0.0	0.0	0.13	0.0	0.63	0.0	0.00	0.0	0.0	0.18	0.0	0.0
17	0.0	0.0	0.0	0.0	0.01	2.08	0.0	0.0	0.0	0.35	0.0	0.0
18	0.05	0.0	0.0	0.0	0.0	0.22	0.0	0.33	0.0	0.05	0.0	0.0
19	0.08	0.0	0.0	0.0	0.0	0.22	0.0	0.88	0.0	0.20	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.04	0.0	0.01	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.61	0.54	0.0	0.07	0.20	0.0	1.70
23	0.0	0.87	0.0	0.0	0.0	0.90	0.16	0.34	0.06	0.0	0.0	0.10
24	0.0	0.0	0.0	0.08	0.0	0.48	0.0	0.01	0.62	0.0	0.0	0.06
25	0.0	0.08	0.0	0.0	0.0	0.02	0.0	0.24	0.00	0.0	0.0	0.0
26	0.0	0.0	0.14	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.01	0.0	0.0	0.13	0.28	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.57	1.07	0.64	0.01	0.0	0.68	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.13	0.91	0.0	0.00	0.03	0.64	0.0
30	0.0	0.27	0.0	0.0	0.0	0.02	0.0	0.30	0.04	0.09	0.6	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.48	0.0	0.0
TOTAL	0.13	2.11	0.99	0.27	4.87	11.51	6.02	5.46	6.58	4.58	1.26	2.20
STA #V	2.23	2.49	3.17	0.77	4.28	11.52	7.69	7.53	5.85	5.87	1.25	1.30

NOTES: For daily air temperatures in the vicinity, see p. 08.002-1. Precipitation values are Thiessen weighted averages of two gauges. STA #V based on 7 yr (1965-1971) record period.

1965 MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED #5		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4,200	3,400	8,100	7,800	2,800	0,800	4,000	10,000	5,200	18,000	34,000	4,200
2	4,000	4,000	7,500	7,200	2,800	0,500	4,000	8,500	5,800	51,000	30,000	3,600
3	4,000	4,000	7,200	5,800	2,400	0,800	4,000	8,500	6,500	36,000	22,000	3,400
4	3,600	4,000	7,500	4,900	2,200	3,000	4,000	10,000	6,200	25,000	18,000	3,400
5	3,600	4,200	7,800	4,600	1,800	4,600	4,000	11,000	5,500	15,000	12,000	3,600
6	4,000	4,000	6,500	4,600	1,800	3,400	4,200	8,500	13,000	12,000	11,000	3,600
7	3,600	5,500	5,500	4,600	2,200	5,800	4,200	7,500	7,200	12,000	12,000	4,200
8	3,600	6,200	4,900	4,600	2,400	4,600	4,000	8,100	4,900	16,000	12,000	4,600
9	3,600	5,500	4,600	4,200	2,800	4,600	4,000	7,000	4,200	15,000	10,000	3,400
10	3,600	5,200	4,200	4,200	2,700	3,600	4,000	8,100	4,200	12,000	9,000	1,800
11	4,000	4,600	4,000	4,200	1,800	3,600	4,000	7,800	4,200	9,000	8,500	1,800
12	4,000	4,000	3,600	4,000	1,600	6,500	4,000	7,500	4,200	7,500	7,800	2,200
13	4,000	4,000	3,600	3,600	1,800	7,200	4,000	8,100	4,200	7,200	7,200	2,400
14	4,000	4,000	3,600	4,200	1,600	5,200	3,600	8,100	4,000	6,800	6,800	3,000
15	4,000	4,600	4,600	4,200	1,800	4,900	3,600	7,800	3,600	12,000	6,500	3,400
16	3,600	4,000	4,900	4,200	1,800	4,600	3,600	7,800	3,600	18,000	6,200	3,600
17	3,400	4,000	4,600	4,000	1,600	4,200	4,200	9,500	4,900	15,000	5,200	4,000
18	3,400	4,000	4,600	3,600	1,800	22,000	5,800	8,200	4,600	12,000	5,200	4,000
19	3,400	4,600	4,600	3,400	1,800	61,000	9,500	7,500	4,600	9,000	4,600	3,600
20	3,400	4,600	4,600	3,400	1,600	31,000	7,800	6,800	4,600	7,800	4,900	4,200
21	3,400	4,600	4,200	3,400	1,600	13,000	10,000	6,200	4,200	7,200	4,600	4,200
22	3,000	5,200	4,000	3,600	1,800	8,500	44,000	5,200	3,600	7,200	4,600	4,200
23	3,000	11,000	4,000	3,600	2,200	7,800	39,000	4,600	3,600	13,000	4,200	4,000
24	3,000	34,000	4,000	4,000	1,600	6,800	31,000	4,900	3,600	15,000	4,200	4,000
25	3,400	34,000	4,000	3,600	1,800	6,200	18,000	5,200	3,600	12,000	4,200	3,600
26	3,400	28,000	4,200	3,400	1,000	5,500	12,000	5,200	3,600	9,500	4,200	3,600
27	3,600	16,000	22,000	3,400	1,000	5,500	9,000	5,200	4,200	8,100	4,900	4,000
28	3,600	10,000	41,000	3,400	1,600	6,800	7,200	5,200	4,200	7,200	5,600	4,600
29	3,400		28,000	3,000	1,300	5,200	6,200	4,900	4,900	6,800	5,200	4,600
30	3,400		13,000	2,000	1,300	4,200	6,500	5,200	5,500	6,200	4,600	4,200
31	3,600		8,500		1,300		14,000	5,800		11,000		4,200
MEAN	3.606	8.257	7.852	4.157	1.877	8.380	9.271	7.248	4.873	13.532	9.180	3.684
IRCHES	0.117	0.243	0.256	0.131	0.061	0.264	0.302	0.236	0.154	0.441	0.289	0.120
STA #V	0.117	0.243	0.256	0.131	0.061	0.264	0.302	0.236	0.154	0.441	0.289	0.120

NOTES: To convert mean daily discharge in CFS to I8/DAI, multiply by 0.00105056. Inflow data furnished by U.S. Geological Survey. Records are good to fair. STA #V based on 1 yr (1965) record period.

1966		MEAN DAILY DISCHARGE (cfs)					VEHO BEACH, FLORIDA (WILLIAMSON DITCH)				WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.0	30.0	30.0	5.5	4.2	4.6	820.0	1930.0	48.0	11.0	10.0	4.9
2	4.0	25.0	30.0	4.9	4.2	5.2	327.0	175.0	34.0	10.0	9.5	5.2
3	4.2	19.0	24.0	4.6	4.2	4.9	193.0	124.0	26.0	9.0	8.5	5.5
4	6.5	14.0	20.0	7.2	4.0	4.6	119.0	148.0	23.0	10.0	7.5	5.8
5	117.0	12.0	18.0	15.0	4.0	4.2	71.0	117.0	22.0	10.0	7.5	6.8
6	110.0	10.0	17.0	12.0	4.0	6.6	44.0	87.0	18.0	9.0	7.2	5.8
7	72.0	9.0	13.0	12.0	18.0	18.0	71.0	71.0	16.0	6.0	6.8	4.0
8	52.0	8.5	7.8	7.2	134.0	77.0	31.0	130.0	29.0	435.0	6.8	4.6
9	39.0	8.1	8.3	6.8	134.0	215.0	28.0	217.0	20.0	276.0	6.8	4.0
10	31.0	7.8	10.0	40.0	126.0	161.0	36.0	136.0	45.0	134.0	6.5	4.0
11	34.0	6.5	8.1	20.0	100.0	108.0	43.0	191.0	163.0	80.0	6.5	4.2
12	56.0	4.9	7.5	11.0	82.0	70.0	64.0	324.0	175.0	49.0	6.2	4.6
13	47.0	5.5	7.2	8.1	43.0	35.0	121.0	351.0	34.0	17.0	6.2	4.6
14	36.0	7.2	7.2	7.2	23.0	22.0	146.0	334.0	90.0	152.0	6.2	3.6
15	30.0	7.2	7.2	6.2	13.0	30.0	130.0	238.0	107.0	144.0	5.8	4.0
16	25.0	6.8	7.5	5.8	19.0	91.0	157.0	182.0	83.0	83.0	5.8	4.0
17	20.0	6.8	6.5	5.2	8.5	200.0	148.0	117.0	59.0	54.0	5.8	3.6
18	15.0	6.5	6.5	4.6	6.5	94.0	98.0	82.0	64.0	36.0	5.5	4.0
19	12.0	21.0	6.2	4.6	5.2	62.0	58.0	68.0	51.0	26.0	5.5	4.0
20	13.0	20.0	5.8	4.6	4.9	110.0	37.0	54.0	51.0	18.0	5.2	4.0
21	19.0	14.0	5.5	4.6	4.6	212.0	36.0	41.0	40.0	13.0	5.5	4.6
22	19.0	12.0	5.2	4.2	5.2	222.0	56.0	32.0	75.0	73.0	5.5	4.9
23	31.0	118.0	4.6	4.0	6.8	222.0	142.0	232.0	25.0	153.0	5.8	4.9
24	28.0	212.0	4.6	4.0	6.2	170.0	107.0	720.0	20.0	10.0	5.8	4.2
25	22.0	123.0	4.6	4.0	5.2	134.0	124.0	587.0	15.0	66.0	5.5	4.9
26	29.0	76.0	4.2	3.6	4.9	103.0	163.0	424.0	13.0	45.0	5.5	4.6
27	52.0	54.0	4.2	3.4	4.9	76.0	262.0	311.0	12.0	32.0	5.2	4.6
28	40.0	39.0	4.0	3.6	4.9	48.0	240.0	243.0	10.0	24.0	5.2	4.6
29	32.0	4.9	3.4	4.6	4.6	48.0	304.0	170.0	12.0	17.0	6.2	4.6
30	47.0	7.2	3.6	4.6	4.6	210.0	273.0	119.0	13.0	13.0	4.9	4.0
31	36.0	6.5	4.6	4.6	4.6	215.0	215.0	74.0	11.0	11.0	4.2	4.2
MEAN	34.93	31.56	9.78	7.71	25.62	93.87	136.61	259.77	47.67	71.39	6.32	4.62
INCHES	1.137	0.928	0.319	0.243	0.834	2.958	4.449	8.460	1.502	2.325	0.199	0.150
STA AV	0.627	0.586	0.287	0.187	0.448	1.611	2.376	4.348	0.828	1.383	0.244	0.135

NOTES: To convert mean daily discharge in CFS to I/D/AT, multiply by 0.00190556. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 2 yr (1965-1966) record period.

1967		MEAN DAILY DISCHARGE (cfs)					VEHO BEACH, FLORIDA (WILLIAMSON DITCH)				WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.60	3.40	4.00	3.40	2.20	1.30	159.00	11.00	212.00	82.00	6.50	3.00
2	4.90	3.00	3.60	3.00	2.20	3.00	155.00	14.00	102.00	273.00	6.10	2.70
3	5.50	3.00	4.00	3.40	2.20	4.60	112.00	9.50	58.00	161.00	6.10	2.70
4	6.20	3.00	5.80	3.40	2.20	2.20	132.00	7.80	39.00	90.00	6.10	2.70
5	5.20	3.00	4.90	3.00	2.20	3.40	163.00	25.00	121.00	61.00	5.70	3.60
6	4.90	3.00	4.20	2.80	1.80	5.20	121.00	121.00	119.00	69.00	5.40	3.90
7	4.90	3.40	3.60	2.80	1.80	3.60	121.00	69.00	96.00	88.00	5.00	3.60
8	4.20	4.00	4.20	3.00	1.80	3.00	128.00	52.00	76.00	76.00	4.60	2.70
9	4.00	4.20	4.60	3.00	2.20	2.80	123.00	68.00	52.00	61.00	4.20	2.70
10	4.20	4.00	4.60	3.00	2.20	2.80	238.00	41.00	39.00	61.00	4.60	2.70
11	4.00	3.60	4.60	3.00	2.20	3.60	140.00	43.00	87.00	48.00	5.00	5.00
12	4.00	4.60	4.20	3.40	2.20	4.90	91.00	80.00	80.00	36.00	5.00	7.70
13	4.00	4.60	4.20	3.40	1.80	4.20	128.00	77.00	77.00	29.00	5.00	4.60
14	4.00	4.00	4.20	3.40	1.80	4.60	106.00	91.00	116.00	24.00	4.60	3.90
15	4.20	3.60	4.00	3.00	1.80	6.80	693.00	66.00	77.00	24.00	4.60	3.30
16	4.60	3.60	3.40	3.00	2.20	7.20	567.00	51.00	51.00	19.00	4.60	3.30
17	4.20	3.60	3.40	3.00	2.20	12.00	365.00	119.00	36.00	14.00	5.00	3.30
18	4.60	3.40	3.40	3.00	2.20	12.00	290.00	217.00	31.00	13.00	4.60	3.00
19	4.60	3.60	3.40	3.00	1.60	17.00	212.00	236.00	28.00	12.00	4.20	3.00
20	4.60	4.00	3.40	3.00	1.60	12.00	159.00	278.00	14.00	10.00	3.90	3.00
21	4.20	4.90	3.60	2.80	1.60	8.10	130.00	177.00	11.00	9.10	3.90	3.00
22	4.20	21.00	4.00	2.80	2.20	6.50	134.00	304.00	10.00	8.10	3.90	3.00
23	4.00	12.00	4.00	2.80	2.20	6.80	168.00	136.00	10.00	9.10	3.60	3.30
24	4.00	6.50	4.00	2.80	1.80	15.00	115.00	68.00	9.00	11.00	3.30	3.00
25	4.00	8.90	4.00	2.40	1.60	9.00	95.00	40.00	8.10	26.00	3.30	3.00
26	4.00	4.60	4.00	2.40	1.60	6.50	56.00	29.00	9.00	25.00	3.30	3.00
27	4.00	4.20	3.60	2.40	1.60	5.50	39.00	22.00	8.50	18.00	3.30	3.60
28	4.00	4.00	4.20	2.40	1.60	5.20	28.00	15.00	11.00	13.00	3.30	5.90
29	3.60	3.60	3.60	2.40	1.60	4.90	20.00	12.00	48.00	10.00	3.30	6.90
30	3.60	3.40	3.40	2.40	1.60	13.00	14.00	10.00	65.00	8.60	3.00	5.00
31	3.40	3.40	3.40	1.60	1.60	11.00	365.00	11.00	7.30	7.30	4.20	4.20
MEAN	4.34	4.81	3.98	2.92	1.92	6.56	171.06	92.04	56.39	45.04	4.50	3.69
INCHES	0.141	0.142	0.130	0.092	0.062	0.207	5.571	2.998	1.777	1.467	0.142	0.120
STA AV	0.465	0.438	0.235	0.155	0.319	1.143	3.441	3.898	1.144	1.411	0.210	0.130

NOTES: To convert mean daily discharge in CFS to I/D/AT, multiply by 0.00190556. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 3 yr (1965-1967) record period.

1968	MEAN DAILY DISCHARGE (cfs)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.90	5.40	3.60	3.30	2.10	5.00	119.00	12.00	85.00	36.00	18.00	6.50
2	3.90	5.00	3.60	3.60	1.80	3.90	315.00	9.60	27.00	26.00	14.00	6.50
3	3.60	5.00	3.30	3.30	1.60	20.00	471.00	9.60	18.00	19.00	12.00	6.10
4	3.60	4.60	3.30	3.00	1.80	205.00	222.00	21.00	9.10	18.00	11.00	5.70
5	3.60	4.60	3.10	2.70	1.40	257.00	267.00	36.00	7.70	11.00	9.60	5.70
6	3.60	5.40	3.60	2.40	1.40	324.00	365.00	22.00	6.50	9.10	9.10	5.70
7	3.60	5.40	4.20	3.00	1.20	483.00	488.00	5.60	246.00	88.00	7.70	5.70
8	3.30	4.60	3.90	3.30	1.20	103.00	535.00	10.00	7.70	22.00	5.70	5.40
9	3.30	4.20	3.90	3.00	1.20	194.00	301.00	9.60	44.00	26.00	10.00	5.00
10	3.90	4.20	3.90	3.00	1.20	459.00	186.00	9.60	124.00	19.00	90.00	4.20
11	4.60	4.20	3.90	3.30	1.40	503.00	132.00	10.00	159.00	119.00	79.00	4.20
12	4.20	4.60	3.30	3.30	1.40	424.00	88.00	6.60	246.00	6.60	105.00	4.20
13	4.20	4.20	3.90	3.30	1.40	479.00	62.00	7.30	207.00	51.00	68.00	5.00
14	7.30	4.20	3.90	3.00	1.20	684.00	54.00	7.30	304.00	33.00	45.00	4.60
15	6.50	4.20	3.60	3.00	1.60	595.00	44.00	11.00	161.00	73.00	33.00	4.60
16	5.70	4.60	3.60	3.00	2.10	747.00	54.00	22.00	83.00	273.00	27.00	4.60
17	5.00	5.00	3.60	3.00	2.10	623.00	54.00	19.00	49.00	404.00	20.00	4.20
18	5.00	4.20	3.30	2.70	2.40	351.00	47.00	11.00	33.00	539.00	16.00	4.60
19	4.60	5.40	3.30	2.40	2.70	273.00	93.00	7.30	23.00	295.00	14.00	4.60
20	4.20	7.30	3.30	2.10	3.90	368.00	72.00	5.40	76.00	207.00	12.00	4.60
21	4.20	6.50	3.00	2.10	3.00	267.00	61.00	5.40	70.00	124.00	9.60	5.00
22	3.90	7.30	3.00	1.80	2.70	148.00	87.00	5.00	56.00	85.00	8.60	5.40
23	3.60	6.50	3.00	1.80	2.40	55.00	175.00	5.00	55.00	56.00	6.60	5.00
24	4.20	7.30	3.30	1.60	2.40	65.00	117.00	5.00	121.00	301.00	7.70	5.00
25	4.20	5.40	3.30	1.40	2.60	48.00	66.00	4.60	110.00	217.00	7.30	4.60
26	4.60	4.20	3.30	1.40	8.10	205.00	41.00	5.40	93.00	134.00	6.90	4.60
27	5.00	3.90	3.30	1.40	8.60	471.00	29.00	5.00	191.00	77.00	6.50	5.00
28	5.00	3.60	3.30	1.60	6.90	240.00	18.00	6.10	119.00	52.00	6.50	5.00
29	5.00	3.60	3.30	1.80	5.60	344.00	14.00	10.00	79.00	39.00	6.50	5.40
30	5.00		3.30	1.80	19.00	186.00	18.00	27.00	54.00	27.00	6.50	5.40
31	5.40		3.30		7.70		18.00	62.00		22.00		5.00
MEAN	4.49	4.99	3.49	2.55	3.51	302.13	150.58	12.96	86.06	110.14	22.78	5.06
INCREAS	0.146	0.152	0.114	0.080	0.114	9.522	4.904	0.422	2.712	3.587	0.718	0.165
STA AY	0.386	0.366	0.204	0.137	0.268	3.238	3.807	3.029	1.536	1.955	0.337	0.139

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00105056. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AY based on 4 yr (1965-1968) record period.

1969	MEAN DAILY DISCHARGE (cfs)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.60	5.40	2.70	6.50	3.60	4.60	12.00	26.00	24.00	64.00	437.00	62.00
2	3.60	5.40	2.70	6.90	3.60	4.60	10.00	20.00	18.00	95.00	280.00	45.00
3	3.30	5.00	3.00	13.00	6.50	4.60	9.60	17.00	15.00	564.00	177.00	33.00
4	5.70	4.60	3.30	11.00	30.00	4.60	20.00	27.00	12.00	613.00	114.00	27.00
5	12.00	4.20	3.60	7.70	22.00	4.20	175.00	30.00	11.00	472.00	76.00	22.00
6	27.00	3.60	3.60	6.50	11.00	11.00	108.00	25.00	11.00	259.00	58.00	18.00
7	18.00	3.90	3.60	6.10	7.30	55.00	61.00	18.00	17.00	132.00	32.00	16.00
8	12.00	4.20	10.00	4.60	5.40	29.00	77.00	25.00	62.00	37.00	37.00	18.00
9	10.00	5.00	608.00	4.20	4.20	18.00	16.00	193.00	50.00	55.00	31.00	16.00
10	9.60	4.60	487.00	3.90	3.90	11.00	12.00	168.00	418.00	41.00	26.00	247.00
11	8.60	4.20	197.00	3.90	3.60	8.60	10.00	504.00	495.00	32.00	22.00	475.00
12	9.10	5.40	83.00	3.90	8.10	16.00	8.10	400.00	259.00	25.00	17.00	251.00
13	8.60	6.10	58.00	3.90	23.00	238.00	7.30	400.00	124.00	20.00	14.00	126.00
14	7.70	6.10	43.00	3.90	29.00	483.00	6.90	421.00	85.00	15.00	240.00	79.00
15	7.30	7.80	30.00	3.90	128.00	770.00	9.10	421.00	70.00	12.00	363.00	58.00
16	7.30	10.00	39.00	3.90	77.00	706.00	22.00	515.00	68.00	11.00	193.00	45.00
17	6.90	7.70	603.00	3.90	41.00	591.00	11.00	340.00	59.00	9.60	114.00	36.00
18	6.50	6.10	368.00	4.20	24.00	299.00	8.60	203.00	110.00	11.00	74.00	30.00
19	6.50	5.00	159.00	4.20	14.00	198.00	32.00	230.00	186.00	41.00	54.00	15.00
20	9.10	4.60	65.00	4.20	260.00	428.00	56.00	146.00	103.00	70.00	41.00	18.00
21	9.60	3.90	55.00	3.90	128.00	365.00	59.00	55.00	65.00	55.00	32.00	18.00
22	8.10	3.90	37.00	3.90	65.00	193.00	40.00	74.00	47.00	64.00	42.00	19.00
23	6.90	3.60	26.00	4.20	35.00	110.00	24.00	65.00	39.00	49.00	22.00	17.00
24	6.50	3.60	18.00	4.20	20.00	74.00	13.00	47.00	73.00	419.00	19.00	14.00
25	6.50	3.30	12.00	3.90	10.00	52.00	9.10	64.00	168.00	331.00	18.00	12.00
26	7.30	3.30	22.00	3.90	7.70	36.00	7.30	182.00	103.00	203.00	16.00	12.00
27	6.90	3.00	17.00	3.60	6.50	17.00	6.10	110.00	65.00	144.00	15.00	12.00
28	6.10	2.70	12.00	3.60	5.70	14.00	16.00	79.00	47.00	102.00	164.00	11.00
29	5.70	10.00	3.00	3.60	6.10	12.00	54.00	58.00	61.00	340.00	152.00	9.60
30	5.00		3.60	3.30	6.10	12.00	60.00	40.00	79.00	595.00	91.00	9.10
31	5.00		7.30		4.60		31.00	30.00		46.00		8.60
MEAN	8.26	4.06	97.38	4.98	32.25	158.51	29.78	162.10	96.90	173.12	98.47	57.40
INCREAS	0.269	0.143	1.170	0.156	1.050	4.996	0.970	5.279	3.054	5.638	3.103	1.469
STA AY	0.362	0.322	0.798	0.140	0.425	3.589	3.239	3.479	1.840	2.691	0.890	0.485

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00105056. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AY based on 5 yr (1965-1969) record period.

1970	MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5				
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	8.10	8.60	9.10	61.00	3.60	34.00	64.00	30.00	6.50	95.00	48.00	4.60			
2	8.10	9.10	8.10	41.00	3.00	52.00	41.00	18.00	5.70	180.00	25.00	5.00			
3	70.00	171.00	7.70	29.00	3.30	29.00	27.00	11.00	5.40	140.00	20.00	4.60			
4	163.00	282.00	7.70	23.00	3.30	17.00	22.00	9.10	5.40	188.00	15.00	4.20			
5	95.00	188.00	7.70	16.00	3.30	95.00	55.00	7.70	5.00	128.00	12.00	3.90			
6	190.00	93.00	7.70	14.00	3.00	83.00	107.00	10.00	6.50	93.00	10.00	3.90			
7	83.00	62.00	7.70	13.00	15.00	49.00	155.00	82.00	10.00	210.00	9.10	3.90			
8	230.00	44.00	37.00	9.60	5.70	37.00	478.00	119.00	7.70	191.00	8.10	3.60			
9	121.00	33.00	34.00	5.40	4.60	23.00	331.00	386.00	4.60	108.00	7.70	3.30			
10	76.00	26.00	29.00	5.40	5.00	14.00	184.00	337.00	3.60	70.00	5.40	3.30			
11	58.00	19.00	15.00	6.50	4.20	36.00	100.00	193.00	3.90	51.00	4.20	3.30			
12	47.00	16.00	17.00	6.90	4.20	98.00	62.00	140.00	3.90	39.00	4.60	3.30			
13	40.00	14.00	148.00	6.90	4.20	49.00	8.20	240.00	3.90	29.00	5.00	3.60			
14	31.00	12.00	80.00	6.50	3.90	26.00	34.00	138.00	15.00	23.00	5.00	3.90			
15	248.00	11.00	48.00	5.40	3.30	15.00	32.00	108.00	51.00	19.00	5.00	3.90			
16	366.00	11.00	31.00	4.60	3.30	11.00	48.00	68.00	23.00	24.00	5.00	3.90			
17	195.00	14.00	23.00	4.20	3.30	8.60	29.00	45.00	12.00	52.00	4.60	4.20			
18	136.00	13.00	17.00	4.20	3.60	7.30	20.00	30.00	9.10	48.00	4.20	4.60			
19	95.00	12.00	13.00	4.20	3.60	6.50	14.00	23.00	7.70	31.00	4.20	3.90			
20	68.00	10.00	12.00	4.20	3.30	6.10	12.00	17.00	6.50	23.00	4.20	3.90			
21	51.00	9.10	10.00	4.20	3.30	6.50	69.00	98.00	6.10	17.00	4.20	4.20			
22	39.00	8.60	11.00	3.90	3.30	8.60	301.00	72.00	6.10	18.00	4.20	3.90			
23	31.00	8.10	13.00	3.90	3.30	6.90	243.00	45.00	5.70	15.00	4.60	3.60			
24	25.00	7.70	11.00	3.90	6.10	67.00	235.00	34.00	6.90	12.00	4.60	3.30			
25	22.00	10.00	40.00	3.90	8.60	107.00	128.00	26.00	12.00	10.00	4.20	3.30			
26	19.00	24.00	746.00	4.60	5.70	138.00	74.00	18.00	12.00	9.10	4.20	3.30			
27	15.00	12.00	835.00	5.00	6.90	80.00	66.00	14.00	10.00	7.70	4.20	3.30			
28	14.00	8.60	678.00	4.60	17.00	41.00	61.00	12.00	7.70	7.30	4.20	3.00			
29	12.00	8.60	395.00	4.60	29.00	14.00	29.00	12.00	8.60	6.90	4.20	3.60			
30	11.00	10.00	182.00	3.90	85.00	90.00	98.00	9.10	102.00	51.00	4.20	3.00			
31	9.60		90.00		37.00		56.00	7.70		119.00		3.30			
MEAN	94.35	39.17	116.86	10.54	8.93	42.02	107.71	74.86	12.45	60.65	8.84	3.74			
INCREAS	3.073	1.152	3.806	0.332	0.291	1.324	3.508	2.438	0.392	1.975	0.266	0.122			
STA AV	0.814	0.460	1.299	0.172	0.402	3.212	3.284	3.305	1.599	2.572	0.786	0.424			

NOTES: To convert mean daily discharge in CFS to M³/DAY, multiply by 0.00105056. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 6 yr (1965-1970) record period.

1971	MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5				
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	3.60	5.00	5.70	3.30	1.80	1.80	56.00	59.00	64.00	5.00	30.00	3.30			
2	3.60	4.20	6.90	2.70	1.80	1.80	95.00	32.00	117.00	4.60	17.00	3.60			
3	3.60	4.20	6.10	2.70	1.60	1.80	62.00	16.00	200.00	8.20	15.00	4.60			
4	3.30	4.20	6.50	3.30	1.60	1.60	37.00	23.00	170.00	3.90	13.00	5.40			
5	3.60	4.60	6.10	3.90	1.60	1.80	31.00	115.00	85.00	4.60	13.00	5.70			
6	3.90	5.40	6.90	3.30	1.80	1.80	34.00	83.00	104.00	3.90	110.00	5.70			
7	3.90	7.30	7.30	2.70	1.80	2.70	49.00	41.00	238.00	3.90	82.00	5.70			
8	4.20	8.60	8.60	2.40	1.80	3.30	59.00	20.00	159.00	8.10	48.00	5.70			
9	7.20	7.70	5.40	2.40	1.80	7.70	42.00	12.00	124.00	11.00	26.00	5.40			
10	4.20	5.70	3.90	2.10	1.80	66.00	293.00	10.00	119.00	12.00	17.00	5.40			
11	3.90	4.20	3.90	2.10	1.80	34.00	146.00	8.10	98.00	23.00	11.00	5.00			
12	3.90	3.90	3.60	2.40	1.80	102.00	85.00	6.90	207.00	26.00	7.30	5.40			
13	3.60	3.90	3.30	2.70	1.60	126.00	54.00	12.00	618.00	17.00	4.20	5.00			
14	3.30	3.90	3.60	2.70	3.80	82.00	32.00	95.00	534.00	13.00	4.60	4.60			
15	3.00	3.60	3.90	3.00	9.60	39.00	24.00	83.00	377.00	11.00	5.00	4.60			
16	2.70	3.60	4.20	3.00	37.00	16.00	26.00	55.00	230.00	9.60	5.00	4.60			
17	2.70	5.00	5.00	3.00	18.00	14.00	17.00	31.00	115.00	11.00	5.00	4.60			
18	2.70	5.00	3.90	3.00	8.10	159.00	12.00	32.00	56.00	23.00	5.00	3.90			
19	2.70	4.60	3.60	3.00	3.90	112.00	9.10	72.00	36.00	22.00	4.60	3.30			
20	2.70	3.90	3.00	2.70	3.00	59.00	7.30	146.00	25.00	17.00	4.60	3.30			
21	2.70	5.00	2.70	2.40	2.40	29.00	7.70	82.00	16.00	16.00	4.20	3.30			
22	3.00	5.40	3.30	2.10	2.40	19.00	9.60	43.00	12.00	17.00	4.20	3.90			
23	3.60	5.70	3.60	1.80	1.80	45.00	40.00	26.00	11.00	14.00	3.90	7.00			
24	3.60	6.90	3.90	1.60	1.80	155.00	34.00	30.00	9.60	11.00	3.90	10.00			
25	3.00	6.50	3.90	1.60	1.80	212.00	23.00	25.00	8.10	5.60	3.90	9.60			
26	3.30	5.70	4.60	1.60	3.00	126.00	14.00	30.00	7.30	8.10	3.60	7.30			
27	3.30	5.70	5.40	1.60	3.00	70.00	40.00	32.00	6.50	7.30	3.60	6.90			
28	3.60	5.40	5.40	1.60	3.30	65.00	58.00	65.00	5.70	7.70	3.30	8.60			
29	3.90	4.60	4.60	1.80	3.90	91.00	91.00	37.00	5.70	14.00	3.30	8.10			
30	4.60	3.90	1.60	2.70	77.00	269.00	37.00	5.40	14.00	3.90	6.50	5.70			
31	5.60	3.60			2.10	126.00	126.00	77.00		14.00		6.10			
MEAN	3.51	5.17	4.72	2.47	1.33	57.41	62.41	46.32	128.18	11.82	15.50	5.57			
INCREAS	0.114	0.152	0.158	0.078	0.141	1.809	2.933	1.509	4.040	0.385	0.489	0.162			
STA AV	0.714	0.416	1.135	0.159	0.365	3.012	3.105	3.049	1.947	2.260	0.744	0.390			

NOTES: To convert mean daily discharge in CFS to M³/DAY, multiply by 0.00105056. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 7 yr (1965-1971) record period.

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 RUNOFF (inches)												WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
P	4.57	6.28	8.78	3.95	3.33	2.88	7.35	7.40	5.08	3.00	4.38	3.84	60.86																
1971 Q	0.007	0.270	1.682	0.015	0.002	0.0	0.002	0.026	0.247	0.0	0.003	0.0	2.214																
STA AV P	4.73	4.60	6.00	4.43	3.86	3.68	5.07	4.00	3.19	2.91	3.58	4.52	50.67																
Q	0.475	0.384	0.672	0.435	0.372	0.219	0.384	0.323	0.036	0.063	0.297	0.230	3.890																
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
Maximum Discharge												Maximum Volume for Selected Time Interval																	
Date		1 Hour		2 Hours		6 Hours		1 Day		2 Days		8 Days																	
Date		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.																
1971		3-3	0.330	3-3	0.322	3-3	0.504	3-3	1.234	3-3	1.435	3-2	1.520	3-2	1.664	3-2	1.664												
MAXIMUMS FOR PERIOD OF RECORD																													
4-25		2.710	6-26	1.840	6-26	2.580	6-26	3.480	6-26	3.780	11-26	5.680	11-22	6.640															
1945		1963	1963	1963	1963	1963	1963	1963	1963	1963	1948	1948	1948																

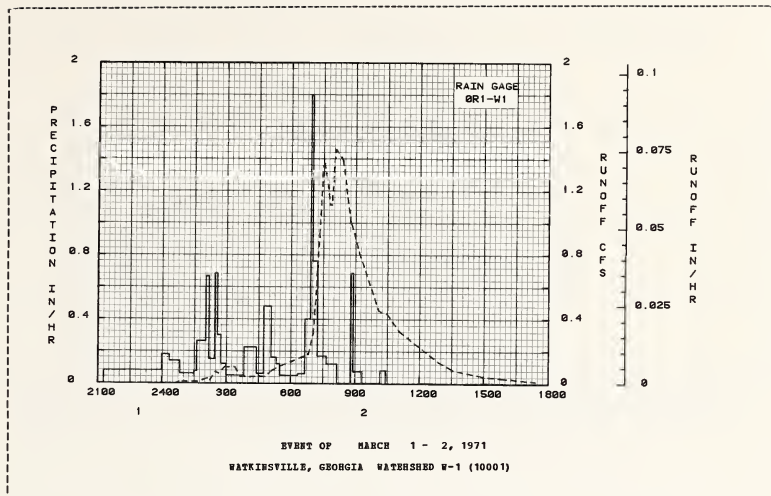
NOTES: Watershed conditions: 1971: Excellent ground cover of pastured Coastal Bermuda grass fertilized in May, July, and August each with 2500 pounds 33.5% Am. Nitrate, 1667 pounds 15% super phosphate and 1667 pounds 30% potash. 667 Cow unit grazing days and 99 tons hay produced. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 985, p. 10, 1-8. P and Q records began Sept. 1, 1939. For long-time precipitation records, see National Weather Service records at Athens, Ga. (1885-1939) and Southern Piedmont Conservation Research Center (1980-1971).

1971 DAILY AIR TEMPERATURE (degrees F)																		WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)																	
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	50	30	37	18	70	48	71	36	74	50	87	50	85	69	83	68	81	70	88	65	77	69	48	30											
2	59	26	44	24	61	56	61	41	73	44	86	60	85	68	85	70	81	70	88	65	80	69	46	30											
3	51	28	37	28	56	31	67	29	62	40	86	64	88	68	88	70	82	67	87	58	72	50	35	30											
4	66	46	35	29	83	26	70	32	69	37	92	63	83	66	90	68	82	68	84	61	63	36	40	33											
5	64	44	60	34	58	21	59	41	77	45	92	63	84	68	89	70	86	70	86	60	61	32	40	37											
6	48	34	66	26	60	29	55	38	85	50	94	64	83	69	84	70	87	69	80	62	71	50	47	40											
7	51	28	45	33	53	35	62	37	81	60	90	67	87	69	88	69	85	66	74	50	61	36	68	47											
8	38	32	52	24	46	30	69	35	81	63	85	67	88	68	84	66	73	44	53	28	62	40	40												
9	38	32	29	17	58	24	75	34	78	52	85	65	90	67	90	71	86	64	65	58	43	27	62	36											
10	43	37	40	12	46	33	77	48	72	50	80	64	90	70	87	72	87	66	68	43	62	36	66	53											
11	56	39	56	16	64	30	78	39	76	50	85	68	91	70	89	70	88	69	72	38	69	38	74	49											
12	68	42	62	23	68	38	81	41	80	64	90	63	93	70	84	69	84	63	80	47	70	44	78	50											
13	54	36	51	23	63	42	81	44	84	66	92	61	85	69	84	67	78	59	76	46	74	47	70	45											
14	68	48	46	17	76	53	72	42	74	46	92	69	91	71	84	64	85	58	83	50	70	46	70	43											
15	60	36	58	25	71	49	73	40	62	60	95	67	83	69	86	63	89	63	78	66	71	42	72	52											
16	44	30	65	30	67	45	78	38	78	56	89	66	80	66	72	70	83	66	84	66	79	45	78	61											
17	48	29	69	37	55	31	83	40	85	51	77	67	88	69	77	67	74	65	77	63	67	46	62	42											
18	45	32	72	35	61	25	88	48	84	52	83	66	90	68	85	63	77	67	68	56	69	45	50	27											
19	33	19	70	40	59	41	80	58	84	56	81	67	86	70	88	69	82	65	73	51	72	44	56	23											
20	42	15	71	54	48	33	86	52	83	58	88	68	82	70	89	67	86	66	68	62	58	40	63	46											
21	53	18	59	52	59	31	76	58	80	59	90	68	87	67	90	70	87	68	66	62	57	32	70	48											
22	60	43	69	49	57	44	78	51	81	49	89	70	82	69	83	70	72	66	71	62	50	26	57	41											
23	61	30	55	36	54	41	74	46	83	58	89	67	84	66	85	72	76	65	71	63	38	32	42	34											
24	49	34	61	32	56	30	71	46	80	67	91	65	88	71	86	68	85	61	73	60	38	32	62	38											
25	52	45	70	30	37	30	76	51	76	60	94	66	84	70	85	68	70	62	76	56	57	31	66	39											
26	58	33	55	38	37	31	82	49	84	50	97	67	84	70	84	68	82	60	79	50	51	30	72	44											
27	33	23	68	41	60	28	76	50	88	51	91	70	87	71	88	68	84	62	78	50	59	35	71	42											
28	50	22	63	33	70	36	80	60	84	59	90	67	87	66	86	59	82	62	77	52	56	30	75	55											
29	62	28	68	46	68	46	76	56	72	53	88	67	84	69	82	62	82	62	76	56	65	44	66	50											
30	64	54	62	37	62	50	76	50	86	69	78	70	81	81	81	68	89	60	72	64	55	33	71	52											
31	60	24	67	31	67	31	86	57	86	57	80	69	82	70	80	69	82	70	80	68				65	44										
AV.	53	33	56	31	58	36	73	45	78	53	88	66	86	69	85	68	83	67	76	57	62	40	61	42											
SEAN	42.8		43.3	46.9	59.0		65.6	77.1	77.2		76.7		73.7		73.7		66.6		51.1		51.7														
STA AV	50	30	55	32	61	37	74	48	79	55	88	65	91	69	86	68	84	64	75	54	62	37	57	37											

NOTES: STA AV based on 3 yr (1969-71) record period.

1971 SELECTED RUROFF EVENT			WATKINSVILLE, GEORGIA WATERSHED #-1 (10001)								
ANTECEDENT CONDITIONS			RAINFALL				RUROFF				
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 MARCS 1 - 2, 1971											
RG 0B1-W1			RG 0B1-W1								
3- 1	0.0		3- 1	2117	0.0	0.0	3- 2	10	0.0	0.0	
3- 2	0.0	0.0		2400	0.0810	0.22		80	0.005	0.0001	
				10	0.1800	0.25		48	0.008	0.0001	
			3- 2	20	0.1800	0.28		58	0.008	0.0002	
				50	0.1400	0.35		100	0.013	0.0006	
WATERSHED CONDITIONS:											
Dormant Coastal Bermuda grass			100	0.0600	0.36		208	0.029	0.0011		
-excellent cover.			130	0.0600	0.39		215	0.024	0.0012		
			138	0.0750	0.40		230	0.066	0.0018		
30 Day Antecedent Conditions:			203	0.2640	0.51		240	0.059	0.0023		
			212	0.6667	0.61		256	0.096	0.0034		
Date	Rainfall	Runoff									
(inches)	(inches)	(inches)									
01-31	0.24	0.0000	228	0.1500	0.65		325	0.098	0.0058		
02-04	0.40	0.0000	235	0.6857	0.73		340	0.038	0.0067		
02-05	0.58	0.0022	245	0.3000	0.78		448	0.038	0.0089		
02-07	1.66	0.0970	300	0.1200	0.81		508	0.078	0.0099		
02-08	0.26	0.0000	350	0.0480	0.85		534	0.114	0.0121		
02-12	0.07	0.0000									
02-13	0.25	0.0000	425	0.2229	0.98		650	0.176	0.0216		
02-20	0.57	0.0000	445	0.0600	1.00		703	0.311	0.0243		
02-21	0.42	0.0000	505	0.4800	1.16		706	0.426	0.0252		
02-22	1.52	0.0000	520	0.1600	1.20		710	0.516	0.0269		
02-25	0.02	0.0000	530	0.1200	1.22		720	0.961	0.0332		
02-26	0.54	0.0000									
02-28	0.05	0.0000	620	0.0480	1.26		730	1.405	0.0434		
03-01	0.23	0.0000	640	0.0600	1.28		740	1.270	0.0549		
			655	0.4000	1.38		749	1.110	0.0641		
			700	1.8000	1.53		754	1.110	0.0689		
			715	0.7600	1.72		800	1.355	0.0753		
			780	0.1680	1.79		804	1.460	0.0801		
			810	0.1200	1.85		824	1.390	0.1047		
			848	0.0	1.85		846	1.010	0.1274		
			855	0.6857	1.93		853	0.956	0.1333		
			920	0.0720	1.96		911	0.810	0.1470		
			1010	0.0	1.96		1006	0.446	0.1767		
			1025	0.0800	1.98		1014	0.444	0.1798		
							1029	0.426	0.1854		
							1104	0.317	0.1966		
							1254	0.127	0.2176		
							1334	0.080	0.2212		
							1500	0.035	0.2255		
							1550	0.026	0.2268		
							1724	0.013	0.2283		

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

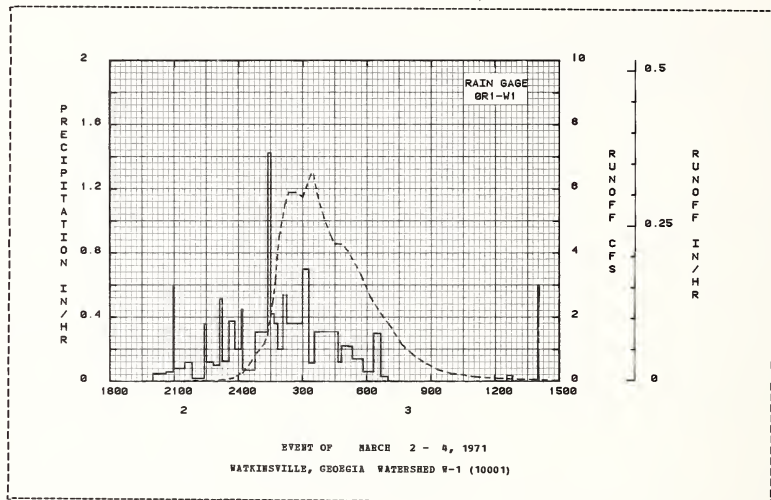


1971 SELECTED RUNOFF EVENT				WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)						
PRECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)
No-Day			No-Day	of Day			No-Day	of Day		
EVENT OF MARCH 2 - 4, 1971										
3-2	BG BR1-W1 1.98	0.229	3-2	2000	0.0	0.0	3-2	1930	0.005	0.0
				2037	0.0487	0.03		2100	0.005	0.2297
				2057	0.0600	0.05		2113	0.007	0.2298
				2100	0.6000	0.08		2230	0.021	0.2307
				2130	0.0800	0.12		2252	0.020	0.2311
WATERSHED CONDITIONS:			2150	0.1200	0.16		2313	0.055	0.2318	
Dominant coastal Berwidgegrass			2225	0.0171	0.17		2322	0.048	0.2322	
-excellent cover.			2230	0.3600	0.20		2338	0.091	0.2331	
30 Day antecedent Conditions:			2250	0.1200	0.24		2347	0.113	0.2339	
	Rainfall	Runoff	2308	0.1000	0.27		2355	0.166	0.2349	
Date	(inches)	(inches)	2315	0.5183	0.33		3-3	5	0.258	0.2367
01-31	0.24	0.0000	2334	0.1263	0.37		12	0.263	0.2382	
02-04	0.40	0.0000	2350	0.3750	0.47		32	0.537	0.2451	
02-07	1.66	0.0970	3-3	8	0.2000	0.53	50	0.859	0.2559	
02-08	0.26	0.0000	12	0.4500	0.56		112	1.166	0.2751	
02-12	0.07	0.0000	87	0.0686	0.60		122	1.458	0.2864	
02-13	0.25	0.0000	122	0.1086	0.78		136	2.435	0.3098	
02-20	0.57	0.0000	130	1.4250	0.97		144	3.182	0.3292	
02-21	0.42	0.0000	140	0.4200	1.04		148	3.809	0.3412	
02-22	1.52	0.0000	150	0.3600	1.10		154	4.512	0.3627	
02-25	0.02	0.0000	205	0.2000	1.15		210	5.520	0.4318	
02-26	0.54	0.0000	215	0.5400	1.24		220	5.890	0.4809	
02-28	0.05	0.0000	300	0.3600	1.51		240	5.490	0.5823	
03-01	0.23	0.0000	318	0.7000	1.72		300	5.740	0.6825	
03-02	1.76	0.2293	334	0.1125	1.75		323	6.460	0.8033	
			440	0.3091	2.09		330	6.460	0.8422	
			450	0.1200	2.11		340	5.855	0.8952	
			509	0.2211	2.16		400	5.079	0.9893	
			520	0.2182	2.22		424	4.385	1.0871	
			550	0.1400	2.29		430	4.287	1.1095	

NOTES: To convert runoff in CFS to I³/HR, multiply by 0.051653.

1971 SELECTED SUOFF EVENT			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)							
ANTECEDENT CONDITIONS			RAINFALL				SUOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 2 - 4, 1971 (CONTINUED)										
3- 3	620	0.0600			2.32	2.32	3- 3	488	4.285	1.1759
	680	0.3000			2.42	2.42		508	4.056	1.2477
	700	0.0300			2.43	2.43		585	3.291	1.3687
	1234	0.0			2.43	2.43		610	2.434	1.4285
	1250	0.0375			2.44	2.44		640	2.114	1.4898
	1401	0.0			2.44	2.44		710	1.657	1.5385
	1405	0.6000			2.88	2.88		738	1.158	1.5723
								814	0.785	1.6028
								838	0.613	1.6168
								920	0.358	1.6304
								958	0.237	1.6441
								1040	0.176	1.6516
								1106	0.144	1.6552
								1210	0.086	1.6615
								1310	0.058	1.6652
								1400	0.048	1.6675
								1620	0.018	1.6715
								1830	0.005	1.6728
								2100	0.002	1.6732
								2340	0.002	1.6735
							3- 4	354	0.001	1.6738
								830	0.0	1.6739

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



BLACKSBURG, VIRGINIA CBA8 CREEK WATERSHED (13007)

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

AREA: 786.00 acres 1.23 sq. miles

MONTHLY PRECIPITATION AND RUMOFF (inches)													BLACKSBURG, VIRGINIA CBA8 CREEK WATERSHED (13007)														
	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
P	1.72	4.46	2.20	3.00	7.43	3.10	4.47	2.86	3.62	5.58	2.14	0.79	41.36														
1971 Q	0.185	1.065	0.357	0.251	0.570	0.395	0.289	0.374	0.239	1.056	0.431	0.369	5.541														
STA AV P	2.12	2.65	2.97	2.68	3.16	2.58	3.78	3.52	3.00	2.07	2.21	2.70	34.25														
Q	0.612	0.713	0.973	0.722	0.511	0.277	0.246	0.288	0.204	0.276	0.240	0.408	5.466														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUMOFF (inches) FOR SELECTED TIME INTERVALS																													
Date	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.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1971	10-25	0.229	10-25	0.207	10-25	0.347	10-25	0.542	10-25	0.590	10-25	0.635	10-25	0.683	10-23	0.846													
	8-21	0.230	10-25	0.207	10-25	0.347	10-25	0.542	10-25	0.590	10-25	0.635	4-3	0.730	3-27	1.760													
	1966		1971		1971		1971		1971		1971		1960		1960														

NOTES: Watershed conditions: Cultivated, alfalfa and other hay crops, 28%; row crop, 10%; permanent pasture, usually good cover of native bluegrasses combined with other grasses and clovers, 43%; farm woods predominantly hard wood, 13%; idle, 5%; roads, 1%. For topographic map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.7-5. Precipitation Thiessen weighted from rain gages R-1, R-2, R-3, and R-8. Station average precipitation determined from record period from August 1957 through 1971. For long-time precipitation records, see National Weather Service records for Blacksburg, Virginia.

1969 DAILY AIR TEMPERATURES (degrees F)													BLACKSBURG, VIRGINIA CBA8 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	28	10	48	43	30	26	58	31	65	43	87	62	86	66	79	63	82	63	68	50	55	53	43	25	
2	32	15	46	38	36	28	69	46	73	43	80	50	86	65	86	64	77	64	76	58	64	54	45	22	
3	36	18	40	24	42	26	73	49	50	48	72	46	88	65	76	63	74	64	69	57	63	43	42	27	
4	21	7	38	20	42	25	67	47	84	52	76	44	87	62	70	61	74	63	75	51	50	39	28	22	
5	29	5	51	36	44	27	69	56	83	56	80	57	96	68	79	59	76	62	56	50	40	34	42	22	
6	28	14	46	33	38	29	63	42	83	54	87	54	93	70	80	57	84	64	67	52	51	38	40	24	
7	29	14	47	33	34	28	73	34	85	56	85	65	90	67	82	57	83	62	66	53	52	40	36	30	
8	40	15	38	10	45	25	78	42	73	61	94	64	80	63	83	60	75	63	68	50	48	40	42	36	
9	58	23	32	20	39	25	73	50	65	40	81	59	72	63	85	65	68	50	69	41	54	40	40	33	
10	27	14	36	18	29	28	60	53	66	40	63	58	75	67	74	60	64	48	72	47	56	40	40	36	
11	32	15	41	22	25	15	65	46	56	37	83	59	80	68	77	55	69	44	75	51	61	38	48	40	
12	30	13	33	19	33	11	66	42	60	37	82	65	82	66	76	59	71	47	80	54	58	37	39	29	
13	32	12	25	15	38	20	62	39	72	37	83	66	82	63	74	59	72	46	79	59	49	35	42	26	
14	32	13	30	13	41	21	66	50	44	70	48	82	65	84	58	76	64	76	48	61	45	42	40	32	
15	44	13	29	17	44	23	56	46	74	53	83	65	83	62	78	66	79	53	53	30	17	36	29		
16	40	23	32	22	53	24	76	54	72	55	67	52	90	62	74	67	79	53	66	48	53	24	32	22	
17	52	30	42	20	60	27	80	50	75	55	70	53	90	64	81	66	78	60	55	39	56	36	37	21	
18	52	42	43	27	48	38	66	57	68	59	80	61	91	67	80	67	76	56	63	35	59	40	40	22	
19	48	35	39	26	65	36	65	35	72	60	84	62	90	68	79	66	56	50	76	40	59	28	38	29	
20	35	30	43	24	67	39	57	34	82	59	85	60	89	68	78	60	67	52	78	52	36	26	33	23	
21	38	32	48	27	59	37	68	42	77	55	86	61	87	66	78	58	56	52	64	48	44	22	37	21	
22	42	34	31	26	52	30	56	41	82	56	81	64	85	66	73	58	66	51	55	35	58	26	35	26	
23	44	40	44	29	56	28	47	37	78	59	80	65	84	69	78	52	70	47	49	30	59	38	34	24	
24	61	33	41	33	56	39	53	37	80	57	89	64	85	68	74	58	70	58	50	28	58	39	35	25	
25	33	22	34	29	49	35	69	37	77	57	87	67	84	67	84	56	72	54	52	36	53	31	28	23	
26	32	6	29	24	41	28	74	43	80	50	90	64	86	62	79	59	75	52	64	48	52	37	30	25	
27	30	20	31	22	37	27	80	52	65	52	92	71	84	66	78	59	75	69	45	63	51	30	29	22	
28	28	23	43	13	54	23	75	55	84	49	94	69	85	66	80	55	66	47	52	36	50	34	45	23	
29	58	26			59	34	62	38	90	58	93	68	80	62	82	53	66	42	51	33	51	26	41	34	
30	62	52			49	25	63	36	92	62	91	65	80	58	82	58	72	45	53	32	43	28	55	35	
31	55	39			46	21			91	61			83	59	81	56									
1 AV	39	22	39	25	46	27	66	44	75	52	83	61	85	65	79	60	72	54	64	45	52	34	39	27	
MEAN	30.6	31.9	36.3	54.9	63.5	71.9	75.0	69.4	62.8	54.4	43.2	33.1													
STA AV	39	22	39	22	52	30	62	42	70	50	78	56	81	61	79	59	70	51	62	40	50	32	41	25	

NOTES: Temperature data obtained at the R-3 rain gage location. STA AV based on 5 yr (1965-69) record period.

1970 DAILY AIR TEMPERATURE (degrees F)																									
BLACKSBURG, VIRGINIA CRAR 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	34	11	52	31	47	32	46	42	72	58	79	62	90	73	88	68	80	63	73	88	58	54	62	47	
2	41	28	55	40	60	40	58	35	74	51	79	64	89	68	86	67	82	62	76	55	62	50	66	47	
3	34	23	45	8	59	40	58	34	57	46	79	61	90	66	87	63	82	67	76	53	50	60	60	44	
4	33	19	29	3	48	38	62	37	60	46	78	60	87	64	82	63	81	64	63	88	40	35	61	38	
5	42	24	41	27	54	37	51	31	73	45	79	55	75	57	77	60	78	65	72	80	51	39	55	28	
6	32	29	46	30	51	30	54	36	58	42	75	54	78	55	77	65	80	62	78	45	62	40	42	22	
7	29	7	48	29	56	29	50	38	70	37	76	49	79	55	78	63	82	61	74	50	64	47	32	20	
8	11	2	47	37	59	39	69	32	78	49	83	53	83	62	78	65	82	61	70	56	65	41	52	22	
9	10	0	38	34	65	36	70	52	80	55	83	55	77	63	66	58	82	65	71	60	60	44	55	30	
10	25	6	34	29	67	31	63	35	77	57	88	55	80	60	61	58	81	65	73	62	54	60	64	46	
11	38	14	38	29	61	41	66	39	75	59	83	56	80	59	75	58	85	65	73	62	58	52	55	40	
12	36	24	38	27	49	35	70	48	77	57	87	57	88	62	78	58	80	60	75	58	56	52	43	36	
13	35	21	40	29	38	30	56	44	81	58	85	62	83	62	79	62	84	68	77	56	55	45	45	35	
14	43	23	34	24	35	25	58	42	81	57	69	59	87	68	83	60	85	61	77	59	52	44	45	32	
15	40	28	49	25	33	22	60	44	72	60	68	60	89	66	85	63	86	61	71	53	52	34	46	34	
16	50	23	42	32	37	20	70	41	67	57	82	61	83	62	86	64	87	60	54	37	41	30	38	34	
17	40	34	42	31	46	24	64	49	60	45	85	65	88	62	75	60	85	62	58	32	49	26	43	36	
18	42	31	62	32	58	35	78	52	68	43	86	68	87	61	85	65	84	64	66	37	46	33	57	32	
19	33	25	51	27	56	41	57	47	80	45	82	64	84	64	85	65	78	63	68	48	60	40	55	44	
20	29	11	34	23	51	38	69	46	81	54	76	61	86	64	84	63	73	60	58	48	58	45	53	38	
21	21	15	3	42	18	46	39	71	52	83	59	81	62	70	59	84	65	86	64	58	53	54	35	40	40
22	26	6	54	30	40	35	70	50	84	59	81	59	85	78	65	66	89	64	68	51	60	38	58	40	
23	30	16	49	38	49	37	78	58	88	56	78	58	77	62	74	63	89	65	69	46	52	15	62	52	
24	36	21	55	28	45	32	74	53	85	59	83	61	86	67	78	58	85	65	68	45	25	13	53	28	
25	52	29	47	14	62	34	70	48	80	62	84	64	83	67	75	55	87	62	67	54	34	14	40	26	
26	52	39	50	9	58	36	54	52	76	55	80	63	85	66	79	58	85	63	64	48	59	27	26	16	
27	52	32	54	28	52	32	78	53	78	53	71	54	83	69	82	59	67	48	53	48	62	34	35	24	
28	58	36	57	32	62	36	70	57	74	50	73	51	87	67	78	68	64	47	59	50	58	22	11	42	22
29	58	39			51	32	81	59	66	56	79	52	91	88	84	59	82	43	51	46	59	49	33	22	
30	39	27	41	33	74	61	64	52	85	58	88	66	85	65	63	74	44	56	50	66	52	40	20	20	
31	44	28			57	33			73	59			88	66	80	70			57	54			31	25	
AV.	37	22	45	26	51	34	65	46	74	53	80	59	83	63	80	62	80	60	66	49	54	39	48	33	
REAR	29	3	35		42	5	55	2	64		69	2	73	1	71	3	70	3	57	9	46		40	8	
STA AV	39	22	40	23	52	31	63	43	71	51	78	57	81	61	79	60	72	53	63	42	51	33	42	26	

NOTES: Temperature data obtained at the R-3 rain gage location. STA AV based on 6 yr (1965-70) record period.

1971 DAILY AIR TEMPERATURE (degrees F)																								
BLACKSBURG, VIRGINIA CRAR 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	35	26	14	0	62	40	64	39	64	36	79	52	82	65	82	65	78	60	66	62	72	62	38	22
2	45	25	21	2	45	35	58	33	53	41	75	60	80	64	78	65	72	61	68	63	76	63	34	18
3	44	27	26	16	35	16	56	28	41	33	83	56	76	59	83	63	70	61	80	62	63	38	23	20
4	58	37	26	18	24	14	66	35	57	34	83	58	77	55	84	65	80	60	79	61	48	33	42	21
5	58	30	48	24	48	17	62	42	68	40	87	62	80	53	66	61	82	63	75	62	51	26	36	29
6	36	26	46	28	57	28	46	30	63	52	88	60	84	64	71	60	86	62	70	53	59	36	49	32
7	31	23	36	30	42	20	41	29	62	51	87	61	83	63	82	62	83	64	59	42	52	22	66	48
8	30	23	31	15	28	18	58	36	69	51	80	60	86	61	81	57	86	57	62	35	41	17	53	45
9	47	24	18	6	40	18	71	34	66	46	78	58	89	63	88	60	84	57	57	48	41	25	58	44
10	53	28	23	1	41	29	58	36	71	44	75	57	88	63	84	66	80	60	57	43	48	31	62	42
11	56	37	46	12	49	31	70	33	67	49	81	56	86	64	84	65	75	64	65	44	56	33	60	47
12	48	40	49	30	58	31	75	40	68	55	77	58	74	58	78	60	66	55	72	44	62	37	62	42
13	41	34	41	15	65	40	79	50	66	43	77	62	82	61	80	54	66	56	70	46	67	46	68	45
14	60	24	31	24	9	67	40	70	56	23	82	61	80	66	72	52	73	56	73	50	51	30	51	36
15	51	25	39	18	59	46	60	33	58	48	70	60	82	62	84	52	86	53	74	44	70	42	62	54
16	31	23	45	24	59	33	66	35	66	49	62	56	82	58	80	56	80	60	62	56	70	47	68	52
17	35	27	54	28	33	24	73	38	78	52	65	56	84	59	70	64	76	57	64	54	66	38	51	17
18	32	18	60	34	52	20	72	54	81	51	67	60	83	62	68	62	64	62	63	46	68	39	27	12
19	24	14	62	37	48	30	74	47	82	54	79	60	76	64	81	62	74	62	69	42	60	41	45	19
20	30	15	63	45	42	24	77	45	79	56	81	61	79	59	84	60	79	68	58	53	47	30	54	38
21	43	20	57	36	68	28	69	46	68	52	79	61	73	58	88	65	65	67	56	52	45	27	60	36
22	45	38	49	41	57	36	52	38	66	48	76	59	80	56	78	63	57	54	54	29	17	42	22	1
23	46	33	42	29	36	21	42	36	70	41	75	62	79	57	82	63	75	54	59	56	30	16	34	18
24	35	30	38	28	32	16	59	35	70	56	83	62	79	60	79	55	71	54	68	56	30	23	55	30
25	56	36	54	29	41	17	65	40	74	56	86	61	78	62	82	54	60	52	66	55	30	21	58	36
26	47	20	52	42	27	22	66	48	74	50	83	64	80	66	81	58	74	53	65	49	40	19	60	43
27	19	12	60	42	46	23	62	38	68	51	87	63	78	59	82	62	81	58	64	49	49	31	62	47
28	27	16	56	42	44	37	70	48	52	48	89	64	82	60	80	62	80	62	73	49	44	33	60	39
29	42	18			53	45	61	39	47	43	84	62	80	67	79	52	76	58	72	50	42	35	58	30
30	50	25			44	28	60	34	56	46	83	62	76	62	83	51	74	59	71	53	41	29	62	

1971		DAILY PRECIPITATION (inches)				BLACKSBURG, VIRGINIA CHAR CREEK WATERSHED (13007)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.055	0.0	0.01	0.0	0.0	0.0	0.40	0.12	0.0	0.39	0.01	0.0	
2	0.0	0.0	0.35	0.07	0.09	0.0	0.0	0.03	0.0	0.02	0.02	0.0	
3	0.0	0.29H	0.81S	0.0	0.06H	0.0	0.0	0.02	0.0	0.0	0.55	0.06S	
4	0.15	0.52H	0.01S	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	
5	0.17	0.66E	0.0	0.0	0.10	0.0	0.0	0.00	0.0	0.19	0.0	0.01	
6	0.0	0.0	0.0	1.21E	0.95	0.07	0.20	0.02	0.0	0.02	0.0	0.09	
7	0.0	0.63S	0.05S	0.39E	0.78	0.50	0.0	0.0	0.0	0.0	0.0	0.29	
8	0.0	0.47H	0.0	0.0	0.12	0.12	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	0.77	0.0	0.0	
10	0.0	0.0	0.09S	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
11	0.0	0.0	0.01S	0.0	0.0	0.08	0.60	0.50	0.27	0.0	0.0	0.0	
12	0.0	0.10E	0.0	0.0	1.27	0.42	0.12	0.0	1.06	0.0	0.0	0.25	
13	0.22	1.16S	0.0	0.0	0.27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.11	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.08	0.0	0.22	0.0	0.54	0.57	0.0	0.0	0.0	0.17	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.12	0.35	0.94	0.0	0.25E	0.47	0.0	0.0	
17	0.025	0.0	0.0	0.0	0.0	0.0	0.11	0.22	0.0	0.01	0.0	0.025	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.03	0.19	0.01	0.0	0.015	
19	0.0	0.0	0.08	0.0	0.0	0.03	0.24	0.0	3.22	0.01	0.10	0.02	
20	0.0	0.04	0.03S	0.0	0.53	0.0	0.0	0.0	0.64	0.15	0.0	0.04	
21	0.0	0.02	0.0	0.22	0.0	0.0	0.0	0.0	0.05E	0.06	0.13	0.0	
22	0.27	0.53	0.01	0.01	0.0	0.20	0.0	0.53	0.0	0.20	0.025	0.0	
23	0.42	0.0	0.0	0.20	0.0	0.21	0.0	0.0	0.83E	0.94	0.035	0.0	
24	0.135	0.0	0.0	0.01	0.0	0.0	0.16	0.0	0.0	0.18	0.445	0.0	
25	0.05	0.0	0.11S	0.0	0.0	0.0	0.04	0.0	0.0	1.85	0.0	0.0	
26	0.0	0.04	0.39S	0.0	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.0	
27	0.0	0.01	0.0	0.46	0.03	0.0	0.0	0.01	0.0	0.0	0.25	0.0	
28	0.015	0.0	0.0	0.43	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	1.21	0.39	0.57	0.0	0.0	0.0	0.32	0.0	
30	0.04	0.0	0.0	0.0	0.56	0.0	0.76	0.0	0.0	0.0	0.0	0.01	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.10E	0.0	0.0	
TOTAL	1.72	4.46	2.20	3.00	7.43	3.10	4.47	2.86	3.62	5.58	2.14	0.79	
STA AV	0.12	2.65	2.20	2.68	3.16	2.58	3.78	3.52	3.00	2.87	2.21	2.70	

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 1971.

1971		MEAN DAILY DISCHARGE (cfs)				BLACKSBURG, VIRGINIA CHAR CREEK WATERSHED (13007)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.148	0.269E	0.301	0.159	0.190	0.887	0.575	0.284	0.174	0.216	0.646	0.578	
2	0.119	0.301E	0.373	0.159	0.190	0.701	0.326	0.235	0.174	0.294	0.560	0.499	
3	0.087	0.301E	1.208	0.159	0.190	0.598	0.273	0.210	0.187	0.238	1.135	0.415	
4	0.183	0.301	1.079	0.159	0.162	0.532	0.241	4.319	0.179	0.213	0.609	0.405	
5	0.364	3.461	0.801	0.159	0.163	0.470	0.236	0.980	0.174	0.210	0.521	0.407	
6	0.203	0.865	0.859	0.201E	0.417	0.250	0.473	0.167	0.245	0.499	0.395	0.307	
7	0.143	3.328	0.566	0.633	0.555E	0.441	0.245	0.368	0.159	0.222	0.499	0.620	
8	0.117	4.878	0.448	0.815	0.487E	0.547	0.222	0.290	0.159	0.222	0.459	0.525	
9	0.111	0.877	0.388	0.693	0.388E	0.411	0.212	0.254	0.159	0.258	0.436	0.468	
10	0.111	0.596	0.384	0.426	0.291	0.368	0.212	0.254	0.159	0.484	0.416	0.436	
11	0.111	0.536	0.403	0.366	0.239	0.341	0.462	0.399	0.186	0.276	0.388	0.413	
12	0.111	0.439	0.349	0.321	0.655	0.387	0.263	0.400	0.000	0.222	0.388	0.471	
13	0.114	10.240	0.324	0.277	2.058	0.395	0.235	0.239	0.282	0.222	0.388	0.493	
14	0.136	1.114	0.301	0.238	0.898	0.370	0.212	0.212	0.199	0.210	0.341	0.388	
15	0.116	0.819	0.350	0.222	0.806	0.387	0.210	0.190	0.177	0.206	0.341	0.388	
16	0.111	0.631	0.315	0.222	1.153	1.222	1.482	0.190	0.188	0.336	0.341	0.388	
17	0.107	0.511	0.301	0.222	0.768	0.513	0.262	0.214	0.196	0.401	0.341	0.388	
18	0.105	0.430	0.277	0.222	0.572	0.400	0.235	0.222	0.205	0.274	0.341	0.388	
19	0.160	0.420	0.254	0.222	0.499	0.362	0.256	0.222	0.222	0.243	0.348	0.388	
20	0.184	0.473	0.238	0.195	0.558	0.334	0.237	0.207	0.320	0.262	0.341	0.410	
21	0.154	0.406	0.222	0.212	0.625	0.324	0.213	0.190	0.287	0.323	0.373	0.359	
22	0.130	0.847	0.222	0.207	0.411	0.268	0.214	0.301	0.226	0.343	0.341	0.312	
23	0.242	0.913	0.222	0.216	0.366	0.391	0.208	0.215	0.475	0.579	0.345	0.301	
24	0.175E	0.584	0.222	0.207	0.341	0.322	0.195	0.208	0.477	1.103	0.355	0.301	
25	0.190E	0.479	0.222	0.190	0.326	0.281	0.214	0.182	0.250	20.945	0.323	0.301	
26	0.190E	0.417	0.222	0.190	0.301	0.280	0.213	0.182	0.222	1.681	0.301	0.301	
27	0.190E	0.400	0.278	0.191	0.288	0.269	0.208	0.182	0.208	1.129	0.380	0.301	
28	0.190E	0.323	0.282	0.353	0.477	0.244	0.190	0.179	0.190	0.915	0.550	0.301	
29	0.190E	0.283	0.205	0.197	1.027	0.318	0.250	0.178	0.190	0.807	1.136	0.255	
30	0.174E	0.178	0.190	2.175	0.278	0.434	0.173	0.190	0.725	0.819	0.254	0.254	
31	0.135E	0.159	0.159	1.377	0.377	0.572	0.174	0.174	0.682	0.682	0.254	0.254	
MEAN	0.1549	1.2557	0.3799	0.2761	0.6069	0.4352	0.3084	0.3988	0.2627	1.1254	0.4746	0.3926	
INCRS	0.145	1.065	0.357	0.251	0.570	0.395	0.289	0.374	0.239	1.056	0.431	0.369	
STA AV	0.612	0.713	0.973	0.722	0.511	0.277	0.246	0.288	0.208	0.276	0.240	0.404	

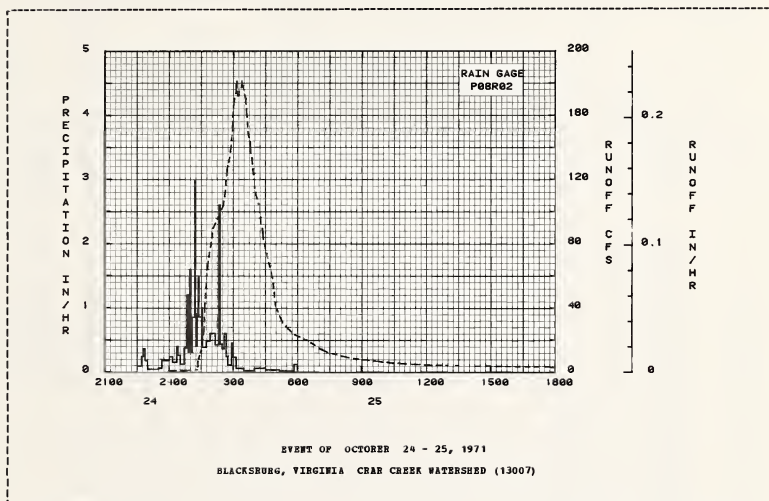
NOTES: To convert CFS to IWDAT, multiply by 0.030281. STA AV based on record period August 1957 through 1971.

1971 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CHAB CREEK WATERSHED (13007)							
PRECEDENT 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 24 - 25, 1971										
10-24	RG P08R02 0.01	0.033	10-24	RG P08R02 2230	0.0	0.0	10-24	2000	0.888	0.0
				2243	0.0923	0.02	10-25	20	0.888	0.0004
				2248	0.2399	0.04		100	0.935	0.0012
				2253	0.3599	0.07		114	1.030	0.0015
				2300	0.1715	0.09		119	1.308	0.0016
WATERSHED CONDITIONS:										
	Permanent pasture, blue grass	2330		0.0400	0.11		120	3.043	0.0016	
	coinked with other native	2340		0.0600	0.12		121	6.605	0.0017	
	grasses and clover, good	2350		0.1800	0.15		122	7.997	0.0018	
	cover, 43%; row crop, 10%;	2400		0.1800	0.18		126	10.121	0.0021	
	alfalfa and other hay, good	10-25	10	0.2401	0.22		128	11.857	0.0023	
	cover, 28%; idle with weeds,									
	grasses, and vices, good		22	0.1500	0.25		130	13.362	0.0037	
	cover, 5%; farm woods		25	0.4001	0.27		135	20.258	0.0054	
	predominately hard wood, 13%;		32	0.2571	0.30		138	25.576	0.0069	
	paved roads, 1%.		42	0.1199	0.32		139	28.167	0.0074	
			50	0.3750	0.37		140	40.063	0.0081	
			54	1.2000	0.45		148	65.885	0.0170	
			58	0.3001	0.47		204	90.034	0.0435	
			101	1.6000	0.55		211	103.308	0.0983	
			105	0.2998	0.57		238	113.311	0.1143	
			112	0.8572	0.67		241	122.821	0.1213	
			114	3.0002	0.77		244	128.536	0.1294	
			116	0.9000	0.80		248	130.905	0.1403	
			119	0.3998	0.82		254	141.383	0.1577	
			122	1.0001	0.87		258	156.069	0.1702	
			124	1.5001	0.92		301	168.599	0.1806	
			131	0.8572	1.02		302	168.282	0.1839	
			134	0.9998	1.07		303	170.676	0.1872	
			145	0.3819	1.14		307	174.440	0.2017	
			155	0.4800	1.22		308	175.394	0.2061	
			210	0.6000	1.37		309	181.343	0.2097	
			220	0.4200	1.44		310	176.969	0.2132	
			223	2.5998	1.57		311	174.741	0.2167	
			230	0.4286	1.62		312	171.793	0.2210	
			235	0.3600	1.65		315	172.776	0.2308	
			240	0.6000	1.70		316	175.082	0.2354	
			245	0.2400	1.72		322	177.325	0.2571	
			256	0.1090	1.74		324	181.565	0.2651	
			300	0.4502	1.77		334	170.501	0.3024	
			308	0.2250	1.80		335	166.753	0.3057	
			330	0.0545	1.82		336	163.448	0.3090	
			400	0.0200	1.83		338	158.843	0.3161	
			430	0.0600	1.86		341	145.007	0.3252	
			450	0.0300	1.87		347	141.423	0.3438	
			510	0.0300	1.88		349	136.390	0.3500	
			550	0.0150	1.89		352	132.530	0.3580	
			600	0.1200	1.91		354	126.317	0.3637	
							356	122.821	0.3686	
							400	114.627	0.3791	
							406	107.929	0.3928	
							412	102.984	0.4063	
							414	99.116	0.4103	
							416	95.368	0.4146	
							422	87.775	0.4258	
							424	82.655	0.4297	
							450	58.324	0.4683	
							458	41.633	0.4767	
							505	37.519	0.4826	
							518	30.608	0.4918	
							546	24.165	0.5080	
							552	22.889	0.5109	
							606	21.716	0.5175	
							620	19.758	0.5236	
							626	19.766	0.5260	
							706	13.941	0.5802	
							724	12.166	0.5452	
							824	8.718	0.5588	
							908	7.284	0.5658	
							920	7.284	0.5676	
							944	6.467	0.5711	
							1028	5.404	0.5766	

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

1971 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CRAR CREEK WATERSHED (13007)							
PRECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 24 - 25, 1971 (CONTINUED)										
							10-25	1104	4.930	0.5806
								1128	4.692	0.5830
								1216	4.224	0.5875
								1340	3.796	0.5946
								1740	3.202	0.6123
								2240	2.512	0.6303
								2400	2.512	0.6345

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



BLACKSBURG, VIRGINIA RHOSH CREEK WATERSHED (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 RHOSH CREEK WATERSHED (13008)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P	1.02	3.67	1.29	3.04	7.71	3.57	3.58	1.57	4.20	6.67	2.04	0.68	39.04	
Q	0.944	5.272	1.111	1.238	2.326	1.550	1.008	0.737	0.862	2.086	1.998	1.323	20.476	
STA AV P	2.13	2.84	2.97	2.90	3.48	2.51	3.78	3.58	3.41	3.21	2.42	2.73	35.96	
Q	1.687	2.062	2.152	1.742	1.522	0.980	0.880	0.845	1.009	1.186	1.219	1.461	16.745	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS		BLACKSBURG, VIRGINIA RHOSH CREEK WATERSHED (13008)																					
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.	Date	Vol.	Date	Vol.	Date	Vol.		
1971	5-20	0.122	5-20	0.099	5-20	0.154	5-20	0.248	5-20	0.310	2-4	0.464	2-4	0.844	2-4	0.844	2-4	0.844	2-4	0.844	2-4	3.199	

MAXIMUMS FOR PERIOD OF RECORD		BLACKSBURG, VIRGINIA RHOSH CREEK WATERSHED (13008)														
Discharge Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days								
1971	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%; row crops, 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, OSO-Risc. Pub. 1199, p. 13.8-5. Precipitation: Thiessen weighted from H-1 and H-2. Station averages determined from continuous records from August 1957 through 1971. For long-time precipitation records, see National Weather Service records at Blacksburg, Virginia.

1971 DAILY PRECIPITATION (inches)		BLACKSBURG, VIRGINIA RHOSH CREEK WATERSHED (13008)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.035	0.0	0.0	0.0	0.0	0.0	0.05	0.01	0.0	1.08	0.14	0.0	
2	0.0	0.0	0.12	0.03	0.01	0.0	0.0	0.11	0.0	0.09	0.05	0.0	
3	0.0	0.228	0.605	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.37	0.135	
4	0.06	0.448	0.015	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	
5	0.16	0.60	0.0	0.0	0.08	0.0	0.0	0.01	0.0	0.08	0.0	0.012	
6	0.0	0.0	0.0	1.482	0.92	0.0	0.11	0.0	0.03	0.07	0.0	0.082	
7	0.0	0.395	0.035	0.352	0.46	0.09	0.0	0.0	0.0	0.0	0.01	0.35	
8	0.0	0.258	0.0	0.0	0.022	0.32	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	0.01	0.0	0.0	1.03	0.0	0.0	
10	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	
11	0.0	0.0	0.035	0.0	0.0	0.01	0.10	0.37	1.10	0.0	0.0	0.0	
12	0.0	0.09	0.0	0.0	0.91	0.35	0.12	0.0	0.71	0.0	0.0	0.05	
13	0.20	0.905	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.03	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.06	0.0	0.07	0.0	0.52	0.42	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.14	0.91	0.27	0.0	0.07	0.41	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.07	0.0	0.02	0.0	0.01	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.06	0.23	0.03	0.0	0.0	
19	0.0	0.0	0.02	0.0	0.0	0.0	0.09	0.0	0.47	0.02	0.08	0.02	
20	0.0	0.04	0.0	0.0	1.73H	0.0	0.0	0.0	1.35	0.28	0.0	0.02	
21	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.12	0.12	0.05	0.0	
22	0.14	0.63	0.01	0.01	0.0	0.30	0.0	0.52	0.02	0.26	0.0	0.0	
23	0.18	0.0	0.04	0.24	0.0	1.03H	0.0	0.0	0.10	1.65	0.0	0.0	
24	0.13H	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.05	0.905	0.0	
25	0.0	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	1.11	0.0	0.0	
26	0.0	0.02	0.275	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.10	0.0	0.10	0.022	0.0	0.0	0.0	0.0	0.0	0.205	0.0	
28	0.0	0.0	0.0	0.70	0.762	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	1.262	0.05	1.74	0.0	0.0	0.0	0.24	0.0	
30	0.02	0.0	0.0	0.0	0.472	0.0	0.43	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.012	0.012	0.28	0.0	0.0	0.0	0.25	0.0	0.0	
TOTAL	1.02	3.67	1.29	3.04	7.71	3.57	3.58	1.57	4.20	6.67	2.04	0.68	
STA AV	2.13	2.84	2.97	2.90	3.48	2.51	3.78	3.58	3.41	3.21	2.42	2.73	

NOTES: Precipitation amounts are Thiessen weighted values from rain gages H-1 and H-2. STA AV based on record period August 1957 through 1971.

1971												
BEAN DAILY DISCHARGE (cfs)					BLACKSBURG, VIRGINIA				ROOSE CREEK WATERSEED (13008)			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.900	0.776E	1.309E	0.987	1.052	2.478	1.167	1.236	0.575	2.379	2.287	1.868
2	0.909	0.846E	1.683E	1.113	1.081	2.013	1.164	1.176	0.585	2.731	1.980	1.587
3	0.895	0.846E	3.279E	1.012	1.177	1.808	1.100	1.004	0.619	1.318	2.998	1.647
4	2.324	3.220E	2.143E	0.940	1.039	1.616	1.004	1.658	0.620	1.055	1.637	1.637
5	3.627	17.401E	1.819E	0.963	1.040	1.458	0.961	1.359	0.629	1.060	1.792	1.534
6	1.539	18.309E	1.695E	2.461	3.194	1.304	1.040	1.179	0.606	1.184	1.738	1.985
7	1.171	13.828E	1.509E	3.017	3.104	1.379	1.001	1.018	0.584	0.938	1.628	3.579
8	0.997	14.350E	1.374E	4.938	2.286	1.795	0.925	0.912	0.569	0.897	1.580	2.363
9	1.005	18.533E	1.339E	3.105	1.606	1.431	0.889	0.823	0.551	3.033	1.601	2.004
10	0.985	15.195E	1.304E	2.082	1.337	1.315	0.876	0.805	0.537	2.639	1.543	1.847
11	0.935	15.015E	1.227	1.694	1.251	1.226	0.939	1.127	0.907	1.453	1.891	1.646
12	1.003	18.978E	1.258	1.450	1.798	1.547	1.115	1.026	2.625	1.194	1.423	1.620
13	1.061	14.788E	1.207	1.327	5.565	1.500	0.946	0.841	1.130	1.079	1.423	1.592
14	1.528	13.191E	1.165	1.242	2.388	1.414	0.882	0.793	0.793	1.031	1.423	1.531
15	1.254	13.280E	1.280	1.192	2.289	1.572	0.830	0.689	0.691	1.000	1.423	1.531
16	1.087	8.384E	1.134	1.157	3.759	4.856	1.108	0.669	0.677	1.566	1.393	1.472
17	0.979	14.208	1.063	1.127	2.165	1.984	0.822	0.786	0.704	1.420	1.351	1.423
18	0.909	1.348E	1.052	1.056	1.678	1.462	1.155	0.934	0.899	1.239	1.351	1.295
19	0.832	1.461E	1.127	1.063	1.431	1.432	1.265	0.828	1.429	1.140	1.435	1.418
20	1.116	1.828E	1.094	1.063	10.901	1.328	0.947	0.728	4.402	1.434	1.399	1.534
21	0.722	1.577E	0.996	1.175	5.186	1.266	0.851	0.687	2.148	1.795	1.351	1.394
22	0.946	3.595E	1.050	1.209	2.448	1.710	0.811	1.321	1.446	1.934	1.258E	1.372
23	1.552	2.768E	1.066	1.463	1.890	8.757	0.741	0.926	1.200	10.293	1.279E	1.351
24	1.078	1.800E	0.971	1.249	1.721	2.840	0.779	0.716	1.110	6.576	11.563E	1.351
25	1.425	1.643E	1.009	1.018	1.568	1.848	0.866	0.675	0.935	13.978	6.817E	1.328
26	1.215	1.596E	1.120	1.000	1.353	1.516	0.864	0.677	0.899	3.434	4.736E	1.305
27	0.860E	1.581E	1.609	1.006	1.340	1.358	0.766	0.649	0.891	2.532	5.578E	1.279
28	0.846E	1.339E	1.523	2.883	2.999	1.232	0.712	0.629	0.868	2.106	3.424	1.279
29	0.846E	1.226	1.264	6.735	1.228	6.590	0.592	0.825	1.859	3.244	1.279	
30	0.846E	1.047	1.140	7.923	1.173	1.953	0.581	0.823	1.806	2.379	1.279	
31	0.792E	1.017	3.962			2.741	0.583		2.112		1.279	
BEAN	1.1686	7.0642	1.3449	1.5478	2.8149	1.9387	1.2197	0.8922	1.0786	2.5247	2.4983	1.6008
ROOSE	0.966	5.272	1.111	1.238	2.326	1.550	1.008	0.737	0.862	2.086	1.998	1.323
STA AV	1.687	2.062	2.152	1.742	1.522	0.980	0.880	0.845	1.009	1.186	1.219	1.461

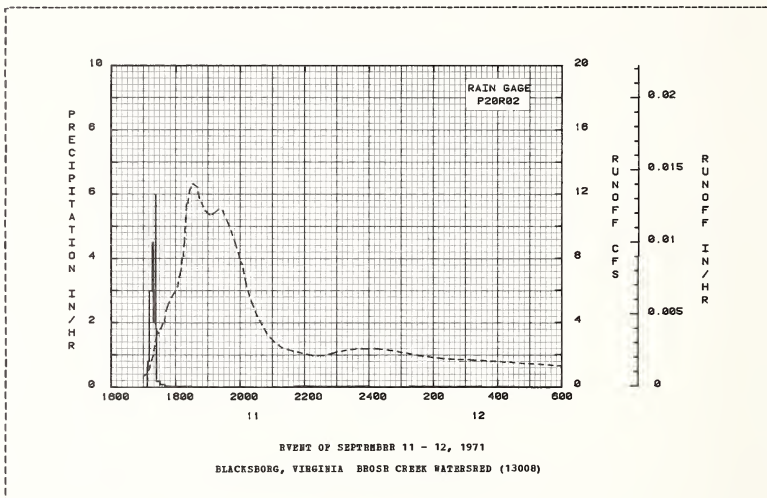
NOTES: To convert CFS to IN/DAY, multiply by 0.026652. STA AV based on record period August 1957 through 1971.

1971											
ANTECEDENT CONDITIONS				RAINFALL				ROUOFF			
Date	Rainfall	Rouoff	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 - 12, 1971											
9-11	EG P20802 0.20	0.014	9-11	EG P20802 1707	0.0	0.0	9-11	1700	0.693	0.0	
				1708	0.6002	0.01		1704	0.752	0.0001	
				1711	0.8001	0.05		1710	1.063	0.0002	
				1713	2.9995	0.15		1718	1.963	0.0004	
				1716	2.9997	0.30		1725	3.368	0.0007	
WATERSEED CONDITIONS:											
	Permanent pasture of native grasses, good cover, 33%;			1718	4.5009	0.45		1726	3.467	0.0008	
	woods, mixture of pine and hardwood with considerable undergrowth, good cover,			1721	2.0000	0.55		1728	3.323	0.0009	
	38%; hay, 20%; row crop, 4%;			1722	3.0009	0.60		1735	3.885	0.0014	
	idle land, 7%; roads, 2%.			1723	5.9954	0.70		1736	3.962	0.0015	
				1724	1.8013	0.73		1739	4.106	0.0017	
				1731	0.1713	0.75		1743	4.880	0.0020	
				1740	0.0667	0.76		1748	5.313	0.0025	
				1830	0.0120	0.77		1752	5.610	0.0029	
				2142	0.0	0.77		1759	5.952	0.0037	
				2400	0.0304	0.84		1803	6.231	0.0041	
			9-12	115	0.0	0.84		1810	7.384	0.0050	
				330	0.0133	0.87		1812	8.032	0.0053	
								1814	8.140	0.0056	
								1816	9.013	0.0059	
								1817	9.662	0.0061	
								1819	10.697	0.0065	
								1820	11.382	0.0067	
								1822	11.463	0.0071	
								1826	12.273	0.0080	
								1828	12.453	0.0085	
								1832	12.642	0.0094	
								1840	12.453	0.0113	
								1844	11.769	0.0122	
								1855	10.940	0.0145	
								1904	10.697	0.0163	

NOTES: To convert CFS to IN/20, multiply by 0.0011105.

1971 SELECTED RUNOFF EVENT				BLACKSBURG, VIRGINIA BROSS CREEK WATERSHED (13008)							
ATRIBUTED 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 - 12, 1971 (CONTINUED)											
							9-11	1908	10.751	0.0171	
								1920	11.057	0.0195	
								1927	10.976	0.0209	
								1940	10.013	0.0234	
								1951	8.923	0.0253	
								2002	7.708	0.0270	
								2008	7.636	0.0273	
								2012	6.231	0.0283	
								2022	5.241	0.0293	
								2032	4.385	0.0302	
								2050	3.314	0.0315	
								2108	2.791	0.0323	
								2119	2.813	0.0330	
								2138	2.224	0.0338	
								2216	1.927	0.0353	
								2236	1.954	0.0360	
								2252	2.080	0.0366	
								2300	2.179	0.0369	
								2336	2.368	0.0384	
								2400	2.359	0.0395	
							9-12	16	2.350	0.0402	
								44	2.282	0.0414	
								132	1.927	0.0433	
								220	1.729	0.0448	
								320	1.630	0.0468	

NOTES: To convert CFS to IN/HR, multiply by 0.001105.



BLACKSBURG, 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 FLOOFF [inches]													BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1971	P	1.67	4.63	3.28	2.68	7.21	2.48	2.52	7.34	4.08	6.66	2.90	0.98	47.19												
	Q	0.624	1.470	1.028	0.811	1.340	0.476	0.308	0.951	0.841	1.580	0.801	0.698	10.928												
STA AV	P	2.91	3.36	3.35	2.82	3.78	3.05	3.08	4.37	2.08	3.21	2.54	3.03	39.16												
	Q	0.895	1.202	1.241	0.929	0.838	0.556	0.433	0.550	0.376	0.637	0.514	0.550	8.720												
ANNUAL MAXIMUM DISCHARGE (In/hr) AND MAXIMUM VOLUMES OF FLOOFF (inches) FOR SELECTED TIME INTERVALS																										
		Basins Discharge Date		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.										
1971		8-27	0.112	8-27	0.096	8-27	0.173	8-27	0.333	8-27	0.519	8-27	0.588	2-7	0.660	2-6	0.969									
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	1959	1959	1959	1959	1959	1959	1959	1959									

NOTES: Watershed conditions: Farm woods, mixture of hardwoods and conifers, with pine predominating, 58%; cultivated, 18%; pasture, native grass mixture, usually fair cover, 8%; idle, 16%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 13-10-5. 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 R-1, R-2, and R-3. Station averages determined from continuous records from Jan. 1958 through 1971. For long-time precipitation records, see National Weather Service records at Halifax (1 mile W), Virginia.

1971 DAILY PRECIPITATION (inches)													BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.115	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	1.33	0.0	0.0												
2	0.0	0.0	0.37	0.35	0.15	0.0	0.0	0.0	0.0	0.12	0.22	0.0												
3	0.0	0.085	1.30	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.28	0.105												
4	0.19	0.618	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0												
5	0.28	0.42	0.0	0.01	0.0	0.0	0.0	0.06	0.0	0.05	0.0	0.0												
6	0.0	0.06	0.0	1.31	0.04	0.0	0.25	0.0	0.24	0.10	0.0	0.0												
7	0.0	0.89	0.04	0.13	0.36	0.13	0.06	0.0	0.0	0.0	0.20	0.43												
8	0.0	0.83	0.0	0.0	0.19	0.34	0.0	0.0	0.0	0.0	0.0	0.0												
9	0.37E	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.55	0.03	0.0												
10	0.0	0.0	0.07	0.0	0.0	0.0	0.05	0.0	0.17	1.33	0.01	0.0												
11	0.0	0.0	0.04	0.0	0.0	0.0	0.20	0.41	1.21	0.0	0.0	0.0												
12	0.0	0.12	0.0	0.0	0.66	0.18	0.0	0.00	2.02	0.0	0.0	0.05												
13	0.0	0.61	0.0	0.0	1.36	0.0	0.0	0.0	0.01	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	0.02	0.0	1.07	0.05	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.49	0.42	0.02	0.0	0.0	0.17	0.0	0.20												
17	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.02												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.37	0.0	0.0	0.01												
19	0.0	0.0	0.33	0.0	0.0	0.0	0.06	0.0	0.0	0.03	0.0	0.0												
20	0.0	0.04	0.0	0.0	0.01	0.0	0.0	0.0	0.04	0.10	0.0	0.17												
21	0.0	0.0	0.0	0.06	0.09	0.0	0.0	0.0	0.0	0.02	0.0	0.0												
22	0.09	0.75	0.01	0.01	0.0	0.0	0.0	0.47	0.51	0.37	0.0	0.0												
23	0.16	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	1.65	0.0	0.0												
24	0.29	0.0	0.0	0.01	0.0	0.0	0.29	0.0	0.0	0.58	0.0	1.65E												
25	0.0	0.0	0.0	0.0	0.12	0.0	0.01	0.0	0.0	0.19	0.0	0.0												
26	0.03	0.19	0.775	0.0	0.0	0.0	0.03	0.0	0.0	0.05	0.0	0.0												
27	0.0	0.01	0.0	0.07	0.12	0.0	0.0	3.94	0.0	0.0	0.31E	0.0												
28	0.0	0.0	0.01	0.55	1.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.0	0.77	1.27	0.13	0.0	0.0	0.0	0.20	0.0												
30	0.13	0.0	0.0	0.0	0.20	0.20	0.13	0.0	0.28	0.0	0.0	0.0												
31	0.03	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0												
TOTAL	1.67	4.63	3.28	2.68	7.21	2.48	2.52	7.34	4.84	6.66	2.90	0.98												
STA AV	2.91	3.36	3.35	2.82	3.78	3.05	3.88	4.37	2.84	3.21	2.54	3.03												

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 1971.

1971 NEAR DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.9198	0.660	1.172	1.215	0.890	1.871	0.806	0.979	0.758	3.503	1.329	1.645
2	0.6842	0.671	1.593	1.331	0.924	1.383	0.714	0.679	0.718	2.956	1.319	1.497
3	0.6852	0.682	17.728	1.333	0.929	1.278	0.640	0.568	0.690	1.644	1.838	1.434
4	1.002	0.910	7.142	1.214	0.866	1.153	0.593	0.547	0.671	1.285	1.386	1.418
5	9.187	1.980	2.770	1.172	0.816	1.052	0.578	0.568	0.661	1.122	1.291	1.335
6	2.775	3.160	2.072	10.041	0.816	0.975	0.694	0.543	0.738	1.054	1.246	1.335
7	1.705	13.682	1.835	5.313	0.897	0.929	0.623E	0.512	0.643	0.909	1.362	2.340
8	1.218	24.195	1.532	2.886	1.145	1.075	0.594E	0.478E	0.608	0.860	1.198	1.961
9	1.287	6.167	1.368	2.043	0.888	0.915	0.487	0.449E	0.590	0.457	1.173	1.491
10	1.153	2.623	1.362	1.718	0.801	0.839	0.929	0.447E	0.638	17.210	1.187	1.588
11	1.172	1.965	1.297	1.498	0.788	0.831	0.609	0.565E	1.603	3.356	1.155	1.526
12	1.078	1.727	1.198	1.372	0.968	0.908	0.644	0.537E	22.896	1.916	1.122	1.463
13	0.992	6.276	1.151	1.290	0.784	0.884	0.600	0.476E	4.324	1.481	1.116	1.396
14	0.949	3.040	1.103	1.209	2.554	0.840	0.582	0.449E	1.755	1.276	1.033	1.335
15	0.893	2.010	1.099	1.172	3.921	0.865	0.554	0.424	1.213	1.137	1.023	1.304
16	0.816	1.682	1.083	1.127	19.204	1.195	0.539	0.404	1.021	1.183	1.023	1.511
17	0.816	1.424	1.051	1.083	3.176	0.929	0.527	0.452	0.972	1.058	1.023	1.463
18	0.787	1.282	0.988	1.053	1.961	0.820	0.509	0.632	1.153	1.023	1.023	1.333
19	0.781	1.215	1.232	1.023	1.533	0.788	0.548	0.630	0.956	1.023	1.023	1.265
20	0.727	1.191	1.013	1.023	1.276	0.816	0.521	0.546	0.841	1.023	1.023	1.393
21	0.727	1.097	0.949	1.023	1.190	0.798	0.494	0.504	0.828	1.023	0.992	1.297
22	0.739	3.257	0.949	0.986	1.091	0.767	0.483	0.726	1.249	1.064	0.979	1.193
23	0.838	2.667	0.920	1.048	0.975	0.758	0.478	0.574	0.945	18.499	0.949	1.172
24	0.911	1.757	0.890	0.969	0.969	0.750	0.541	0.494	0.842	6.735	6.382	1.172
25	1.013	1.459	0.890	0.931	0.991	0.707	0.556	0.482	0.797	11.649	4.285	1.172
26	0.855E	1.383	1.113	0.890	0.878	0.688	0.541	0.511	0.771	3.532	2.396	1.172
27	0.756E	1.466	1.111	0.899	0.844	0.581	0.507	0.469	0.767	2.002	2.682	1.172
28	0.756E	1.237	1.602	1.369	2.477	0.565	0.485	0.596	0.767	2.002	2.369	1.172
29	0.756	1.221	0.972	0.927	6.927	2.563	1.142	1.314	0.741	1.708	2.185	1.172
30	0.817	1.650	1.250	0.890	11.286	0.876	0.645	0.946	0.812	1.560	1.979	1.172
31	0.746	1.321	1.321	2.922	2.922	0.686	0.424	0.424	1.451	1.023	1.110	
MEAN	1.2445	3.2450	2.0500	1.6697	2.6708	0.9802	0.6131	1.8960	1.7325	3.1504	1.6505	1.3918
INCHES	0.524	1.470	1.028	0.811	1.340	0.476	0.308	0.951	0.841	1.500	0.801	0.698
STA AV	0.895	1.202	1.241	0.929	0.838	0.556	0.433	0.550	0.376	0.637	0.514	0.550

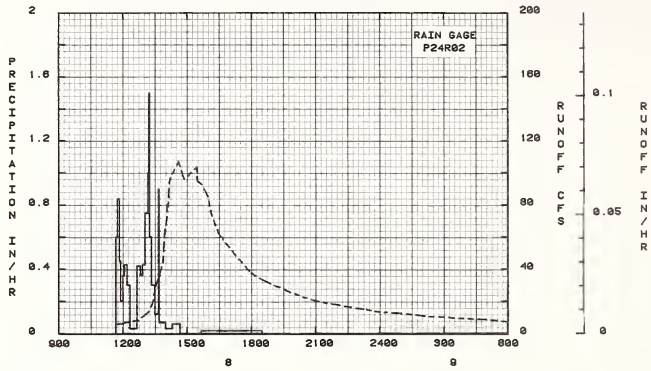
NOTES: To convert CFS to IN/DAY, multiply by 0.016178. STA AV based on record period January 1958 through 1971.

1971 SELECTED BUOFF EVENT BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)											
ANTECEDENT CONDITIONS			RAINFALL						BUOFF		
Date	Rainfall (inches)	Runoff (inches)	Date	Time	Intensity (in/hr)	Acc. (inches)	Date	Time	Date	Acc. (inches)	
Mo-Day			Mo-Day				Mo-Day		Time		
EVENT OF FEBRUARY 8 - 9, 1971											
RG F24802			RG F24802								
2-8	0.0	0.073	2-8	1140	0.0	0.0	2-8	1146	5.918	0.0	
				1145	0.6000	0.05		1200	6.067	0.0009	
				1150	0.8400	0.12		1203	6.556	0.0011	
				1154	0.4500	0.15		1208	7.209	0.0015	
				1200	0.2000	0.17		1212	7.164	0.0018	
WATERSHED CONDITIONS:											
Fara woods, mixture of hardwoods and conifers											
with pine predominating, 58%; cultivated, 8%; pasture											
native grass mixture, usually fair cover, 8%; idle, 16%.											
				1205	0.3600	0.20		1218	7.134	0.0023	
				1212	0.4286	0.25		1230	7.668	0.0033	
				1220	0.3000	0.29		1242	8.099	0.0044	
				1240	0.0300	0.30		1301	11.480	0.0065	
				1250	0.4200	0.37		1313	13.765	0.0082	
				1255	0.3600	0.40		1321	17.858	0.0096	
				1302	0.4286	0.45		1326	21.003	0.0107	
				1310	0.7500	0.55		1328	24.711	0.0112	
				1313	1.0000	0.60		1330	26.669	0.0118	
				1315	1.5000	0.65		1335	31.356	0.0134	
				1320	0.6000	0.70		1339	33.789	0.0149	
				1330	0.3000	0.75		1349	31.190	0.0191	
				1340	1.2000	0.77		1353	44.987	0.0210	
				1342	0.9000	0.80		1356	56.957	0.0227	
				1400	0.0667	0.82		1357	61.689	0.0234	
				1420	0.0300	0.83		1359	65.011	0.0248	
				1430	0.0600	0.84		1401	67.236	0.0263	
				1440	0.0600	0.85		1404	72.783	0.0287	
				1540	0.0	0.85		1405	80.407	0.0296	
				1830	0.0176	0.90		1407	78.702	0.0314	
								1410	90.494	0.0343	
								1411	94.083	0.0353	
								1413	96.827	0.0375	
								1436	107.032	0.0638	
								1452	95.937	0.0820	

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

1971 SELECTED RUHOFF EVENT			BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)								
ANTECEDENT CONDITIONS			RAINFALL				RUHOFF				
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 8 - 9, 1971 (CONTINUED)											
							2- 8	1527	103.546	0.1212	
								1529	94.780	0.1234	
								1542	92.570	0.1371	
								1559	85.198	0.1541	
								1606	75.928	0.1604	
								1620	67.162	0.1717	
								1628	62.015	0.1775	
								1636	59.968	0.1830	
								1640	59.479	0.1857	
								1641	58.337	0.1864	
								1716	48.503	0.2074	
								1755	38.654	0.2265	
								1800	37.393	0.2286	
								1812	35.613	0.2335	
								1832	33.180	0.2412	
								1854	30.792	0.2491	
								1910	29.131	0.2545	
								1920	28.568	0.2577	
								1936	26.891	0.2627	
								1950	25.334	0.2668	
								2004	24.370	0.2707	
								2012	23.821	0.2729	
								2026	22.353	0.2765	
								2036	21.908	0.2790	
								2056	20.484	0.2838	
								2124	19.119	0.2900	
								2132	18.674	0.2917	
								2208	17.413	0.2990	
								2224	16.568	0.3021	
								2240	16.167	0.3050	
								2254	15.396	0.3075	
								2314	15.025	0.3109	
								2324	14.610	0.3126	
								2336	14.195	0.3145	
								2346	13.483	0.3161	
							2- 9	2400	13.186	0.3182	
								14	12.860	0.3202	
								20	12.860	0.3211	
								40	12.519	0.3240	
								102	12.192	0.3271	
								115	11.866	0.3289	
								128	11.555	0.3306	
								148	11.213	0.3332	
								206	10.590	0.3354	
								318	9.641	0.3436	
								328	9.359	0.3447	
								445	8.544	0.3524	
								516	8.010	0.3553	
								702	7.045	0.3643	
								708	7.045	0.3648	

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



EVENT OF FEBRUARY 8 - 9, 1971

BLACKSBURG, VIRGINIA LITTLE WINGS CREEK WATERSHED (13010)

BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)

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

AREA: 555.00 acres

MONTHLY PRECIPITATION AND RUNOFF (Inches)													BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
P	1.92	5.25	3.08	1.95	7.24	1.93	3.27	4.18	4.46	7.62	2.69	1.32	44.87												
1971	0.855	1.825	1.071	0.907	1.213	0.588	0.213	0.282	0.265	2.218	0.672	0.762	10.825												
STA AV P	2.76	3.56	3.26	2.38	3.67	4.04	4.49	4.09	2.84	3.04	2.51	2.94	39.58												
Q	0.867	1.205	1.305	0.909	0.846	0.607	0.537	0.389	0.271	0.476	0.484	0.729	8.623												
ANNUAL MAXIMUM DISCHARGE (In/Day) AND MAXIMUM VOLUME 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.				
1971	10-23	0.183	10-23	0.178	10-23	0.334	10-23	0.699	10-23	1.008	10-23	1.333	10-23	1.493	10-23	1.723									
MAXIMUMS FOR PERIOD OF RECORD																									
	7-23	0.661	7-23	0.491	7-23	0.877	7-23	1.405	7-23	1.521	7-23	1.595	5-5	2.090	4-30	2.860									
	1970		1970		1970		1970		1970		1970		1958		1958										

NOTES: Watershed conditions: Mixed cover, fair 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%; cultivated, 9%; roads, 1%; 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 1971. For long-time precipitation records, see National Weather Service records at Esporia (1 mile NW), Virginia.

1971 DAILY PRECIPITATION (Inches)													BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.085	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.89	0.0	0.0													
2	0.0	0.0	0.21	0.07	0.20	0.0	0.0	0.0	0.0	0.32	0.0	0.0													
3	0.0	0.27	1.21	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.55	0.025													
4	0.04	0.83E	0.02	0.0	0.0	0.0	0.0	1.28	0.03	0.0	0.0	0.0													
5	0.30	0.66E	0.0	0.07	0.0	0.0	0.0	0.22	0.37	0.79	0.0	0.0													
6	0.0	0.01E	0.0	1.21	0.0	0.0	0.12	0.21	0.47	0.15	0.0	0.0													
7	0.0	1.18	0.0	0.09	0.19	0.0	0.01	0.0	0.0	0.0	0.0	0.34													
8	0.05	0.47	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.04	0.0													
10	0.12	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.24	0.73	0.01	0.0													
11	0.0	0.02	0.03	0.0	0.0	0.0	0.13	0.09	0.12	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.09E	0.31	0.0	0.0	0.95E	0.0	0.0	0.17													
13	0.02	0.95E	0.0	0.0	0.88E	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
14	0.05	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.01	0.0	0.26	0.0	0.71	0.04	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.76	0.60	0.0	0.0	0.0	0.0	0.0	0.17													
17	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.02													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.04	0.0	0.0	0.0													
19	0.0	0.0	0.14	0.0	0.0	0.0	0.63	0.0	0.0	0.01	0.0	0.00													
20	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.05	0.0	0.56													
21	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0													
22	0.14	0.58	0.0	0.0	0.03	0.0	0.77	1.68E	0.37	0.0	0.0	0.52													
23	0.24	0.0	0.01	0.23	0.0	0.17E	0.0	0.0	0.0	3.85	0.0	0.0													
24	0.29	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	1.55W	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.16	0.0	0.0													
26	0.02	0.26	0.72E	0.0	0.0	0.0	0.03	0.09	0.0	0.02	0.0	0.0													
27	0.0	0.02	0.0	0.0	0.03	0.0	0.77	1.68E	0.0	0.52	0.0	0.0													
28	0.0	0.0	0.0	0.22	1.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.42	0.0	0.0	1.16	0.0	0.15	0.0	0.0	0.02	0.0	0.0													
30	0.10	0.0	0.0	0.0	0.98	0.0	0.29	0.0	1.29	0.0	0.0	0.03													
31	0.14	0.0	0.0	0.0	0.09	0.0	0.33	0.0	0.0	0.0	0.0	0.0													
TOTAL	1.92	5.25	3.08	1.95	7.24	1.93	3.27	4.18	4.46	7.62	2.69	1.32													
STA AV	2.76	3.56	3.26	2.38	3.67	4.04	4.49	4.09	2.84	3.04	2.51	2.94													

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period April 1958 through 1971.

1971		MEAN DAILY DISCHARGE (cfs)				BLACKSBURG, VIRGINIA ROCKY RUN BEANCH WATERSHED (13011)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.3648	0.318	0.521	0.693	0.405	2.211	0.189	0.193	0.146	1.275E	0.481	0.532
2	1.024E	0.293	0.578	0.671	0.392	1.855	0.177	0.190	0.146	0.805	0.459	0.608
3	0.7978	0.297	0.868	0.665	0.468	0.848	0.165	0.190	0.143	0.495	0.825	0.599
4	0.534E	0.683	2.563	0.585	0.399	0.785	0.158	0.369	0.139	0.357	0.593	0.562
5	0.844E	2.039E	1.228	0.560	0.363	0.653	0.158	0.459	0.161	0.526	0.481	0.548
6	0.7928	1.105E	0.945	2.692	0.351	0.490	0.170	0.266	0.278	0.859	0.459	0.548
7	0.624E	7.265E	0.831	2.053	0.378E	0.375	0.169	0.193	0.150	0.844	0.448	0.721
8	0.484E	4.545E	0.710	1.228	0.336	0.355	0.147	0.162	0.142	0.337	0.408	0.645
9	0.846E	1.681E	0.631	0.915	0.328	0.322	0.145	0.153	0.134	0.309	0.407	0.599
10	1.163E	0.693E	0.559	0.761	0.321	0.308	0.145	0.152	0.133	0.940	0.400	0.560
11	1.326E	0.475E	0.583	0.677	0.300	0.291	0.147	0.162	0.192	0.613	0.394	0.548
12	1.307E	0.436E	0.548	0.649	0.306	0.328	0.147	0.158	0.610	0.418	0.375	0.565
13	1.242E	1.783E	0.548	0.624	0.609	0.311	0.142	0.142	0.290	0.250	0.375	0.552
14	1.154E	1.441E	0.516	0.573	0.406	0.299	0.128	0.133	0.205	0.325	0.375	0.548
15	0.741E	1.108E	0.587	0.548	0.390	0.286	0.122	0.131	0.182	0.297	0.375	0.548
16	0.529E	1.031E	0.559	0.548	2.372	0.722E	0.116	0.131	0.172	0.274	0.375	0.559
17	0.439E	0.888E	0.498	0.534E	0.797	0.332	0.112	0.142	0.172	0.268	0.375	0.605
18	0.364E	0.675E	0.457	0.498E	0.513	0.287	0.100	0.192	0.169	0.261	0.375	0.501E
19	0.288E	0.613	0.515	0.498E	0.410	0.282	0.213	0.154	0.158E	0.261	0.375	0.498E
20	0.274	0.599	0.486	0.498E	0.351	0.253	0.147	0.134	0.146E	0.262	0.358	0.891E
21	0.274	0.558	0.459	0.498E	0.348	0.296	0.132	0.128	0.299E	0.261	0.315	0.724E
22	0.281	0.797	0.459	0.498E	0.316E	0.375	0.126	0.128	0.328E	0.272	0.246	0.548E
23	0.381	0.863	0.445	0.566E	0.308E	0.310	0.126	0.121	0.269E	29.538E	0.246	0.548E
24	0.387	0.639	0.420	0.512E	0.308E	0.285	0.164	0.106	0.190E	5.254	1.199	0.548E
25	0.438	0.569	0.420	0.446	0.308E	0.249	0.206	0.101	0.182E	2.043	1.171	0.548
26	0.384	0.554	0.470	0.420	0.308E	0.237	0.153	0.110	0.159E	1.218	0.606	0.548
27	0.336	0.714	0.605	0.420	0.308E	0.213	0.306	0.480	0.146E	0.891	1.176	0.548
28	0.312	0.567	1.067	0.463	1.129E	0.209	0.216	0.191	0.146E	0.690	0.827	0.536
29	0.308	1.643	0.427	0.426E	0.192	0.174	0.141	0.146E	0.628	0.646	0.498	0.498
30	0.333	1.179	0.420	0.512E	0.128	0.191	0.184	0.159	0.377E	0.581	0.517	0.498
31	0.360	0.828	0.420	0.405	0.405	0.197	0.162	0.162	0.564	0.564	0.468	0.468
MEAN	0.6429	1.1867	0.8059	0.7047	0.9122	0.4570	0.1602	0.1817	0.2057	1.6650	0.5221	0.5735
1 INCHES	0.855	1.425	1.071	1.907	1.213	0.588	0.213	0.242	0.265	2.214	0.672	0.762
STA W	0.867	1.205	1.305	0.909	0.846	0.607	0.537	0.389	0.271	2.476	0.484	0.729

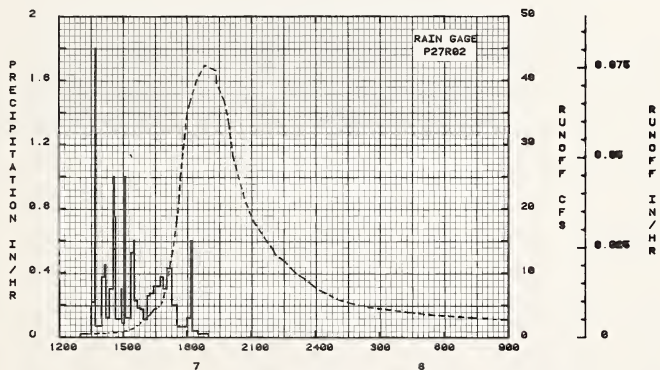
NOTES: To convert CFS to IN/DAY, multiply by 0.042886. STA W based on record period April 1958 through 1971.

1971		SELECTED RUNOFF EVENT				BLACKSBURG, VIRGINIA ROCKY RUN BEANCH WATERSHED (13011)						
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 7 - 8, 1971												
EG F27802		EG F27802										
2-7	0.0	0.016	2-7	1300	0.0	0.0	2-7	1340	0.504	0.0		
				1330	0.0200	0.01		1350	0.560	0.0002		
				1341	0.2182	0.06		1406	0.554	0.0004		
				1342	1.7999	0.08		1436	0.677	0.0009		
				1400	0.0667	0.10		1442	0.733	0.0010		
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%;												
cultivated, 9%; roads, 1%;												
idle, 15%.												
				1439	0.7500	0.35		1620	3.738	0.0061		
				1455	0.1125	0.38		1627	4.287	0.0069		
				1457	0.3000	0.39		1630	4.460	0.0073		
				1504	0.0857	0.40		1634	4.438	0.0078		
				1507	1.0000	0.45		1640	4.706	0.0086		
				1522	0.1200	0.48		1650	5.440	0.0101		
				1530	0.5250	0.55		1702	7.913	0.0125		
				1532	0.6000	0.57		1708	8.814	0.0130		
				1540	0.2250	0.60		1720	13.459	0.0183		
				1550	0.1800	0.63		1730	17.679	0.0229		
				1557	0.1714	0.45		1732	18.787	0.0240		
				1608	0.1091	0.67		1734	19.363	0.0251		
				1615	0.2571	0.70		1737	21.411	0.0269		
				1626	0.2727	0.75		1741	24.814	0.0297		
				1645	0.3158	0.85		1749	29.336	0.0362		
				1653	0.3750	0.90		1752	30.992	0.0389		
				1703	0.3000	0.95		1800	35.010	0.0468		
				1710	0.4286	1.00		1810	37.142	0.0575		
				1717	0.4286	1.05		1827	40.097	0.0771		
				1732	0.2000	1.10		1848	42.319	0.1029		

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

1971 SELECTED RIBOFF EVENT			BLACKSBURG, VIRGINIA ROCKY RUE BRANCH WATERSHED (13011)							
ANTECEDENT CONDITIONS			RAINFALL			RIBOFF				
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 7 - 8, 1971 (CONTINUED)										
2- 7	1800	0.0683	1-13	1-13	2- 7	1852	42.263	0.1079		
	1810	0.1200	1-15	1-15	1920	41.885	0.1828			
	1814	0.6000	1-19	1-19	1922	39.821	0.1852			
	1830	0.0375	1-20	1-20	1943	36.857	0.1691			
	1900	0.0200	1-21	1-21	1952	34.652	0.1787			
					1956	33.225	0.1827			
					2008	28.172	0.1937			
					2040	21.441	0.2174			
					2106	17.982	0.2327			
					2113	17.382	0.2364			
					2146	14.781	0.2522			
					2200	13.672	0.2581			
					2208	12.754	0.2612			
					2220	12.312	0.2657			
					2241	11.377	0.2731			
					2304	9.967	0.2804			
					2330	9.027	0.2878			
					2400	7.488	0.2953			
					2- 8	12	7.247	0.2980		
					28	6.799	0.3013			
					40	6.492	0.3037			
					48	6.195	0.3052			
					100	5.910	0.3074			
					116	5.613	0.3101			
					148	5.087	0.3152			
					228	4.639	0.3210			
					256	4.415	0.3248			
					304	4.115	0.3259			
					424	3.822	0.3357			
					520	3.464	0.3418			
					720	2.988	0.3533			
					920	2.497	0.3635			

NOTES: To convert CFS to I³/HR, multiply by 0.0017869.



EVENT OF FEBRUARY 7 - 8, 1971
BLACKSBURG, VIRGINIA ROCKY RUE BRANCH WATERSHED (13011)

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, Ely 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													
P	1.57	4.83	2.68	2.05	7.91	2.85	3.88	3.30	5.45	5.09	2.33	1.21	42.76													
Q	0.659	1.595	0.858	0.659	1.207	0.480	0.325	0.239	0.595	0.775	0.500	0.613	8.508													
STA AV	P	2.33	3.45	3.32	2.31	3.56	2.65	3.52	3.86	3.25	3.28	2.89	3.00	37.42												
	Q	0.866	1.246	1.270	0.745	0.527	0.369	0.244	0.471	0.258	0.467	0.538	0.685	7.685												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																										
Discharge Date	Basins			Maximum Volume for Selected Time Interval																						
	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																			
9-12 1967	0.291	0.155	0.201	5-30 1967	0.270	5-30 1967	0.365	5-29 1967	0.455	5-29 1967	0.525	2-6 1967	0.842													
MAXIMUMS FOR PERIOD OF RECORD																										
8-23 1967	0.390	8-23 1967	0.330	8-24 1967	0.550	8-24 1967	1.030	8-23 1967	1.630	8-23 1967	2.260	8-22 1967	2.420	8-20 1967	2.800											

NOTES: Watershed conditions: mixed cover, cultivated, 30%; permanent pasture, usually a good cover of native grasses, 26%; farm woods, a mixture of hardwoods and pine, 37%; roads, 1%; idle, 6%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 13-05-4. 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 1971. For long-time precipitation records, see National Weather Service records at Bedford, Virginia.

1971 DAILY PRECIPITATION (inches)													BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)												
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	0.28	0.60	0.0	0.60	0.0	0.0													
2	0.0	0.0	0.84	0.13	0.04	0.0	1.08	0.668	0.0	0.35	0.01E	0.0													
3	0.0	0.01	0.81	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.74	0.0													
4	0.66E	0.005	0.01	0.0	0.0	0.01	0.0	0.03E	0.0	0.0	0.0	0.0													
5	0.08E	0.61E	0.0	0.0	0.01	0.03	0.0	0.11E	0.0	0.40	0.0	0.0													
6	0.0	0.58	0.0	1.08E	0.20	0.0	0.32E	0.09E	0.0	0.02	0.0	0.12E													
7	0.0	0.46	0.0	0.47E	0.46	0.25	0.02E	0.0	0.12	0.0	0.0	0.6E													
8	0.0	0.40	0.0	0.0	0.10	0.13	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.01E	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0	0.98E	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.47E	0.0	0.03													
11	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.79	0.64	0.0	0.0	0.0													
12	0.0	0.26E	0.0	0.0	0.41	0.38	0.11E	0.0	2.75	0.0	0.0	0.03													
13	0.07	1.03E	0.0	0.0	1.80	0.0	0.0	0.0	0.03	0.0	0.0	0.0													
14	0.08	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.02	0.0	0.40	0.0	0.65	0.52	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	0.0	0.44	0.53	0.02	0.0	0.09	0.10E	0.0	0.0													
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.02E	0.0	0.02													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.03	0.0	0.0	0.0													
19	0.0	0.0	0.48	0.0	0.0	0.0	0.05	0.03	1.48	0.0	0.07E	0.02													
20	0.0	0.11	0.0	0.0	0.14	0.0	0.0	0.0	0.09	0.07E	0.0	0.31													
21	0.0	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.03	0.01E	0.0	0.0													
22	0.18	1.22	0.0	0.0	0.0	0.01	0.0	0.03	0.11	0.11E	0.0	0.0													
23	0.19	0.0	0.0	0.09	0.0	0.07	0.0	0.0	0.05	1.48E	0.18E	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.18E	0.90E	0.0													
25	0.22	0.0	0.0	0.0	0.01E	0.45	0.04E	0.0	0.33E	0.0	0.0	0.0													
26	0.01	0.14	0.54E	0.0	0.0	0.0	0.08E	0.01	0.01	0.0	0.0	0.0													
27	0.0	0.02	0.0	0.04	0.0	0.0	0.0	0.65	0.0	0.0	0.16E	0.0													
28	0.0	0.0	0.0	0.24	0.88E	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.0	1.66E	0.42	0.63E	0.0	0.0	0.0	0.29	0.0													
30	0.04	0.0	0.0	0.0	1.06E	0.0	0.05E	0.0	0.0	0.0	0.0	0.01E													
31	0.0	0.0	0.0	0.03E	0.0	0.03E	0.39E	0.0	0.0	0.0	0.0	0.0													
TOTAL	1.57	4.83	2.68	2.05	7.91	2.85	3.88	3.30	5.45	5.09	2.33	1.21													
STA AV	P	2.33	3.45	3.32	2.31	3.56	2.65	3.52	3.86	3.25	3.28	2.89	3.00												

NOTES: Precipitation amounts are Thiessen weighted values from rain gauges R-1, R-2, and R-3. STA AV based on record period September 1960 through 1971.

1971 REAM DAILY DISCHARGE (cfs)				BLACKSBORG VIRGINIA CRESTNOT BRANCH WATERSHED (13015)								
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.608	0.492	1.042	0.813	0.608	1.6808	0.542	0.838	0.216	0.393	0.808	0.966
2	0.570	0.431	1.476	0.839	0.649	1.333	2.852	1.104	0.164	1.178	0.763	0.873
3	0.536	0.493	5.163	0.778	0.643	1.015	1.288	0.222	0.202	0.605	1.717	0.843
4	0.865	0.621	3.460	0.702	0.636	0.885	0.593	0.373	0.206	0.522	0.935	0.796
5	4.724	1.705E	1.950	0.696	0.617	0.793	0.505	0.383	0.192	0.640	0.817	0.727
6	2.370	2.383E	1.600	1.742	0.731	0.715	0.582	0.399	0.192	0.595	0.779	0.734
7	1.581	4.972	1.354	4.374	0.789	0.671	0.535	0.346	0.192	0.476	0.708	2.939
8	1.198	6.331	1.157	2.411	0.692	0.753	0.843	0.311	0.192	0.446	0.661	1.542E
9	1.035	2.487	1.040	1.595	0.526	0.614	0.465	0.282	0.192	1.203	0.661	1.187
10	0.959	1.593	1.013	1.194	0.477	0.550	0.444	0.273	0.184	3.502	0.609	1.039
11	0.865	1.164	0.986	1.049	0.473	0.517	0.433	0.587	0.181	1.425	0.579	0.963
12	0.843	1.388	0.928	0.957	0.528	0.677	0.406	0.410	10.541	0.915	0.555	0.896
13	0.849	15.923	0.869	0.883E	3.600	0.593	0.368	0.282	0.999	0.745	0.555	0.837
14	0.980	3.111	0.843	0.801	1.493	0.505	0.357	0.253	0.510	0.678	0.555	0.779
15	0.808	1.851	1.092	0.834	1.169	0.655	0.325	0.241	0.422	0.587	0.555	0.779
16	0.669E	1.410	0.890	0.727	5.001	1.196	0.309	0.251	0.370	0.558	0.555	0.767
17	0.661E	1.157	0.764	0.700	1.835E	0.767	0.290	0.263	0.371	0.613	0.522	0.711
18	0.661E	1.025	0.725	0.697	1.130E	0.673	0.267	0.329	0.361	0.572	0.491	0.687
19	0.634E	0.981	1.131	0.661	0.928E	0.598	0.308	0.279	3.481	0.511	0.523	0.667
20	0.581E	1.065	0.947	0.642	0.785	0.539	0.291	0.258	1.954	0.544	0.555	0.938
21	0.555	0.924	0.804	0.608	0.828	0.497	0.257	0.236	0.993	0.531	0.501	0.815
22	0.604	6.992	0.779	0.598	0.739	0.513	0.249	0.251	0.777	0.550	0.491	0.734
23	0.832	4.618	0.753	0.614	0.710	0.558	0.243	0.248	0.647	3.809	0.491	0.725
24	0.640	2.165	0.725	0.603	0.661	0.487	0.258	0.208	0.551	3.470	0.498	0.725
25	0.700	1.637	0.725	0.577	0.691	0.994	0.279	0.211	0.442	3.015	0.810	0.695
26	0.687E	1.426	0.857	0.611	0.608	0.643	0.293	0.184	0.444	1.617	0.666	0.661
27	0.608E	1.435	1.139	0.611	0.559	0.550	0.255	0.357	0.422	1.190	0.624	0.661
28	0.608	1.137	1.141	0.750	0.817	0.417	0.239	0.271	0.401	0.917	0.980	0.661
29	0.608	1.020	0.639	1.694	0.487	0.443	0.230	0.376	0.882	1.480	0.661	0.661
30	0.715	0.911	0.608	0.608	20.215E	0.482	0.337	0.228	0.363	0.868	1.170	0.661
31	0.720	0.886			2.865E	0.402	0.224	0.367	0.843			0.627
REAM	0.9448	2.5328	1.2301	0.9767	1.7312	0.7119	0.4664	0.3431	0.8829	1.1112	0.7407	0.8793
INCHES	0.459	1.595	0.858	0.459	1.207	0.480	0.325	0.239	0.586	0.775	0.500	0.613
STA 1V	0.866	1.246	1.270	0.745	0.527	0.369	0.244	0.471	0.258	0.467	0.538	0.685

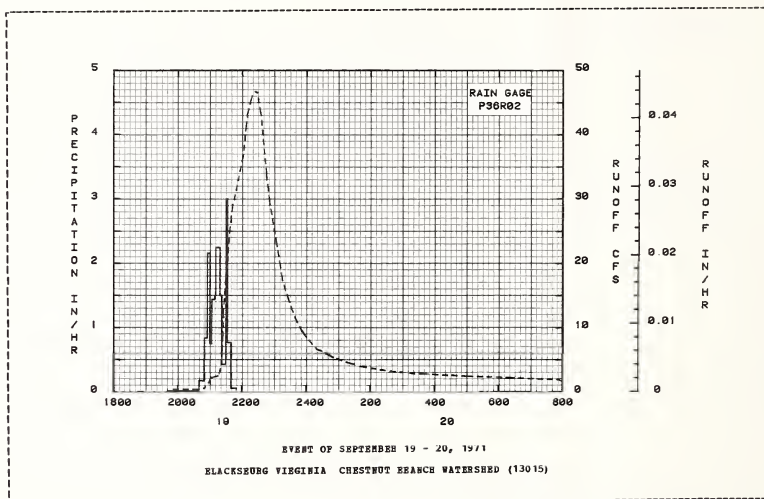
NOTES: To convert CFS to I/R/DAY, multiply by 0.022896. STA 1V based on record period September 1960 through 1971.

1971 SELECTED RUNOFF EVENT				BLACKSBORG VIRGINIA CRESTNOT BRANCH WATERSHED (13015)								
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 19 - 20, 1971												
9-19	EG P36R02	0.35	0.011	9-19	EG P36R02	1940	0.0	0.0	9-19	1952	0.416	0.0
						2010	0.0200	0.01		2040	0.837	0.0003
						2040	0.0200	0.02		2050	0.619	0.0004
						2050	0.1801	0.05		2052	0.843	0.0004
						2055	0.8400	0.12		2058	1.408	0.0005
WATERSHED CONDITIONS:												
						2100	2.1598	0.30		2102	2.294	0.0006
						2104	0.7498	0.35		2103	2.230	0.0006
						2109	1.4402	0.47		2116	2.539	0.0011
						2111	1.5000	0.52		2118	2.816	0.0012
						2115	2.2497	0.67		2120	3.574	0.0013
						2119	2.2499	0.82		2123	5.739	0.0015
						2123	1.5001	0.92		2125	4.324	0.0017
						2130	0.4286	0.97		2126	12.972	0.0019
						2133	3.0006	1.12		2127	14.487	0.0022
						2140	0.7714	1.21		2129	16.984	0.0027
						2150	0.0601	1.22		2130	17.645	0.0030
										2131	18.253	0.0033
										2134	20.931	0.0042
										2137	24.953	0.0052
										2140	27.311	0.0064
										2143	29.177	0.0077
										2202	36.869	0.0175
										2208	41.979	0.0213
										2210	43.259	0.0225
										2218	46.033	0.0281
										2224	46.673	0.0325
										2228	46.428	0.0354
										2235	42.939	0.0403
										2245	34.074	0.0464
										2246	32.890	0.0469

NOTES: To convert CFS to I/R/EE, multiply by 0.0009374.

1971 SELECTED SUBOFF EVENT			ELACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)								
AFFECTED CONDITIONS			RAINFALL			SUBOFF					
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 19 - 20, 1971 (CONTINUED)											
						9-19					
						2249			31.215		
						2252			29.039		
						2304			23.321		
						2312			19.245		
						2316			17.293		
						2326			14.658		
						2332			13.122		
						2340			11.447		
						2351			9.633		
						2400			8.577		
						20			6.614		
						28			6.433		
						36			5.996		
						50			5.387		
						122			4.489		
						184			3.969		
						238			3.158		
						340			2.795		
						500			2.432		
						512			2.432		
						620			2.187		
						752			1.942		
						1040			1.675		
						1200			1.590		
						1844			1.013		
						2100			0.949		

NOTES: To convert CFS to IN/HR, multiply by 0.0009374.



KILINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

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

AREA: 1773.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUOFF (inches)													KILINGERSTOWN, 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	
1971	P	1.97	4.21	2.15	0.84	3.93	1.59	5.52	3.18	3.84	2.47	3.80	2.53	36.04	Q	1.274	5.476	3.597	0.626	1.270	0.307	1.337	1.033	0.452	0.540	1.578	3.340	19.832
STA IV	P	1.59	2.07	2.56	2.78	3.88	3.86	4.13	3.29	3.64	2.59	4.10	2.37	36.83	Q	0.996	3.077	2.624	2.020	1.456	0.795	0.452	0.542	0.520	0.308	1.718	1.866	16.372

ANNUAL MILLION DISCHARGE (in/yr) AND RAINFALL VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS													KILINGERSTOWN, PENNSYLVANIA WATERSHED WE-38															
Discharge	1 Hour			2 Hours			6 Hours			12 Hours			1 Day			2 Days			8 Days									
	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.							
1971	2-13	0.125		2-13	0.120		2-13	0.226		2-13	0.581		2-13	0.994		2-13	1.372		2-13	1.660		2-20	2.725					
MAXIMUMS FOR PERIOD OF RECORD																												
	2-13	0.125		2-13	0.120		2-13	0.226		2-13	0.581		4-2	1.020		4-2	1.721		4-2	2.401		3-31	3.381					
	1971			1971			1971			1970			1970			1970			1970			1970						

NOTES: Watershed conditions: Mixed cover area, 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: corn, 20.4%; small grain, 20.0%; pasture, 4.0%; hay, 12.9%; vegetables, 0.7%; idle, 0.6%; orchard, 0.5%; homesteads and roads, 3.1%; forest, 37.8%. Precipitation and runoff records began Jan. 1, 1968. Precipitation data Thiessen weighted average for rain gauges MB37 and MB37. Length of record 4 yr (1968-71). For long-time precipitation records, see National Weather Service records at Sellersburg, CIA Airport, Pennsylvania.

1971 DAILY AIR TEMPERATURE (degrees F)													KILINGERSTOWN, 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	28	20	8	1	48	32	56	30	59	34	72	44	86	69	72	64	69	62	70	60	64	59	32	20	
2	32	14	10	0	36	30	54	31	51	44	65	55	79	60	78	67	70	62	74	64	78	51	28	15	
3	38	24	19	0	33	27	51	24	52	40	78	62	80	50	76	64	78	64	81	60	57	33	31	12	
4	44	30	26	16	26	21	48	28	58	38	84	60	80	54	67	60	82	62	60	57	46	28	35	16	
5	48	26	37	26	40	26	42	28	68	38	80	57	83	54	76	56	86	65	72	58	53	25	32	20	
6	25	17	40	26	48	26	41	30	54	41	80	59	86	63	77	51	86	66	66	50	57	31	42	30	
7	21	12	36	26	41	28	49	31	66	38	84	56	88	60	82	54	79	64	59	36	57	27	46	38	
8	22	10	34	30	28	22	49	29	53	48	86	62	91	60	84	60	82	66	59	34	36	26	40	37	
9	25	16	31	10	32	20	68	33	52	46	74	59	88	66	83	61	88	63	60	42	38	19	42	38	
10	39	15	23	4	38	18	50	35	69	42	76	56	81	62	82	63	82	68	57	48	40	31	50	42	
11	42	34	34	12	42	27	61	34	72	44	78	50	64	57	80	67	77	68	61	46	40	28	54	32	
12	40	17	47	32	41	26	70	34	64	58	82	60	77	54	73	54	77	67	58	36	53	29	54	32	
13	22	12	48	20	43	33	76	47	56	43	79	60	78	56	79	49	75	60	62	39	54	33	46	32	
14	33	22	24	16	54	38	57	33	67	36	68	58	77	62	81	54	75	60	72	52	45	28	34	25	
15	38	21	29	17	56	40	50	29	62	40	57	53	80	62	77	56	79	63	70	44	50	36	57	35	
16	23	14	32	22	54	31	59	34	56	48	67	52	82	61	75	57	72	58	64	47	52	36	54	40	
17	23	11	32	20	54	27	56	36	71	46	76	52	84	62	80	52	73	58	65	48	54	38	41	28	
18	22	6	46	26	40	25	60	40	77	45	78	56	77	54	82	55	69	61	63	43	30	27	28	19	
19	16	3	42	35	34	32	67	42	85	56	78	56	76	59	80	65	68	60	40	38	50	42	32	16	
20	26	10	43	35	32	30	66	42	72	54	83	62	73	54	80	60	74	64	56	52	44	31	38	33	
21	36	12	41	32	38	30	68	42	64	49	80	64	80	50	82	64	64	48	68	49	40	33	44	33	
22	40	31	36	31	42	30	52	42	60	45	79	60	81	56	78	64	65	42	65	46	33	25	33	20	
23	39	23	37	30	38	25	59	32	67	42	83	58	82	62	73	56	62	58	64	56	33	20	32	15	
24	36	22	36	30	33	21	55	34	68	46	85	64	80	62	69	50	63	46	59	53	34	26	49	33	
25	40	29	42	30	37	20	48	34	74	54	66	62	62	65	78	47	63	38	62	57	34	31	40	32	
26	35	17	50	30	38	26	47	38	62	53	81	64	85	67	80	64	54	52	62	53	35	30	46	39	
27	15	6	56	40	46	25	58	35	62	42	85	63	77	58	67	62	60	54	66	52	38	32	51	44	
28	16	7	50	36	52	26	50	43	60	40	87	66	78	55	74	59	66	60	73	55	40	33	53	33	
29	31	6	45	37	42	27	40	46	76	64	80	66	78	58	76	58	76	62	72	48	40	32	37	24	
30	38	16	40	30	53	40	62	55	86	68	74	60	80	60	80	57	72	62	71	42	37	30	46	29	
31	15	3	46	26	46	26	75	53	75	53	78	66	74	60	61	67	61	57	67	48	43	47	43	27	
AV.	30	16	35	23	41	28	56	35	64	45	78	59	80	59	77	58	73	59	65	49	46	32	42	29	
MEAN	23.4	29.0	34.4	45.4	54.8	64.6	69.8	67.9	66.2	64.8	67.9	69.8	67.9	66.2	64.8	67.9	69.8	67.9	66.2	64.8	67.9	69.8	67.9	66.2	64.8
STA IV	29	16	34	20	43	28	59	39	66	48	77	58	81	61	79	59	74	55	62	46	48	34	36	25	

NOTES: Temperature data taken daily with maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 0930 to the date shown to 0930 the following day. Data recorded at MB37 meteorological station. STA IV based on 4 yr (1968-71) record period.

Cooperative Research Project with OSDA, 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

1971 DAILY PRECIPITATION (inches)												
KLINGSTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.285	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.96	0.0
2	0.0	0.0	0.0	0.0	0.56	0.09	0.0	0.0	0.0	0.0	0.40	0.0
3	0.0	0.0	0.605	0.05	0.09	0.0	0.0	0.92E	0.0	0.0	0.0	0.0
4	0.84	0.15L	0.115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.22L	0.045	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	0.47	0.19	0.0	0.0	0.0	0.09	0.0	1.59
7	0.0	0.30H	0.09	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.19
8	0.0	0.50H	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.05H	0.0	0.0	0.0	0.0	0.09	0.19E	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	0.94	0.09	0.09
11	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.94	0.0	0.0	0.0
12	0.0	0.0	0.37	0.0	0.19	0.09	0.0	0.0	0.28	0.0	0.0	0.0
13	0.20H	1.50	0.0	0.0	1.12	0.47	0.09	0.0	0.66E	0.0	0.0	0.0
14	0.0H	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	2.0L
15	0.0	0.0	0.28	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.09	0.08L
16	0.0	0.0	0.0	0.09	0.28	0.0	0.0	0.0	0.28	0.0	0.0	0.0
17	0.0	0.19	0.0	0.0	0.0	0.0	0.28	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	0.66	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.12	0.0
20	0.0	0.09	0.0	0.0	0.0	0.0	0.07	0.09	1.22	0.0	0.07	0.0
21	0.09	0.0	0.0	0.0	0.37	0.28	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.14	0.15	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0
24	0.05	0.0	0.0	0.0	0.09	0.0	0.07	0.0	0.0	0.0	0.18	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.14	0.0
26	0.09H	0.10	0.0	0.0	0.0	0.0	1.40	0.0	0.26	1.11E	0.0	0.09
27	0.0	0.18	0.0	0.0	0.0	0.0	0.0	1.31	0.02	0.0	0.0	0.0
28	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.09	0.09	0.0	0.0	0.0
29	0.13	0.0	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.75	0.0
30	0.06	0.0	0.0	0.0	0.28	0.09	1.01	0.0	0.0	0.0	0.0	0.28
31	0.0	0.0	0.0	0.0	0.09	0.39	0.0	0.0	0.0	0.13	0.0	0.0
TOTAL	1.97	4.21	2.15	0.88	3.93	1.59	5.52	3.18	3.84	2.47	3.60	2.53
STA AV	1.59	2.07	2.56	2.78	3.88	3.86	4.13	3.29	3.64	2.59	4.10	2.37

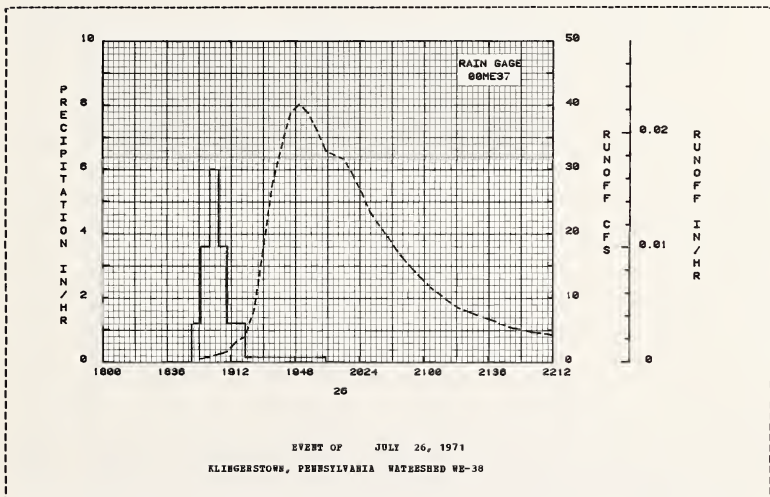
NOTES: Precipitation values are Thiessen weighted average of rain gages H637 and H637. STA AV based on 4 yr (1968-71) record period.

1971 SEAN DAILY DISCHARGE (cfs)												
KLINGSTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.815	4.262	12.505	2.826	0.905	1.334	0.414	5.620	0.457	0.786	5.703	13.399
2	1.625	0.803	9.596	3.225	1.540	1.302	0.344	6.078	0.440	0.772	13.012	8.745
3	1.472	0.758	8.399	2.885	1.221	1.275	0.296	13.048	0.436	0.713	14.278	6.316
4	5.563	0.817	6.938	2.221	1.064	1.122	0.290	14.311	0.405	0.690	8.715	4.744
5	11.618	0.987	6.889	2.124	1.004	1.042	0.284	7.697	0.387	0.640	5.477	3.757
6	9.990	1.614	5.921	2.201	1.664	1.071	0.285	4.764	0.374	0.690	4.082	13.357
7	7.224	1.064	12.614	2.188	1.367	0.985	0.266	3.482	0.351	0.603	3.489	46.316
8	5.689	1.390	11.976	1.861	1.860	0.903	0.242	2.552	0.350	0.536	2.947	37.448
9	4.796	3.286	9.862	1.717	1.867	0.812	0.286	1.872	0.337	0.530	2.059	21.531
10	4.711	1.385	7.230	1.585	1.769	0.741	0.265	1.579	0.316	0.230	1.963	14.410
11	3.697	1.037	7.410	1.443	1.742	0.683	0.405	1.425	0.486	1.443	1.728	10.481
12	3.285	2.316	8.301	1.332	1.971	0.725	0.310	1.174	0.137	1.206	1.558	6.079
13	2.892	93.622	12.199	1.478	8.396	0.933	0.277	1.016	1.934	1.117	1.394	6.620
14	2.821	28.929	13.776	1.447	9.859	1.108	0.267	0.949	1.352	1.050	1.196	5.814
15	2.537	10.190	16.213	1.303	7.382	0.940	0.243	0.885	0.993	0.978	1.251	5.489
16	2.128	6.818	14.781	1.305	7.139	0.776	0.230	0.783	0.881	0.939	1.135	4.642
17	1.962	5.134	11.414	1.302	5.630	0.673	0.314	0.715	0.815	0.831	1.028	4.037
18	1.964	4.659	8.585	1.200	4.659	0.603	0.241	0.675	0.668	0.807	1.101	3.551
19	1.667	14.503	10.756	1.124	4.104	0.582	0.450	0.681	0.628	0.750	0.921	3.208
20	1.521	21.929	12.476	1.132	3.642	0.567	0.323	0.645	2.626	0.716	1.107	3.290
21	1.509	24.756	10.532	1.173	3.880	0.631	0.242	0.667	4.645	0.687	1.031	3.040
22	1.506	42.573	8.855	1.148	3.295	0.580	0.216	0.597	2.952	0.687	0.878	2.356
23	1.548	40.451	7.531	1.092	2.952	0.509	0.212	0.551	2.147	0.667	0.732	2.110
24	1.343	19.506	6.327	1.075	2.682	0.480	0.205	0.462	1.603	1.008	0.792	2.269
25	1.355	14.677	5.173	1.046	2.319	0.491	0.326	0.447	1.259	2.715	1.998	2.105
26	1.686	13.979	4.686	1.075	2.025	0.430	0.252	0.420	1.317	3.849	1.542	2.128
27	1.514	24.329	4.220	0.943	1.855	0.404	0.782	1.451	1.195	3.486	1.853	1.972
28	2.447	18.044	4.116	1.112	1.727	0.396	0.403	0.639	1.111	3.038	2.591	1.909
29	1.155	3.777	1.034	1.637	0.379	0.379	0.591	0.577	0.956	2.304	10.632	1.668
30	1.197	3.383	0.957	1.783	0.378	0.378	0.076	0.501	0.861	1.899	21.692	2.043
31	1.595	3.047	1.661	1.661	1.661	1.661	8.451	0.472	1.763	1.763	1.763	1.775
SEAN	3.061	14.669	8.644	1.555	3.052	0.762	0.809	2.482	1.123	1.298	3.919	8.027
INCHES	1.274	5.476	3.597	0.626	1.270	0.307	0.337	1.033	0.452	0.540	1.578	3.340
STA AV	0.996	3.077	2.628	2.020	1.456	0.795	0.452	0.542	0.520	0.308	1.718	1.864

NOTES: To convert sean daily discharge in CFS to 1/8/DAT, multiply by 0.013425. 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 4 yr (1968-71) record period.

1971 SELECTED RUNOFF EVENT			KLINGESTOWNE, PENNSYLVANIA WATERSHED W2-38								
PRECIPITATION CONDITIONS			RAINFALL						RUNOFF		
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JULY 26, 1971											
EG 00RE37			EG 00RE37								
7-26	0.0	0.002	7-26	1850	0.0	0.0	7-26	1855	0.469	0.0	
				1855	1.2001	0.10		1900	0.731	0.0	
				1900	3.5994	0.40		1905	1.180	0.0	
				1905	6.0004	0.90		1910	1.616	0.0001	
				1910	3.6003	1.20		1915	3.154	0.0002	
WATERSHED CONDITIONS:				1915	1.1999	1.30		1920	3.942	0.0004	
Mixed cover area, 4-yr				1920	1.2000	1.40		1925	8.304	0.0007	
rotation of corn, small grain,				2005	0.1333	1.50		1930	17.654	0.0013	
small grain and native				2105	0.0	1.50		1935	27.507	0.0023	
grasses, most of which is								1940	33.470	0.0037	
heavily contoured. Vegetative								1945	38.744	0.0054	
cover: corn, 20.4%; small								1950	40.166	0.0072	
grain, 20.0%; pasture, 4.0%;								1955	38.744	0.0090	
hay, 12.9%; vegetables, 0.7%;								2000	36.051	0.0108	
idle, 0.4%; orchard, 0.5%;								2005	32.834	0.0124	
hospitals and roads, 3.1%;								2100	12.608	0.0282	
forest, 37.8%.								2105	11.265	0.0247	

NOTES: To convert runoff in CFS to I²/EE, multiply by 0.000559.



MCCREDIE, MISSOURI STATION RESERVOIR #-1

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

AREA: 153.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													MCCREDIE, MISSOURI STATION RESERVOIR #-1															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1971	P	1.35	2.12	0.69	1.29	4.63	1.87	3.35	1.56	2.56	1.50	2.17	4.39	27.48														
	Q	0.945	1.127	0.009	0.0	0.261	0.038	0.0	0.0	0.0	0.0	0.230	2.690															
STA AV	P	1.43	1.58	2.57	3.70	4.33	4.61	3.60	2.81	3.88	3.61	1.93	1.73	35.76														
	Q	0.532	0.668	1.06	1.128	0.916	1.047	0.526	0.130	0.548	1.110	0.382	0.351	8.403														
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						
1971	1-3	0.183	1-3	0.174	1-3	0.316	1-3	0.645	1-3	0.812	1-3	0.904	1-2	0.936	1-1	0.945												
MAXIMIMS FOR PERIOD OF RECORD																												
	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												
	1968	1968	1968	1968	1968	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941												

NOTES: Watershed conditions: 40% Pasture and meadow; 51% corn; 30% soybeans; and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan., 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 topographic map of watershed, see Hydrologic Map of Watershed, for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 25-1-13. For long-time precipitation records, see National Weather Service records at Columbia, Missouri (1890-1971).

1971 DAILY AIR TEMPERATURE (degrees F)																		MCCREDIE, MISSOURI STATION RESERVOIR #-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	44	30	22	6	45	32	75	41	70	46	83	62	88	63	80	54	88	64	88	64	77	42	34	27											
2	43	31	22	6	44	29	51	34	70	43	80	60	85	60	83	57	86	67	87	62	73	42	34	28											
3	47	33	26	21	32	19	54	32	64	38	84	58	85	60	83	61	87	70	75	64	57	35	36	29											
4	23	22	35	26	46	17	52	35	68	39	86	64	85	66	80	64	88	68	75	50	64	29	39	27											
5	22	10	40	17	55	32	44	35	74	54	87	68	79	67	77	61	89	69	81	89	64	47	42	35											
6	16	4	26	14	55	32	53	31	74	60	87	68	86	63	77	62	91	68	78	49	60	36	42	38											
7	26	7	25	18	33	28	65	33	70	57	86	70	89	66	77	63	92	68	74	44	39	15	44	40											
8	29	15	10	0	39	23	75	42	69	53	86	68	93	72	88	67	94	69	69	52	43	31	47	40											
9	39	19	15	2	47	29	74	51	74	48	81	61	93	71	89	67	91	70	58	40	51	35	46	43											
10	39	23	42	13	43	29	73	38	70	58	80	64	83	70	91	66	88	67	64	38	65	26	53	38											
11	30	22	50	36	60	34	79	54	72	57	84	69	83	69	91	67	88	66	70	43	67	33	47	23											
12	26	17	48	24	67	38	85	59	73	47	88	68	92	67	84	56	83	57	76	38	76	38	43	28											
13	30	20	24	7	73	39	84	47	67	40	86	68	92	75	90	65	87	58	75	53	75	46	36	20											
14	30	19	37	17	82	59	66	39	79	46	81	68	91	64	91	65	100	53	75	39	75	60	44	34											
15	25	9	40	27	53	42	74	43	80	53	79	65	83	67	87	64	98	58	81	70	56	63	41	34											
16	37	12	48	26	51	34	82	51	80	57	80	65	87	60	80	63	65	54	80	51	70	48	44	29											
17	37	17	58	27	55	28	81	58	84	60	82	65	91	65	81	61	66	54	78	61	70	46	40	24											
18	20	18	65	41	55	45	76	60	84	64	90	68	91	68	87	59	65	52	81	64	66	44	44	14											
19	18	4	63	45	52	33	83	58	80	56	90	73	73	64	91	65	57	53	78	68	48	29	40	33											
20	37	7	45	33	46	29	83	57	72	48	90	70	78	57	91	71	69	48	73	64	60	40	37	30											
21	39	31	36	31	62	33	70	46	76	53	83	67	83	58	88	68	70	43	73	61	55	28	35	31											
22	43	24	35	31	40	31	70	43	75	58	83	62	85	60	88	67	72	45	72	55	38	19	45	29											
23	40	16	31	29	39	26	83	48	71	56	87	66	84	68	93	66	70	52	65	58	36	30	57	37											
24	48	23	43	20	35	20	89	45	71	1	90	64	78	64	93	65	66	47	63	56	38	31	53	27											
25	49	28	59	30	33	28	72	46	65	50	94	71	87	62	93	66	75	54	73	47	51	26	64	32											
26	48	16	60	46	46	27	74	53	65	46	94	70	77	66	84	60	88	64	75	51	45	37	59	45											
27	21	7	46	32	61	33	74	53	62	49	94	71	80	53	77	52	90	69	75	56	45	35	64	30											
28	25	15	44	28	61	44	66	43	67	44	91	68	80	65	80	52	91	70	76	44	40	35	32	17											
29	53	18	52	33	61	37	72	45	91	70	77	55	84	69	70	80	80	53	34	34	41	27	1	27											
30	52	18	68	29	65	38	75	50	89	71	70	54	84	56	90	66	82	58	33	28	56	31	1	24											
31	19	11	76	50			84	64			74	50	86	54			79	34						44	22										
AV.	34	18	39	23	52	32	70	45	73	52	86	67	84	64	85	62	82	60	75	52	56	36	45	31											
MEAN	25.9	31.2			42.2	57.4	62.3		76.5	73.7	73.7	73.7	71.4	63.6	46.1	38.2																			
STA AV	39	20	43	23	52	30	67	43	75	52	83	61	88	65	88	63	81	55	70	45	54	33	41	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 31 yr (1941-1971) record period.

1969 DAILY PRECIPITATION (inches)					MCREDIE, MISSOURI STATION RESERVOIR W-1							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.38	0.0
2	0.06	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.18	0.0	0.0
3	1.29	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.50	0.0	0.0
4	0.0	1.11	0.0	0.17	0.03	0.0	0.50	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.03	0.03	0.0	0.0	0.0	0.32	0.0	0.05	0.08
6	0.0	0.0	0.15	0.07	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.32
7	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.08	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.05	0.09	0.0
9	0.0	0.0	0.40	0.0	0.0	0.0	0.53	0.0	0.04	0.0	0.0	0.23
10	0.0	0.0	0.0	0.0	0.26	0.41	0.0	0.69	0.0	0.0	0.0	1.06
11	0.0	0.03	0.0	0.0	1.08	0.0	0.08	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.04
13	0.0	0.0	0.0	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.21	0.0
14	0.0	0.0	0.11	0.0	0.0	0.95	0.45	0.26	0.0	0.0	0.0	0.88
15	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.03	0.50	0.0	0.0	0.60
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	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	0.21	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.27	0.0
19	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.18
20	0.0	0.0	0.0	0.62	0.0	0.08	0.0	0.0	0.0	0.02	0.0	0.0
21	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.02	0.0	0.0
22	0.0	0.23	0.0	0.0	0.32	0.0	0.0	0.05	0.0	0.0	0.0	0.0
23	0.0	0.01	0.0	0.0	0.97	0.0	0.09	0.0	0.0	0.0	0.03	0.0
24	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.08	0.0
25	0.0	0.0	0.02	0.05	0.0	0.0	0.0	0.09	0.29	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	0.28	0.0
27	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.71	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.06	0.47
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32
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	1.35	2.12	0.69	1.29	4.63	1.87	3.35	1.56	2.56	1.50	2.17	4.39
STA AV	1.43	1.58	2.57	3.70	4.33	4.61	3.60	2.81	3.88	3.61	1.93	1.73

NOTES: Precipitation data are thimssen weighted values for 4 recording rain gages and 1 non-recording rain gage. STA AV values are for 31 yr (1941-1971) record period.

1971 SEAN DAILY DISCHARGE (cfs)					MCREDIE, MISSOURI STATION RESERVOIR 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	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5.088	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.399	3.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.055	0.123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.121	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	0.122	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	0.464	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.919
10	0.0	0.0	0.110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.222
11	0.0	0.0	0.0	0.0	0.798	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.458	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	0.244	0.0	0.0	0.0	0.0	0.0	0.193
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.579
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	0.135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.318	0.0	0.0	0.262	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.057	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	1.746	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.938	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.180	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	0.465
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
SEAN	0.1960	0.2587	0.0185	0.0	0.0541	0.0081	0.0	0.0	0.0	0.0	0.0	0.0477
INCHES	0.485	1.127	0.089	0.0	0.261	0.038	0.0	0.0	0.0	0.0	0.0	0.230
STA AV	0.532	0.668	1.064	1.128	0.916	1.047	0.526	0.130	0.548	1.110	0.382	0.351

NOTES: To convert sean daily discharge in cfs to I8/DAT, multiply by 0.155557. STA AV values are for 31 yr (1941-1971) record period.

COSHOCTON, OHIO WATERSHED 102

LOCATION: Coshocton Co., Ohio; 10 mi. SE of Coshocton; Tascarawan River, Hankingue River Basins.

AREA: 1.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 102															
	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	
1971	P	1.29	3.57	2.55	0.75	4.35	1.39	2.84	1.92	2.13	0.99	1.83	4.40	28.01	Q	0.0	0.624	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.624
STA AV	P	1.85	2.26	3.96	3.26	3.96	4.45	4.25	2.96	2.38	2.32	2.42	2.39	36.45	Q	0.046	0.087	0.112	0.060	0.009	0.149	0.173	0.033	0.016	0.009	0.001	0.0	0.694

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1971	Maximum Discharge				Maximum Volume for Selected Time Interval											
	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.	Date	Vol.			
1971	2-5	0.087	2-5	0.075	2-5	0.114	2-4	0.267	2-4	0.428	2-4	0.554	2-3	0.554	1-28	0.554
MAXIMUMS FOR PERIOD OF RECORD																
	6-12	3.640	6-12	1.310	7-5	1.427	7-5	2.470	7-5	2.470	7-5	2.470	7-5	2.470	6-29	2.597
	1957		1957		1969		1969		1969		1969		1969		1969	

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. 985, 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 T101. Precipitation and runoff records began April 1957. Watershed discontinued Jan. 1, 1947 to Apr. 30, 1957 and Sept. 1, 1957 to March 29, 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 102													
Day	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	0.0	0.11	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	0.15	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.05	0.09	0.05	0.0	0.0	0.07	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	0.0
3	0.11	0.0	0.368	0.0	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	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	0.70	0.40	0.308	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	0.0	0.0	0.0	0.0	0.0
5	0.0	0.23	0.0	0.0	1.25	0.0	0.0	0.01E	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52
6	0.0	0.0	0.55	0.0	1.55	0.35	0.0	0.0	0.07	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E
7	0.0	0.0	0.09E	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52
8	0.0	1.325	0.09E	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.52	0.0	0.0	0.36	0.07E	0.0	0.0	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	0.195	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	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	0.105	0.0	0.07	0.0	1.20	0.09	0.0	0.0	0.0	0.0	0.0	0.0	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	0.344	0.39	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.10	0.0	0.0	0.20	0.0	0.66	0.0	0.0	1.27	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
14	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55
15	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32
16	0.04E	0.0	0.02E	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.05E	0.15	0.01E	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E
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	0.0	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	0.05	0.13E	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.33	0.0	0.0	0.0	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	0.15	0.10E	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.13	0.15E	0.0	0.0	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	0.07	0.0	0.11	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	0.0	0.0	0.0	0.0	0.0
22	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	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	0.06E	0.05E	0.0	0.0	0.0	0.0	0.26	0.0	0.07E	0.0	0.0	0.0	0.0	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	0.08E	0.07E	0.0	0.0	0.0	0.0	0.68	0.0	0.0	1.0E	0.13E	0.0	0.0	0.0	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	0.46	0.0	0.0	0.31	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	0.0	0.0	0.0	0.0
26	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.21	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	0.0	0.0	0.31
27	0.01E	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E
28	0.01E	0.0	0.0	0.03	0.0	0.08	0.09	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	0.16
29	0.03E	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.53E	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	1.15	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	1.15
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	0.0	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	1.29	3.57	2.55	0.75	4.35	1.39	2.84	1.92	2.13	0.99	1.83	4.40		1.85	2.26	3.96	3.26	3.96	4.45	4.25	2.96	2.38	2.32	2.42	2.39	
STA AV	1.85	2.26	3.96	3.26	3.96	4.45	4.25	2.96	2.38	2.32	2.42	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 T101. STA AV based on 23 yr period, part-years records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts.

1971		SEAN DAILY DISCHARGE (cfs)										COSHOCTON, OHIO WATERSHED 102	
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	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.012	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	0.004	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	
SEAN	0.0	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.628	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA 1V	0.086	0.087	0.112	0.060	0.009	0.149	0.173	0.033	0.016	0.009	0.001	0.0	

NOTES: To convert CFS to IN/DAY, multiply by 18.8902. STA 1V based on 23 yr period, part-years records included.

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 RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 129															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
P	1.43	3.44	2.47	0.57	4.38	1.16	2.90	1.75	2.26	0.96	1.70	4.19	27.21															
1971 Q	0.018	1.919	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.948															
STA AV P	2.67	2.38	3.46	3.35	3.84	3.96	4.30	2.79	2.56	2.10	2.47	2.30	36.16															
Q	0.091	0.164	0.158	0.058	0.045	0.134	0.126	0.037	0.036	0.010	0.001	0.011	0.870															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																												
Discharge Date	Maximum Discharge			1 Hour			2 Hours			Maximum Volume for Selected Time Interval																		
	Date	Rate	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days														
1971	2-19	0.086		2-19	0.086		2-19	0.166		2-19	0.456		2-19	0.609		2-19	0.833		2-18	1.192		2-14	1.422					
MAXIMUMS FOR PERIOD OF RECORD																												
	6-12	2.360		6-12	0.980		9-1	1.010		3-4	1.530		3-4	2.900		3-3	3.510		3-3	4.000								
	1957	1957		1950	1950		1963	1963		1963	1963		1963	1963		1963	1963											

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, USDA Misc. Pub. 945, p. 26.3-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.3-1 and 26.10-3. Precipitation data from rain gage 100. Precipitation and runoff records began April, 1938. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 129												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
1	0.0	0.0	0.0	0.08	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0														
2	0.0	0.0	0.0	0.02	0.06	0.05	0.0	0.0	0.098	0.0	0.19	0.0														
3	0.12	0.0	0.308	0.0	0.0	0.05	0.0	0.0	0.078	0.0	0.0	0.0														
4	0.82	0.35	0.308	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0														
5	0.0	0.20	0.0	0.0	1.25	0.0	0.0	0.01E	0.0	0.0	0.0	0.25														
6	0.0	0.0	0.65	0.0	1.66	0.29	0.0	0.0	0.06E	0.0	0.23H	0.87														
7	0.0	0.0	0.05E	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.54														
8	0.0	1.32E	0.05E	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	0.51	0.0	0.0	0.33	0.06H	0.0														
10	0.0	0.0	0.25E	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0														
11	0.0	0.0	0.10E	0.0	0.06	0.0	1.17	0.0	0.0	0.0	0.0	0.0														
12	0.0	0.10H	0.35E	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
13	0.07	0.0	0.15	0.0	0.0	0.45	0.0	0.0	1.32	0.0	0.0	0.0														
14	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.60														
15	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35														
16	0.04E	0.0	0.01E	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
17	0.05E	0.06	0.01E	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05H														
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	0.02	0.15E	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.35	0.0														
20	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.07	0.10E														
21	0.0	0.0	0.0	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0														
22	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0														
23	0.0	0.08E	0.10E	0.0	0.0	0.0	0.0	0.28	0.0	0.08	0.0	0.0														
24	0.09E	0.05E	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.11	0.12H	0.0														
25	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.25	0.10	0.0	0.0	0.0														
26	0.01E	0.0	0.0	0.0	0.0	0.0	0.16	0.24	0.17	0.0	0.0	0.25														
27	0.01E	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.05E														
28	0.01E	0.0	0.0	0.02E	0.0	0.15	0.07	0.0	0.0	0.0	0.13	0.0														
29	0.09H	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.53H	0.0														
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	1.00														
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	1.43	3.44	2.47	0.57	4.38	1.16	2.90	1.75	2.26	0.96	1.70	4.19														
STA AV	2.67	2.38	3.46	3.35	3.84	3.96	4.30	2.79	2.56	2.10	2.47	2.30														

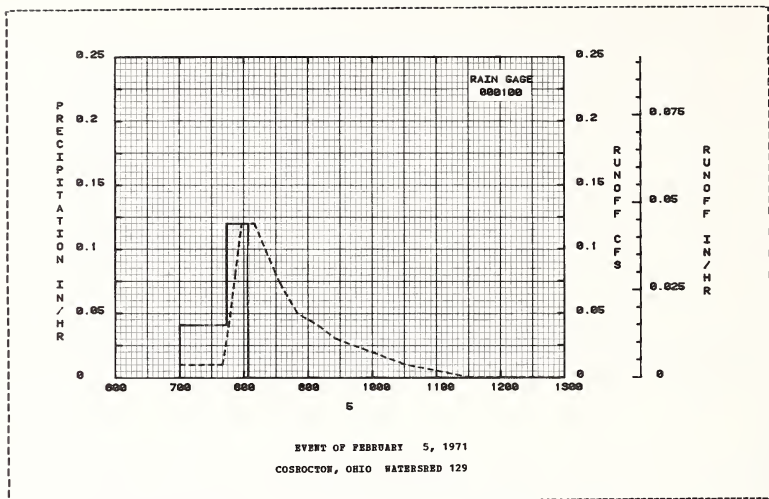
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.03E-1. Precipitation amounts are for rain gage 100. STA AV based on 34 yr period, part-year records included. Codes "E" may reflect estimated storm duration rather than estimated rainfall amounts.

1971			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	0.002	0.0268	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.030	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	0.001	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	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.094	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.012	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	0.032	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	0.0001	0.0078	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.018	1.919	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.091	0.164	0.158	0.058	0.045	0.134	0.126	0.037	0.036	0.010	0.001	0.011	

NOTES: To convert CFS to IR/DAY, multiply by 8.7829. STA AV based on 34 yr period, part-year records included.

1971			SELECTED RUNOFF EVENT				COSHOCTON, OHIO WATERSHED 129						
ASCENDING 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 5, 1971													
2-5	RG 000100					RG 000100							
	0.10	0.209	2-5	700	0.0	0.0	2-5	700	0.012	0.0			
				744	0.0409	0.03		740	0.012	0.0029			
				804	0.1200	0.07		746	0.041	0.0039			
								752	0.082	0.0061			
								758	0.118	0.0098			
WATERSHED CONDITIONS:													
Mixed grass.													
								810	0.118	0.0184			
								830	0.082	0.0306			
								836	0.067	0.0333			
								850	0.053	0.0384			
								910	0.041	0.0441			
								926	0.030	0.0476			
								1030	0.006	0.0546			
								1130	0.002	0.0561			
								1200	0.0	0.0563			
								1310	0.0	0.0563			

NOTES: To convert runoff in CFS to IR/HR, multiply by 0.36595407.



COSHOCTON, OHIO WATERSHED 123

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas 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			
P	1.46	3.55	2.39	0.75	0.88	1.35	2.81	1.78	2.26	0.97	1.77	0.28	27.01			
1971 Q	0.061	2.600	0.334	0.0	0.671	0.0	0.0	0.0	0.0	0.0	0.0	0.040	3.705			
STA AV P	2.72	2.42	3.82	3.46	3.05	4.13	4.48	2.79	2.59	2.22	2.56	2.42	37.00			
Q	0.372	0.396	0.426	0.269	0.137	0.265	0.213	0.071	0.045	0.016	0.010	0.115	2.334			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	5-6	0.276	5-6	0.217	5-6	0.377	5-6	0.669	2-22	0.760	2-19	0.981	2-18	1.275	2-15	2.197
MAXIMUMS FOR PERIOD OF RECORD																
	6-12	5.970	6-12	1.370	6-12	1.480	7-5	2.054	7-5	2.131	1-21	2.330	1-21	2.330	3-4	2.660
	1957	1957	1957	1957	1969	1969	1969	1969	1959	1959	1959	1959	1959	1964		

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. #45, p. 26.10-6. For geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage 1103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

Day	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 123				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.0	0.0	0.0	0.10	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0					
2	0.0	0.0	0.0	0.05	0.09	0.06	0.0	0.0	0.09	0.0	0.20	0.0					
3	0.10	0.0	0.30S	0.0	0.0	0.04	0.0	0.0	0.06	0.0	0.0	0.0					
4	0.82	0.45	0.30S	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0					
5	0.0	0.20	0.0	0.0	1.25	0.0	0.0	0.01E	0.0	0.0	0.0	0.13					
6	0.0	0.0	0.55	0.0	1.68	0.32	0.0	0.0	0.06	0.0	0.23M	0.99					
7	0.0	0.0	0.05M	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.52					
8	0.0	1.32S	0.05M	0.0	0.03	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	0.52	0.0	0.0	0.35	0.06M	0.0					
10	0.0	0.0	0.19S	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0					
11	0.0	0.0	0.10S	0.0	0.09	0.0	1.18	0.0	0.0	0.0	0.0	0.0					
12	0.0	0.25M	0.39	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
13	0.12	0.0	0.0	0.21	0.0	0.68	0.0	0.0	1.32	0.0	0.0	0.05E					
14	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.14	0.0					
15	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39					
16	0.04S	0.0	0.02S	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
17	0.05S	0.15	0.01S	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05M					
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	0.05	0.16S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0					
20	0.0	0.10	0.05S	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.10	0.14M					
21	0.0	0.0	0.0	0.08	0.0	0.08	0.0	0.05	0.0	0.0	0.0	0.0					
22	0.0	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0					
23	0.0	0.04S	0.04M	0.0	0.0	0.0	0.0	0.27	0.0	0.07	0.0	0.0					
24	0.08S	0.04S	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.10	0.15S	0.0					
25	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.32	0.10	0.0	0.0	0.0					
26	0.01S	0.0	0.0	0.0	0.0	0.0	0.15	0.15	0.16	0.0	0.0	0.21					
27	0.01S	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.15M	0.05E					
28	0.01S	0.0	0.0	0.04	0.0	0.05	0.11	0.0	0.0	0.0	0.0	0.13					
29	0.09M	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.58M	0.05E					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	1.02					
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	1.46	3.55	2.39	0.75	4.48	1.35	2.81	1.78	2.26	0.97	1.77	0.28	27.01				
STA AV	2.72	2.42	3.82	3.46	3.85	4.13	4.48	2.79	2.59	2.22	2.56	2.42	37.00				

NOTES: For daily air temperatures in the vicinity, see table for Watershed #95, p. 26.035-1. Precipitation amounts are for rain gage 1103. STA AV based on 33 yr period. Codes 'M' may reflect estimated storm duration rather than estimated rainfall amounts.

1971												
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	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	0.003	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.015	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 T	0.0	0.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.003	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.015	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	0.0042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0572	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.039	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.044	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	0.002
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	0.0001	0.0053	0.0006	0.0	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0001
INCEES	0.061	2.600	0.334	0.0	0.671	0.0	0.0	0.0	0.0	0.0	0.0	0.090
STA AV	0.372	0.396	0.426	0.269	0.137	0.265	0.213	0.071	0.045	0.076	0.010	0.115

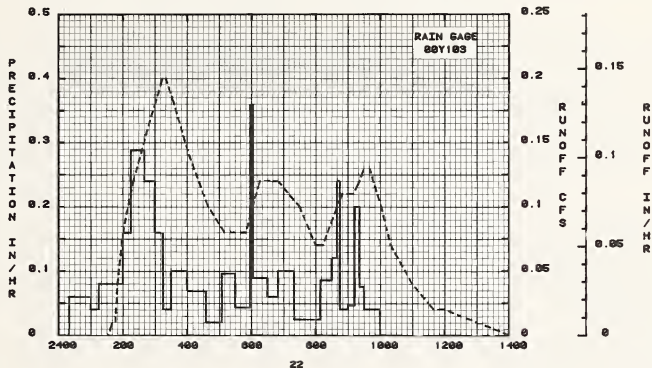
NOTES: To convert CFS to M³/DAY, multiply by 17.3735. STA AV based on 33 yr period.

1971												
ANTECEDENT CONDITIONS						COSHOCTON, OHIO WATERSHED 123						
Date	Rainfall	Runoff	Date	Time	Intensity	Runoff	Date	Time	Rate	Acc.	Runoff	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	(cfs)	(inches)
EVENT OF FEBRUARY 22, 1971												
2-22	EG 00103	0.0	2-22	EG 00103	20	0.0	0.0	2-22	132	0.0	0.0	
					100	0.0600	0.04		138	0.004	0.0	
					115	0.0400	0.05		140	0.006	0.0004	
					200	0.0800	0.11		146	0.012	0.0011	
					215	0.1600	0.15		150	0.035	0.0022	
WATERSHED CONDITIONS:												
Idle field of corn stalks.												
					240	0.2880	0.27		200	0.062	0.0093	
					300	0.2400	0.35		220	0.116	0.0334	
					315	0.1600	0.39		246	0.160	0.0770	
					330	0.0400	0.40		300	0.188	0.1061	
					400	0.1000	0.45		314	0.196	0.1382	
					435	0.0686	0.49		320	0.196	0.1524	
					505	0.0200	0.50		336	0.188	0.1891	
					530	0.0960	0.54		404	0.138	0.2435	
					558	0.0429	0.56		440	0.099	0.2950	
					603	0.3600	0.59		510	0.082	0.3278	
					630	0.0889	0.63		550	0.082	0.3674	
					650	0.0600	0.65		602	0.099	0.3805	
					720	0.1000	0.70		616	0.116	0.3988	
					809	0.0245	0.72		650	0.118	0.4472	
					830	0.0857	0.75		730	0.099	0.4996	
					840	0.1200	0.77		800	0.067	0.5296	
					845	0.2400	0.79		814	0.067	0.5409	
					900	0.0400	0.80		840	0.099	0.5669	
					913	0.0462	0.81		850	0.108	0.5794	
					922	0.2000	0.84		910	0.108	0.6055	
					930	0.0750	0.85		922	0.118	0.6219	
					1000	0.0400	0.87		930	0.128	0.6338	
									940	0.128	0.6492	
									1002	0.099	0.6793	
									1020	0.074	0.6981	

NOTES: To convert runoff in CFS to M³/DAY, multiply by 0.72389455.

1971 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 123							
PRECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (Inches)	Runoff (Inches)	Date No-Day	Time of Day	Intensity (In/hr)	Acc. (Inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (Inches)
EVENT OF FEBRUARY 22, 1971 (CONTINUED)										
							2-22	1100	0.041	0.7259
								1140	0.025	0.7418
								1200	0.020	0.7472
								1300	0.009	0.7577
								1400	0.004	0.7624
								1500	0.0	0.7638

NOTES: To convert runoff in cfs to in/hr, multiply by 0.72389455.



EVENT OF FEBRUARY 22, 1971
COSHOCTON, OHIO WATERSHED 123

COSHOCTON, OHIO WATERSHED 109

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

AREA: 1.69 acres

MONTHLY PRECIPITATION AND RUHOFF (inches)		COSHOCTON, OHIO WATERSHED 109												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P		1.33	3.39	2.33	0.76	4.80	1.24	3.03	1.91	2.34	1.00	2.25	5.04	29.42
Q		0.0	1.616	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.616
STA AV		2.61	2.29	3.36	3.44	3.87	4.12	4.47	2.74	2.62	2.16	2.47	2.32	36.46
Q		0.068	0.190	0.123	0.044	0.097	0.249	0.286	0.182	0.045	0.010	0.001	0.016	1.270

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUHOFF (inches) FOR SELECTED TIME INTERVALS																
Date	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	Date	Date	Date	Date	Date	Date				
1971	2-22	0.085	2-22	0.076	2-22	0.130	2-22	0.336	2-22	0.449	2-19	0.461	2-18	0.679	2-18	1.313

MAXIMUMS FOR PERIOD OF RECORD																
Date	Discharge	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days								
Date	Date	Date	Date	Date	Date	Date	Date	Date								
1941	5-17	4.340	6-29	0.820	6-28	1.090	7-5	1.416	3-4	1.920	3-4	2.170	3-3	2.550	3-1	2.660
1963	1941		1940		1969		1963		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Risc. Pub. 985, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Risc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage T102. Precipitation and runoff records began Nov. 1938. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971		COSHOCTON, OHIO WATERSHED 109												
DAILY PRECIPITATION (inches)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.05	0.10	0.05	0.0	0.0	0.15	0.0	0.0	0.22	0.0
3	0.14	0.0	0.30S	0.0	0.0	0.05	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
4	0.71	0.42	0.30S	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.24E	0.0	0.0	1.41	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.15
6	0.0	0.0	0.55	0.0	1.69	0.29	0.0	0.0	0.10E	0.0	0.28E	1.20	0.0	0.0
7	0.0	0.05S	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.54E	0.0	0.0
8	0.0	1.32S	0.05S	0.0	0.05	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	0.48	0.0	0.0	0.37E	0.06E	0.0	0.0	0.0
10	0.0	0.0	0.17S	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.10S	0.0	0.12	0.0	1.30	0.09	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.15E	0.38	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.11	0.0	0.0	0.18E	0.0	0.55	0.0	0.0	0.13	0.0	0.0	0.0	0.05	0.0
14	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.60	0.0
15	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0
16	0.04S	0.0	0.02S	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.04S	0.15	0.01S	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	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	0.0
19	0.0	0.05	0.15E	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.37	0.0	0.0	0.0
20	0.0	0.15	0.05S	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.12	0.15E	0.0	0.0
21	0.0	0.0	0.0	0.08	0.0	0.07	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.81E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0
23	0.0	0.05S	0.06S	0.0	0.0	0.0	0.0	0.33	0.0	0.10	0.0	0.0	0.0	0.0
24	0.09S	0.05S	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.07	0.12S	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.32	0.10	0.0	0.0	0.0	0.0	0.0
26	0.01S	0.0	0.0	0.0	0.0	0.0	0.16	0.18	0.15	0.0	0.0	0.0	0.45	0.0
27	0.01S	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.11E	0.0
28	0.01S	0.0	0.0	0.03	0.0	0.09	0.10	0.0	0.0	0.0	0.0	0.0	0.16	0.0
29	0.05E	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.98E	0.0	0.3E	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	1.20	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	0.0
TOTAL		1.33	3.39	2.33	0.76	4.80	1.24	3.03	1.91	2.34	1.00	2.25	5.04	29.42
STA AV		2.61	2.29	3.36	3.41	3.87	4.12	4.47	2.74	2.62	2.16	2.47	2.32	36.46

NOTES: For daily air temperatures in the vicinity, see table for Watershed #95, p. 26.035-1. Precipitation amounts are for rain gage T102. STA AV based on 34 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts.

1971 MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 109						
Day	Jan	Feb	Mar	Apr	May	Jan	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	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.010	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	0.011E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.002	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	0.032	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	0.0081	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	1.616	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.068	0.190	0.123	0.088	0.097	0.249	0.286	0.182	0.085	0.010	0.001	0.016

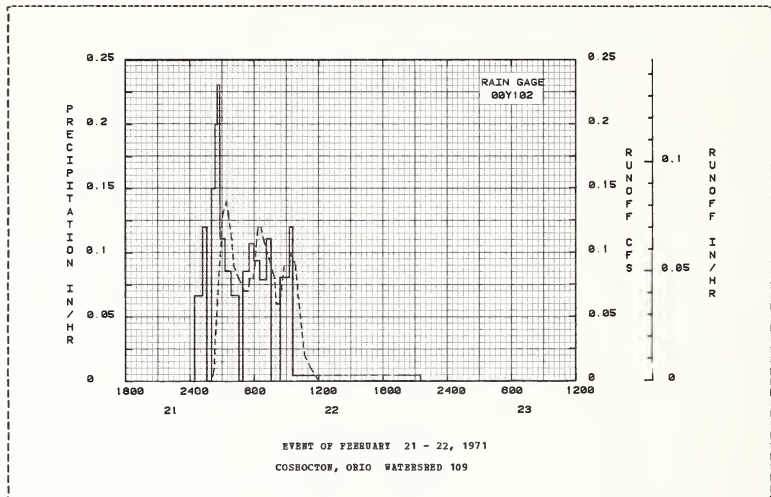
NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV based on 34 yr period, part-year records included.

1971 SELECTED RAINOFF EVENT				COSHOCTON, OHIO WATERSHED 109						
ANTECEDENT CONDITIONS		RAINFALL		RAINOFF		WATERSHED CONDITIONS:				
Date	Rainfall	Rainoff	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 21 - 22, 1971										
2-22	8G 00Y102 0.0	0.0	2-22	8G 00Y102 25	0.0	0.0	2-22	189	0.0	0.0
				110	0.0667	0.05		203	0.002	0.0001
				135	0.1200	0.10		215	0.014	0.0010
				200	0.0	0.10		223	0.035	0.0029
				220	0.1500	0.15		233	0.061	0.0076
				235	0.2000	0.20		285	0.098	0.0167
				288	0.2308	0.25		303	0.138	0.0368
				315	0.1111	0.30		323	0.145	0.0641
				350	0.0857	0.35		335	0.138	0.0805
				435	0.0667	0.40		353	0.113	0.1022
				455	0.0	0.40		405	0.098	0.1183
				530	0.0857	0.45		433	0.077	0.1377
				558	0.1071	0.50		503	0.069	0.1591
				630	0.0937	0.55		523	0.069	0.1726
				708	0.0789	0.60		537	0.077	0.1826
				735	0.1111	0.65		553	0.077	0.1947
				823	0.0	0.65		603	0.098	0.2031
				915	0.0808	0.72		613	0.113	0.2132
				935	0.1200	0.76		621	0.123	0.2224
				2130	0.0082	0.81		637	0.123	0.2416
								651	0.113	0.2578
								733	0.098	0.3003
								753	0.077	0.3170
								803	0.061	0.3237
								823	0.061	0.3356
								847	0.098	0.3538
								917	0.098	0.3814
								925	0.103	0.3891
								950	0.098	0.4132
								1010	0.061	0.4288

NOTES: To convert rainoff in CFS to IN/86, multiply by 0.58682576.

1971 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 109							
ATTACHED CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	acc.	Date	Time	Rate	acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 21 - 22, 1971 (CONTINUED)										
							2-22	1000	0.023	0.4407
								1114	0.007	0.4457
								1200	0.008	0.4482
								1220	0.002	0.4486
								1300	0.0	0.4492
								2400	0.0	0.4492

NOTES: To convert runoff in CFS to I³/HR, multiply by 0.58682576.



COSHOCTON, OHIO WATERSHED 106

LOCATION: Coshocton Co., Ohio; 10 mi. SE of Coshocton; Tuscarawas River, Auskignaw 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
P	1.52	3.34	2.26	0.72	4.28	1.10	2.96	1.96	2.07	1.03	1.75	4.45	27.44
Q	0.015	1.932	0.093	0.0	0.095	0.0	0.0	0.0	0.0	0.0	0.0	0.018	2.153
STA AV P	2.60	2.13	3.14	3.17	3.70	3.99	4.40	2.69	2.62	2.10	2.36	2.24	35.14
Q	0.228	0.271	0.113	0.128	0.116	0.277	0.300	0.195	0.150	0.077	0.028	0.076	1.900

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	2-22	0.075	2-22	0.070	2-12	0.137	2-12	0.382	2-12	0.587	2-12	0.739	2-11	0.739	2-12	1.310

MAXIMUMS FOR PERIOD OF RECORD																
1964	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
1962							1950	1960	1962	1962						

NOTES: Watershed conditions: Cover of 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, 20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26, 20-1 and 26, 30-3. Precipitation data from rain gage 115. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 106						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
1	0.0	0.0	0.0	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0							
2	0.0	0.0	0.0	0.01	0.07	0.08	0.0	0.0	0.07	0.0	0.21	0.0							
3	0.14	0.0	0.305	0.0	0.0	0.05	0.0	0.04E	0.07	0.0	0.0	0.0							
4	0.86	0.40E	0.305	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0							
5	0.0	0.25E	0.0	0.0	1.28E	0.0	0.0	0.0	0.0	0.0	0.0	0.12							
6	0.0	0.0	0.60	0.0	1.59E	0.18	0.0	0.0	0.05E	0.0	0.25E	1.07							
7	0.0	0.0	0.055	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.44							
8	0.0	1.32E	0.055	0.0	0.02	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	0.35	0.0	0.0	0.39	0.07E	0.0							
10	0.0	0.0	0.155	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0							
11	0.0	0.0	0.155	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0							
12	0.0	0.15E	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
13	0.10	0.0	0.0	0.20	0.0	0.24	0.0	0.0	1.25	0.0	0.0	0.0							
14	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.65							
15	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34							
16	0.08E	0.0	0.015	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
17	0.055	0.16	0.015	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E							
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	0.05	0.09E	0.0	0.0	0.0	0.0	0.26	0.44	0.0	0.30	0.0							
20	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.10	0.15E							
21	0.0	0.0	0.0	0.05	0.0	0.05	0.0	0.09	0.0	0.0	0.0	0.0							
22	0.0	0.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0							
23	0.0	0.04E	0.035	0.0	0.0	0.0	0.0	0.40	0.0	0.09	0.0	0.0							
24	0.10E	0.05E	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.08	0.13E	0.0							
25	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.71	0.07	0.0	0.0	0.0							
26	0.015	0.0	0.0	0.0	0.0	0.0	0.40	0.08	0.12	0.0	0.0	0.25							
27	0.015	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.05E							
28	0.015	0.0	0.0	0.03	0.0	0.31	0.10	0.0	0.0	0.0	0.0	0.12							
29	0.05E	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.55E	0.04E	0.0							
30	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	1.17							
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	1.52	3.34	2.26	0.72	4.28	1.10	2.96	1.96	2.07	1.03	1.75	4.45							
STA AV	2.60	2.13	3.14	3.17	3.70	3.99	4.40	2.69	2.62	2.10	2.36	2.24							

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 33 yr period, part-year records included. Codes *E* may reflect estimated storm duration rather than estimated rainfall amounts.

1971 BEAN 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	0.0	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	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	0.0	0.0	0.0
4	0.001	0.007	0.0	0.0	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	0.008	0.0	0.0	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	0.002	0.0	0.006	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	T	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	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	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	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	0.0	0.0	0.0
12	0.0	0.037	0.002	0.0	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	0.012	0.002E	0.0	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	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	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	0.0	0.0
17	0.0	0.007	0.0	0.0	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	0.006	0.0	0.0	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	0.016	0.0	0.0	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	0.009	0.0	0.0	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	0.0	0.0	0.0
22	0.0	0.025	0.0	0.0	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	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	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	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	0.0	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	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	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	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	0.0	0.001	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	0.0	0.0	0.0
MEAN	0.0	0.0045	0.0002	0.0	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCBS	0.015	1.932	0.093	0.0	0.095	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018
STA AV	0.228	0.271	0.113	0.128	0.116	0.277	0.300	0.195	0.150	0.017	0.028	0.076				

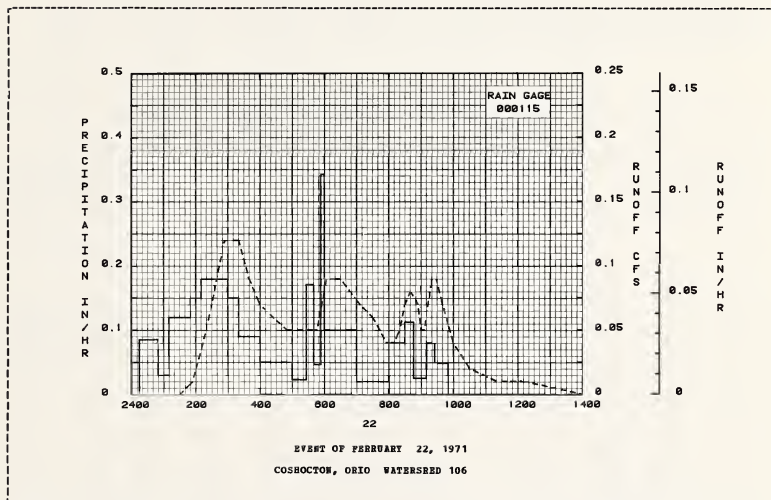
NOTES: To convert CFS to IY/DAY, multiply by 15.2575. STA AV based on 33 yr period, part-year records included.

1971 SELECTED RUNOFF EVENT												COSHOCTON, OHIO WATERSHED 106				
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.						
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)						
EVENT OF FEBRUARY 22, 1971																
RG 000115																
2-22	0.0	0.0	2-22	15	0.0	0.0	2-22	130	0.0	0.0						
				50	0.0857	0.05		158	0.012	0.0015						
				110	0.0300	0.06		214	0.041	0.0071						
				150	0.1200	0.14		230	0.067	0.0163						
				210	0.1500	0.19		244	0.099	0.0286						
WATERSHED CONDITIONS: Legumes and grass.																
				300	0.1800	0.34		254	0.118	0.0401						
				320	0.1500	0.39		320	0.118	0.0726						
				400	0.0900	0.45		340	0.090	0.0946						
				500	0.0500	0.50		400	0.074	0.1120						
				526	0.0231	0.51		450	0.046	0.1438						
				540	0.1714	0.55		520	0.046	0.1584						
				553	0.0462	0.56		546	0.053	0.1720						
				600	0.3429	0.60		600	0.082	0.1820						
				700	0.1000	0.70		604	0.090	0.1856						
				800	0.0200	0.72		630	0.090	0.2104						
				830	0.0800	0.76		706	0.067	0.2403						
				846	0.1125	0.79		730	0.060	0.2565						
				910	0.0250	0.80		756	0.041	0.2704						
				925	0.0800	0.82		810	0.041	0.2765						
				950	0.0480	0.84		820	0.053	0.2815						
								830	0.067	0.2879						
								840	0.082	0.2958						
								854	0.067	0.3069						
								900	0.053	0.3107						
								906	0.053	0.3141						
								920	0.090	0.3247						
								928	0.090	0.3323						
								940	0.067	0.3423						
								1000	0.041	0.3537						
								1030	0.025	0.3642						

NOTES: To convert runoff in CFS to IY/88, multiply by 0.63572791.

1971 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSEED 106							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.
No-Day	(Inches)	(Inches)	No-Day	of Day	(in/hr)	(Inches)	No-Day	of Day	(cfs)	(Inches)
EVENT OF FEBRUARY 22, 1971 (CONTINUED)										
							2-22	1120	0.012	0.3780
								1210	0.006	0.3768
								1400	0.002	0.3835
								1500	0.0	0.3841

NOTES: To convert runoff in CFS to I²/HR, multiply by 0.63572791.



COSHOCTON, OHIO WATERSHED 196

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

AREA: 303.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												COSHOCTON, OHIO WATERSHED 196													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1971	P 1.44	3.67	2.34	0.82	4.47	1.18	3.03	1.82	2.16	1.02	1.76	4.63	28.34												
	Q 0.959	2.846	2.445	0.360	1.926	0.120	0.091	0.050	0.056	0.045	0.067	0.494	9.460												
STA AV	P 2.66	2.40	3.49	3.36	3.81	4.20	4.39	2.70	2.64	2.19	2.48	2.38	36.69												
	Q 1.727	1.918	2.828	2.309	1.497	1.012	0.708	0.276	0.223	0.200	0.393	0.953	14.045												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Maximum Discharge				Maximum Volume for Selected Time Interval																					
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																	
1971	5-6	0.183	5-6	0.162	5-6	0.294	5-6	0.659	5-5	0.825	5-5	0.959	5-5	1.095	2-17	2.015									
MAXIMUMS FOR PERIOD OF RECORD																									
	6-12	3.720	6-12	1.310	6-12	1.440	7-5	2.106	7-5	2.453	1-21	2.920	1-20	3.210	3-4	4.630									
	1957		1957		1957		1969		1969		1959		1959		1964										

NOTES: Watershed conditions: Woods, 27%; grassland, 50%; miscellaneous, 23%; watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA Misc. Pub. 945, p. 26.30-5. For geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, OSDA Misc. Pub. 1070, pp. 26.30-1 and 26.30-3. Precipitation data from rain gage 108. Precipitation and runoff records began May 1937. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971 DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 196													
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	0.19	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.06	0.05	0.05	0.0	0.0	0.10	0.0	0.0	0.19	0.0												
3	0.11	0.0	0.30S	0.0	0.0	0.05	0.0	0.0	0.06	0.0	0.0	0.0	0.0												
4	0.34	0.49	0.30S	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0												
5	0.0	0.23	0.0	0.0	1.27	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.12												
6	0.0	0.0	0.60	0.0	1.72	0.25	0.0	0.0	0.04	0.0	0.0	0.10E	1.10												
7	0.0	0.0	0.02S	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.48												
8	0.0	1.32S	0.03S	0.0	0.02	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	0.86	0.0	0.0	0.40	0.06E	0.0	0.0												
10	0.0	0.0	0.17S	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.0	0.10S	0.0	0.10	0.0	0.99	0.08	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.24E	0.40	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
13	0.12	0.0	0.0	0.22	0.0	0.48	0.0	0.0	1.26	0.0	0.0	0.0	0.0												
14	0.08	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.62												
15	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39												
16	0.05S	0.0	0.02S	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.05S	0.15	0.01S	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E												
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	0.05	0.14S	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.30	0.0												
20	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.10	0.20E													
21	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0												
23	0.0	0.04S	0.10S	0.0	0.0	0.0	0.0	0.37	0.0	0.09	0.0	0.0	0.0												
24	0.07S	0.05S	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.06	0.15E	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.50	0.06	0.0	0.0	0.0	0.0												
26	0.01S	0.0	0.0	0.0	0.0	0.0	0.45	0.05	0.17	0.0	0.0	0.0	0.25												
27	0.02S	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.05													
28	0.01S	0.0	0.0	0.04	0.0	0.20	0.13	0.0	0.0	0.0	0.0	0.14	0.0												
29	0.08E	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.55E	0.05E													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	1.20	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	1.44	3.67	2.34	0.82	4.47	1.18	3.03	1.82	2.16	1.02	1.76	4.63													
STA AV	2.66	2.40	3.49	3.36	3.81	4.20	4.39	2.70	2.64	2.19	2.48	2.38													

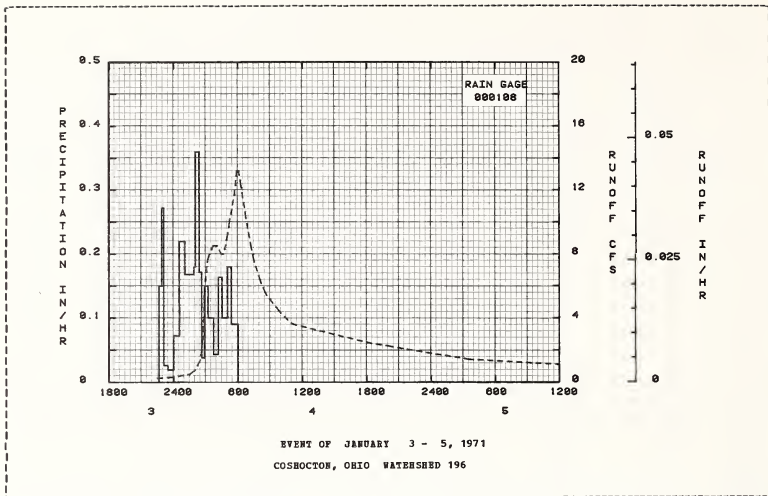
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 108. STA AV based on 35 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts.

1971					COSHOCTON, OHIO WATERSHED 196							
MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec
1	0.280	0.041	0.729	0.320	0.082	0.085	0.044	0.020	0.013	0.038	0.016	0.032
2	0.270	0.033	0.627	0.320	0.092	0.036	0.019	0.014	0.018	0.018	0.031	0.022
3	0.263	0.038	0.531	0.253	0.089	0.027	0.021	0.028	0.016	0.018	0.028	0.018
4	4.094	1.095	0.477	0.218	0.076	0.071	0.026	0.025	0.020	0.017	0.025	0.020
5	1.131	2.615E	0.452	0.203	0.336	0.062	0.026	0.023	0.015	0.013	0.024	0.025
6	0.661	0.283	2.365	0.203	12.191	0.075	0.027	0.016	0.014	0.011	0.026	0.355
7	0.494	0.198	3.053	0.196	1.812	0.069	0.023	0.014	0.013	0.010	0.033	0.374
8	0.417	0.159	1.230	0.176	2.241	0.058	0.021	0.014	0.012	0.010	0.027	0.089
9	0.406	0.148	0.468	0.164	1.093	0.052	0.029	0.015	0.011	0.020	0.024	0.056
10	0.383	0.166	0.872	0.148	0.825	0.048	0.028	0.024	0.010	0.028	0.023	0.056
11	0.388	0.114	0.851	0.138	0.681	0.046	0.215	0.031	0.010	0.021	0.023	0.052
12	0.308	0.161	1.207	0.138	0.700	0.046	0.048	0.018	0.010	0.016	0.021	0.044
13	0.290	0.540	4.316	0.157	0.505	0.090	0.031	0.014	0.154	0.013	0.020	0.040
14	0.449	0.242	1.707	0.165	0.417	0.067	0.029	0.012	0.022	0.022	0.024	0.273E
15	0.293	0.170	1.862	0.138	0.350	0.054	0.025	0.017	0.019	0.020	0.020	0.485E
16	0.218	0.148	1.294	0.128	0.384	0.046	0.022	0.016	0.017	0.016	0.020	0.100
17	0.196	1.008	1.006	0.150	0.347	0.039	0.022	0.012	0.018	0.015	0.020	0.058
18	0.176	1.544	0.834	0.128	0.283	0.036	0.022	0.010	0.017	0.015	0.028	0.046
19	0.149	4.733	0.797	0.114	0.243	0.034	0.023	0.010	0.066	0.013	0.029	0.042
20	0.133	4.981	0.763	0.110	0.204	0.033	0.023	0.025	0.022	0.013	0.027	0.066
21	0.143	1.227	0.729	0.119	0.176	0.034	0.020	0.020	0.018	0.013	0.026	0.055
22	0.153	9.199	0.678	0.119	0.159	0.034	0.017	0.018	0.017	0.030	0.022	0.041
23	0.143	1.784	0.593	0.106	0.143	0.031	0.015	0.038	0.015	0.027	0.017	0.036
24	0.138	0.912	0.505	0.098	0.145	0.030	0.081	0.015	0.015	0.030	0.018	0.036
25	0.153	1.032	0.463	0.091	0.250	0.030	0.037	0.036	0.033	0.026	0.022	0.036
26	0.130	1.144	0.452	0.088	0.148	0.031	0.072	0.050	0.026	0.020	0.022	0.057
27	0.084	1.589	0.429	0.090	0.133	0.031	0.036	0.027	0.023	0.018	0.035	0.066
28	0.064	0.921	0.417	0.130	0.123	0.029	0.026	0.022	0.021	0.017	0.032	0.093
29	0.080	0.383	0.091	0.110	0.059	0.025	0.022	0.022	0.021	0.016	0.117	0.068
30	0.088	0.339	0.085	0.101	0.030	0.027	0.020	0.0	0.016	0.064	3.055	
31	0.064	0.299	0.085	0.085	0.085	0.026	0.015	0.015	0.015	0.016	0.027	0.091
MEAN	0.3937	1.2937	1.0042	0.1528	0.7911	0.0511	0.0374	0.0207	0.0236	0.0186	0.0286	0.2028
INCREASE	0.959	2.846	2.445	0.360	1.926	0.120	0.091	0.050	0.056	0.045	0.067	0.494
STA AV	1.727	1.918	2.828	2.309	1.497	1.012	0.708	0.276	0.223	0.200	0.393	0.953

NOTES: To convert CFS to I_B/DAY, multiply by 0.0786. STA AV based on 35 yr period, part-year records included.

1971					COSHOCTON, OHIO WATERSHED 196							
SELECTED RUMOFF EVENT												
ANTECEDENT CONDITIONS					RAINFALL				RUMOFF			
Date	Rainfall	Rumoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JANUARY 3 - 5, 1971												
1-3	RG 000108	0.0	0.019	1-3	2237	0.0	0.0	1-3	2230	0.261	0.0	
					2253	0.1500	0.04		2400	0.318	0.0014	
					2304	0.727	0.09	1-4	130	5.503	0.0034	
					2327	0.0261	0.10		200	0.763	0.0044	
					2400	0.0182	0.11		230	1.400	0.0062	
WATERSHED CONDITIONS:												
Woods, 27%; grassland, 50%;				1-4	33	0.0727	0.15		245	2.860	0.0079	
Miscellaneous, 23%; watershed					103	0.2200	0.26		252	5.000	0.0095	
in improved practice.					153	0.1680	0.40		308	7.500	0.0151	
					203	0.1800	0.43		320	8.000	0.0202	
					223	0.3600	0.55		340	8.520	0.0292	
					237	0.1714	0.59		406	8.520	0.0413	
					253	0.0375	0.60		426	8.000	0.0503	
					313	0.1500	0.65		440	8.000	0.0564	
					343	0.1000	0.70		500	9.050	0.0657	
					411	0.0429	0.72		516	10.200	0.0741	
					433	0.1636	0.78		540	11.700	0.0884	
					503	0.1000	0.83		554	13.200	0.0979	
					523	0.1800	0.89		604	13.200	0.1051	
					603	0.0900	0.95		620	12.100	0.1161	
									646	10.200	0.1319	
									712	8.520	0.1452	
									732	7.500	0.1539	
									810	6.160	0.1681	
									840	5.400	0.1776	
									1000	4.300	0.1988	
									1100	3.620	0.2118	
									1800	2.460	0.2815	
									2.200	2.230	0.2969	
									2400	1.770	0.3231	
									1-5	330	1.400	0.3413

NOTES: To convert runoff in CFS to I_B/DAY, multiply by 0.00327305.



COSHOCTON, OHIO WATERSHED 95

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Hill 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	
1971 P	1.56	3.82	2.66	0.66	4.91	1.58	3.03	3.92	1.99	1.06	2.08	4.67	31.96															
Q	0.766	2.508	2.177	0.348	1.967	0.143	0.075	0.098	0.044	0.014	0.051	0.694	8.881															
STA AV P	2.76	2.45	3.44	3.39	3.75	4.20	4.40	2.21	2.53	2.21	2.57	2.47	36.78															
Q	1.458	1.661	2.402	1.943	1.227	0.787	0.580	0.192	0.124	0.181	0.351	0.808	11.714															

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	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.							
1971	5-6	0.168	5-6	0.155	5-6	0.302	5-6	0.628	5-6	0.772	5-5	0.906	5-6	1.062	2-18	1.793												

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	
6-28	0.610	6-28	0.560	6-28	0.950	7-5	1.873	3-4	2.320	3-4	2.780	3-4	3.490	7-5	4.292
1957	1957	1957	1957	1969	1963	1963	1963	1963	1963	1963	1963	1963	1963	1969	

NOTES: Watershed conditions: Cover of 15% cropland; 55% grassland; 26% woodland; 4% miscellaneous; watershed in 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. 1070, pp. 26.35-1 and 26.37-2. Precipitation data from rain gages 27, 39 and 91. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971 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		
1	27	18	-3	47	30	62	48	62	38	81	57	81	69	75	56	81	65	79	59	67	49	29	18		
2	39	22	13	-7	38	27	49	32	48	38	75	60	76	62	79	62	81	63	79	61	67	47	30	15	
3	40	24	28	9	27	15	46	30	51	38	80	64	80	55	75	67	65	81	61	58	37	31	19	1	
4	54	28	48	26	28	12	42	25	61	36	84	62	84	60	65	56	80	65	75	65	42	31	37	23	
5	23	14	51	31	37	17	42	28	62	46	86	64	83	67	73	53	85	65	71	53	54	27	47	31	
6	20	8	34	28	46	34	46	30	62	53	86	65	85	65	79	55	86	66	73	49	51	30	51	41	
7	15	3	30	25	34	22	52	26	66	49	81	60	87	65	81	57	81	66	53	41	30	19	51	41	
8	18	3	26	14	22	17	62	32	66	52	74	64	87	64	83	61	84	64	59	34	21	54	41	1	
9	29	13	18	-1	37	14	70	41	70	47	68	49	85	69	84	59	86	65	56	43	35	20	47	44	
10	39	23	15	-2	36	27	53	31	76	52	78	48	82	55	79	66	86	61	49	38	45	35	65	49	
11	38	26	40	14	33	28	68	30	71	52	80	59	71	61	76	61	75	65	55	35	52	34	58	35	
12	33	23	40	34	46	28	74	44	62	43	79	66	77	59	74	54	69	62	59	38	59	43	46	32	
13	48	22	34	11	46	38	76	36	54	39	82	66	82	61	79	53	62	58	70	41	59	46	41	29	
14	51	30	19	0	68	36	46	33	70	37	77	61	76	60	83	57	73	54	64	49	72	45	43	28	
15	30	19	27	19	64	44	54	30	74	49	72	59	79	67	79	59	78	57	71	46	64	61	63	43	
16	20	12	31	24	44	26	66	42	77	52	74	56	79	59	79	59	59	55	69	57	55	43	49	36	
17	21	5	40	24	30	24	68	46	79	50	77	57	75	59	83	55	66	57	69	51	59	39	37	18	
18	18	0	44	37	40	22	64	46	84	59	82	60	78	53	84	61	69	57	69	52	67	46	25	18	
19	13	-1	56	38	42	28	70	45	81	64	85	64	79	59	83	61	71	60	75	65	61	30	28	21	
20	20	8	50	34	31	27	71	46	75	57	85	63	73	55	78	65	71	51	74	52	39	29	40	33	
21	34	18	38	33	46	22	56	35	69	53	80	60	78	54	83	63	65	47	75	50	35	26	38	29	
22	38	23	58	32	42	27	50	34	63	43	77	62	82	57	77	61	68	47	61	55	28	21	32	23	
23	36	23	39	28	27	20	58	37	72	44	81	58	83	59	69	56	69	51	61	57	29	17	45	23	
24	37	24	31	28	30	18	50	38	78	56	85	63	71	58	71	47	61	46	57	54	32	26	49	33	
25	40	32	49	24	36	17	61	40	76	52	86	65	79	58	69	57	63	44	54	51	35	25	47	24	
26	42	10	55	40	42	24	50	38	56	49	80	63	81	67	75	61	72	53	63	51	35	23	53	45	
27	10	5	56	40	49	20	54	30	55	45	89	63	73	59	73	59	77	61	69	47	40	23	61	45	
28	12	4	45	35	60	39	62	44	63	43	96	65	77	53	69	55	61	73	53	38	33	60	23	1	
29	46	4			46	29	48	42	68	51	88	66	75	62	77	57	83	66	73	51	43	33	31	19	
30	44	-1			42	27	54	40	74	52	85	69	69	59	80	56	78	61	75	50	31	18	60	32	
31	9	-5			59	24			80	60			72	59	81	62			73	55				33	31
AV.	30	14	36	22	41	25	58	37	68	48	81	61	79	61	77	58	74	59	67	50	47	33	45	30	
REAR	22.4		29.1		33.2		47.2		58.2		71.2		69.7		67.9		66.6		56.6		40.0		37.7		
STA AV	33	19	36	20	46	28	58	42	68	49	79	58	81	62	82	61	75	58	66	44	50	33	37	22	

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV is for 33 yr (1939-71) record period.

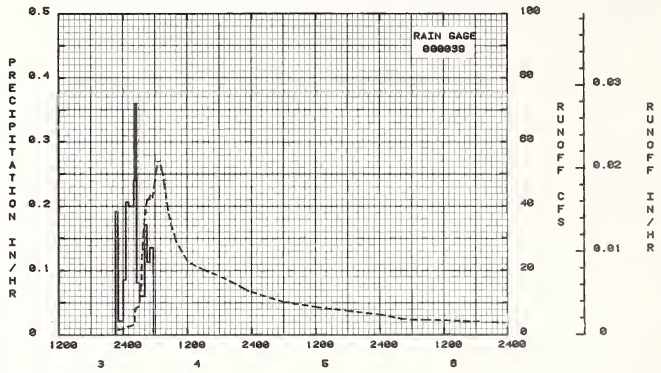
1971 DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 95													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.12	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.12	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.03	0.0	0.10	0.05	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.03	0.0	0.10	0.05	0.0	0.0	0.0	0.0	
3	0.12	0.0	0.305	0.0	0.0	0.15	0.0	0.26E	0.01	0.0	0.0	0.0	3	0.12	0.0	0.305	0.0	0.0	0.15	0.0	0.26E	0.01	0.0	0.0	
4	0.87	0.45	0.305	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	4	0.87	0.45	0.305	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	
5	0.0	0.31	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.31	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.12	
6	0.0	0.0	0.66	0.0	1.64	0.67	0.0	0.0	0.06	0.0	0.19H	1.11	6	0.0	0.0	0.66	0.0	1.64	0.67	0.0	0.0	0.06	0.0	0.19H	1.11
7	0.0	0.0	0.04H	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.06H	0.58	7	0.0	0.0	0.04H	0.0	0.54	0.0	0.0	0.0	0.0	0.06H	0.58	
8	0.0	1.32E	0.0	0.04H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	1.32E	0.0	0.04H	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	0.02	0.0	0.54	0.0	0.35	0.06H	0.0	0.0	9	0.0	0.0	0.0	0.0	0.02	0.0	0.54	0.0	0.35	0.06H	0.0	0.0
10	0.0	0.0	0.25E	0.0	0.0	0.0	0.14	0.99	0.0	0.0	0.0	0.0	10	0.0	0.0	0.25E	0.0	0.0	0.0	0.14	0.99	0.0	0.0	0.0	0.0
11	0.0	0.0	0.10E	0.0	0.07	0.0	1.24	0.13	0.0	0.0	0.0	0.0	11	0.0	0.0	0.10E	0.0	0.07	0.0	1.24	0.13	0.0	0.0	0.0	0.0
12	0.0	0.35H	0.38E	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.35H	0.38E	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.13	0.0	0.0	0.17	0.53	0.0	0.0	1.31	0.0	0.0	0.0	0.06	13	0.13	0.0	0.0	0.17	0.53	0.0	0.0	1.31	0.0	0.0	0.06	0.0
14	0.12	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.15	0.0	0.15	0.58	14	0.12	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.58
15	0.0	0.0	0.19E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	15	0.0	0.0	0.19E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42
16	0.05E	0.0	0.02E	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.05E	0.0	0.02E	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.05E	0.14	0.01E	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04H	17	0.05E	0.14	0.01E	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04H
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	0.05	0.18E	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.28	0.0	19	0.0	0.05	0.18E	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0
20	0.0	0.14	0.05E	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.10	0.20H	20	0.0	0.14	0.05E	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.10	0.20H
21	0.0	0.0	0.0	0.06	0.0	0.06	0.0	0.27	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.06	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.95	0.06E	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	22	0.0	0.95	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0
23	0.0	0.06E	0.08E	0.0	0.0	0.0	0.0	0.44	0.0	0.10	0.0	0.0	23	0.0	0.06E	0.08E	0.0	0.0	0.0	0.0	0.44	0.0	0.10	0.0	0.0
24	0.06E	0.06E	0.0	0.0	0.0	0.74	0.0	0.0	0.10	0.19H	0.0	0.0	24	0.06E	0.06E	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.10	0.19H	0.0
25	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.37	0.05	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.37	0.05	0.0	0.0	0.0
26	0.02E	0.0	0.0	0.0	0.03E	0.0	0.12	0.98	0.17	0.0	0.0	0.23	26	0.02E	0.0	0.0	0.0	0.03E	0.0	0.12	0.98	0.17	0.0	0.0	0.23
27	0.01E	0.14	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.20H	0.07	27	0.01E	0.14	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
28	0.02E	0.0	0.0	0.02E	0.0	0.04E	0.10	0.0	0.0	0.0	0.0	0.18	28	0.02E	0.0	0.0	0.02E	0.0	0.04E	0.10	0.0	0.0	0.0	0.0	0.18
29	0.09E	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.55H	0.05	29	0.09E	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.55H	0.05
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.02	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	1.02
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
TOTAL	1.56	3.02	2.66	6.66	4.91	1.58	3.03	3.92	1.99	1.06	2.08	4.67	TOTAL	1.56	3.02	2.66	6.66	4.91	1.58	3.03	3.92	1.99	1.06	2.08	4.67
STA IV	2.76	2.45	3.44	3.39	3.75	4.00	4.40	2.81	2.53	2.21	2.57	2.47	STA IV	2.76	2.45	3.44	3.39	3.75	4.00	4.40	2.81	2.53	2.21	2.57	2.47

NOTES: Precipitation amounts are for rain gages 27, 39 and 91 thru September 30, 1971. Rain gage 39 discontinued October 1, 1971. Rain gages 27 and 91 used from October 1, 1971 thru December 31, 1971. Codes "H" may reflect estimated storm duration rather than estimated rainfall amounts.

1971 RAN DAILY DISCHARGE (cfs)												COSHOCTON, OHIO WATERSHED 95													
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	1.760	0.259	7.085	2.665	0.702	0.720	0.149	0.034	0.045	0.025	0.085	0.763	1	1.760	0.259	7.085	2.665	0.702	0.720	0.149	0.034	0.045	0.025	0.085	0.763
2	1.680	0.190	5.785	2.855	0.812	0.705	0.164	0.020	0.032	0.020	0.568	0.193	2	1.680	0.190	5.785	2.855	0.812	0.705	0.164	0.020	0.032	0.020	0.568	0.193
3	1.605	0.254	4.380	2.115	0.802	1.083	0.063	0.158	0.040	0.018	0.194	0.164	3	1.605	0.254	4.380	2.115	0.802	1.083	0.063	0.158	0.040	0.018	0.194	0.164
4	23.277	8.781	4.600	1.890	0.450	0.676	0.039	0.192	0.087	0.055	0.097	0.170	4	23.277	8.781	4.600	1.890	0.450	0.676	0.039	0.192	0.087	0.055	0.097	0.170
5	8.900	17.532	3.855	1.765	2.036	0.554	0.035	0.094	0.029	0.010	0.077	0.197	5	8.900	17.532	3.855	1.765	2.036	0.554	0.035	0.094	0.029	0.010	0.077	0.197
6	4.391	2.379	11.522	1.640	98.110	1.853	0.033	0.031	0.017	0.008	0.055	4.012	6	4.391	2.379	11.522	1.640	98.110	1.853	0.033	0.031	0.017	0.008	0.055	4.012
7	3.260	1.465	26.986	1.565	16.861	0.975	0.028	0.011	0.017	0.006	0.129	0.074	7	3.260	1.465	26.986	1.565	16.861	0.975	0.028	0.011	0.017	0.006	0.129	0.074
8	2.940	1.530	11.857	1.465	22.244	0.615	0.021	0.005	0.015	0.005	0.097	2.369	8	2.940	1.530	11.857	1.465	22.244	0.615	0.021	0.005	0.015	0.005	0.097	2.369
9	2.940	1.395	8.719	1.365	11.085	0.523	0.837	0.001	0.011	0.024	0.118	1.405	9	2.940	1.395	8.719	1.365	11.085	0.523	0.837	0.001	0.011	0.024	0.118	1.405
10	2.775	1.215	8.156	1.240	7.679	0.502	0.325	1.482	0.009	0.021	0.100	1.180	10	2.775	1.215	8.156	1.240	7.679	0.502	0.325	1.482	0.009	0.021	0.100	1.180
11	2.505	1.180	8.318	1.150	5.914	0.451	3.805	0.472	0.004	0.053	0.092	0.982	11	2.505	1.180	8.318	1.150	5.914	0.451	3.805	0.472	0.004	0.053	0.092	0.982
12	2.250	1.711	8.797E	1.150	6.313	0.498	0.521	0.101	0.001	0.031	0.086	0.775	12	2.250	1.711	8.797E	1.150	6.313	0.498	0.521	0.101	0.001	0.031	0.086	0.775
13	2.137	3.439	22.019E	1.815	4.854	1.821	0.256	0.046	2.214	0.026	0.080	0.655	13	2.137	3.439	22.019E	1.815	4.854	1.821	0.256	0.046	2.214	0.026	0.080	0.655
14	3.408	2.247	12.400E	1.310	3.815	0.929	0.145	0.024	0.424	0.053	0.077	3.327	14	3.408	2.247	12.400E	1.310	3.815	0.929	0.145	0.024	0.424	0.053	0.077	3.327
15	2.145	1.570	12.432E	1.040	3.289	0.633	0.050	0.015	0.150	0.039	0.071	4.700E	15	2.145	1.570	12.432E	1.040	3.289	0.633	0.050	0.015	0.150	0.039	0.071	4.700E
16	1.680	1.395	9.777E	0.993	3.192	0.514	0.064	0.009	0.112	0.029	0.068	2.679E	16	1.680	1.395	9.777E	0.993	3.192	0.514	0.064	0.009	0.112	0.029	0.068	2.679E
17	1.605	8.891	7.584	1.197	3.108	0.394	0.052	0.003	0.100	0.026	0.076	1.990	17	1.605	8.891	7.584	1.197	3.108	0.394	0.052	0.003	0.100			

1971			SELECTED RONOFF EVENT			COSHOCTON, OHIO			WATERSHED 95		
ANTICIPATED 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 JANUARY 3 - 6, 1971											
1- 3	RG 000039 0.0	0.014	1- 3	RG 000039 2235	0.0	0.0	1- 3	2300	1.600	0.0	
				2300	0.1920	0.08		2400	1.850	0.0007	
				2304	0.1500	0.09	1- 4	145	3.060	0.0024	
				2400	0.0214	0.11		206	4.160	0.0029	
			1- 4	28	0.0857	0.15		218	8.280	0.0034	
WATERSHED CONDITIONS: Cover of 15% cropland; 55% grassland; 26% woodland; 4% miscellaneous; watershed in improved practice.											
				100	0.2062	0.26		252	8.800	0.0053	
				200	0.2000	0.46		310	12.200	0.0065	
				215	0.2400	0.52		324	15.700	0.0078	
				230	0.3600	0.61		326	20.400	0.0080	
				300	0.0800	0.65		330	23.500	0.0086	
				400	0.0600	0.71		340	28.700	0.0103	
				428	0.1714	0.79		350	33.000	0.0123	
				500	0.1125	0.85		410	37.700	0.0168	
				540	0.1350	0.94		414	38.900	0.0178	
								430	42.100	0.0220	
								444	42.100	0.0258	
								506	43.400	0.0318	
								530	42.700	0.0384	
								554	46.000	0.0453	
								614	51.000	0.0516	
								630	54.000	0.0570	
								650	54.000	0.0639	
								704	52.500	0.0687	
								730	49.600	0.0772	
								750	45.400	0.0833	
								800	44.000	0.0862	
								824	38.900	0.0926	
								900	34.200	0.1011	
								1000	28.700	0.1132	
								1100	25.800	0.1237	
								1200	23.000	0.1331	
								1330	21.300	0.1459	
								1550	19.600	0.1643	
								1820	17.900	0.1824	
								2010	16.400	0.1945	
								2150	14.900	0.2046	
								2320	13.500	0.2128	
								2400	13.200	0.2162	
							1- 5	600	10.100	0.2432	
								1300	8.280	0.2680	
								1800	7.300	0.2830	
								2400	6.170	0.2986	
							1- 6	400	4.820	0.3071	
								600	4.480	0.3107	
								930	4.480	0.3168	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00038589.



EVENT OF JANUARY 3 - 6, 1971
COSHOCTON, OHIO WATERSHED 95

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												
1971	P 1.34	3.55	1.90	0.50	4.50	1.02	2.77	1.82	2.26	0.96	1.50	4.44	26.56												
	Q 0.644	2.776	1.692	0.077	1.237	0.001	0.015	0.0	0.008	0.0	0.006	0.343	6.799												
STA AV	P 2.25	2.20	3.47	3.20	3.34	2.86	4.04	2.36	2.44	1.82	2.50	2.49	32.96												
	Q 0.823	1.235	2.211	1.436	0.706	0.263	0.492	0.078	0.068	0.166	0.443	7.967													
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Maximum Discharge				Maximum Volume for Selected Time Interval																					
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1971	5-6	0.203	5-6	0.160	5-6	0.280	5-6	0.600	5-5	0.713	5-5	0.797	5-5	0.903	2-17	2.016									
MAXIMUMS FOR PERIOD OF RECORD																									
	7-5	1.085	4-25	0.820	4-25	1.110	7-5	1.802	7-5	2.154	7-5	2.365	3-9	2.540	3-4	3.710									
	1969		1961		1961		1969		1969		1964														

NOTES: Watershed conditions: Cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 999, p. 24-30-4. 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 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971 DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 174													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.10E	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.02E	0.05	0.05	0.0	0.0	0.11	0.0	0.0	0.19	0.0												
3	0.05	0.0	0.30S	0.0	0.0	0.05	0.0	0.0	0.21	0.0	0.0	0.0	0.0												
4	0.25	0.47	0.30S	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0												
5	0.0	0.18	0.0	0.0	1.26	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.09												
6	0.0	0.0	0.50	0.0	1.72	0.27	0.0	0.0	0.04	0.0	1.08	1.11													
7	0.0	0.0	0.03S	0.0	0.50	0.0	0.0	0.0	0.0	0.0	1.08	4.47													
8	0.0	1.32S	0.03S	0.0	0.03E	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	0.39	0.0	0.0	0.34E	0.05E	0.0													
10	0.0	0.0	0.10S	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0													
11	0.0	0.0	0.10S	0.0	0.10	0.0	1.03	0.05	0.0	0.0	0.0	0.0													
12	0.0	0.35E	0.25	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
13	0.10	0.0	0.0	0.12	0.0	0.30	0.0	0.0	1.25	0.0	0.0	0.0													
14	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.53													
15	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45													
16	0.02S	0.0	0.0 S	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.03S	0.15E	0.01S	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E													
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	0.05	0.03E	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.30	0.0													
20	0.0	0.10	0.04S	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.10	0.15E													
21	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02E	0.0	0.0	0.0	0.0													
22	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0													
23	0.0	0.08S	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.10	0.0	0.0													
24	0.09S	0.08S	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.10	0.11E	0.0													
25	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.40	0.06	0.0	0.0	0.0													
26	0.01S	0.0	0.0	0.0	0.0	0.0	0.25	0.11	0.16	0.0	0.0	0.27													
27	0.01S	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.05E													
28	0.01S	0.0	0.0	0.07	0.0	0.19	0.08	0.0	0.0	0.0	0.0	0.12													
29	0.03E	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.50E	0.05E													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	1.10													
31	0.0																								
TOTAL	1.34	3.55	1.90	0.50	4.50	1.02	2.77	1.82	2.26	0.96	1.50	4.44													
STA AV	2.25	2.20	3.47	3.20	3.34	2.86	4.04	2.36	2.44	1.82	2.50	2.49													

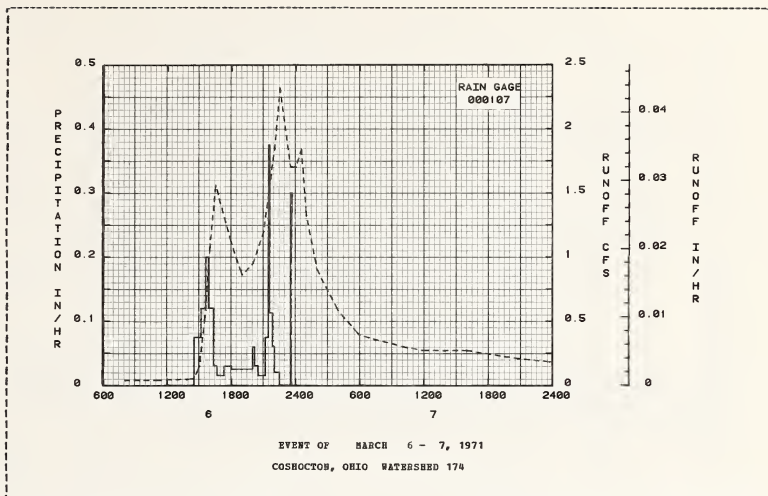
NOTES: For daily air temperatures in the vicinity, see table for Watershed #95, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 12 yr period, part-year records included. Codes 'E' say reflect estimated storm duration rather than estimated rainfall amounts.

1971 NEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 174												
Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1	0.017	0.002	0.073	0.021	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.019	0.001	0.055	0.050	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
3	0.020	0.0	0.042	0.015	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
4	0.751	0.223	0.036	0.011	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.131	0.582E	0.039	0.010	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.078	0.012E	0.512	0.010	1.761	0.0	0.0	0.0	0.0	0.0	0.0	0.050
7	0.068	0.005E	0.420	0.008	0.250	0.0	0.0	0.0	0.0	0.0	0.0	0.067
8	0.059	0.003E	0.182	0.007	0.289	0.0	0.0	0.0	0.0	0.0	0.0	0.005
9	0.047	0.003	0.084	0.006	0.107	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0 T
10	0.033	0.003	0.105	0.004	0.064	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.022	0.003	0.099	0.003	0.042	0.0	0.030	0.0	0.0	0.0	0.0	0.0
12	0.015	0.031	0.219	0.004	0.047	0.0	0.002	0.0	0.0	0.0	0.0	0.0
13	0.015	0.130	0.443	0.004	0.024	0.001	0.0	0.0	0.014	0.0	0.0	0.0
14	0.052	0.021	0.215	0.006	0.017	0.0	0.0	0.0	0.001	0.0	0.0	0.046
15	0.020	0.010	0.244	0.004	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.041
16	0.011	0.006	0.136	0.003	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.004
17	0.010	0.256	0.083	0.004	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
18	0.008	0.406	0.068	0.003	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.006	1.009	0.068	0.002	0.006	0.0	0.0	0.0	0.001	0.0	0.0	0.0
20	0.005	0.801	0.064	0.002	0.005	0.0	0.0	0.0	0.0 T	0.0	0.0	0.001
21	0.005	0.143	0.055	0.002	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.005	1.560	0.055	0.004	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.005	0.197	0.050	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.005	0.090	0.046	0.001	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.005	0.155	0.042	0.001	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.005	0.171	0.036	0.001	0.003	0.0	0.001	0.0	0.0	0.0	0.0	0.0 T
27	0.003	0.236	0.030	0.003	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.004
28	0.001	0.099	0.027	0.003	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.010
29	0.002	0.024	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.003
30	0.002	0.021	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.005	0.047
31	0.002	0.021	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040
MEAN	0.0461	0.2199	0.1211	0.0057	0.0085	0.0001	0.0011	0.0	0.0006	0.0	0.0005	0.0245
INCHES	0.644	2.776	1.692	0.077	1.237	0.001	0.015	0.0	0.008	0.0	0.006	0.343
STA AV	0.823	1.235	2.211	1.436	0.706	0.263	0.492	0.078	0.046	0.068	0.166	0.443

NOTES: To convert CFS to IN/DAY, multiply by 0.45079. STA AV based on 12 yr period, part-year records included.

1971 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 174												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Hainfall	Runoff		Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 6 - 7, 1971												
3-6	HC 000107	0.0	0.006	3-6	HC 000107			3-6	800	0.039	0.0	
					1430	0.0750	0.05		1100	0.039	0.0022	
					1535	0.1200	0.10		1430	0.055	0.0053	
					1550	0.2000	0.15		1500	0.147	0.0062	
					1620	0.1200	0.21		1530	0.514	0.0093	
WATERSHED CONDITIONS:												
	Cover of 15%, hardwoods; 2%,				1640	0.0300	0.22		1600	1.100	0.0169	
	reforested; 67%, grassland;				1720	0.0150	0.23		1630	1.560	0.0294	
	16%, miscellaneous; watershed				1800	0.0300	0.25		1800	1.100	0.0669	
	in improved practice.				2000	0.0250	0.30		1900	0.858	0.0853	
					2010	0.0600	0.31		2000	0.950	0.1023	
					2030	0.0300	0.32		2100	1.200	0.1225	
					2110	0.0150	0.33		2200	1.840	0.1510	
					2126	0.0750	0.35		2230	2.320	0.1705	
					2138	0.3750	0.40		2330	1.700	0.2083	
					2150	0.1125	0.43		2400	1.700	0.2243	
					2200	0.0600	0.44	3-7	30	1.840	0.2409	
					2230	0.0200	0.45		100	1.320	0.2557	
					2330	0.0	0.45		200	0.903	0.2766	
					2340	0.3000	0.50		400	0.581	0.3045	
									600	0.395	0.3228	
									1000	0.295	0.3487	
									1200	0.273	0.3594	
									1600	0.273	0.3799	
									2030	0.214	0.4005	
									2400	0.179	0.4134	

NOTES: To convert CFS to IN/HR, multiply by 0.01878267.



COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tuscarawas River, Muskingum 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
P	1.34	3.55	1.90	0.50	4.50	1.02	2.77	1.82	2.26	0.96	1.50	4.44	26.56
1971 Q	0.975	3.093	2.203	0.323	1.648	0.091	0.100	0.031	0.048	0.023	0.048	0.403	8.986
STA AV P	2.30	2.28	3.27	3.07	3.30	2.86	4.04	2.36	2.44	1.82	2.50	2.49	32.72
Q	1.282	1.743	3.038	2.136	1.375	0.546	0.665	0.145	0.104	0.161	0.323	0.734	12.250

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Date	Discharge		1 Hour		2 Hours		6 Hours		12 Hours		Time Interval		
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	1 Day	2 Days	
1971 5-6	0.169	5-6	0.144	5-6	0.256	5-6	0.572	5-5	0.719	5-5	0.817	5-5	0.923
7-5	0.959	4-25	0.680	4-25	0.930	7-5	1.620	7-5	1.979	7-5	2.269	3-9	2.600
1969	1961	1961	1961	1961	1969	1969	1969	1969	1969	1964	1964	1964	1964

MAXIMUMS FOR PERIOD OF RECORD													
7-5	0.959	4-25	0.680	4-25	0.930	7-5	1.620	7-5	1.979	7-5	2.269	3-9	2.600
1969	1961	1961	1961	1961	1969	1969	1969	1969	1969	1964	1964	1964	1964

NOTES: Watershed conditions: Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA 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 National Weather Service records at Coshocton, Ohio.

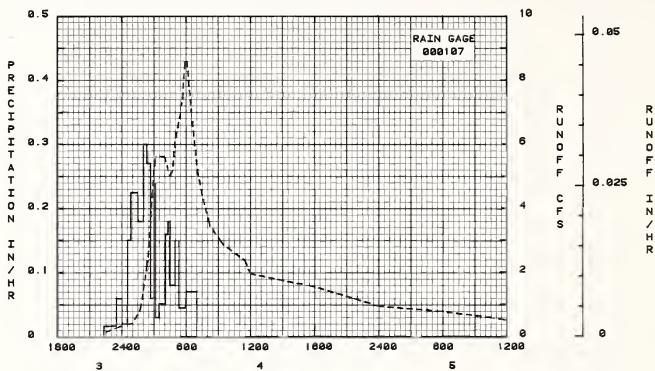
1971 DAILY PRECIPITATION (inches)					COSHOCTON, OHIO WATERSHED 194							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.10E	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.02E	0.05	0.05	0.0	0.0	0.11	0.0	0.19	0.0
3	0.05	0.0	0.30S	0.0	0.0	0.05	0.0	0.0	0.21	0.0	0.0	0.0
4	0.85	0.47	0.30S	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0
5	0.0	0.18	0.0	0.0	1.26	0.0	0.0	0.01E	0.0	0.0	0.0	0.09
6	0.0	0.0	0.50	0.0	1.72	0.27	0.0	0.0	0.04	0.0	0.10E	1.11
7	0.0	0.0	0.03S	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.10E	0.47
8	0.0	1.32S	0.03S	0.0	0.03E	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	0.39	0.0	0.0	0.30E	0.05H	0.0
10	0.0	0.0	0.10S	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0
11	0.0	0.0	0.10S	0.0	0.10	0.0	1.03	0.05	0.0	0.0	0.0	0.0
12	0.0	0.35E	0.35	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.10	0.0	0.0	0.12	0.0	0.30	0.0	0.0	1.25	0.0	0.0	0.0
14	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.53
15	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45
16	0.02S	0.0	0.0 S	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.03S	0.15E	0.01S	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05H
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	0.05	0.03E	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.30	0.0
20	0.0	0.10	0.04S	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.10	0.15E
21	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02E	0.0	0.0	0.0	0.0
22	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0
23	0.0	0.04S	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.10	0.0	0.0
24	0.09S	0.04S	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.10	0.11H	0.0
25	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.40	0.06	0.0	0.0	0.0
26	0.01S	0.0	0.0	0.0	0.0	0.0	0.25	0.11	0.16	0.0	0.0	0.27
27	0.01S	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.05H	0.05E
28	0.01S	0.0	0.0	0.07	0.0	0.19	0.08	0.0	0.0	0.0	0.0	0.12
29	0.03H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50H	0.05E	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	1.10
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	1.34	3.55	1.90	0.50	4.50	1.02	2.77	1.82	2.26	0.96	1.50	4.44
STA AV	2.30	2.28	3.27	3.07	3.30	2.86	4.04	2.36	2.44	1.82	2.50	2.49

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 12 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts.

1971 BEAN DAILY DISCHARGE (cfs)												COSHOCTON, OHIO WATERSHED 194													
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	0.198	0.037	0.322	0.189	0.047	0.042	0.027	0.010	0.002	0.008	0.006	0.012	1	0.198	0.037	0.322	0.189	0.047	0.042	0.027	0.010	0.002	0.008	0.006	0.012
2	0.176	0.060	0.289	0.189	0.052	0.042	0.018	0.008	0.010	0.008	0.016	0.008	2	0.176	0.060	0.289	0.189	0.052	0.042	0.018	0.008	0.010	0.008	0.016	0.008
3	0.169	2.373	0.274	0.142	0.047	0.042	0.018	0.008	0.006	0.008	0.006	0.008	3	0.169	2.373	0.274	0.142	0.047	0.042	0.018	0.008	0.006	0.008	0.006	0.008
4	2.620	1.429	0.294	0.121	0.037	0.037	0.021	0.008	0.005	0.006	0.006	0.010	4	2.620	1.429	0.294	0.121	0.037	0.037	0.021	0.008	0.005	0.006	0.006	0.010
5	0.645	2.119	0.229	0.121	0.251	0.037	0.021	0.005	0.004	0.003	0.006	0.019	5	0.645	2.119	0.229	0.121	0.251	0.037	0.021	0.005	0.004	0.003	0.006	0.019
6	0.402	0.102	1.248	0.121	6.373	0.045	0.018	0.004	0.007	0.001	0.010	0.236	6	0.402	0.102	1.248	0.121	6.373	0.045	0.018	0.004	0.007	0.001	0.010	0.236
7	0.289	0.065	1.838	0.112	0.908	0.042	0.018	0.004	0.007	0.001	0.011	0.209	7	0.289	0.065	1.838	0.112	0.908	0.042	0.018	0.004	0.007	0.001	0.011	0.209
8	0.258	0.058	0.660	0.094	1.205	0.029	0.021	0.004	0.012	0.001	0.010	0.043	8	0.258	0.058	0.660	0.094	1.205	0.029	0.021	0.004	0.012	0.001	0.010	0.043
9	0.229	0.072	0.458	0.086	0.600	0.021	0.034	0.004	0.011	0.012	0.010	0.024	9	0.229	0.072	0.458	0.086	0.600	0.021	0.034	0.004	0.011	0.012	0.010	0.024
10	0.201	0.086	0.417	0.086	0.439	0.021	0.018	0.013	0.002	0.009	0.010	0.024	10	0.201	0.086	0.417	0.086	0.439	0.021	0.018	0.013	0.002	0.009	0.010	0.024
11	0.176	0.079	0.417	0.086	0.343	0.021	0.138	0.007	0.003	0.004	0.010	0.028	11	0.176	0.079	0.417	0.086	0.343	0.021	0.138	0.007	0.003	0.004	0.010	0.028
12	0.164	0.130	0.733	0.086	0.352	0.021	0.029	0.004	0.005	0.003	0.010	0.028	12	0.164	0.130	0.733	0.086	0.352	0.021	0.029	0.004	0.005	0.003	0.010	0.028
13	0.169	0.485	2.658	0.090	0.258	0.021	0.021	0.004	0.110	0.002	0.008	0.28	13	0.169	0.485	2.658	0.090	0.258	0.021	0.021	0.004	0.110	0.002	0.008	0.28
14	0.274	0.182	1.011	0.096	0.215	0.021	0.021	0.004	0.023	0.006	0.006	0.176	14	0.274	0.182	1.011	0.096	0.215	0.021	0.021	0.004	0.023	0.006	0.006	0.176
15	0.164	0.103	1.105	0.065	0.176	0.021	0.021	0.005	0.012	0.002	0.006	0.171	15	0.164	0.103	1.105	0.065	0.176	0.021	0.021	0.005	0.012	0.002	0.006	0.171
16	0.152	0.079	0.717	0.058	0.202	0.021	0.021	0.004	0.010	0.002	0.006	0.061	16	0.152	0.079	0.717	0.058	0.202	0.021	0.021	0.004	0.010	0.002	0.006	0.061
17	0.142	0.696	0.524	0.065	0.187	0.018	0.021	0.002	0.010	0.003	0.006	0.032	17	0.142	0.696	0.524	0.065	0.187	0.018	0.021	0.002	0.010	0.003	0.006	0.032
18	0.121	0.997	0.437	0.065	0.142	0.015	0.021	0.002	0.010	0.003	0.006	0.028	18	0.121	0.997	0.437	0.065	0.142	0.015	0.021	0.002	0.010	0.003	0.006	0.028
19	0.103	2.619	0.437	0.058	0.121	0.015	0.021	0.002	0.003	0.003	0.008	0.028	19	0.103	2.619	0.437	0.058	0.121	0.015	0.021	0.002	0.003	0.003	0.008	0.028
20	0.086	2.840	0.437	0.058	0.112	0.015	0.015	0.015	0.018	0.004	0.012	0.032	20	0.086	2.840	0.437	0.058	0.112	0.015	0.015	0.015	0.018	0.004	0.012	0.032
21	0.086	0.603	0.397	0.058	0.103	0.015	0.010	0.010	0.012	0.004	0.010	0.029	21	0.086	0.603	0.397	0.058	0.103	0.015	0.010	0.010	0.012	0.004	0.010	0.029
22	0.086	5.198	0.359	0.058	0.094	0.015	0.012	0.008	0.004	0.018	0.008	0.018	22	0.086	5.198	0.359	0.058	0.094	0.015	0.012	0.008	0.004	0.018	0.008	0.018
23	0.086	0.827	0.307	0.058	0.086	0.015	0.015	0.023	0.004	0.018	0.006	0.018	23	0.086	0.827	0.307	0.058	0.086	0.015	0.015	0.023	0.004	0.018	0.006	0.018
24	0.086	0.420	0.258	0.058	0.086	0.015	0.060	0.006	0.008	0.013	0.006	0.024	24	0.086	0.420	0.258	0.058	0.086	0.015	0.060	0.006	0.008	0.013	0.006	0.024
25	0.086	0.572	0.258	0.052	0.136	0.015	0.018	0.022	0.007	0.006	0.008	0.032	25	0.086	0.572	0.258	0.052	0.136	0.015	0.018	0.022	0.007	0.006	0.008	0.032
26	0.103	0.648E	0.258	0.047	0.079	0.015	0.058	0.036	0.008	0.006	0.010	0.063	26	0.103	0.648E	0.258	0.047	0.079	0.015	0.058	0.036	0.008	0.006	0.010	0.063
27	0.089	0.959E	0.243	0.050	0.072	0.015	0.015	0.009	0.006	0.006	0.023	0.065	27	0.089	0.959E	0.243	0.050	0.072	0.015	0.015	0.009	0.006	0.006	0.023	0.065
28	0.052	0.465	0.229	0.069	0.065	0.016	0.015	0.004	0.006	0.006	0.010	0.074	28	0.052	0.465	0.229	0.069	0.065	0.016	0.015	0.004	0.006	0.006	0.010	0.074
29	0.094	0.201	0.047	0.058	0.027	0.015	0.004	0.008	0.008	0.006	0.079	0.042	29	0.094	0.201	0.047	0.058	0.027	0.015	0.004	0.008	0.008	0.006	0.079	0.042
30	0.106	0.176	0.047	0.052	0.021	0.010	0.004	0.008	0.006	0.006	0.036	1.342	30	0.106	0.176	0.047	0.052	0.021	0.010	0.004	0.008	0.006	0.006	0.036	1.342
31	0.054	0.164	0.047	0.047	0.047	0.010	0.010	0.003	0.008	0.006	0.026	0.246	31	0.054	0.164	0.047	0.047	0.047	0.010	0.010	0.003	0.008	0.006	0.026	0.246
BEAN	0.2472	0.8679	0.5583	0.0845	0.4177	0.0239	0.0253	0.0080	0.0124	0.0059	0.0127	0.1020	BEAN	0.2472	0.8679	0.5583	0.0845	0.4177	0.0239	0.0253	0.0080	0.0124	0.0059	0.0127	0.1020
INCRES	0.975	3.093	2.203	0.323	1.648	0.091	0.100	0.031	0.048	0.023	0.048	0.403	INCRES	0.975	3.093	2.203	0.323	1.648	0.091	0.100	0.031	0.048	0.023	0.048	0.403
STA AV	1.282	1.743	3.038	2.136	1.375	0.546	0.665	0.145	0.104	0.161	0.323	0.734	STA AV	1.282	1.743	3.038	2.136	1.375	0.546	0.665	0.145	0.104	0.161	0.323	0.734

NOTES: To convert CFS to IN/DAY, multiply by 0.12726. STA AV based on 12 yr period.

1971 SELECTED ROHOFF EVENT												COSHOCTON, OHIO WATERSHED 194											
ANTECEDENT CONDITIONS						RAINFALL						ROHOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	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)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF JANUARY 3 - 5, 1971																							
1-3	RG 000107		1-3	RG 000107	0.0	0.0	1-3	2230	0.164	0.0	1-3	2230	0.164	0.0	1-3	2230	0.164	0.0					
	0.0	0.020		2220	0.0	0.0		2400	0.340	0.0620		2400	0.340	0.0620		2400	0.340	0.0620					
				2330	0.0171	0.02		100	0.117	0.0040		100	0.117	0.0040		100	0.117	0.0040					
				2400	0.0600	0.05		145	0.880	0.0066		145	0.880	0.0066		145	0.880	0.0066					
				30	0.0200	0.06		225	2.360	0.0123		225	2.360	0.0123		225	2.360	0.0123					
				50	0.1500	0.11																	
WATERSHED CONDITIONS:																							
21%, hardwoods; 2%, re-																							
forested; 58%, grassland;																							
11%, cultivated; 8%, miscel-																							
laneous; watershed in																							
improved practice.																							
				130	0.2250	0.26		240	3.450	0.0162		240	3.450	0.0162		240	3.450	0.0162					
				200	0.1800	0.35		250	4.420	0.0197		250	4.420	0.0197		250	4.420	0.0197					
				220	0.3000	0.45		300	5.180	0.0239		300	5.180	0.0239		300	5.180	0.0239					
				240	0.2700	0.54		312	5.620	0.0296		312	5.620	0.0296		312	5.620	0.0296					
				300	0.0600	0.56		400	5.620	0.0534		400	5.620	0.0534		400	5.620	0.0534					
				310	0.2400	0.60		430	4.980	0.0675		430	4.980	0.0675		430	4.980	0.0675					
				330	0.0300	0.61		444	5.180	0.0738		444	5.180	0.0738		444	5.180	0.0738					
				405	0.0514	0.64		500	6.080	0.0818		500	6.080	0.0818		500	6.080	0.0818					
				420	0.1600	0.68		514	6.540	0.0856		514	6.540	0.0856		514	6.540	0.0856					
				430																			



EVENT OF JANUARY 3 - 5, 1971
 COSHOCTON, OHIO WATERSHED 194

COSHOCTON, OHIO WATERSHED 166

LOCATION: Coshocton County, Ohio; 10 miles NE of Coshocton; Walbonding River, Muskinga River Basin.

AREA: 79.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												COSHOCTON, OHIO				WATERSHED 166					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual								
1971 P	1.43	3.44	2.47	0.57	4.38	1.16	2.90	1.75	2.26	0.96	1.70	4.15	27.17								
Q	0.783	2.802	2.012	0.195	1.130	0.019	0.010	0.0	0.001	0.0	0.001	0.218	7.171								
STA AV P	2.60	2.23	3.31	3.21	3.84	3.82	4.32	2.70	2.61	2.04	2.48	2.32	35.49								
Q	1.070	1.419	2.079	1.325	1.272	0.222	1.168	0.090	0.029	0.053	0.201	0.820	9.749								
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																					
Maxima	Discharge				Maxima Volume for Selected Time Interval																
	Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.	Date	Vol.						
1971	5-6	0.115	5-6	0.095	5-6	0.165	5-6	0.364	2-22	0.475	2-19	0.660	2-18	0.912	2-17	1.978					
	7-27	0.921	7-5	0.539	7-5	0.866	7-5	1.593	7-5	1.876	7-5	2.054	7-5	2.249	7-4	3.215					
	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969					

NOTES: Watershed conditions: Cover of 48, hardwoods; 63, reforested; 67%, grassland; 17%, cultivated; 61, miscellaneous. Watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 26-41-7. Precipitation records began 1940. Runoff records began January 1, 1967. Precipitation data from rain gage 100. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1971	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO				WATERSHED 166				
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec								
1	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0								
2	0.0	0.0	0.0	0.02	0.06	0.05	0.0	0.0	0.09	0.0	0.19	0.0	0.0								
3	0.12	0.0	0.308	0.0	0.0	0.05	0.0	0.0	0.078	0.0	0.0	0.0	0.0								
4	0.82	0.35	0.308	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0								
5	0.0	0.20	0.0	0.0	1.25	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.25								
6	0.0	0.0	0.65	0.0	1.66	0.29	0.0	0.0	0.06E	0.0	0.23H	0.0	0.87								
7	0.0	0.0 T	0.05E	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.504								
8	0.0	1.32S	0.05E	0.0	0.0 T	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	0.51	0.0	0.0	0.33	0.06H	0.0	0.0								
10	0.0	0.0	0.25S	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0 T								
11	0.0	0.0	0.10S	0.0	0.06	0.0	1.17	0.0 T	0.0	0.0	0.0	0.0	0.0								
12	0.0	0.30H	0.35E	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
13	0.07	0.0 T	0.0	0.15	0.0	0.45	0.0	0.0	1.32	0.0	0.0	0.0	0.0 T								
14	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.60								
15	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35								
16	0.04S	0.0	0.01S	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
17	0.05S	0.06	0.01S	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05H								
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	0.02	0.15S	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.35	0.0	0.0								
20	0.0	0.10	0.0 T	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.07	0.07	0.100								
21	0.0	0.0	0.0	0.05	0.0	0.03	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0								
22	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0								
23	0.0	0.04S	0.10S	0.0	0.0	0.0	0.0	0.28	0.0	0.08	0.0	0.0	0.13								
24	0.09S	0.05S	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.11	0.12H	0.0	0.0								
25	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.25	0.10	0.0	0.0	0.0	0.0								
26	0.01S	0.0	0.0	0.0	0.0	0.0	0.16	0.24	0.17	0.0	0.0	0.0	0.25								
27	0.01S	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.15H	0.05E	0.0								
28	0.01S	0.0	0.0	0.02E	0.0	0.15	0.07	0.0	0.0	0.0	0.0	0.0	0.13								
29	0.09H	0.0	0.0	0.0	0.0	0.14	0.0 T	0.0	0.0	0.53H	0.0 T	0.0	0.0								
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0 T	0.10	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	1.43	3.44	2.47	0.57	4.38	1.16	2.90	1.75	2.26	0.96	1.70	4.15									
STA AV	2.60	2.23	3.31	3.21	3.84	3.82	4.32	2.70	2.61	2.04	2.48	2.32									

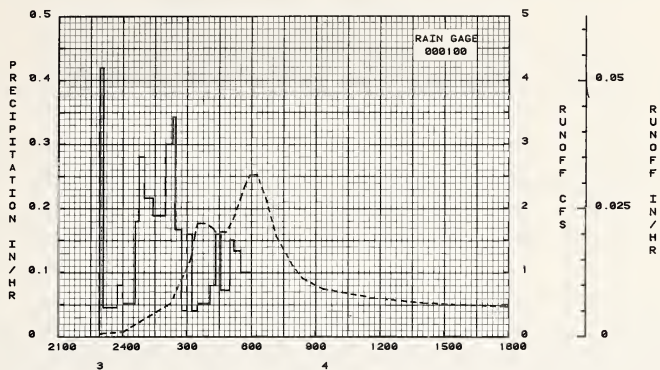
NOTES: For daily air temperatures for the vicinity, see table for Watershed 9-95, p. 26.035-1. Precipitation amounts are for rain gage 100. STA AV based on 32 yr period (1940-1971). Codes 'H' may reflect estimated storm duration rather than estimated rainfall amounts.

1971 REAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO					WATERSHED 166				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.058	0.002	0.172	0.072	0.005	0.004	0.001	0.0	0.0	0.0	0.0	0.0		
2	0.054	0.001	0.137	0.072	0.006	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0		
3	0.050	0.001	0.104	0.047	0.006	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0		
4	0.775	0.485	0.087	0.036	0.004	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0		
5	0.265	0.879	0.082	0.033	0.055	0.003	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.200	0.046	0.537	0.033	1.644	0.003	0.0	0.0	0.0	0.0	0.0	0.011		
7	0.131	0.030	0.633	0.033	0.318	0.003	0.0	0.0	0.0	0.0	0.0	0.046		
8	0.104	0.024	0.387	0.027	0.430	0.002	0.0	0.0	0.0	0.0	0.0	0.009		
9	0.104	0.019	0.294	0.024	0.217	0.002	0.001	0.0	0.0	0.0	0.0	0.002		
10	0.092	0.013	0.255	0.019	0.172	0.002	0.0	0.0	0.0	0.0	0.0	0.002		
11	0.087	0.013	0.216	0.015	0.146	0.002	0.015	0.0	0.0	0.0	0.0	0.001		
12	0.077	0.041	0.271	0.015	0.155	0.002	0.001	0.0	0.0	0.0	0.0	0.001		
13	0.072	0.161	0.763	0.022	0.105	0.004	0.001	0.0	0.003	0.0	0.0	0.001		
14	0.121	0.057	0.380	0.025	0.077	0.002	0.001	0.0	0.0 T	0.0	0.0	0.040		
15	0.068	0.024	0.398	0.015	0.058	0.002	0.001	0.0	0.0	0.0	0.0	0.055		
16	0.043	0.017	0.287	0.015	0.064	0.002	0.001	0.0	0.0	0.0	0.0	0.013		
17	0.036	0.262	0.226	0.017	0.051	0.002	0.0 T	0.0	0.0	0.0	0.0	0.006		
18	0.033	0.475	0.181	0.015	0.036	0.002	0.0 T	0.0	0.0	0.0	0.0	0.004		
19	0.020	1.703	0.165	0.009	0.030	0.002	0.0 T	0.0	0.0	0.0	0.0	0.003		
20	0.015	1.187	0.157	0.009	0.021	0.001	0.0 T	0.0	0.0	0.0	0.0	0.008		
21	0.021	0.360	0.143	0.011	0.017	0.001	0.001	0.0	0.0	0.0	0.0	0.006		
22	0.030	1.904	0.129	0.011	0.013	0.001	0.0 T	0.0	0.0	0.0	0.0	0.004		
23	0.027	0.380	0.116	0.011	0.009	0.001	0.0	0.0	0.0	0.0	0.0	0.003		
24	0.021	0.236	0.098	0.009	0.013	0.001	0.003	0.0	0.0	0.0	0.0	0.003		
25	0.027	0.257	0.087	0.008	0.043	0.001	0.0 T	0.0	0.0	0.0	0.0	0.003		
26	0.027	0.250	0.082	0.008	0.017	0.002	0.001	0.0	0.0	0.0	0.0	0.009		
27	0.016	0.299	0.077	0.006	0.013	0.002	0.001	0.0	0.0	0.0	0.0	0.009		
28	0.006	0.197	0.077	0.016	0.009	0.002	0.001	0.0	0.0	0.0	0.0	0.015		
29	0.006	0.072	0.006	0.008	0.008	0.001	0.0 T	0.0	0.0	0.0	0.004	0.009		
30	0.008	0.062	0.005	0.006	0.006	0.001	0.0 T	0.0	0.0	0.0	0.0 T	0.009		
31	0.005	0.058	0.005	0.005	0.005	0.001	0.0 T	0.0	0.0	0.0	0.0	0.097		
REAN	0.0840	0.3330	0.2160	0.0216	0.1212	0.0022	0.0011	0.0	0.0001	0.0	0.0001	0.0238		
INCHES	0.783	2.802	2.012	0.195	1.130	0.019	0.010	0.0	0.001	0.0	0.001	0.218		
STA AV	1.070	1.419	2.079	1.325	1.272	0.222	1.168	0.090	0.029	0.053	0.201	0.820		

NOTES: To convert CFS to IR/DAY, multiply by 0.300526. STA AV based on 5 yr period (1967-1971).

1971 SELECTED SUBOFF EVENT					COSHOCTON, OHIO					WATERSHED 166				
SUBOFF CONDITIONS					RAINFALL					SUBOFF				
Date Mo-Day	Rainfall (inches)	Suboff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)				
EVENT OF JANUARY 3 - 4, 1971														
1-3	EG 000100		1-3	8G 000100	0.0	0.0	1-3	2300	0.050	0.0				
	0.0	0.014		2255	0.0	0.0		2400	0.067	0.0607				
				2305	0.4200	0.07	1-4	100	0.275	0.0028				
				2345	0.0450	0.10		216	0.525	0.0691				
				2400	0.0800	0.12		232	0.735	0.0112				
			1-4	35	0.0514	0.15								
WATERSHED CONDITIONS:														
Cover of 48, hardwoods; 68, reforested; 67X, grassland; 17X, cultivated; 6X, miscellaneous; waterbed in improved practice.														
				45	0.1800	0.18		250	0.950	0.0144				
				100	0.2800	0.25		310	1.200	0.0189				
				125	0.2160	0.34		322	1.560	0.0224				
				200	0.1886	0.45		330	1.770	0.0252				
				220	0.3000	0.55		350	1.770	0.0326				
				227	0.3429	0.59		410	1.700	0.0398				
				245	0.1667	0.64		420	1.630	0.0433				
				300	0.0400	0.65		450	1.630	0.0535				
				315	0.1600	0.69		510	1.840	0.0607				
				330	0.0400	0.70		530	2.160	0.0690				
				405	0.0514	0.73		540	2.340	0.0737				
				420	0.0800	0.75		556	2.520	0.0818				
				435	0.1600	0.79		616	2.520	0.0923				
				500	0.0720	0.82		640	2.160	0.1040				
				512	0.1500	0.85		710	1.560	0.1156				
				530	0.1333	0.89		756	1.100	0.1284				
				600	0.1000	0.94		824	0.903	0.1383				
								920	0.735	0.1439				
								1140	0.595	0.1633				
								1400	0.525	0.1797				
								1800	0.460	0.2044				
								2400	0.315	0.2335				

NOTES: To convert runoff in CFS to IR/H8, multiply by 0.01252191.



EVENT OF JANUARY 3 - 4, 1971
COSBOCTON, OHIO WATERSHED 166

STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. E. 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
1971 P	1.46	1.48	0.05	2.58	2.92	5.38	5.73	0.92	9.89	3.51	0.55	2.52	36.99
Q	0.488	1.047	0.046	0.482	0.027	1.999	0.064	0.0	1.732	0.949	0.060	1.689	8.543
STA AV P	0.63	1.04	1.89	2.49	4.77	4.06	4.01	2.70	3.96	2.44	1.48	1.18	30.65
Q	0.140	0.308	0.790	0.846	1.614	0.954	0.574	0.062	0.445	0.596	0.346	0.270	6.948

ANNUAL MAXIMUM DISCHARGE (cu/hrs) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	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					
1971	9-24	0.670	9-24	0.540	9-24	0.813	9-24	1.044	12-14	1.156	12-14	1.250	12-14	1.321	9-17	1.607
	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	1951	1951	1951	1959	1951	1959	1951	1959	1959	1959	1959	1959

NOTES: Watershed conditions: All native grass pasture located in region (R-80) of the Central Rolling Red Prairies land resource area. The pasture was in poor condition at the beginning of the growing season due to a rainfall deficit and heavy grazing during 1970. In 1971 the precipitation total was 6.34 inches above station average, with moderate grazing. Vegetative cover measured in September was 0.66 tons per acre more than that measured at the same time in 1970. There was a gain of 2.22 inches in soil moisture for the year. 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 1955 through 1971. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1971 DAILY PRECIPITATION (inches)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.05	0.0	0.0	0.36	1.98	0.0	0.0	0.0	0.0	0.0
2	0.78	0.0	0.0	0.0	0.0	1.76	0.0	0.0	0.0	1.23	0.0	0.04
3	0.68	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
4	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	1.37	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.29	0.0	0.0	0.0
6	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	1.96	0.0	0.0	0.02
7	0.0	0.04	0.0	0.0	0.0	0.0	1.43	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.01	0.0	0.0	0.13	0.17
9	0.0	0.0	0.0	0.0	0.14	0.09	0.0	0.0	0.0	0.0	0.0	0.07
10	0.0	0.0	0.0	0.0	0.35	0.06	1.73	0.43	0.0	0.0	0.0	0.01
11	0.0	0.04	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.84	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	0.23	0.0	0.0	0.0	1.61
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
16	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	2.35	0.0	0.0	0.0
18	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	1.74	0.79	0.0	0.0
19	0.0	0.0	0.0	0.89	0.0	0.0	0.09	0.0	0.0	0.31	0.0	0.0
20	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0
21	0.0	1.05	0.0	0.0	0.0	0.08	0.0	0.24	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	1.29	0.58	0.0	0.03	0.01	0.0	0.0	0.31	0.0
23	0.0	0.0	0.0	0.0	0.13	0.0	0.80	0.0	0.04	0.0	0.10	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.92	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0
26	0.0	0.0	0.0	0.06	0.88	0.0	0.31	0.0	0.0	0.58	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	0.58	0.0	0.0	0.0	0.01	0.0
29	0.0	0.0	0.0	0.05	0.11	0.0	0.0	0.0	0.0	0.0	0.51	0.0
30	0.0	0.0	0.0	0.0	0.04	0.03	0.0	0.0	0.0	0.07	0.0	0.0
31	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.46	1.48	0.05	2.58	2.92	5.38	5.73	0.92	9.89	3.51	0.55	2.52
STA AV	0.63	1.04	1.89	2.49	4.77	4.06	4.01	2.70	3.96	2.44	1.48	1.18

NOTES: Amounts recorded at rain gage R-1 used for current monthly totals and for runoff events. STA AV based on 21 yr (1951-71) record period.

1971 MEAN DAILY DISCHARGE (cfs)												STILLWATER, OKLAHOMA WATERSHED #-1				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.017	0.0	0.0	0.032	0.008	0.0	0.0	0.0	0.0	0.0				
2	0.015	0.0	0.015	0.0	0.0	0.446	0.001	0.0	0.0	0.294	0.0	0.0				
3	0.225	0.0	0.001	0.0	0.0	0.053	0.0	0.0	0.0	0.038	0.0	0.0				
4	0.054	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.002	0.0	0.0				
5	0.020	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	0.044	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.286	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.135	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.004	0.036	0.0	0.0	0.0	0.0	0.010				
11	0.0	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.008				
12	0.0	0.0	0.0	0.0	0.0	0.352	0.0	0.0	0.0	0.0	0.0	0.006				
13	0.0	0.0	0.0	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.777				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.139				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.019				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.228	0.004	0.0	0.015				
19	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.008				
20	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.001	0.097	0.0	0.008				
21	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.008				
22	0.0	0.050	0.0	0.259	0.0	0.0	0.0	0.0	0.0	0.015	0.006	0.002				
23	0.0	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0	0.008	0.024	0.0				
24	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.767	0.002	0.010	0.0				
25	0.0	0.573	0.0	0.001	0.0	0.0	0.0	0.0	0.108	0.0	0.002	0.0				
26	0.0	0.067	0.0	0.0	0.004	0.0	0.0	0.0	0.017	0.053	0.0	0.0				
27	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.080	0.0	0.0				
28	0.0	0.017	0.0	0.0	0.0	0.0	T	0.0	0.015	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.062				
30	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.067				
31	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.019				
MEAN	0.0101	0.0262	0.0010	0.0113	0.0006	0.0468	0.0014	0.0	0.0405	0.0215	0.0014	0.0382				
INCHES	0.448	1.047	0.046	0.482	0.027	1.999	0.064	0.0	1.732	0.949	0.060	1.689				
STA AV	0.140	0.308	0.790	0.846	1.614	0.954	0.574	0.062	0.445	0.596	0.346	0.270				

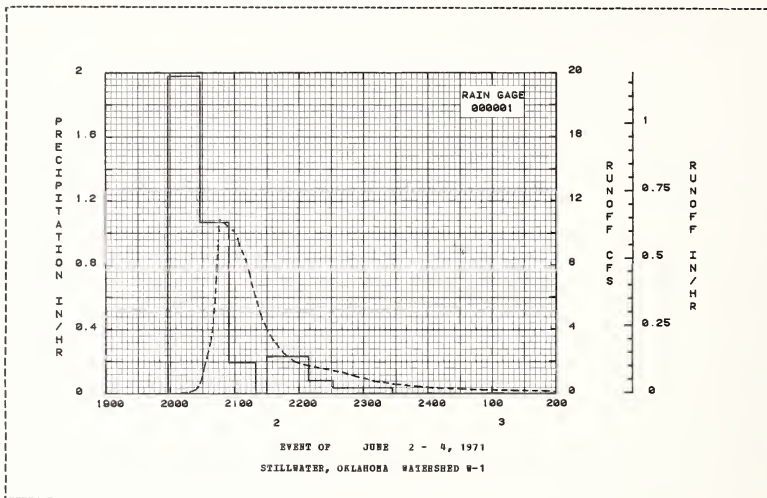
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.425249.

1971 SELECTED SUBOFF EVENTS												STILLWATER, OKLAHOMA WATERSHED #-1			
AFFECTED CONDITIONS				RAINFALL				SUBOFF							
Date	Rainfall	Ranoff	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 2 - 4, 1971															
6-2	RG 000001														
	0.0	0.006	6-2	1958	0.0	0.0	6-2	2006	0.0	0.0					
				2028	1.9800	0.99		2008	0.017	0.0					
				2055	1.0667	1.47		2010	0.037	0.0001					
				2120	0.1920	1.55		2016	0.054	0.0004					
				2130	0.0	1.55		2018	0.071	0.0005					
WATERSHED CONDITIONS:															
100% of area in native grass															
pasture; pasture in poor															
condition.															
				2209	0.2308	1.70		2019	0.101	0.0006					
				2232	0.0783	1.73		2020	0.136	0.0007					
				2327	0.0327	1.76		2021	0.163	0.0008					
								2022	0.205	0.0010					
								2024	0.261	0.0015					
								2025	0.380	0.0018					
								2026	0.431	0.0022					
								2028	0.631	0.0033					
								2030	1.073	0.0050					
								2032	1.623	0.0077					
								2035	2.374	0.0136					
								2038	3.216	0.0219					
								2040	4.126	0.0291					
								2041	5.035	0.0336					
								2042	5.978	0.0391					
								2043	7.039	0.0455					
								2044	8.049	0.0529					
								2046	10.823	0.0716					
								2047	10.851	0.0823					
								2051	10.591	0.1247					
								2055	10.391	0.1662					
								2102	9.971	0.2368					
								2105	9.203	0.2653					
								2111	8.319	0.3173					
								2114	7.544	0.3409					

NOTES: To convert runoff in CFS to IN/H8, multiply by 0.059385.

1971			SELECTED RUSOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1					
ANTECEDENT CONDITIONS			RAINFALL			RUSOFF					
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Date (cfs)	Acc. (inches)	
EVENT OF JUNE 2 - 4, 1971 (CONTINUED)											
							6- 2	2116	6.908	0.3552	
								2121	5.725	0.3864	
								2126	4.631	0.4120	
								2131	3.907	0.4332	
								2136	3.334	0.4511	
								2146	2.492	0.4799	
								2156	1.970	0.5020	
								2210	1.701	0.5274	
								2241	1.303	0.5735	
								2256	1.002	0.5906	
								2310	0.761	0.6028	
								2330	0.556	0.6198	
								2350	0.406	0.6253	
								2400	0.360	0.6291	
							6- 3	10	0.320	0.6325	
								31	0.261	0.6385	
								51	0.205	0.6431	
								120	0.163	0.6484	
								149	0.123	0.6525	
								245	0.089	0.6584	
								326	0.071	0.6616	
								446	0.058	0.6665	
								714	0.037	0.6732	
								1300	0.017	0.6824	
								2400	0.008	0.6906	
							6- 4	1240	0.0	0.6936	

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



STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. W. of Stillwater; Slack 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	
1971 P	1.46	1.80	0.05	2.70	2.86	5.19	5.33	1.07	9.09	3.24	0.58	2.25	35.62	
Q	0.108	0.419	0.016	0.183	0.002	0.954	0.019	0.0	1.302	0.490	0.014	1.164	4.670	
STA AV P	0.63	1.05	1.91	2.43	4.71	3.99	3.95	2.71	3.81	2.40	1.46	1.16	30.23	
Q	0.045	0.170	0.589	0.679	1.393	0.772	0.485	0.075	0.364	0.517	0.180	0.135	5.403	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	9-24	0.381	9-24	0.344	9-24	0.557	9-24	0.803	12-14	0.889	12-14	0.929	12-14	0.958	9-17	1.262
	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			

NOTES: Watershed conditions: All native grass cover, 32% of watershed in hay meadow and 68% in pasture, and located in region (#=0) of the Central Rolling Red Prairies land resource area. The pasture land was heavily grazed and the condition reflects the abuse from heavy grazing and drought during 1970. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, ARS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gage. Precipitation and runoff records began July 1951. STA AV based on 21 yr (1951-71) record period. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

Day	DAILY PRECIPITATION (inches)												STILLWATER, OKLAHOMA 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	0.05	0.0	0.0	0.40	1.69	0.0	0.0	0.0	0.0	0.0	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	0.79	0.0	0.0	0.0	0.0	1.73	0.0	0.0	0.0	1.29	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	0.06
3	0.67	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
4	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	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	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	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
6	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.01	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	0.02
7	0.0	0.06	0.0	0.0	0.0	0.0	1.44	0.0	0.0	0.0	0.0	0.0	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	0.26	0.0	0.04	0.0	0.0	0.14	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17
9	0.0	0.0	0.0	0.0	0.0	0.16	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
10	0.0	0.0	0.0	0.0	0.31	0.06	0.06	1.72	0.54	0.0	0.0	0.0	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	0.05	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	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	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	0.25	0.0	0.0	0.0	1.49	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	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	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.17	0.0	0.0	0.0	0.0	0.0	1.88	0.0	0.0	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	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.62	0.66	0.0	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	0.84	0.0	0.0	0.0	0.05	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0
20	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	1.30	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	1.36	0.60	0.0	0.76	0.0	0.0	0.0	0.0	0.34	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	0.03	0.0	0.04	0.11	0.0	0.02	0.0	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.0	0.0	0.0	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	0.23	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	0.0	0.0
26	0.0	0.0	0.0	0.07	0.89	0.0	0.32	0.0	0.0	0.0	0.50	0.0	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	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	0.56	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	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.07	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	0.0	0.0	0.0	0.0	0.0	0.42
30	0.0	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.46	1.80	0.05	2.70	2.86	5.19	5.33	1.07	9.09	3.24	0.58	2.25												
STA AV	0.63	1.05	1.91	2.43	4.71	3.99	3.95	2.71	3.81	2.40	1.46	1.16												

NOTES: Amounts recorded at rain gage R-3 used for current monthly totals and for runoff events. STA AV based on 21 yr (1951-71) record period.

1971		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	0.037	0.0	0.0	0.031	0.006	0.0	0.0	0.0	0.037	0.0	
2	0.009	0.0	0.025	0.0	0.0	0.859	0.0	0.0	0.0	0.857	0.016	0.0	
3	0.334	0.0	0.0	0.0	0.0	0.174	0.0	0.0	0.0	0.226	0.0	0.0	
4	0.065	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.037	0.0	0.0	
5	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.733	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.846	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.060	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.017	0.066	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.054	0.001	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	1.101	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.130	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.053	0.0	0.0	0.0	0.0	0.0	2.960	
15	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.889	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.095	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.067	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.238	0.0	0.0	0.058	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032	0.0	0.0	0.051	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.111	0.0	0.037	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.066	0.0	0.037	
22	0.0	0.0	0.0	0.449	0.0	0.0	0.0	0.0	0.051	0.0	0.0	0.032	
23	0.0	0.0	0.0	0.166	0.0	0.0	0.0	0.0	0.0	0.032	0.0	0.019	
24	0.0	0.030	0.0	0.053	0.0	0.0	0.0	0.0	3.215	0.014	0.0	0.019	
25	0.0	1.326	0.0	0.023	0.0	0.0	0.0	0.0	0.386	0.0	0.0	0.019	
26	0.0	0.162	0.0	0.008	0.007	0.0	0.0	0.0	0.055	0.043	0.0	0.019	
27	0.0	0.058	0.0	0.008	0.0	0.0	0.0	0.0	0.013	0.231	0.0	0.019	
28	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.0	0.0	0.019	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.090	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.191	
31	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.082	0.0	0.0	0.076	
MEAN	0.0134	0.0578	0.0020	0.0236	0.0003	0.1229	0.0024	0.0	0.1678	0.0611	0.0018	0.1451	
INCHES	0.108	0.419	0.016	0.183	0.002	0.954	0.019	0.0	1.302	0.490	0.014	1.164	
STA AV	0.045	0.170	0.589	0.679	1.393	0.772	0.485	0.075	0.364	0.517	0.180	0.135	

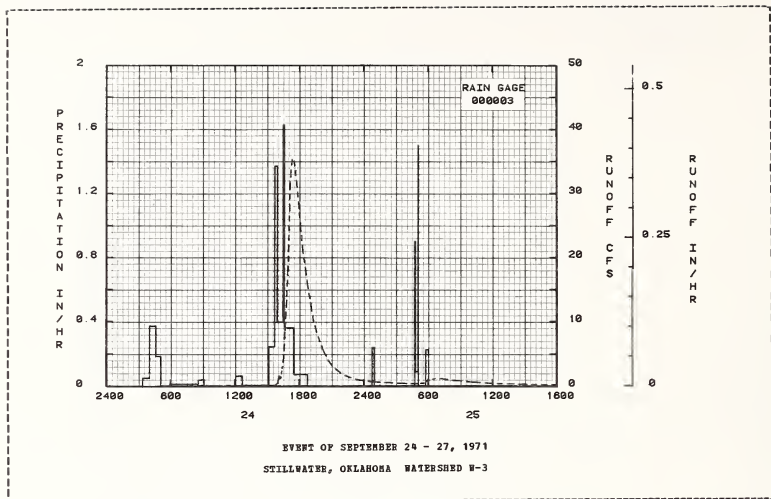
NOTES: To convert mean daily discharge in CFS to I#/DAY, multiply by 0.258714.

1971		SELECTED RUNOFF EVENT					STILLWATER, OKLAHOMA WATERSHED W-3						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.			
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)			
EVENT OF SEPTEMBER 24 - 27, 1971													
9-24	RG 000003	0.09	0.0	9-24	SC 000003	326	0.0	0.0	9-24	730	0.0	0.0	
						403	0.0486	0.03		804	0.043	0.0001	
						440	0.3730	0.26		1515	0.043	0.0034	
						506	0.1846	0.34		1548	0.122	0.0039	
						556	0.0	0.34		1552	0.247	0.0040	
						837	0.0112	0.37		1554	0.256	0.0041	
						854	0.3553	0.38		1601	0.433	0.0045	
						909	0.0400	0.39		1602	0.670	0.0046	
						916	0.0	0.39		1604	0.904	0.0049	
						1205	0.0	0.39		1605	1.152	0.0051	
						1284	0.0615	0.43		1606	1.377	0.0053	
						1512	0.0041	0.44		1607	1.538	0.0055	
						1544	0.2437	0.57		1608	1.458	0.0058	
						1558	1.3715	0.89		1610	1.352	0.0063	
						1630	0.3937	1.10		1612	1.084	0.0068	
						1637	1.6288	1.29		1619	1.308	0.0083	
						1729	0.2577	1.60		1621	1.869	0.0088	
						1847	0.0692	1.69		1623	2.306	0.0096	
						50	0.0	1.69		1625	2.718	0.0104	
				9-25	100	0.2400	1.73			1628	3.033	0.0120	
						447	0.0	1.73		1631	3.704	0.0138	
						451	0.9000	1.79		1634	4.744	0.0161	
						505	0.0857	1.81		1636	5.793	0.0179	
						507	1.5001	1.86		1638	7.319	0.0204	
						549	0.0	1.86		1639	8.368	0.0217	
						605	0.2250	1.92		1641	8.663	0.0246	
										1644	9.774	0.0296	
										1647	11.496	0.0354	
										1650	13.259	0.0422	
										1654	15.716	0.0526	

NOTES: To convert runoff in CFS to I#/BB, multiply by 0.01078.

1971 SELECTED RUSOFF EVENT			STILLWATER, OKLAHOMA WATERSHED #-3							
PRECEDENT CONDITIONS			RAINFALL			RUSOFF				
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 24 - 27, 1971 (CONTINUED)										
			9-24				1658		18.664	0.0649
							1701		21.950	0.0760
							1703		24.962	0.0839
							1706		27.577	0.0983
							1709		31.025	0.1183
							1714		33.672	0.1429
							1721		35.339	0.1865
							1732		35.024	0.2561
							1746		31.688	0.3404
							1759		27.619	0.4091
							1810		24.097	0.4603
							1822		20.637	0.5083
							1837		17.982	0.5603
							1851		15.123	0.6021
							1907		12.347	0.6414
							1921		10.045	0.6697
							1938		8.318	0.6979
							1956		6.888	0.7222
							2013		5.609	0.7414
							2031		4.631	0.7580
							2045		3.879	0.7688
							2103		3.173	0.7801
							2127		2.556	0.7925
							2153		2.005	0.8032
							2218		1.569	0.8112
							2250		1.227	0.8193
							2324		0.954	0.8260
							2400		0.789	0.8317
			9-25				45		0.640	0.8375
							130		0.537	0.8423
							242		0.441	0.8486
							400		0.341	0.8541
							500		0.318	0.8577
							519		0.359	0.8589
							540		0.446	0.8604
							549		0.574	0.8612
							555		0.740	0.8619
							601		0.824	0.8628
							610		0.896	0.8642
							627		1.042	0.8672
							641		1.128	0.8699
							720		1.084	0.8777
							750		0.973	0.8832
							822		0.823	0.8883
							910		0.710	0.8949
							1002		0.591	0.9010
							1054		0.482	0.9060
							1202		0.384	0.9113
							1256		0.321	0.9147
							1400		0.258	0.9180
							1516		0.204	0.9212
							1640		0.151	0.9239
							1800		0.116	0.9258
							2010		0.091	0.9282
							2400		0.073	0.9316
			9-26				530		0.054	0.9357
							2400		0.037	0.9458
			9-27				950		0.018	0.9487
							1430		0.0	0.9492

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



STILLWATER, OKLAHOMA WATERSHED #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 #4				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1971	P 1.47	1.43	0.05	2.28	3.16	5.22	5.35	0.66	8.67	2.71	0.58	2.07	33.65		
	Q 0.058	0.202	0.0	0.023	0.024	0.950	0.049	0.0	1.014	0.072	0.0	0.457	2.850		
STA AV	P 0.57	0.99	1.82	2.31	4.58	3.88	3.84	2.56	3.82	2.42	1.37	1.10	29.25		
	Q 0.058	0.089	0.329	0.386	1.088	0.697	0.456	0.061	0.358	0.445	0.106	0.085	4.157		

ANNUAL MAXIMUM DISCHARGE (in/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.				
1971	6-2 0.388	9-24 0.306	9-24 0.462	9-24 0.577	9-24 0.600	9-24 0.620	9-24 0.628	9-17 0.923				

MAXIMUMS FOR PERIOD OF RECORD												
Date	Discharge Rate	1 Hour Vol.	2 Hours Vol.	6 Hours Vol.	12 Hours Vol.	1 Day Vol.	2 Days Vol.	8 Days Vol.				
1971	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	1959				

NOTES: Watershed conditions: All native grass cover, 17% in hay meadow, 83% in two pastures. Both pastures were heavily grazed, and although precipitation was above normal, the vegetation cover did not improve because of the frost condition that existed during the 1970 growing season. For map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1964, "SMA" Misc. Pub. 1194, p. 37-3-6 (revised). Precipitation and runoff records began July 1951. STA AV based on 21 yr (1961-71) record period. Station average precipitation data from 2-4 recording rain was recorded through 1954 combined with E-2 for 1965 through 1971. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

Day	DAILY PRECIPITATION (inches)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.05	0.0	0.0	0.31	1.96	0.0	0.0	0.0	0.0	0.0
2	0.66	0.0	0.0	0.0	0.0	1.52	0.0	0.0	0.0	0.58	0.0	0.04
3	0.81	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.08
4	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	1.69	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.40	0.0	0.0	0.01
6	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.0	0.01
7	0.0	0.03	0.0	0.0	0.0	1.43	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.16	0.16
9	0.0	0.0	0.0	0.0	0.16	0.07	0.0	0.0	0.0	0.0	0.0	0.03
10	0.0	0.0	0.0	0.0	0.70	0.08	1.34	0.25	0.0	0.0	0.0	0.01
11	0.0	0.03	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.97	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	1.73	0.85	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	1.37
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
16	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	1.71	0.0	0.0	0.0
18	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	1.73	0.85	0.0	0.0
19	0.0	0.0	0.0	0.70	0.0	0.0	0.11	0.0	0.0	0.29	0.0	0.0
20	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0
21	0.0	1.02	0.0	0.0	0.0	0.05	0.0	0.15	0.0	0.0	0.0	0.0
22	0.0	0.01	0.0	0.92	0.71	0.0	0.92	0.04	0.0	0.0	0.32	0.0
23	0.0	0.03	0.0	0.02	0.04	0.0	0.03	0.0	0.02	0.0	0.09	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.81	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0
26	0.0	0.0	0.0	0.23	0.67	0.0	0.36	0.0	0.0	0.50	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	0.47	0.0	0.0	0.0	0.01	0.0
29	0.0	0.0	0.0	0.09	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.38
30	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.10	0.0	0.0
31	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.47	1.43	0.05	2.28	3.16	5.22	5.35	0.66	8.67	2.71	0.58	2.07
STA AV	0.57	0.99	1.82	2.31	4.58	3.88	3.84	2.56	3.82	2.42	1.37	1.10

NOTES: Amounts recorded at rain gage #2 used for current monthly totals and for runoff events. STA AV based on 21 yr (1951-71) record period.

1971 SEAN DAILY DISCHARGE (cfs)													STILLWATER, OKLAHOMA WATERSHED 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	0.098	0.178	0.0	0.0	0.0	0.0	0.0				
2	0.004	0.0	0.0	0.0	0.0	2.955	0.009	0.0	0.0	0.188	0.0	0.0				
3	0.502	0.0	0.0	0.0	0.0	0.106	0.0	0.0	0.0	0.023	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.620	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	1.959	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.406	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.035	0.0	0.230	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.046	0.170	0.003	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	2.433	0.0	0.0	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.065	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	2.902				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.640				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.087				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.109	0.0	0.0	0.042				
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.502	0.019	0.0	0.037				
19	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.005	0.001	0.0	0.021				
20	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.266	0.0	0.006				
21	0.0	0.076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0				
22	0.0	0.0	0.0	0.163	0.087	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	5.091	0.0	0.0	0.103				
25	0.0	1.440	0.0	0.0	0.0	0.0	0.0	0.0	0.318	0.0	0.0	0.0				
26	0.0	0.204	0.0	0.0	0.017	0.0	0.0	0.0	0.038	0.053	0.0	0.0				
27	0.0	0.009	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.108	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.103				
30	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.095				
31	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.026				
SEAN	0.0163	0.0625	0.0	0.0067	0.0067	0.2740	0.0136	0.0	0.2926	0.0202	0.0	0.1277				
INCHES	0.058	0.202	0.0	0.023	0.024	0.950	0.049	0.0	1.014	0.072	0.0	0.457				
STA IV	0.058	0.089	0.329	0.386	1.088	0.697	0.456	0.061	0.358	0.445	0.106	0.085				

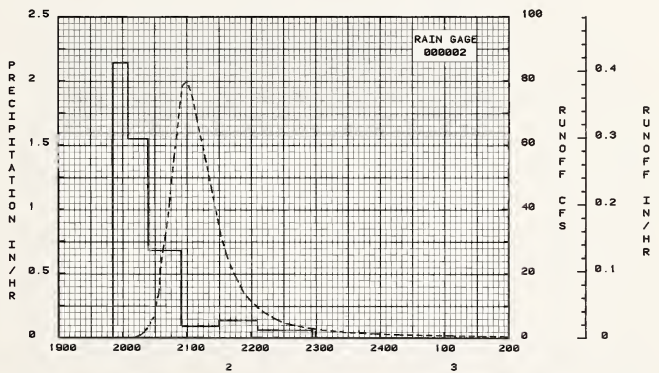
NOTES: To convert sean daily discharge in CFS to I8/DAI, multiply by 0.115542.

1971 SELECTED BUHOFF EVENT													STILLWATER, OKLAHOMA WATERSHED W-4			
ANTECEDENT CONDITIONS					RAINFALL				BUHOFF							
Date	Rainfall	Rmoff	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 2 - 3, 1971																
RG 000002			RG 000002													
6- 2	0.0	0.0	6- 2	1951	0.0	0.0	6- 2	2010	0.0	0.0						
				2005	2.1828	0.50		2011	0.0211	0.0						
				2024	1.5474	0.99		2012	0.042	0.0						
				2055	0.6774	1.36		2013	0.305	0.0						
				2130	0.0857	1.39		2014	0.553	0.0						
WATERSHED CONDITIONS:																
100% of area in native grass; 17.3% mowed as hay meadow in good condition, and 82.7% in pasture in fair condition.																
				2206	0.1333	1.47		2015	0.683	0.0001						
				2257	0.0588	1.52		2016	0.773	0.0002						
								2017	0.947	0.0003						
								2018	1.138	0.0004						
								2019	1.371	0.0005						
								2020	1.724	0.0006						
								2021	2.206	0.0008						
								2022	2.499	0.0010						
								2023	2.989	0.0012						
								2024	3.652	0.0015						
								2026	4.696	0.0022						
								2027	5.594	0.0026						
								2029	6.379	0.0036						
								2031	9.200	0.0049						
								2032	11.165	0.0057						
								2034	13.713	0.0077						
								2035	16.564	0.0090						
								2036	21.935	0.0106						
								2037	25.051	0.0125						
								2038	27.360	0.0146						
								2040	31.226	0.0193						
								2042	36.136	0.0247						
								2044	42.007	0.0309						
								2046	48.722	0.0382						
								2048	55.939	0.0466						
								2051	63.985	0.0610						
								2054	73.652	0.0776						
								2056	78.571	0.0898						
								2100	79.840	0.1153						
								2105	75.571	0.1464						

NOTES: To convert rmoff in CFS to I8/BE, multiply by 0.004814.

1971 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA 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 JUNE 2 - 3, 1971 (CONTINUED)										
							6- 2	2110	67.169	0.1750
								2117	56.202	0.2097
								2123	86.661	0.2385
								2128	38.282	0.2515
								2132	31.585	0.2627
								2137	25.923	0.2782
								2142	21.399	0.2837
								2148	17.817	0.2930
								2153	14.046	0.2993
								2200	11.366	0.3064
								2207	9.182	0.3121
								2212	7.856	0.3155
								2220	6.261	0.3200
								2228	4.917	0.3236
								2240	3.778	0.3278
								2256	2.886	0.3321
								2310	2.266	0.3350
								2328	1.680	0.3379
								2347	1.352	0.3402
								2400	1.157	0.3415
							6- 3	17	0.528	0.3429
								48	0.739	0.3447
								110	0.582	0.3461
								139	0.461	0.3473
								206	0.382	0.3482
								238	0.303	0.3491
								315	0.243	0.3499
								400	0.181	0.3507
								440	0.120	0.3512
								532	0.102	0.3517
								648	0.060	0.3522
								832	0.042	0.3526
								1315	0.021	0.3533
								1650	0.021	0.3537
								1858	0.0	0.3538

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00864.



EVENT OF JUNE 2 - 3, 1971
STILLWATER, OKLAHOMA WATERSHED W-4

EIESEL (WACO), TEXAS WATERSHEED C

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

AREA: 579.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												EIESEL (WACO), TEXAS WATERSHEED C														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1971 P	0.03	1.73	0.44	3.43	2.43	1.09	10.61	2.23	1.74	4.66	5.13	6.55	40.04													
Q	0.0	0.0	0.0	0.0	0.0	0.0	1.981	0.002	0.810																	
STA AV P	1.85	2.80	2.18	3.85	3.95	3.38	1.82	2.53	3.15	2.95	3.12	2.85	34.03													
Q	0.824	0.633	0.624	0.980	0.895	0.609	0.237	0.178	0.386	0.306	0.539	0.612	6.382													

ANNUAL MAXIMUM DISCHARGE (10/hrs) AND MAXIMUM VOLUMES OF RUNOFF (acre-feet) BY TIME INTERVALS																	
Date	Rate	1 Hour		2 Hours		6 Hours		1 Day		2 Days		8 Days					
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1971	11-17	0.900		11-17	0.799	11-17	1.272	11-17	1.719	11-17	1.828	12- 9	1.954	12- 8	2.268	12- 2	2.861

MAXIMUMS FOR PERIOD OF RECORD											
Year	Date	Rate	Vol.	Year	Date	Rate	Vol.	Year	Date	Rate	Vol.
1965	3-29	1.580		1965	3-29	1.500		1965	3-29	3.550	
1967	3-29	1.580		1965	3-29	1.500		1965	3-29	3.550	
1967	9-12	0.480	9	1967	9-12	0.480	9	1967	9-12	0.480	9
1967	4-19	4.780	8	1967	4-19	4.780	8	1967	4-19	4.780	8
1967	10-15	2.861	2	1967	10-15	2.861	2	1967	10-15	2.861	2

NOTES: Watershed conditions: 81% pasture; 12% row grain sorghum; 2% gravel and paved roads; 5% 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. 985, p. 42-46. Precipitation and runoff records began Feb. 1938; 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 gauges 5, 14 and 20. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY AIR TEMPERATURE (degrees F)													EIESEL (WACO), TEXAS WATERSHEED 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	57	36	51	34	72	52	81	61	56	70	53	89	72	94	70	81	64	88	65	87	65	81	61	50	41
2	66	38	43	34	75	43	70	39	80	58	89	72	98	73	81	66	88	67	88	66	80	57	48	41	
3	69	53	46	36	43	26	69	41	87	60	91	71	99	75	73	68	89	70	90	71	79	50	42	37	
4	79	29	71	41	47	28	73	44	85	60	88	68	98	73	82	71	92	74	88	62	69	43	41	37	
5	39	19	68	29	61	34	71	41	85	65	89	64	99	72	81	70	94	75	74	64	69	49	42	40	
6	36	19	67	34	77	43	65	43	86	70	90	66	99	73	79	71	94	73	77	63	70	49	43	40	
7	39	28	54	31	57	31	63	38	84	65	90	70	100	76	79	69	95	73	82	58	67	44	46	37	
8	32	22	37	16	56	32	71	41	88	65	94	71	102	73	85	69	94	69	82	60	61	45	65	40	
9	45	25	46	19	67	41	79	52	85	66	93	71	96	73	88	70	92	71	70	62	62	48	69	52	
10	68	29	43	23	76	39	78	51	83	68	94	73	98	75	89	74	87	73	78	48	71	43	56	42	
11	76	44	63	32	66	46	80	52	77	64	94	75	97	72	90	73	85	74	73	49	70	44	64	38	
12	80	41	75	45	81	55	84	56	74	58	95	75	97	74	91	75	89	71	82	35	76	45	61	40	
13	51	39	59	29	82	59	85	62	72	48	95	71	97	76	88	70	91	70	80	60	76	54	63	40	
14	71	51	58	34	88	61	79	55	72	53	96	73	99	76	85	72	92	70	79	56	81	60	67	45	
15	78	39	76	40	88	44	67	55	77	55	94	73	99	76	88	72	92	67	81	64	81	59	75	42	
16	53	31	73	52	75	47	81	61	82	62	92	69	100	76	90	70	91	68	86	68	78	57	69	46	
17	65	34	79	54	77	45	72	55	86	60	95	71	100	77	87	72	89	65	83	66	77	60	68	48	
18	68	41	79	53	79	58	77	60	87	65	97	69	98	75	88	72	88	66	82	72	74	55	53	36	
19	63	25	81	60	79	38	81	66	85	62	95	69	100	74	89	71	80	56	86	69	60	38	39	39	
20	64	26	76	49	60	38	82	50	80	60	91	70	100	74	90	71	67	48	82	60	54	40	69	48	
21	61	29	75	49	67	42	63	49	79	61	91	69	95	71	89	73	76	51	73	53	70	41	73	45	
22	76	44	52	28	79	54	81	58	83	68	91	71	83	68	90	71	76	59	73	50	71	48	64	38	
23	78	51	53	31	79	48	83	58	84	71	89	69	96	76	91	73	76	65	73	56	51	38	50	42	
24	62	52	63	38	68	40	77	51	89	65	95	69	96	71	92	74	74	68	70	52	49	35	64	49	
25	74	45	68	51	55	45	78	58	80	59	98	71	73	69	90	72	84	69	75	53	51	37	66	53	
26	81	43	64	55	55	38	82	65	89	65	95	72	83	68	91	70	86	72	77	54	58	41	72	55	
27	75	37	72	39	70	40	83	67	89	67	93	73	89	71	89	71	88	72	81	66	68	40	72	61	
28	59	39	67	45	75	55	89	61	89	66	92	69	86	71	93	72	88	70	81	55	65	44	73	50	
29	71	49			74	53	85	64	89	71	90	77	91	70	94	70	89	69	81	64	70	39	58	50	
30	78	53			73	42	74	59	84	69	92	75	87	67	86	65	88	66	81	62	58	41	74	55	
31	85	41			74	48			86	70			75	63	89	67			80	59			64	50	
1 AV	64	37	63	39	70	44	77	54	83	63	93	71	94	73	87	71	87	68	80	60	69	47	61	44	
MEAN	50.9	50.8			57.1	65.2	72.9		81.8	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
STA AV	57.3	62	40	63	47	77	56	83	63	89	70	94	72	94	72	88	66	81	69	57	68	46	61	39	

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 0800 of the day shown. STA AV based on 33 yr (1939-1971) period.

1971 DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS			WATERSHED C		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.0	0.06E	0.11E	0.0	0.0	0.0	0.0	0.30	0.00E	0.0	0.0	0.98					
3	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0					
4	0.0	0.11E	0.0	0.01E	0.0	0.0	0.0	0.15	0.0	0.16	0.0	0.0					
5	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.19E	0.0	0.11E	0.0	0.67					
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.46					
7	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.15	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.70					
9	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.07E	0.0	2.39					
10	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.0	0.04					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0E	0.0	0.0	0.0					
12	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.99	0.07E	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	0.07E					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.26					
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	2.30	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0					
17	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	8.22	0.03E					
18	0.0	0.75	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.20E	0.26	0.0					
19	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.02E	1.69	0.0	0.0					
20	0.0	0.0	0.0	0.80	0.62	0.0	0.0	0.0	0.0	1.33	0.0	0.0					
21	0.0	0.16	0.0	0.0	0.0	0.85	4.63	0.0	0.0	0.0	0.0	0.0					
22	0.0	0.0	0.0	0.00E	0.0	0.10E	0.0	0.0	0.91	0.0	0.64	0.0					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.02E	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.12E	0.0	2.34	0.0	0.74	0.0	0.0	0.0					
25	0.0	0.65	0.10E	0.0	0.0	0.0	1.19	0.35	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	0.17	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.01E	0.06E	1.19	0.0	0.0	0.17	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.09	0.0	0.0	0.0	0.01E	0.04E					
29	0.0	0.0	0.17	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.01E	0.0					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.19	0.0	0.0	0.0	0.48					
31	0.0	0.0	0.0	0.03E	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.42					
TOTAL	0.03	1.73	0.44	3.83	2.43	1.09	10.61	2.23	1.74	4.65	5.13	6.55					
STA AV	1.85	2.80	2.18	3.85	3.95	3.38	1.82	2.53	3.15	2.95	3.12	2.45					

NOTES: Precipitation values are Thiessen weighted average of rain gauges 5, 14, and 20. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 26 yr period. Estimate codes may indicate that non-significant event totals are included.

1971 SEAN DAILY DISCHARGE (cfs)												RIESEL (WACO), TEXAS			WATERSHED C		
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	0.006	0.0	0.0	0.0	0.001					
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	3.194					
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	1.005					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.131					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	4.817					
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	4.333					
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	1.219					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.217					
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	47.247					
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	8.001					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.382					
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.123					
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.055					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.953					
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.242					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.074					
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.827	0.033	0.0					
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.749	0.017					
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	9.891	0.035	0.008					
21	0.0	0.0	0.0	0.0	0.0	0.0	8.194	0.0	0.0	0.064	0.012	0.005					
22	0.0	0.0	0.0	0.0	0.0	0.0	0.046	0.0	0.0	0.099	0.020	0.006					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.363	0.008					
24	0.0	0.0	0.0	0.0	0.0	0.0	18.077	0.0	0.0	0.001	0.102	0.010					
25	0.0	0.0	0.0	0.0	0.0	0.0	10.534	0.0	0.0	0.0	0.0	0.007					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.370	0.0	0.0	0.0	0.013	0.005					
27	0.0	0.0	0.0	0.0	0.0	0.0	7.393	0.0	0.0	0.006	0.007	0.005					
28	0.0	0.0	0.0	0.0	0.0	0.0	0.562	0.0	0.0	0.001	0.004	0.005					
29	0.0	0.0	0.0	0.0	0.0	0.0	0.377	0.0	0.0	0.0	0.002	0.006					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.171	0.0	0.0	0.0	0.001	0.009					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.073					
SEAN	0.0	0.0	0.0	0.0	0.0	0.0	1.475E	0.002E	0.0	0.321E	1.5857	2.3029					
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	1.881	0.002	0.0	0.810	1.906	2.935					
STA AV	0.424	0.633	0.624	0.980	0.895	0.609	0.237	0.178	0.346	0.306	0.539	0.612					

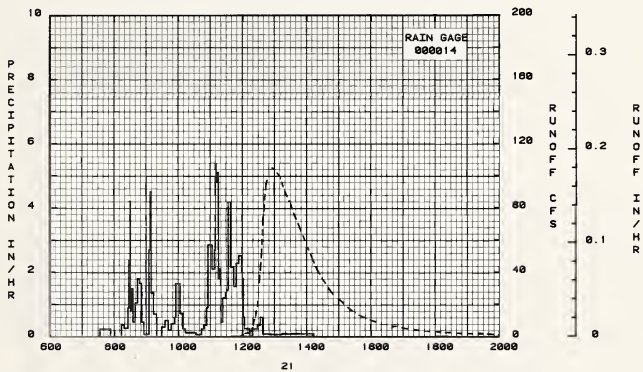
NOTES: To convert sean daily discharge in CFS to IN/DAY, multiply by 0.041108. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 26 yr period.

1971 SELECTED RUNOFF EVENT				RIBSEL (WACO), TEXAS				WATERSHED C			
PRECEDENT 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 21, 1971											
7-21	0.0	0.0	7-21	RG 000014			7-21	1140	0.0	0.0	
				733	0.0	0.0		1142	0.0	0.0	
				743	0.2400	0.04		1144	0.0	0.0	
				753	0.2400	0.08		1146	0.001	0.0	
				813	0.0	0.08		1148	0.006	0.0	
				818	0.3600	0.11					
WATERSHED CONDITIONS:											
81% pasture, all classes; 12% row grain sorghum, maturing;											
2% gravel and paved roads; 5% other. Approx. 90% of other is Johnsongrass and weeds in conservation reserve, either tilled or grazed.											
				825	0.2571	0.14		1150	0.023	0.0	
				827	0.9000	0.17		1152	0.065	0.0	
				829	2.4000	0.25		1154	0.189	0.0	
				830	4.1998	0.32		1156	0.417	0.0	
				833	0.8000	0.36		1158	0.740	0.0	
				835	1.5000	0.41		1200	0.978	0.0001	
				839	0.4500	0.44		1202	1.384	0.0002	
				843	1.0500	0.51		1204	1.825	0.0003	
				847	1.8000	0.63		1206	2.156	0.0004	
				851	1.6500	0.74		1208	2.298	0.0005	
				855	0.4500	0.77		1210	2.376	0.0006	
				905	0.0600	0.78		1212	2.457	0.0007	
				907	2.7000	0.87		1214	2.788	0.0008	
				909	4.4999	1.02		1216	3.700	0.0010	
				913	1.3500	1.11		1218	5.415	0.0012	
				919	0.7000	1.18		1220	7.499	0.0016	
				929	0.0	1.18		1222	10.852	0.0021	
				935	0.3000	1.21		1224	12.686	0.0028	
				941	0.5000	1.26		1226	16.065	0.0036	
				947	0.2000	1.28		1228	19.114	0.0047	
				953	0.4000	1.32		1230	27.705	0.0061	
				955	0.6000	1.34		1232	38.257	0.0079	
				959	1.6500	1.45		1234	45.968	0.0104	
				1003	1.6500	1.56		1236	54.473	0.0131	
				1008	0.7000	1.62		1238	72.115	0.0169	
				1013	0.2400	1.64		1240	78.802	0.0209	
				1023	0.1200	1.66		1242	86.276	0.0259	
				1033	0.1200	1.68		1244	94.168	0.0308	
				1043	0.0600	1.69		1246	97.301	0.0366	
				1048	0.2400	1.71		1248	100.024	0.0419	
				1053	0.3600	1.74		1250	102.804	0.0480	
				1055	0.9000	1.77		1252	104.968	0.0626	
				1059	2.8500	1.96		1300	103.799	0.0780	
				1103	2.8500	2.15		1305	101.652	0.0924	
				1107	2.1600	2.29		1310	98.736	0.1065	
				1109	2.7000	2.38		1320	89.760	0.1336	
				1111	5.4001	2.56		1330	82.243	0.1583	
				1113	4.8000	2.72		1340	73.007	0.1801	
				1115	5.0999	2.89		1350	65.506	0.2000	
				1117	1.8000	2.95		1400	56.560	0.2176	
				1119	2.1000	3.02		1410	48.558	0.2324	
				1123	0.4500	3.05		1420	41.432	0.2453	
				1128	1.2000	3.15		1430	35.565	0.2564	
				1133	1.4400	3.27		1440	30.208	0.2656	
				1138	4.2000	3.62		1450	26.006	0.2737	
				1143	2.1600	3.80		1500	23.330	0.2808	
				1148	1.5600	3.93		1510	19.975	0.2869	
				1153	2.2800	4.12		1520	17.167	0.2922	
				1158	2.5200	4.33		1530	14.742	0.2968	
				1201	1.8000	4.42		1540	12.791	0.3007	
				1203	0.6000	4.44		1550	11.323	0.3042	
				1213	0.2400	4.48		1600	10.013	0.3073	
				1218	0.0	4.48		1610	8.900	0.3100	
				1223	0.2400	4.50		1620	7.881	0.3124	
				1228	0.2400	4.52		1630	6.975	0.3145	
				1233	0.3600	4.55		1640	6.189	0.3163	
				1238	0.6000	4.60		1650	6.777	0.3182	
				1253	0.0800	4.62		1700	5.057	0.3199	
				1303	0.0600	4.63		1710	4.634	0.3213	
				1313	0.0600	4.64		1730	3.812	0.3237	
				1333	0.0900	4.67		1750	3.152	0.3257	
				1413	0.0900	4.73		1810	2.667	0.3274	
								1830	2.288	0.3288	
								1850	1.855	0.3300	
								1910	1.614	0.3310	

NOTES: To convert runoff in CFS to I#/8E, multiply by 0.001713.

1971 SELECTED EROSION EVENT			EISEL (WACO), TEXAS			WATERSEED C			
PRECEDENT CONDITIONS			RAINFALL			EUROFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 21, 1971 (CONTINUED)									
				7-21			1940	1.331	0.3323
							2010	1.065	0.3333
							2040	0.866	0.3341
							2110	0.669	0.3348
							2140	0.542	0.3353
							2210	0.467	0.3357
							2240	0.393	0.3361
							2310	0.343	0.3364
							2340	0.300	0.3367
							2400	0.280	0.3369

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



EVENT OF JULY 21, 1971
EISEL (WACO), TEXAS WATERSEED C

RIESEL (WACO), TEXAS WATERSHED D

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

AREA: 1110.00 acres 1.73 sq. miles

MONTHLY PRECIPITATION AND EUROFF (inches)						RIESEL (WACO), TEXAS WATERSHED D							
	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.03	1.62	0.44	3.48	2.47	1.00	10.83	2.18	1.71	4.59	5.21	6.58	40.07
Q	0.0	0.0	0.0	0.018	0.007	0.0	2.110	0.002	0.0	0.422	2.252	3.189	7.959
STA AV P	1.93	2.78	2.25	3.88	3.87	3.43	1.88	2.41	3.09	2.82	3.03	2.45	33.71
Q	0.456	0.617	0.653	1.024	0.991	0.615	0.252	0.196	0.331	0.312	0.266	0.595	6.570

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF EUROFF (inches) FOR SELECTED TIME INTERVALS																
Date	Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
1971	11-17	0.956	11-17	0.886	11-17	1.519	11-17	2.079	11-17	2.184	12- 9	2.311	12- 8	2.590	12- 2	3.087

MAXIMUMS FOR PERIOD OF RECORD															
3-29	2.110	3-29	1.930	3-29	3.150	3-29	4.590	3-29	4.880	3-29	5.630	3-29	5.690	4-19	9.660
1965		1965		1965		1965		1965		1965		1965		1967	

NOTES: Watershed conditions: 65% pasture; 8% cotton; 13% row grain sorghum; 2% gravel and paved roads; 8% 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. 42.48-C. 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 National Weather Service records at Waco, Texas.

1971	DAILY PRECIPITATION (inches)											RIESEL (WACO), TEXAS WATERSHED D										
	Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec									
1	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
2	0.0	0.05E	0.13E	0.0	0.0	0.0	0.0	0.0	0.31	0.01E	0.0	0.0	1.00									
3	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0									
4	0.0	0.11E	0.0	0.02E	0.0	0.0	0.0	0.0	0.15	0.0	0.18	0.0	0.0									
5	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.18E	0.0	0.11E	0.0	0.68									
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.46									
7	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.14	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	0.01E	0.0	0.0	0.0	0.69									
9	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	2.88									
10	0.0	0.0	0.0	0.0	0.0	1.43	0.0	0.0	0.0	0.0	0.0	0.0	0.03									
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	0.21	0.0	0.0	0.0	0.0	0.0	0.53	0.04E	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	0.96E									
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	1.52	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	1.45	0.0	0.0									
16	0.0	0.0	0.0	2.26	6.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0									
17	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.35	0.03E									
18	0.0	0.66	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.19E	0.26	0.0	0.0									
19	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.02E	1.52	0.0	0.0									
20	0.0	0.0	0.0	0.82	0.65	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.0									
21	0.0	0.15	0.0	0.0	0.0	0.78	4.75	0.0	0.0	0.0	0.0	0.0	0.0									
22	0.0	0.0	0.0	0.00E	0.0	0.09E	0.0	0.0	0.88	0.0	0.60	0.0	0.0									
23	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.04E	0.0	0.0	0.0									
24	0.0	0.0	0.0	0.0	0.13E	0.0	2.34	0.0	0.77	0.0	0.0	0.0	0.0									
25	0.0	0.65	0.10E	0.0	0.0	0.0	1.18	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	0.15	0.0	0.0	0.0									
27	0.0	0.0	0.0	0.0	0.02E	0.10E	1.25	0.0	0.0	0.18	0.0	0.0	0.0									
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.08	0.0	0.0	0.0	0.01E	0.05E	0.0									
29	0.0	0.0	0.0	0.17	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.01E	0.0									
30	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.20	0.0	0.0	0.41	0.0	0.0									
31	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.03E	0.0	0.0	0.0	0.81	0.0									
TOTAL	0.03	1.62	0.44	3.48	2.47	1.00	10.83	2.18	1.71	4.59	5.21	6.58										
STA AV	1.93	2.78	2.25	3.88	3.87	3.43	1.88	2.41	3.09	2.82	3.03	2.45										

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 27 yr period. Estimate codes may indicate that non-significant event totals are included.

1971		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS					WATERSHED D	
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	0.01	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	4.08	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.38	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.20	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	8.14	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	7.83	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	1.99	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.42	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	107.11	
10	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	13.79	
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.61	
12	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.00	0.0	0.0	0.0	0.18	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.26	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.41	
16	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
17	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.07	
18	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.86	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.35	
20	0.0	0.0	0.0	0.35	0.06	0.0	0.0	0.0	0.0	19.55	0.06	0.01	
21	0.0	0.0	0.0	0.00	0.0	0.0	22.59	0.0	0.0	0.10	0.02	0.00	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.01	0.02	0.00	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.41	0.00	
24	0.0	0.0	0.0	0.0	0.0	0.0	35.70	0.0	0.0	0.0	0.14	0.00	
25	0.0	0.0	0.0	0.0	0.0	0.0	20.83	0.0	0.0	0.0	0.05	0.00	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.02	0.00	
27	0.0	0.0	0.0	0.0	0.0	0.0	15.46	0.0	0.0	0.0	0.00	0.00	
28	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.0	0.0	0.0	0.00	0.00	
29	0.0	0.0	0.0	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.00	0.00	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0 T	0.10	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.08	
MEAN	0.0	0.0	0.0	0.0286	0.0098	0.0	3.1741	0.0028	0.0	0.6345	3.5066	4.7369	
INCHES	0.0	0.0	0.0	0.018	0.007	0.0	2.110	0.002	0.0	0.422	2.252	3.149	
STA AV	0.456	0.617	0.653	1.024	0.991	0.615	0.252	0.196	0.331	0.312	0.526	0.595	

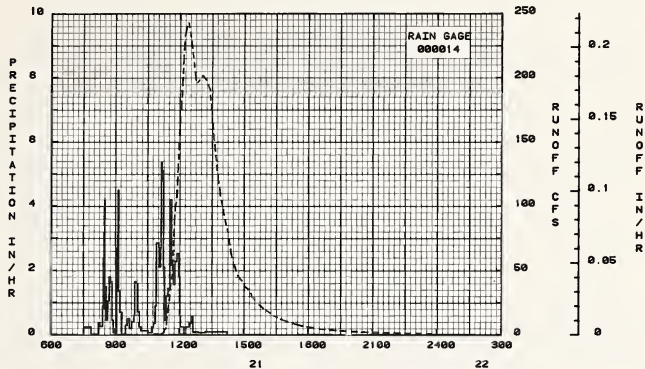
NOTES: To convert mean daily discharge in CFS to I/R/DAI, multiply by 0.021483. Records began Dec. 1971; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 27 yr period.

1971		SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED D	
PRECEDENT CONDITIONS		RAINFALL					RUNOFF		RATE		ACC.		
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 JULY 21, 1971													
	RG 000014			RG 000014									
7-21	0.0	0.0	7-21	733	0.0	0.0	7-21	1048	0.0	0.0			
				743	0.2400	0.04		1050	0.0	0.0			
				753	0.2400	0.08		1052	0.001	0.0			
				813	0.0	0.08		1054	0.004	0.0			
				818	0.3600	0.11		1056	0.023	0.0			
WATERSHED CONDITIONS:													
	69% pasture, all classes;		825	0.2571	0.14		1058	0.054	0.0				
	8% cotton, blooming; 13% row		827	0.9000	0.17		1100	0.091	0.0				
	grass sorghum, maturing; 2%		829	2.4000	0.25		1102	0.129	0.0				
	gravel and paved roads; 8%		830	4.1998	0.32		1104	0.185	0.0				
	other. Approx. 90% of other		833	0.8000	0.36		1106	0.231	0.0				
	is Johnsongrass and weeds in		835	1.5000	0.41		1108	0.331	0.0				
	conservation reserve, neither		839	0.4500	0.44		1110	0.431	0.0				
	tilled nor grazed.		843	1.0500	0.51		1112	0.622	0.0				
			847	1.8000	0.63		1114	1.192	0.0				
			851	1.6500	0.74		1116	1.749	0.0				
			855	0.4500	0.77		1118	2.640	0.0001				
			905	0.0600	0.78		1120	3.761	0.0002				
			907	2.7000	0.87		1122	5.096	0.0003				
			909	4.4999	1.02		1124	7.712	0.0005				
			913	1.3500	1.11		1126	13.550	0.0008				
			919	0.7000	1.18		1128	18.841	0.0013				
			929	0.0	1.18		1130	22.622	0.0020				
			935	0.3000	1.21		1132	27.319	0.0027				
			941	0.5000	1.26		1134	35.000	0.0037				
			947	0.2000	1.28		1136	40.000	0.0047				
			953	0.4000	1.32		1138	44.000	0.0060				
			955	0.6000	1.34		1140	47.000	0.0073				
			959	1.6500	1.45		1142	58.000	0.0089				
			1003	1.6500	1.56		1144	78.000	0.0108				
			1008	0.7200	1.62		1146	89.000	0.0134				

NOTES: To convert runoff in CFS to I/R/DAI, multiply by 0.000893.

1971 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED D								
PRECEDING CONDITIONS			RAINFALL			RUNOFF			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 21, 1971			(CONTINUED)					
7-21	1013	0.2400			1.64		7-21	1148	99.000	0.0160	
	1023	0.1200			1.66			1150	103.000	0.0192	
	1033	0.1200			1.68			1152	109.000	0.0222	
	1043	0.0600			1.69			1154	119.000	0.0258	
	1048	0.2400			1.71			1156	133.000	0.0293	
	1053	0.3600			1.74			1158	151.000	0.0338	
	1055	0.9000			1.77			1200	161.000	0.0387	
	1059	2.8500			1.96			1202	168.000	0.0433	
	1103	2.8500			2.15			1204	178.000	0.0487	
	1107	2.1000			2.29			1206	190.000	0.0538	
	1109	2.7000			2.38			1208	200.000	0.0599	
	1111	5.4001			2.56			1210	218.000	0.0657	
	1113	4.8000			2.72			1212	225.000	0.0727	
	1115	5.0999			2.89			1214	233.000	0.0791	
	1117	1.8000			2.95			1219	240.000	0.0973	
	1119	2.1000			3.02			1224	243.000	0.1150	
	1123	0.4500			3.05			1234	223.000	0.1500	
	1128	1.2000			3.15			1244	196.000	0.2986	
	1133	1.4400			3.27			1249	196.000	0.1960	
	1138	4.2000			3.62			1254	198.000	0.2104	
	1143	2.1600			3.80			1304	202.000	0.2404	
	1148	1.5600			3.93			1314	198.000	0.2697	
	1153	2.2800			4.12			1324	190.000	0.2986	
	1158	2.5200			4.33			1334	155.000	0.3247	
	1201	1.8000			4.42			1339	143.000	0.3356	
	1203	0.6000			4.44			1344	128.000	0.3455	
	1213	0.2400			4.48			1349	118.000	0.3549	
	1218	0.0			4.48			1354	108.000	0.3632	
	1223	0.2400			4.50			1404	93.000	0.3783	
	1228	0.2400			4.52			1414	81.000	0.3911	
	1233	0.3600			4.55			1424	63.000	0.4019	
	1238	0.6000			4.60			1434	53.000	0.4106	
	1253	0.0800			4.62			1444	45.000	0.4178	
	1303	0.0600			4.63			1454	42.000	0.4243	
	1313	0.0600			4.64			1504	37.000	0.4302	
	1333	0.0900			4.67			1514	35.000	0.4355	
	1413	0.0900			4.73			1524	29.321	0.4403	
								1534	25.779	0.4444	
								1544	22.896	0.4480	
								1554	20.463	0.4513	
								1604	18.793	0.4542	
								1614	16.655	0.4568	
								1624	14.585	0.4591	
								1634	13.365	0.4612	
								1644	12.017	0.4631	
								1704	9.862	0.4664	
								1724	8.136	0.4691	
								1744	6.757	0.4713	
								1804	5.618	0.4732	
								1834	4.431	0.4754	
								1904	3.551	0.4772	
								1934	2.820	0.4786	
								2004	2.315	0.4797	
								2034	1.951	0.4807	
								2104	1.638	0.4815	
								2134	1.372	0.4822	
								2204	1.121	0.4828	
								2234	0.962	0.4833	
								2304	0.829	0.4837	
								2400	0.622	0.4843	

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



EVENT OF JULY 21, 1971
HIESEL (WACO), TEXAS WATERSHED D

1971		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHED G	
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	0.28	0.0	0.0	0.0	0.02
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	11.07
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	6.71
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.02	0.0	0.0	0.0	1.09
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.70	0.0	0.0	0.0	36.14
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	38.23
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	12.34
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	2.97
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	460.26
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	88.23
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.09
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	1.48
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.74
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.28
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	2.72
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.90
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.77
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.68
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.60
20	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	40.84	0.40	0.21
21	0.0	0.0	0.0	0.18	0.0	0.0	90.93	0.0	0.0	0.60	0.12	0.15
22	0.0	0.0	0.0	0.00	0.0	0.0	1.60	0.0	0.0	0.05	0.19	0.00
23	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.00	1.28	0.10
24	0.0	0.0	0.0	0.0	0.0	0.0	81.73	0.0	0.0	0.0	0.47	0.11
25	0.0	0.0	0.0	0.0	0.0	0.0	98.83	0.0	0.0	0.0	0.17	0.12
26	0.0	0.0	0.0	0.0	0.0	0.0	4.84	0.0	0.0	0.0	0.08	0.12
27	0.0	0.0	0.0	0.0	0.0	0.0	62.99	0.0	0.0	0.04	0.08	0.12
28	0.0	0.0	0.0	0.0	0.0	0.0	24.07	0.0	0.0	0.00	0.03	0.12
29	0.0	0.0	0.0	0.0	0.0	0.0	45.26	0.0	0.0	0.0	0.03	0.10
30	0.0	0.0	0.0	0.0	0.0	0.0	8.50	0.0	0.0	0.0	0.02	4.07
31	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.92
MEAN	0.0	0.0	0.0	0.085	0.0	0.0	13.548	0.334	0.0	1.339	13.530	21.661
INCHES	0.0	0.0	0.0	0.007	0.0	0.0	2.282	0.056	0.0	0.226	2.206	3.649
STA AV	0.655	0.776	0.723	0.700	0.702	0.929	0.290	0.176	0.320	0.196	0.596	0.692

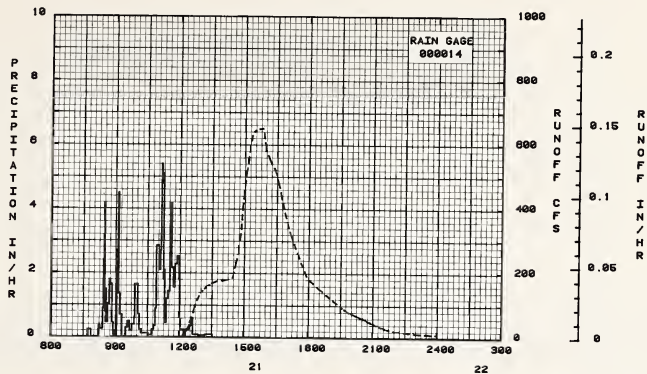
NOTES: To convert mean daily discharge in CFS to IS/DAY, multiply by 0.009438. Records began Jan. 1938; station not in operation July 1983 to July 1, 1987; part-year amounts not included in averages. STA AV based on 19 yr period.

1971		SELECTED BUHOFF EVENT					RIESEL (WACO), TEXAS				WATERSHED G	
ANTICIPATED CONDITIONS		RAINFALL					BUHOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)		
EVENT OF												
July 21, 1971												
BG 000014												
7-21	0.04	0.0	7-21	743	0.0	0.0	7-21	1100	0.0	0.0		
				753	0.2400	0.04		1105	0.0	0.0		
				813	0.0	0.0		1110	0.0	0.0		
				818	0.3600	0.07		1115	0.001	0.0		
				825	0.2571	0.10		1120	0.002	0.0		
WATERSHED CONDITIONS:												
42% pasture, all classes;												
2% tilled, but not planted;												
3% corn, maturing; 6% fall												
planted small grain, harvested												
to 10 inches high; 2% gravel												
scrub, maturing; 10% cotton,												
blooming; 2% gravel and paved												
roads; 2% other. Approx. 90%												
of other is Johnsongrass and												
weeds in conservation reserve,												
neither tilled nor grazed.												
			839	0.4500	0.40		1150	0.068	0.0			
			843	1.0500	0.47		1155	0.143	0.0			
			847	1.8000	0.59		1200	0.273	0.0			
			851	1.6500	0.70		1205	1.213	0.0			
			855	0.4500	0.73		1210	6.886	0.0001			
			905	0.0600	0.74		1215	12.785	0.0003			
			907	2.7000	0.83		1220	18.513	0.0006			
			909	4.4999	0.98		1225	31.199	0.0011			
			913	1.3500	1.07		1230	46.000	0.0019			
			919	0.7000	1.14		1235	61.000	0.0029			
			929	0.0	1.18		1240	80.000	0.0042			
			935	0.3000	1.17		1245	101.000	0.0060			
			941	0.5000	1.22		1250	115.000	0.0080			
			947	0.2000	1.24		1255	128.000	0.0103			
			953	0.4000	1.28		1300	135.000	0.0129			
			955	0.6000	1.30		1305	145.000	0.0155			
			959	1.6500	1.41		1310	151.000	0.0182			
			1003	1.6500	1.52		1315	157.000	0.0212			
			1008	0.7200	1.58		1320	161.000	0.0242			
			1013	0.2400	1.60		1325	161.000	0.0272			

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

1971 SELECTED RUNOFF EVENT				RISSEL (WACO), TEXAS WATERSHED G			
PRECEDENT CONDITIONS		Date		RAINFALL		RUNOFF	
Date No-Day	Rainfall (Inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (Inches)	Date No-Day	Time of Day
EVENT OF JULY 21, 1971 (CONTINUED)							
7-21	1023	0.1200	1.62	7-21	1330	168.000	0.0304
	1033	0.1200	1.64		1345	175.000	0.0401
	1043	0.0600	1.65		1400	176.000	0.0500
	1048	0.2400	1.67		1415	180.000	0.0601
	1053	0.3600	1.70		1430	186.000	0.0705
	1055	0.9000	1.73		1435	219.000	0.0743
	1059	2.8500	1.92		1440	244.000	0.0786
	1103	2.8500	2.11		1445	295.000	0.0817
	1107	2.1000	2.25		1450	322.000	0.0893
	1109	2.7000	2.34		1455	402.000	0.0960
	1111	5.4001	2.52		1500	457.999	0.1044
	1113	4.8000	2.68		1505	512.000	0.1134
	1115	5.0999	2.85		1510	548.000	0.1232
	1117	1.8000	2.91		1515	598.000	0.1343
	1119	2.1000	2.98		1520	628.000	0.1457
	1123	0.4500	3.01		1525	640.000	0.1575
	1128	1.2000	3.11		1530	644.000	0.1700
	1133	1.4400	3.23		1540	649.000	0.1940
	1138	4.2000	3.58		1550	650.000	0.2187
	1143	2.1600	3.76		1600	580.000	0.2421
	1148	1.5600	3.89		1615	540.000	0.2738
	1153	2.2800	4.08		1625	519.999	0.2935
	1158	2.5200	4.29		1635	480.000	0.3125
	1201	1.8000	4.38		1645	430.000	0.3298
	1203	0.6000	4.40		1700	356.000	0.3520
	1213	0.2400	4.44		1715	304.000	0.3707
	1218	0.0	4.44		1730	260.000	0.3867
	1223	0.2400	4.46		1745	218.000	0.4002
	1228	0.2400	4.48		1755	190.000	0.4078
	1233	0.3600	4.51		1805	176.000	0.4148
	1238	0.6000	4.56		1815	167.000	0.4213
	1253	0.0000	4.58		1830	151.000	0.4310
	1303	0.0600	4.59		1840	143.000	0.4358
	1313	0.0600	4.60		1850	133.000	0.4410
	1333	0.0900	4.63		1900	123.000	0.4459
	1910	114.000	0.4503		1920	105.000	0.4545
	1930	96.000	0.4583		1935	92.000	0.4600
	1940	88.000	0.4617		1940	88.000	0.4617
	1945	84.000	0.4634		1950	80.000	0.4649
	1955	77.000	0.4664		2000	75.000	0.4679
	2005	72.000	0.4693		2005	72.000	0.4693
	2010	70.000	0.4706		2015	67.000	0.4719
	2020	65.000	0.4731		2025	62.000	0.4743
	2030	60.000	0.4755		2035	57.000	0.4766
	2040	55.000	0.4776		2045	51.667	0.4786
	2050	45.000	0.4795		2055	46.063	0.4804
	2100	43.450	0.4813		2105	40.269	0.4821
	2110	38.269	0.4828		2115	36.150	0.4835
	2120	33.958	0.4842		2125	31.894	0.4848
	2130	30.480	0.4854		2135	28.014	0.4859
	2140	25.263	0.4864		2145	23.402	0.4869
	2200	20.257	0.4881		2215	17.836	0.4892
	2230	15.989	0.4902		2300	12.717	0.4918
	2330	10.548	0.4931		2400	8.924	0.4942

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



RIESEL (WACO), TEXAS WATERSEED W-1

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

AREA: 174.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												RIESEL (WACO), TEXAS WATERSEED W-1		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
P	0.00	1.56	0.26	3.29	2.26	1.41	10.14	3.48	2.38	3.96	4.63	7.16	40.52	
1971 Q	0.0	0.0	0.0	0.0	0.0	0.0	0.350	0.412	0.0	0.243	1.778	3.688	6.472	
STA AV P	2.18	2.75	2.56	3.98	4.20	3.24	1.75	2.12	2.57	2.68	2.98	2.67	33.70	
Q	0.486	0.635	0.735	1.008	1.183	0.600	0.123	0.100	0.133	0.178	0.428	0.594	6.130	

AVERAGE MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED RICE INTERVALS																
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.		
1971	12-9	1.382	12-9	1.005	12-9	1.367	12-9	1.989	12-9	2.365	12-9	2.965	12-8	3.180	12-2	3.623

MAXIMUMS FOR PERIOD OF RECORD																				
Year	Date	Vol.	Year	Date	Vol.	Year	Date	Vol.	Year	Date	Vol.									
1944	5-1	4.510	1944	5-1	2.990	1944	5-1	5.570	1944	5-1	6.910	1944	5-1	7.050	1944	4-30	9.200	1944	4-29	11.060

NOTES: Watershed conditions: 71% cotton; 95% pasture; 3% roads; and 1% 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, 1963, USDA Misc. Pub. 1164, p. 42-6-6 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gauges 75A, 89, W-2, and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSEED W-1		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.03E	0.03E	0.0	0.0	0.0	0.0	0.38	0.04E	0.0	0.0	1.05			
3	0.00E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0			
4	0.0	0.14	0.0	0.0 E	0.0	0.0	0.0	1.44	0.0	0.20	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.10E	0.0	0.02E	0.0	0.71			
6	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.01E	0.0	0.47			
7	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.24	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	0.29	0.0	0.0	0.52			
9	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.11E	0.0	0.0	1.15			
10	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0	0.02			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0			
12	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.75	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	0.05E			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.15			
15	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	2.07	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0			
17	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	3.93	0.03E			
18	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.28	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.02E	0.90	0.0	0.0			
20	0.0	0.0	0.0	0.79	0.40	0.0	0.0	0.0	0.0	1.64	0.0	0.0			
21	0.0	0.16	0.0	0.0	0.0	0.60	3.09	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.04E	0.0	0.05E	0.0	0.0	0.82	0.0	0.41	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.01E	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.14E	0.0	1.93	0.0	1.21	0.0	0.0	0.0			
25	0.0	1.07	0.09E	0.0	0.0	0.0	1.53	0.01E	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	0.16	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.04E	0.32	1.19	0.0	0.0	0.15	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.03E	0.61	0.0	0.0	0.0	0.00E	0.04E			
29	0.0	0.0	0.0	0.23	0.0	0.0	1.32	0.0	0.0	0.0	0.0	0.01E			
30	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.37	0.0	0.0	0.0	0.33			
31	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.00E	0.0	0.0	0.0	0.40			
TOTAL	0.00	1.56	0.26	3.29	2.26	1.41	10.14	3.48	2.38	3.96	4.63	7.16			
STA AV	2.18	2.75	2.56	3.98	4.20	3.24	1.75	2.12	2.57	2.68	2.98	2.67			

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 75A, 89, W-2, W-2A, and W-5A. Records began July 1937; part-year amounts not included in averages. STA AV based on 34 yr period. Estimate codes may indicate that non-significant event totals are included.

1971	MEAN DAILY DISCHARGE (cfs)						RIESEL (WACO), TEXAS				WATERSHED #=1	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.669
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.059
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.857	0.0	0.0	0.013
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.123	0.0	0.0	1.166
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	1.222
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.161
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.037
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.526
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.739
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.017
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.952	0.011
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.896	0.009
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.010
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.776	0.002	0.011
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
25	0.0	0.0	0.0	0.0	0.0	0.0	0.150	0.0	0.0	0.0	0.0	0.014
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
27	0.0	0.0	0.0	0.0	0.0	0.0	0.198	0.0	0.0	0.0	0.0	0.003
28	0.0	0.0	0.0	0.0	0.0	0.0	0.075	0.0	0.0	0.0	0.0	0.013
29	0.0	0.0	0.0	0.0	0.0	0.0	1.651	0.0	0.0	0.0	0.0	0.003
30	0.0	0.0	0.0	0.0	0.0	0.0	0.879	0.0	0.0	0.0	0.0	0.004
31	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.029
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0827	0.0972	0.0	0.0573	0.4333	0.8697
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.350	0.412	0.0	0.243	1.778	3.688
STA AV	0.486	0.615	0.735	1.008	1.183	6.600	0.123	0.100	0.133	0.178	0.428	0.548

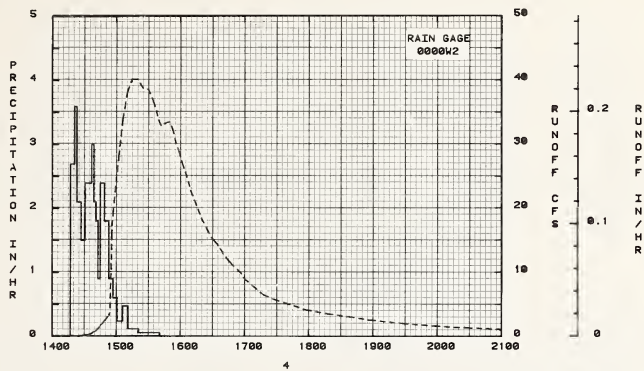
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.136791. Records began July 1937; part-year amounts not included in averages. STA AV based on 34 yr period.

1971	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS				WATERSHED #=1			
	PRECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 4, 1971											
8-4	RG 0000W2	0.0	8-4	RG 0000W2	0.0	0.0	8-4	1420	0.060	0.0	
				1417	0.0	0.0		1423	0.076	0.0	
				1421	2.6999	0.18		1424	0.069	0.0	
				1423	3.6003	0.30		1425	0.070	0.0	
				1427	2.1000	0.44		1426	0.098	0.0	
				1429	1.5001	0.49					
WATERSHED CONDITIONS:											
11% cow grain sorghams, mature;											
85% pasture, Bermuda grasses,											
good cover, moderately											
grazed; 3% gravel roads; 1%											
Johnson grass and weeds, not											
tilled or grazed.											
				1443	1.7999	1.01	1438	0.316	0.0001		
				1445	0.9000	1.04	1435	0.358	0.0001		
				1447	2.4001	1.12	1436	0.454	0.0001		
				1449	2.4000	1.20	1437	0.536	0.0001		
				1451	1.8000	1.26	1438	0.604	0.0002		
				1453	1.8004	1.32	1439	0.769	0.0003		
				1455	0.9000	0.35	1441	0.895	0.0004		
				1457	0.9000	1.38	1442	1.084	0.0005		
				1501	0.5999	1.42	1443	1.251	0.0006		
				1506	0.2401	1.44	1444	1.465	0.0007		
				1511	0.4799	1.48	1445	1.731	0.0009		
				1521	0.1200	1.50	1446	1.877	0.0011		
				1541	0.0600	1.52	1447	2.050	0.0013		
				1551	0.0	1.52	1448	2.266	0.0015		
							1449	2.476	0.0018		
							1450	2.667	0.0020		
							1451	2.892	0.0022		
							1452	3.093	0.0025		
							1453	3.372	0.0029		
							1454	3.728	0.0032		

NOTES: To convert runoff in CFS to IN/88, multiply by 0.005700.

1971 SELECTED RUNOFF EVENT			RINSEL (WACO), TEXAS			WATERSHED # - 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 AUGUST 4, 1971 (CONTINUED)										
							8- 4	1455	9.116	0.0038
								1456	16.611	0.0049
								1457	19.399	0.0069
								1458	21.082	0.0087
								1459	22.749	0.0107
								1500	24.254	0.0133
								1501	25.937	0.0155
								1502	27.661	0.0179
								1503	28.981	0.0204
								1504	30.625	0.0237
								1505	32.302	0.0265
								1506	33.778	0.0294
								1507	34.880	0.0325
								1508	35.916	0.0364
								1510	37.857	0.0430
								1512	39.007	0.0507
								1515	40.253	0.0622
								1520	40.170	0.0810
								1525	38.882	0.0995
								1530	38.595	0.1185
								1535	36.639	0.1361
								1540	33.699	0.1525
								1542	32.921	0.1592
								1545	33.309	0.1688
								1550	33.543	0.1884
								1553	32.379	0.1939
								1556	30.098	0.2022
								1559	28.833	0.2107
								1602	27.009	0.2188
								1605	25.583	0.2264
								1610	22.614	0.2377
								1615	20.494	0.2483
								1620	18.389	0.2574
								1625	16.731	0.2656
								1630	15.190	0.2734
								1635	14.327	0.2803
								1640	12.930	0.2867
								1645	11.798	0.2928
								1650	10.961	0.2981
								1654	10.298	0.3021
								1657	9.799	0.3050
								1700	8.974	0.3077
								1708	7.829	0.3181
								1718	6.432	0.3208
								1728	5.727	0.3266
								1738	5.194	0.3318
								1758	4.097	0.3406
								1818	3.483	0.3478
								1838	3.029	0.3540
								1858	2.487	0.3592
								1928	1.957	0.3655
								1958	1.563	0.3705
								2028	1.284	0.3746
								2058	1.073	0.3780
								2128	0.889	0.3808
								2158	0.820	0.3832
								2228	0.734	0.3854
								2258	0.645	0.3874
								2328	0.550	0.3891
								2400	0.467	0.3907

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.



BIESEL (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)													BIESEL (WACO), TEXAS WATERSHED W-2			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1971	P 0.0	1.41	0.25	3.21	2.01	1.62	9.84	4.48	2.48	3.99	4.65	7.07	41.00			
	Q 0.0001	0.0	0.0	0.0	0.0	0.0	0.298	1.142	0.101	0.477	2.058	4.288	8.364			
STA AV	P 2.15	2.73	2.48	3.99	4.16	3.19	1.71	2.22	2.59	2.67	2.95	2.63	33.46			
	Q 0.576	0.741	0.846	1.059	1.207	0.564	0.122	0.090	0.112	0.173	0.442	0.667	6.599			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Discharge Date	Maximum Discharge			Maximum Volume for Selected Time Interval										
	1 Hour	2 Hours	12 Hours	1 Day	2 Days	8 Days	15 Days	30 Days	60 Days	90 Days	1 Year			
1971	12-9	1.403	12-9	1.047	12-9	1.416	12-9	2.028	12-9	2.388	12-9	2.923	12-2	3.827

MAXIMUMS FOR PERIOD OF RECORD															
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	10.960
1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 56% pasture; 26% row grain sorghum; 9% fall planted small grain, largely oats; 3% cotton; 5% gravel and paved roads; 1% 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 National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)													BIESEL (WACO), TEXAS WATERSHED W-2			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.03E	0.02E	0.0	0.0	0.0	0.0	0.39	0.04E	0.0	0.0	1.02				
3	0.0E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0				
4	0.0	0.15	0.0	0.0E	0.0	0.0	0.0	2.02	0.0	0.20	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.15E	0.0	0.02E	0.0	0.68				
6	0.0	0.0	0.0	0.0	0.23E	0.0	0.0	0.0	0.0	0.01E	0.0	0.41				
7	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.25	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	0.40	0.0	0.0	0.47				
9	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.06E	0.0	3.50				
10	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.04				
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0E	0.0	0.0	0.0				
12	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.78	0.01E	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	0.04E				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.15				
15	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	2.04	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0				
17	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	3.96	0.03E				
18	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.31	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.02E	0.99	0.0	0.0				
20	0.0	0.0	0.0	0.75	0.30	0.0	0.0	0.0	0.0	1.54	0.0	0.0				
21	0.0	0.15	0.0	0.0	0.0	0.91	2.57	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.03E	0.0	0.01E	0.0	0.0	0.80	0.0	0.38	0.0				
23	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.02E	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.15E	0.0	2.31	0.0	1.22	0.0	0.0	0.0				
25	0.0	0.97	0.08E	0.0	0.0	0.0	1.25	0.00E	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	0.20	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.04E	0.37	1.19	0.0	0.0	0.16	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.03E	0.57	0.0	0.0	0.0	0.0E	0.03E				
29	0.0	0.0	0.20	0.0	0.0	0.0	1.36	0.0	0.0	0.0	0.0	0.01E				
30	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.75	0.0	0.0	0.0	0.32				
31	0.0	0.0	0.0	0.01E	0.0	0.0	0.02E	0.0	0.0	0.0	0.37	0.0				
TOTAL	0.0	1.41	0.25	3.21	2.01	1.62	9.84	4.48	2.48	3.99	4.65	7.07				
STA AV	2.15	2.73	2.48	3.99	4.16	3.19	1.71	2.22	2.59	2.67	2.95	2.63				

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-5, and W-6. Records began July 1937. STA AV based on 34 yr period. Estimate codes may indicate that non-significant event totals are included.

1971 SEAN DAILY DISCHARGE (cfs)				RIESEL (WACO), TEXAS					WATERSED W-2				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.022	0.006	0.044	0.061	
2	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.021	0.008	0.040	1.156	
3	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.018	0.022	0.030	0.145	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.290	0.016	0.035	0.029	0.079	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.155	0.010	0.018	0.026	1.524	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044	0.013	0.013	0.030	0.939	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.014	0.009	0.028	0.189	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.027	0.012	0.031	0.139	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.028	0.011	0.033	15.948	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.020	0.007	0.029	1.100	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.016	0.006	0.024	0.114	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.070	0.017	0.007	0.026	0.099	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.077	0.015	0.008	0.028	0.097	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.014	0.009	0.027	0.133	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.014	0.010	0.026	0.119	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.013	0.012	0.025	0.098	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.010	0.012	0.031	0.099	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.010	0.013	1.953	0.096	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.006	0.037	0.055	0.100	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.009	1.872	0.055	0.098	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.011	0.042	0.056	0.092	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.054	0.032	0.062	0.093	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.022	0.033	0.091	0.093	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.060	0.038	0.063	0.095	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044	0.021	0.042	0.040	0.065	0.095
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.019	0.047	0.064	0.095	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.097	0.020	0.016	0.067	0.062	0.093
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.016	0.010	0.047	0.064	0.090
29	0.0	0.0	0.0	0.0	0.0	0.0	1.076	0.015	0.007	0.043	0.060	0.089	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.357	0.036	0.007	0.043	0.062	0.151	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.036	0.007	0.043	0.062	0.151	
SEAN	0.0001	0.0	0.0	0.0	0.0	0.0	0.0525	0.2012	0.0185	0.0840	0.3746	0.7555	
INCHES	0.001	0.0	0.0	0.0	0.0	0.0	0.298	1.142	0.101	0.477	2.058	4.288	
STA IV	0.576	0.741	0.846	1.059	1.207	0.564	0.122	0.090	0.112	0.173	0.442	0.667	

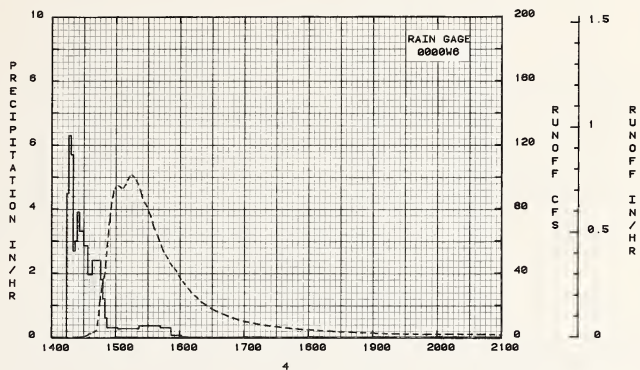
NOTES: To convert sean daily discharge in CFS to IN/DAY, multiply by 0.183090. Records began July 1937. STA IV based on 34 yr period.

1971 SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS					WATERSED W-2			
PRECEDENT 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 4, 1971												
8-4 RG 000086												
8-4	0.0	0.002	8-4	1414	0.0	0.0	8-4	1420	0.011	0.0		
				1416	4.5002	0.15		1421	0.019	0.0		
				1418	6.2998	0.36		1422	0.040	0.0		
				1420	5.7000	0.55		1423	0.059	0.0		
				1422	2.7004	0.64		1424	0.098	0.0		
				1424	2.9997	0.74		1425	0.154	0.0		
				1426	3.9002	0.87		1426	0.195	0.0		
				1430	3.3000	1.09		1427	0.238	0.0		
				1434	2.8500	1.28		1428	0.324	0.0		
				1438	1.9498	1.41		1429	0.423	0.0		
				1442	2.4001	1.57		1430	0.544	0.0001		
				1446	2.4001	1.73		1431	0.668	0.0002		
				1448	1.8000	1.79		1432	0.874	0.0003		
				1450	1.1596	1.83		1433	1.168	0.0004		
				1452	0.6001	1.85		1434	1.473	0.0006		
				1502	0.3000	1.90		1435	2.022	0.0008		
				1522	0.2990	1.99		1436	2.487	0.0011		
				1542	0.3600	2.11		1437	2.578	0.0014		
				1552	0.3000	2.16		1439	3.044	0.0022		
				1602	0.0601	2.17		1440	3.338	0.0026		
				1607	0.0	2.17		1441	3.919	0.0030		
								1442	4.497	0.0036		
								1443	7.714	0.0043		
								1444	13.706	0.0056		
								1445	21.082	0.0082		
								1446	25.583	0.0110		
								1447	30.173	0.0143		
								1448	36.013	0.0181		
								1449	36.801	0.0234		
								1450	40.504	0.0280		

NOTES: To convert runoff in CFS to IN/IN, multiply by 0.007625.

1971 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED #-2							
PRECEDENT 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 4, 1971 (CONTINUED)										
							8- 4	1451	47.673	0.0333
								1452	56.683	0.0395
								1453	64.062	0.0485
								1454	71.563	0.0566
								1455	77.336	0.0655
								1456	84.040	0.0751
								1457	87.358	0.0879
								1458	91.062	0.0985
								1459	92.651	0.1094
								1500	93.806	0.1233
								1502	94.709	0.1458
								1505	93.221	0.1622
								1507	93.221	0.2044
								1509	95.398	0.2297
								1511	96.175	0.2528
								1513	100.512	0.2794
								1515	101.334	0.3065
								1517	99.809	0.3305
								1519	98.059	0.3570
								1521	95.168	0.3800
								1523	91.289	0.4050
								1525	86.913	0.4262
								1527	83.821	0.4491
								1529	81.420	0.4688
								1531	78.189	0.4902
								1533	74.902	0.5084
								1535	70.018	0.5278
								1537	66.864	0.5441
								1539	63.566	0.5616
								1541	60.234	0.5764
								1543	56.494	0.5921
								1545	53.214	0.6068
								1547	51.189	0.6192
								1549	49.015	0.6326
								1551	46.258	0.6440
								1553	44.424	0.6562
								1555	42.960	0.6666
								1557	41.008	0.6779
								1559	38.513	0.6874
								1601	36.157	0.6974
								1603	34.485	0.7058
								1605	32.921	0.7148
								1608	30.323	0.7271
								1611	27.734	0.7375
								1614	25.866	0.7479
								1617	24.185	0.7576
								1620	22.076	0.7666
								1625	19.655	0.7797
								1630	17.584	0.7919
								1635	15.895	0.8024
								1640	14.441	0.8119
								1645	13.205	0.8210
								1650	11.904	0.8298
								1655	10.704	0.8360
								1700	9.799	0.8427
								1710	8.545	0.8542
								1720	7.355	0.8644
								1730	6.444	0.8732
								1740	5.699	0.8808
								1750	5.027	0.8877
								1800	4.460	0.8938
								1820	3.675	0.9041
								1840	3.044	0.9126
								1900	2.468	0.9197
								1920	2.029	0.9254
								1950	1.708	0.9325
								2015	1.868	0.9382
								2045	1.625	0.9449
								2115	1.331	0.9505
								2145	1.010	0.9550
								2215	0.827	0.9585
								2245	0.721	0.9615
								2315	0.630	0.9641
								2345	0.528	0.9663
								2400	0.469	0.9673

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



EVENT OF AUGUST 4, 1971
 BIESEL (WACO), TEXAS WATERSHED W-2

RISSEL (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)													RISSEL (WACO), TEXAS			WATERSHED W-6		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
P	0.0	1.49	0.24	3.19	2.15	1.70	9.89	4.39	2.24	4.15	4.62	6.53	40.98					
Q	0.0	0.0	0.0	0.0	0.0	0.0	0.273	0.668	0.0	0.083	1.310	4.173	6.507					
STA AV	1.98	2.67	2.37	4.02	3.88	3.31	1.68	2.29	2.70	2.88	2.98	2.49	33.21					
Q	0.315	0.400	0.539	0.719	0.779	0.460	0.077	0.049	0.086	0.109	0.323	0.455	4.310					

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VALUES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
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.	
1971 11-17	1.295	12-9	1.030	12-9	1.530	12-8	2.290	12-9	2.845	12-9	3.561	12-8	3.731	12-2	4.007
MAXIMORS FOR PERIOD OF RECORD															
6-10 1941	3.990	4-19 1957	2.330	4-19 1957	2.780	5-11 1957	3.130	5-11 1957	3.210	3-29 1965	4.060	11-22 1940	5.090	4-19 1957	9.060

NOTES: Watershed conditions: 66% row grain sorghum; 15% pasture; 10% cotton; 7% gravel and paved roads; 2% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Crop-land farmed on contour, not terraces. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, OSDA Rec. 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 gauges W-2, W-4 and W-5. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)													RISSEL (WACO), TEXAS			WATERSHED W-6		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
2	0.0	0.02E	0.02E	0.0	0.0	0.0	0.37	0.0	0.02E	0.0	0.0	1.02						
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0						
4	0.0	0.16	0.0	0.0	0.0	0.0	0.0	1.97	0.0	0.20	0.0	0.0						
5	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.13E	0.0	0.02E	0.0	0.66						
6	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.01E	0.0	0.42						
7	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.25	0.0	0.0	0.0	0.0						
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.46						
9	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.06E	0.0	3.41						
10	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04						
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	0.15	0.0	0.0	0.0	0.0	0.84	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	0.05E						
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.15						
15	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0						
16	0.0	0.0	0.0	2.02	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0						
17	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	3.94	0.03E						
18	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.31	0.0						
19	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.01E	1.09	0.0	0.0						
20	0.0	0.0	0.0	0.77	0.32	0.0	0.0	0.0	0.0	1.65	0.0	0.0						
21	0.0	0.15	0.0	0.0	0.0	0.85	2.67	0.0	0.0	0.0	0.0	0.0						
22	0.0	0.0	0.0	0.05E	0.0	0.00E	0.0	0.0	0.73	0.0	0.38	0.0						
23	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.01E	0.0	0.0						
24	0.0	0.0	0.0	0.0	0.14E	0.0	2.31	0.0	1.19	0.0	0.0	0.0						
25	0.0	1.05	0.07E	0.0	0.0	0.0	1.19	0.00E	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	0.22	0.0	0.0						
27	0.0	0.0	0.0	0.0	0.03E	0.45	1.08	0.0	0.0	0.13	0.0	0.0						
28	0.0	0.0	0.0	0.0	0.0	0.02E	0.67	0.0	0.0	0.0	0.0	0.03E						
29	0.0	0.0	0.19	0.0	0.0	0.0	1.43	0.0	0.0	0.0	0.0	0.01E						
30	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.70	0.0	0.0	0.0	0.28						
31	0.0				0.01E		0.0	0.01E		0.0		0.35						
TOTAL	0.0	1.49	0.24	3.19	2.15	1.70	9.89	4.39	2.24	4.15	4.62	6.93						
STA AV	1.98	2.67	2.37	4.02	3.88	3.31	1.68	2.29	2.70	2.88	2.98	2.49						

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, and W-5. 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 29 yr period. Estimate codes may indicate that non-significant event totals are included.

1971 BEAN DAILY DISCHARGE (cfs)												RIESEL (WACO), TEXAS				WATERSHED #=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	0.003							
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	0.064						
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	0.006						
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.165	0.0	0.0	0.0	0.0	0.003						
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.163						
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	0.239						
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	0.021						
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	0.015						
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	6.328						
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	0.304						
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	0.009						
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.006						
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.006						
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	0.019						
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	0.009						
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	0.008						
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	1.871	0.007					
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	0.442	0.008					
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	0.001	0.011					
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.142	0.0	0.0	0.0	0.111					
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	T	0.010						
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	0.002	0.013					
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	0.002	0.016					
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	0.001	0.013					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.0	0.0	0.0	0.0	0.001	0.014					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.001	0.025					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.0	0.001	0.001	0.021						
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.001	0.019					
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.230	0.0	0.0	0.0	0.0	0.002	0.019					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.086	0.0	0.0	0.0	0.0	0.002	0.018					
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	0.010					
BEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0157	0.0383	0.0	0.0047	0.0776	0.2392						
RIESEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.273	0.668	0.0	0.063	1.310	4.173						
STA 1V	0.315	0.400	0.539	0.719	0.779	0.460	0.077	0.949	0.086	0.109	0.323	0.455							

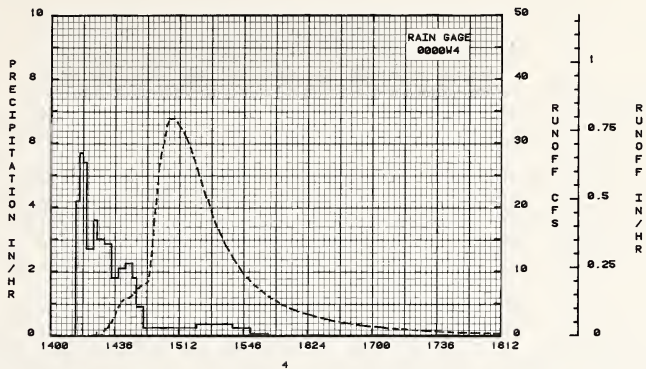
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562687. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA 1V based on 29 yr period.

1971 SELECTED RUNOFF EVENT												RIESEL (WACO), TEXAS				WATERSHED #=6			
AFTERCROPPED 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 4, 1971																			
BG 000044																			
8-4	0.0	0.0	8-4	1414	0.0	0.0	8-4	1424	0.006	0.0									
				1416	4.1999	0.14		1425	0.007	0.0									
				1418	5.7002	0.33		1426	0.013	0.0									
				1420	5.3997	0.51		1427	0.018	0.0									
				1422	2.6999	0.60		1428	0.033	0.0									
WATERSHED CONDITIONS:																			
66% row grain sorghum, mature;																			
15% pasture, Bermuda grass,																			
good cover, moderately grazed;																			
10% cotton, fruiting; 7%																			
gravel road; 2% native grass																			
waterways, dense cover.																			
Cropland farmed on contour,																			
not terraced.																			
				1442	2.1000	1.46		1434	2.037	0.0023									
				1446	2.2501	1.61		1435	2.473	0.0031									
				1448	1.8000	1.67		1436	2.994	0.0041									
				1450	0.9000	1.70		1437	3.665	0.0053									
				1452	0.9000	1.73		1438	4.826	0.0072									
				1502	0.2800	1.77		1439	4.955	0.0089									
				1522	0.2400	1.85		1440	5.282	0.0108									
				1542	0.3600	1.97		1441	5.595	0.0128									
				1552	0.2400	2.01		1444	5.891	0.0196									
				1602	0.0600	2.02		1446	6.310	0.0246									
				1607	0.0	2.02		1447	6.668	0.0270									
								1448	7.008	0.0295									
								1449	7.329	0.0328									
								1451	7.833	0.0384									
								1454	8.245	0.0480									
								1455	8.533	0.0511									
								1456	10.934	0.0547									
								1457	14.175	0.0604									
								1458	18.232	0.0663									
								1459	20.652	0.0734									

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

PRECEDENT CONDITIONS			RAINFALL			RUBOFF				
Date	Rainfall	Ruboff	Date	Time	Intensity	Date	Time	Rate		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	
EVENT OF AUGUST 4, 1971 (CONTINUED)										
						8- 4		1500	24.833	0.0838
								1501	26.847	0.0933
								1502	28.590	0.1035
								1503	29.663	0.1182
								1504	31.172	0.1281
								1505	32.795	0.1398
								1506	33.400	0.1519
								1507	33.791	0.1642
								1509	33.879	0.1921
								1511	33.097	0.2166
								1513	32.236	0.2435
								1515	31.257	0.2697
								1517	29.996	0.2921
								1519	28.426	0.3162
								1521	26.847	0.3364
								1522	26.090	0.3461
								1523	24.911	0.3578
								1524	24.175	0.3668
								1525	23.256	0.3755
								1526	22.238	0.3838
								1527	21.458	0.3938
								1528	21.127	0.4016
								1529	20.217	0.4092
								1530	19.206	0.4182
								1531	18.441	0.4251
								1532	17.610	0.4317
								1533	16.827	0.4380
								1534	16.458	0.4456
								1536	15.301	0.4572
								1538	14.017	0.4693
								1540	13.174	0.4793
								1542	12.180	0.4897
								1544	11.253	0.4983
								1546	10.420	0.5072
								1548	9.583	0.5145
								1550	9.012	0.5222
								1552	8.454	0.5286
								1554	7.859	0.5353
								1556	7.454	0.5409
								1558	6.983	0.5468
								1600	6.500	0.5524
								1602	6.099	0.5570
								1604	5.731	0.5619
								1606	5.438	0.5660
								1608	5.107	0.5703
								1610	4.762	0.5739
								1612	4.551	0.5777
								1614	4.281	0.5809
								1619	3.723	0.5889
								1624	3.286	0.5956
								1629	2.869	0.6015
								1634	2.524	0.6069
								1639	2.195	0.6114
								1644	1.990	0.6154
								1649	1.778	0.6192
								1654	1.532	0.6224
								1659	1.381	0.6252
								1704	1.287	0.6279
								1709	1.083	0.6302
								1720	0.913	0.6345
								1730	0.689	0.6377
								1740	0.537	0.6401
								1750	0.433	0.6420
								1800	0.368	0.6436

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



EVENT OF AUGUST 4, 1971
 RIESEL (WACO), TEXAS WATERSHED 9-6

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												
P	0.0	1.33	0.26	3.20	1.86	1.59	9.78	4.77	2.74	3.91	4.68	7.18	41.26												
1971	0	0.0	0.0	0.0	0.0	0.0	0.450	1.397	0.0	0.897	4.68	4.90	8.709												
STA AV	2.01	2.68	2.27	3.99	3.77	3.27	1.63	2.39	2.65	2.87	2.94	2.48	32.95												
0	0.452	0.518	0.552	0.937	0.873	0.567	0.099	0.134	0.182	0.289	0.526	0.584	5.711												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF FLOWOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge	1 Hour			2 Hours			6 Hours			1 Day						
	Date	Rate	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
1971	11-17	1.423	11-17	1.061	11-17	1.751	11-17	2.411	11-17	2.552	12-9	3.208	12-8	3.471	12-2	4.370

MAXIMUMS FOR PERIOD OF RECORD																
Discharge	1 Hour	2 Hours	6 Hours	1 Day	2 Days	8 Days										
Date	Rate	Vol.	Date	Vol.	Date	Vol.										
1971	6-10	5.010	4-19	2.310	4-19	2.550	5-11	3.000	11-22	3.330	11-22	3.530	4-24	5.160	5-19	8.290
1941	1957	1957	1957	1957	1940	1940	1966	1957								

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, excoriated. 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, 1944; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED W-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	0.038	0.018	0.0	0.0	0.0	0.0	0.41	0.05	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	0.58	0.0	0.0												
4	0.0	0.16	0.0	0.0	0.0	0.0	0.0	2.17	0.0	0.19	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.18	0.0	0.02E	0.0	0.70												
6	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.018	0.0	0.38												
7	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.25	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.53	0.0	0.47												
9	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.068	0.0	3.57												
10	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.0	0.0	0.0	0.0	0.04												
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	0.17	0.0	0.0	0.0	0.0	0.75	0.028	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	0.04E												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	2.05	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0												
17	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	3.99	0.03E												
18	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.32	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.95	0.0												
20	0.0	0.0	0.0	0.72	0.29	0.0	0.0	0.0	0.0	1.43	0.0	0.0												
21	0.0	0.15	0.0	0.0	0.0	1.06	2.40	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.87	0.0	0.37	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02E	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.16E	0.0	2.46	0.0	1.25	0.0	0.0	0.0												
25	0.0	0.87	0.08E	0.0	0.0	0.0	1.20	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	0.16	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.04E	0.28	1.31	0.0	0.0	0.79	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.03E	0.38	0.0	0.0	0.0	0.0	0.02E												
29	0.0	0.0	0.0	0.22	0.0	0.0	1.35	0.0	0.0	0.0	0.0	0.01E												
30	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.89	0.0	0.0	0.36	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.38	0.0												
TOTAL	0.0	1.33	0.26	3.20	1.86	1.59	9.78	4.77	2.74	3.91	4.68	7.18												
STA AV	2.01	2.68	2.27	3.99	3.77	3.27	1.63	2.39	2.65	2.87	2.94	2.48												

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, 1944; part-year amounts not included in averages. STA AV based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

1971				EISEL (WACO), TEXAS WATERSHED W-10											
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	0.002	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	0.301	
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	0.021	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.131	0.0	0.0	0.0	0.0	0.0	0.0 T	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.315	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.097	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.017	
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	0.002	
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	2.647	
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	0.228	
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	0.002	
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	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	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	0.0 T	
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	1.561	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	0.570	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 T	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.742	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	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 T	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	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	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	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	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	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 T	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	0.263	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	0.064	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
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	0.001	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0373	0.0	0.0236	0.0710	0.1172	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.450	1.397	0.0	0.897	2.575	4.390	0.0	0.0	
STA AV	0.452	0.518	0.552	0.937	0.873	0.567	0.099	0.134	0.182	0.289	0.526	0.586	0.0	0.0	

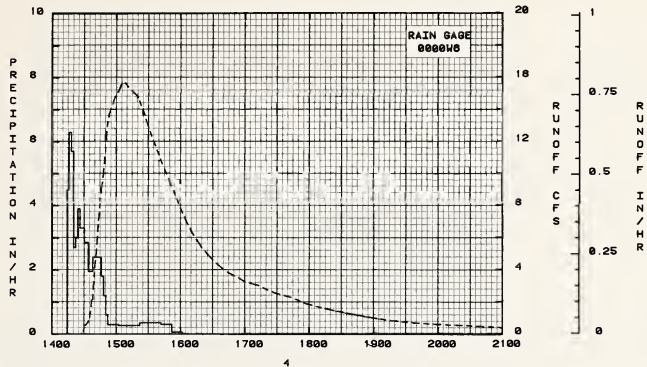
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.208206. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 29 yr period.

1971				EISEL (WACO), TEXAS WATERSHED W-10											
SELECTED RUNOFF EVENT															
AFORESAID 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 4, 1971															
8-4	0.0	0.0	8-4	1418	0.0	0.0	8-4	1425	0.009	0.0					
				1416	4.5002	0.15		1426	0.016	0.0					
				1418	6.2998	0.36		1427	0.028	0.0					
				1420	5.7000	0.55		1428	0.066	0.0					
				1422	2.7004	0.64		1429	0.188	0.0001					
WATERSHED CONDITIONS:															
100% Coastal Bermuda grass															
pasture, 4 to 6 inches high,															
good cover.															
				1424	2.9997	0.74		1430	0.423	0.0004					
				1426	3.9002	0.87		1431	0.554	0.0008					
				1430	3.3000	1.09		1432	2.126	0.0013					
				1434	2.8500	1.28		1433	0.715	0.0018					
				1438	1.9498	1.41		1434	0.829	0.0026					
				1442	2.4001	1.57		1435	1.063	0.0033					
				1446	2.4001	1.73		1436	1.442	0.0043					
				1448	1.8000	1.79		1437	2.126	0.0057					
				1450	1.1998	1.83		1438	2.179	0.0078					
				1452	0.6001	1.85		1439	3.267	0.0099					
				1502	0.3000	1.90		1440	4.282	0.0129					
				1522	0.2700	1.99		1441	5.020	0.0166					
				1542	0.3600	2.11		1442	5.799	0.0219					
				1552	0.3000	2.16		1443	6.788	0.0269					
				1602	0.0601	2.17		1444	7.605	0.0326					
				1607	0.0	2.17		1445	8.481	0.0405					
								1446	9.012	0.0474					
								1447	9.473	0.0547					
								1448	10.026	0.0624					
								1449	10.733	0.0726					
								1450	11.842	0.0815					
								1451	12.653	0.0911					
								1452	13.267	0.1013					
								1453	13.703	0.1146					
								1455	14.080	0.1365					

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

1971			SIRSEL (WACO), TEXAS			WABBSRNO 8-10				
PRECIPITATION 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 4, 1971 (CONTINUED)										
							8- 4	1057	14.494	0.1618
								1459	18.847	0.1845
								1502	15.203	0.2233
								1505	15.661	0.2628
								1508	15.661	0.3028
								1511	15.399	0.3394
								1515	15.138	0.3934
								1520	14.815	0.4552
								1525	13.954	0.5146
								1530	12.897	0.5727
								1535	12.020	0.6241
								1540	11.166	0.6720
								1545	10.250	0.7183
								1550	9.500	0.7591
								1555	8.665	0.7966
								1600	7.808	0.8322
								1605	7.081	0.8629
								1610	6.405	0.8907
								1615	5.868	0.9172
								1620	5.393	0.9405
								1625	4.976	0.9619
								1630	4.614	0.9826
								1635	4.302	1.0010
								1640	3.999	1.0181
								1645	3.782	1.0349
								1650	3.607	1.0502
								1655	3.436	1.0641
								1700	3.230	1.0791
								1713	2.994	1.1128
								1728	2.535	1.1476
								1743	2.267	1.1778
								1758	1.849	1.2037
								1818	1.507	1.2317
								1838	1.238	1.2549
								1858	0.995	1.2736
								1918	0.785	1.2885
								1938	0.669	1.3008
								1958	0.577	1.3112
								2018	0.520	1.3204
								2038	0.452	1.3286
								2058	0.381	1.3356
								2118	0.314	1.3414
								2138	0.266	1.3463
								2158	0.225	1.3504
								2218	0.193	1.3539
								2238	0.176	1.3570
								2258	0.156	1.3598
								2328	0.133	1.3634
								2400	0.112	1.3667

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



EVENT OF AUGUST 4, 1971
 BIESEL (WACO), TEXAS WATERSHED W-10

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	Jan	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971	P 0.01	1.64	0.29	3.33	2.18	1.41	10.86	2.95	2.19	4.21	4.86	7.08	41.00
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.890	0.295	0.000	0.305	1.694	3.728	6.912
STA AV	P 2.10	2.66	2.31	3.90	3.81	3.39	1.76	2.06	2.57	2.71	2.82	2.48	32.58
	Q 0.479	0.541	0.573	0.766	0.710	0.541	0.145	0.052	0.098	0.354	0.433	0.788	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Discharge Date	Basins	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	Date	Date	Date	Date	Date	Date					
1971	11-17	1-500	11-17	0.983	11-17	1-250	12- 9	1.637	12- 9	1-995	12- 9	2-580	11-22	8	2-832	12- 2	3-488

MAXIMUMS FOR PERIOD OF RECORD													
Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
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
1957		1957		1957		1957		1957		1965		1940	1957

NOTES: Watershed conditions: 58% pasture; 10% cotton; 16% fall planted small grain, largely oats; 15% 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 8-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971	DAILY PRECIPITATION (inches)						RIESEL (WACO), TEXAS WATERSHED Y					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.04E	0.05E	0.0	0.0	0.0	0.0	0.37	0.03E	0.0	0.0	1.00
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0
4	0.0	0.15	0.0	0.0 E	0.0	0.0	0.0	0.94	0.0	0.21	0.0	0.0
5	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.22E	0.0	0.03E	0.0	0.68
6	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	0.0	0.01E	0.0	0.51
7	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.24	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	0.13E	0.0	0.0	0.58
9	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.08E	0.0	3.19
10	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0
12	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.75	0.02E	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	0.05E
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.17
15	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	2.07	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0
17	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.03E
18	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.29	0.0
19	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.01E	1.03	0.0	0.0
20	0.0	0.0	0.0	0.82	0.57	0.0	0.0	0.0	0.0	1.71	0.0	0.0
21	0.0	0.15	0.0	0.0	0.0	0.44	3.86	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.05E	0.0	0.18E	0.0	0.0	0.79	0.0	0.45	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.01E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.13E	0.0	1.94	0.0	1.21	0.0	0.0	0.0
25	0.0	1.10	0.08E	0.0	0.0	0.0	1.52	0.04E	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	0.16	0.0	0.0
27	0.0	0.0	0.0	0.0	0.04E	0.34	1.41	0.0	0.0	0.12	0.0	0.0
28	0.0	0.0	0.0	0.0	0.04E	0.0	0.52	0.0	0.0	0.0	0.00E	0.03E
29	0.0	0.0	0.22	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	0.01E
30	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.18	0.0	0.0	0.0	0.40
31	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.09E	0.0	0.0	0.0	0.40
TOTAL	0.01	1.64	0.29	3.33	2.18	1.41	10.86	2.95	2.19	4.21	4.86	7.08
STA AV	2.10	2.66	2.31	3.90	3.81	3.39	1.76	2.06	2.57	2.71	2.82	2.48

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 8-2A. 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 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1971		NEAR DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS					WATERSPEED Y						
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	0.009	0.0	0.0	0.008	0.021						
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.003	1.665						
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.011	0.175						
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.594	0.0	0.0	0.0	0.058						
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.522	0.0	0.0	0.002	2.778						
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.104	0.0	0.0	0.002	2.993						
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.211	0.0	0.0	0.001	0.439						
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0	0.0	0.360						
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	31.501						
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	3.171						
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.289						
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.102	0.0	0.0	0.0	0.195						
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.121	0.0	0.0	0.0	0.161						
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.340						
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.217						
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.120						
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	16.717	0.110						
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	4.606	0.955						
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.060	0.100						
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.824	0.033	0.952						
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.026	0.025	0.072					
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.014	0.111	0.070					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.201	0.075						
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.228	0.0	0.001	0.010	0.044	0.073					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.937	0.0	0.0 T	0.009	0.038	0.082					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.011	0.039	0.079					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.862	0.0	0.0	0.023	0.028	0.080					
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.888	0.0	0.0	0.007	0.029	0.075					
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.814	0.0	0.0	0.007	0.024	0.073					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.699	0.0	0.0	0.006	0.020	0.077					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044	0.0	0.0	0.004	0.168						
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3727	0.1236	0.0001	0.1275	0.7329	1.5614					
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.950	0.295	0.000	0.305	1.658	3.728					
STA AV	0.479	0.541	0.573	0.766	0.710	0.541	0.145	0.052	0.096	0.098	0.354	0.433						

NOTES: To convert mean daily discharge in CFS to M³/DAY, multiply by 0.077026. Records began May 1937; station not in operation July 1943 to Bay 1, 1946; part-year amounts not included in averages. STA AV based on 30 yr period.

1971		SELECTED RONOFF EVENT					RIESEL (WACO), TEXAS					WATERSPEED Y							
ANTECEDENT CONDITIONS					RAINFALL					RONOFF									
Date	Mainfall	Rmnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.									
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)									
EVENT OF NOVEMBER 17 - 18, 1971																			
NG 000070					RG 000070														
11-17	0.0	0.0	11-17	1910	0.0	0.0	11-17	1940	0.042	0.0									
				1916	0.3999	0.04		1942	0.057	0.0									
				1918	1.2005	0.08		1944	0.077	0.0									
				1920	0.5995	0.10		1946	0.100	0.0									
				1923	0.2002	0.11		1948	0.134	0.0									
WATERSPEED CONDITIONS:																			
58% pasture, Bermuda grass					1924					1950									
and native grass, good					1926					1952									
cover, moderately grazed:					1930					1956									
1% fall planted oats, 2					1931					1959									
inches high; 27% tilled,					1934					2002									
bare; 1% gravel roads.																			
Cropland terraced, cultivated					1936					2005									
on contour.					1938					2008									
					1940					2011									
					1942					2014									
					1944					2017									
										2021									
										2026									
										2031									
										2036									
										2041									
					2004					2046									
					2010					2051									
					2116					2056									
					2118					2101									
					2120					2106									
										2111									
										2116									
										2118									
										2120									
										2122									

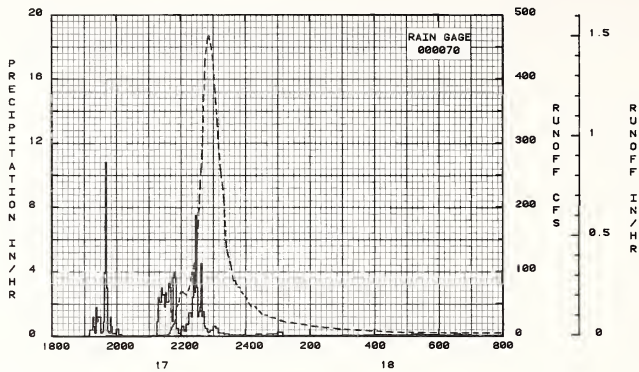
NOTES: To convert rmonoff in CFS to M³/DAY, multiply by 0.003210.

1971 SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS WATERSHED Y						
PRECEDENT 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 NOVEMBERE 17 - 18, 1971 (CONTINUED)										
11-17	2134	2.6993	1.71	11-17	2124	0.804	0.0018			
	2136	2.1007	1.78		2126	0.975	0.0019			
	2138	2.0993	1.85		2128	1.018	0.0020			
	2140	3.3008	1.96		2130	1.238	0.0021			
	2142	2.9995	2.06		2132	1.492	0.0022			
	2144	1.5005	2.11		2138	1.767	0.0024			
	2146	0.8998	2.14		2136	2.339	0.0026			
	2148	3.6007	2.26		2138	2.956	0.0029			
	2150	3.8993	2.39		2139	4.126	0.0031			
	2152	3.6007	2.51		2140	5.889	0.0034			
	2156	0.4500	2.54		2141	8.471	0.0038			
	2200	0.1501	2.55		2142	10.702	0.0044			
	2202	0.2999	2.56		2143	12.017	0.0050			
	2204	0.6000	2.58		2144	14.169	0.0057			
	2206	0.5998	2.60		2145	15.324	0.0066			
	2210	0.3001	2.62		2146	16.897	0.0074			
	2215	0.7199	2.68		2147	17.794	0.0083			
	2220	1.4402	2.80		2148	18.632	0.0092			
	2222	1.2001	2.84		2149	21.528	0.0105			
	2224	2.3995	2.92		2150	24.917	0.0117			
	2226	3.9011	3.05		2151	32.705	0.0131			
	2228	2.6993	3.14		2152	40.117	0.0149			
	2230	7.4984	3.39		2153	45.153	0.0176			
	2232	3.0009	3.49		2155	48.502	0.0223			
	2234	1.1995	3.53		2157	52.942	0.0280			
	2236	1.5005	3.58		2158	59.427	0.0308			
	2238	1.7995	3.64		2159	65.758	0.0339			
	2240	4.5009	3.79		2201	68.547	0.0415			
	2242	1.2000	3.83		2203	68.794	0.0484			
	2244	1.5005	3.88		2204	71.203	0.0527			
	2246	0.5995	3.90		2206	66.478	0.0594			
	2250	0.4500	3.93		2211	63.634	0.0765			
	2255	0.2401	3.95		2214	71.169	0.0875			
	2300	0.3599	3.98		2217	78.112	0.0997			
	2305	0.6001	4.03		2220	88.176	0.1133			
	2310	0.8799	4.07		2222	96.920	0.1226			
	2320	0.1800	4.10		2224	104.931	0.1340			
	2330	0.1200	4.12		2226	113.597	0.1450			
	2340	0.0601	4.13		2228	122.210	0.1583			
	2400	0.0600	4.15		2230	135.560	0.1728			
11-18	20	0.0	4.15		2231	145.939	0.1799			
	30	0.1200	4.17		2232	159.653	0.1876			
	40	0.0	4.17		2233	172.224	0.1959			
	50	0.1200	4.19		2234	190.715	0.2073			
	100	0.1199	4.21		2235	213.019	0.2174			
	110	0.2401	4.25		2236	229.474	0.2285			
	200	0.0	4.25		2237	242.242	0.2403			
	300	0.0	4.25		2238	254.964	0.2559			
	400	0.0300	4.28		2239	267.864	0.2690			
	430	0.0600	4.31		2240	281.198	0.2828			
	510	0.0300	4.33		2241	310.094	0.2976			
	530	0.0900	4.36		2242	335.298	0.3178			
	600	0.0600	4.39		2243	368.127	0.3354			
	630	0.0200	4.40		2244	391.166	0.3544			
	640	0.1200	4.42		2245	411.969	0.3796			
	700	0.0300	4.43		2246	431.635	0.4008			
					2248	447.742	0.4449			
					2250	459.991	0.4961			
					2252	467.372	0.5426			
					2253	467.372	0.5719			
					2254	461.580	0.5952			
					2256	454.989	0.6412			
					2258	445.470	0.6920			
					2300	429.051	0.7413			
					2302	406.259	0.7832			
					2304	384.990	0.8278			
					2306	360.216	0.8652			
					2308	333.120	0.9043			
					2310	306.269	0.9364			
					2312	281.477	0.9696			
					2314	260.438	0.9968			
					2316	246.012	1.0254			
					2318	234.819	1.0495			
					2320	217.404	1.0750			
					2321	202.875	1.0855			

NOTES: To convert runoff in CFS to I8/RS, multiply by 0.003210.

1971 SELECTED RUNOFF EVENT				RESSEL (WACO), TEXAS				WATERBURY			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			BROFF		
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 17 - 18, 1971 (CONTINUED)											
							11-17	2322	185.450	1.0952	
								2323	162.879	1.1061	
								2324	185.054	1.1138	
								2325	136.914	1.1209	
								2326	133.380	1.1277	
								2329	122.210	1.1485	
								2332	114.850	1.1678	
								2335	101.440	1.1854	
								2338	85.395	1.2006	
								2341	85.829	1.2135	
								2344	79.475	1.2270	
								2347	75.304	1.2396	
								2350	75.304	1.2519	
								2353	67.811	1.2636	
								2356	64.690	1.2736	
							11-18	2400	61.107	1.2878	
								3	56.917	1.2967	
								6	51.132	1.3055	
								11	45.790	1.3163	
								18	45.425	1.3355	
								21	42.234	1.3426	
								26	37.681	1.3531	
								31	33.938	1.3630	
								36	32.208	1.3717	
								41	31.785	1.3801	
								46	28.812	1.3885	
								56	26.905	1.4032	
								106	23.484	1.4168	
								116	21.006	1.4288	
								126	20.292	1.4397	
								146	17.207	1.4599	
								206	14.718	1.4769	
								226	12.897	1.4916	
								256	10.207	1.5101	
								326	8.605	1.5252	
								356	7.025	1.5377	
								426	5.558	1.5478	
								456	4.733	1.5561	
								526	4.376	1.5634	
								556	4.232	1.5703	
								626	3.756	1.5767	
								656	3.660	1.5827	
								726	3.871	1.5887	
								756	3.519	1.5946	
								826	3.192	1.6000	
								856	2.876	1.6049	
								926	2.536	1.6092	
								956	2.151	1.6130	
								1026	1.961	1.6163	
								1056	1.743	1.6193	
								1126	1.528	1.6219	
								1156	1.388	1.6242	
								1226	1.263	1.6263	
								1256	1.073	1.6282	
								1326	0.934	1.6298	
								1400	0.794	1.6314	
								1500	0.665	1.6337	
								1600	0.529	1.6356	
								1700	0.427	1.6371	
								1800	0.354	1.6384	
								1900	0.285	1.6394	
								2000	0.241	1.6402	
								2100	0.209	1.6409	
								2200	0.176	1.6415	
								2300	0.154	1.6420	
								2400	0.129	1.6425	

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



EVENT OF NOVEMBER 17 - 18, 1971
 RIESEL (WACO), TEXAS WATERSHED Y

RISSEL (WACO), TEXAS WATERSHED T-2

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

AREA: 132.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RISSEL (WACO), TEXAS WATERSHED T-2		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1971	P 0.01	1.59	0.30	3.34	2.19	1.38	10.91	2.89	2.13	4.23	4.98	6.95	40.91		
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.800	0.194	0.0	0.335	1.074	3.051	7.074		
STA AV	P 2.11	2.69	2.56	3.96	4.29	3.33	1.80	2.08	2.67	2.69	2.98	2.61	33.77		
	Q 0.28	0.580	0.718	0.893	1.049	0.550	0.184	0.050	0.088	0.117	0.374	0.535	5.584		

ANNUAL MAXIMUM DISCHARGE (cfs/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	11-17	1.910	11-17	1.109	11-17	1.510	12- 9	1.963	12- 9	2.367	12- 9	2.992	12- 8	3.200	12- 2	3.749

MAXIMUMS FOR PERIOD OF RECORD															
Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.		
5- 1	4.070	5- 1	3.110	5- 1	5.470	5- 1	7.080	5- 1	7.280	5- 1	7.460	8-30	9.640	4-29	10.600
1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 20% cotton; 10% fall planted small grain, largely oats; 25% row grain sorghum; 35% 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, 1960, 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 gages 69, 69B, 70, 75A, and 84A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

Day	1971 DAILY PRECIPITATION (inches)												RISSEL (WACO), TEXAS WATERSHED T-2		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.02R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.04E	0.06E	0.0	0.0	0.0	0.0	0.36	0.02R	0.0	0.0	0.0	0.98		
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0		
4	0.0	0.15	0.0	0.0 R	0.0	0.0	0.0	0.88	0.0	0.21	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.20	0.0	0.03R	0.0	0.67	0.0		
6	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.0	0.0	0.01E	0.0	0.49	0.0		
7	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.25	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	0.10E	0.0	0.0	0.0	0.60	0.0		
9	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.09E	0.0	3.07	0.0		
10	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0		
11	0.0	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		
12	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.78	0.02E	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	0.06E	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12R	0.0	0.0	0.0	0.17	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	2.08	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.28	0.03E		
18	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.28	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.01E	1.09	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.88	0.60	0.0	0.0	0.0	0.0	1.69	0.0	0.0	0.0		
21	0.0	0.15	0.0	0.0	0.0	0.44	3.98	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.09E	0.0	0.09E	0.0	0.0	0.78	0.0	0.46	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.02E	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.13E	0.0	1.92	0.0	1.20	0.0	0.0	0.0	0.0		
25	0.0	1.06	0.08E	0.0	0.0	0.0	1.52	0.04E	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	0.15	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.04E	0.40	1.37	0.0	0.0	0.11	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.98E	0.50	0.0	0.0	0.0	0.0 E	0.03E	0.0		
29	0.0	0.0	0.0	0.21	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.01E	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.19	0.0	0.0	0.0	0.40	0.0		
31	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.08E	0.0	0.0	0.0	0.80	0.0		
TOTAL	0.01	1.59	0.30	3.34	2.19	1.38	10.91	2.89	2.13	4.23	4.98	6.95	40.91		
STA AV	2.11	2.69	2.56	3.96	4.29	3.33	1.80	2.08	2.67	2.69	2.98	2.61	33.77		

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, 69B, 70, 75A, and 84A. Records began Jan. 1, 1939. STA AV based on 33 yr. period. Estimate codes may indicate that non-significant event totals are included.

1971					RISSEL (WACO), TEXAS					WATERSHED T-2		
BEAN 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	0.549
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.749	0.0	0.0	0.0	0.002
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.148	0.0	0.0	0.0	1.192
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.0	0.0	0.0	1.228
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.068	0.0	0.0	0.0	0.120
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.060
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.544
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.199
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.0	0.0	0.015
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.0	0.0	0.012
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.086
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.387	0.008
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.938	0.004
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.005
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.856	0.0	0.003
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.002
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.003
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061	0.004
24	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.001	0.004
25	0.0	0.0	0.0	0.0	0.0	0.0	1.225	0.0	0.0	0.0	0.0	0.006
26	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0 T	0.006
27	0.0	0.0	0.0	0.0	0.0	0.0	0.709	0.0	0.0	0.0	0.0	0.006
28	0.0	0.0	0.0	0.0	0.0	0.0	0.358	0.0	0.0	0.0	0.0	0.006
29	0.0	0.0	0.0	0.0	0.0	0.0	1.440	0.0	0.0	0.0	0.0	0.004
30	0.0	0.0	0.0	0.0	0.0	0.0	0.799	0.0	0.0	0.0	0.0	0.222
31	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.011
BEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.1468	0.0348	0.0	0.0599	0.3468	0.6889
INCRES	0.0	0.0	0.0	0.0	0.0	0.0	0.820	0.194	0.0	0.335	1.876	3.851
STA AV	0.428	0.580	0.718	0.893	1.069	0.550	0.144	0.050	0.088	0.117	0.374	0.535

NOTES: To convert bean daily discharge in CFS to IN/DAT, multiply by 0.160316. Records began Jan. 1, 1939. STA AV based on 33 yr period.

1971					RISSEL (WACO), TEXAS					WATERSHED T-2		
SELECTED RUNOFF EVENT												
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rnoff	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF NOVEMBER 17 - 18, 1971												
11-17	RG 000069	0.0	11-17	RG 000069	0.0	0.0	11-17	2143	0.0	0.0		
					1914	0.7501	0.05	2144	0.0	0.0		
					1916	0.6000	0.07	2145	0.003	0.0		
					1918	1.5005	0.12	2146	0.009	0.0		
					1920	0.2998	0.13	2147	0.023	0.0		
WATERSHED CONDITIONS:			1922	0.6003	0.15		2148	0.043	0.0			
35% pasture, Bermuda grass and			1924	1.1995	0.19		2149	0.100	0.0			
native grass, good cover,			1926	1.2005	0.23		2150	0.166	0.0			
moderately grazed; 38% tilled, bare; 26 fall planted			1928	1.1995	0.27		2151	0.259	0.0			
small grain; 2 inches high;			1929	0.0	0.27		2152	0.418	0.0			
1% gravel roads. Cropland			1930	1.7987	0.30		2153	0.684	0.0001			
terraced, cultivated on			1936	0.2001	0.32		2154	0.964	0.0002			
contour.			1938	2.6993	0.41		2155	1.535	0.0003			
			1940	5.7015	0.60		2156	3.169	0.0006			
			1942	7.1986	0.84		2157	12.766	0.0018			
			1944	2.7005	0.93		2158	17.645	0.0036			
			1946	0.5995	0.95		2159	16.389	0.0057			
			1950	0.3001	0.97		2201	19.655	0.0107			
			1952	0.6003	0.99		2203	20.559	0.0154			
			2000	0.1500	1.01		2205	21.148	0.0209			
			2004	0.2998	1.03		2207	21.943	0.0260			
			2010	0.1001	1.04		2209	23.497	0.0320			
			2100	0.0120	1.05		2210	24.671	0.0348			
			2118	0.0333	1.06		2211	27.009	0.0378			
			2120	1.2000	1.10		2212	32.149	0.0421			
			2122	1.8004	1.16		2213	40.337	0.0464			
			2124	2.3995	1.24		2214	45.906	0.0515			
			2126	2.7005	1.33		2215	51.007	0.0586			
			2128	2.0998	1.40		2216	55.161	0.0648			
			2130	2.3995	1.48		2217	63.368	0.0718			

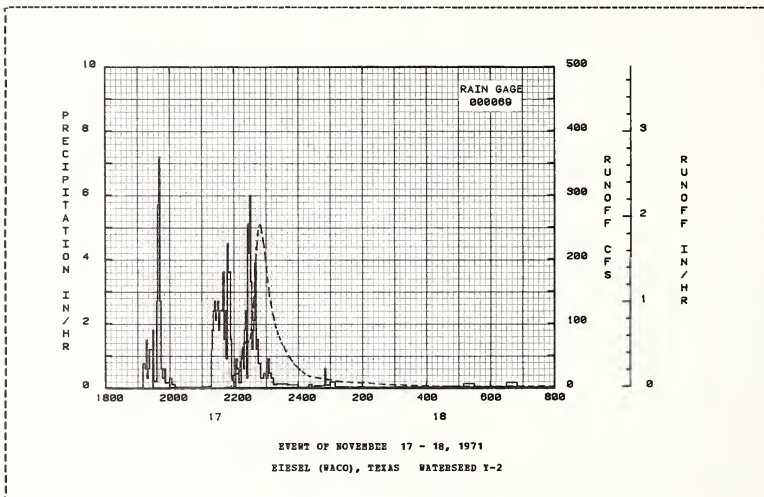
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.

1971 SELECTED RUNOFF EVENT				RISER (WACO), TEXAS		WATERSHED T-2			
ANTECEDENT CONDITIONS			RAINFALL		RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 17 - 18, 1971 (CONTINUED)									
11-17									
	2132	2.7005	1.57	11-17	2218	2218	67.369	0.0795	
	2134	1.7995	1.43		2219	2219	69.301	0.0805	
	2136	2.4006	1.71		2220	2220	71.460	0.0978	
	2138	2.3995	1.79		2221	2221	71.150	0.1062	
	2140	2.4006	1.87		2223	2223	70.531	0.1249	
	2142	3.5991	1.99		2224	2224	69.505	0.1331	
	2144	1.5005	2.04		2226	2226	70.016	0.1485	
	2146	2.3995	2.12		2228	2228	72.392	0.1683	
	2148	0.9002	2.15		2230	2230	76.168	0.1879	
	2150	4.4989	2.30		2232	2232	84.590	0.2068	
	2152	3.6007	2.42		2233	2233	90.159	0.2171	
	2154	3.5995	2.54		2234	2234	98.175	0.2309	
	2156	1.5005	2.59		2235	2235	106.322	0.2429	
	2200	0.2998	2.61		2236	2236	117.306	0.2560	
	2204	0.0	2.61		2237	2237	129.716	0.2705	
	2206	0.9002	2.64		2238	2238	142.316	0.2905	
	2208	0.6000	2.66		2239	2239	156.865	0.3081	
	2210	0.6003	2.68		2240	2240	176.537	0.3277	
	2214	0.1499	2.69		2241	2241	193.007	0.3494	
	2216	0.8998	2.72		2242	2242	207.093	0.3788	
	2218	1.2005	2.76		2243	2243	217.468	0.4037	
	2220	0.5995	2.78		2244	2244	229.144	0.4299	
	2222	1.8008	2.84		2245	2245	239.585	0.4643	
	2224	2.1991	2.92		2246	2246	245.606	0.4928	
	2226	0.3004	2.93		2247	2247	251.517	0.5220	
	2228	5.0989	3.10		2248	2248	253.168	0.5516	
	2230	4.1991	3.24		2249	2249	254.160	0.5888	
	2232	6.0014	3.44		2250	2250	253.002	0.6186	
	2234	3.2993	3.55		2251	2251	250.528	0.6482	
	2236	1.2005	3.58		2253	2253	241.045	0.7131	
	2238	1.7995	3.65		2255	2255	229.622	0.7684	
	2240	2.1003	3.72		2257	2257	218.093	0.8275	
	2242	3.8993	3.85		2259	2259	203.728	0.8770	
	2244	1.2001	3.89		2301	2301	187.062	0.9286	
	2246	1.4998	3.94		2303	2303	171.359	0.9707	
	2250	0.7501	3.99		2305	2305	155.345	1.0138	
	2256	0.3000	4.02		2307	2307	142.049	1.0487	
	2300	0.4899	4.05		2309	2309	132.046	1.0849	
	2304	0.3001	4.07		2311	2311	124.595	1.1150	
	2306	0.9002	4.10		2313	2313	114.830	1.1466	
	2310	0.4500	4.13		2315	2315	105.723	1.1757	
	2314	0.3001	4.15		2317	2317	99.107	1.1997	
	2320	0.0999	4.16		2319	2319	92.879	1.2251	
	2330	0.1200	4.18		2321	2321	87.804	1.2463	
	2340	0.1199	4.20		2323	2323	82.726	1.2688	
11-18									
	2400	0.0900	4.23		2325	2325	79.691	1.2879	
	20	0.0	4.23		2327	2327	74.481	1.3083	
	26	0.0999	4.24		2329	2329	70.120	1.3253	
	30	0.0	4.24		2331	2331	66.763	1.3438	
	50	0.0600	4.26		2333	2333	64.260	1.3588	
	52	0.5997	4.28		2338	2338	55.832	1.3976	
	100	0.0751	4.29		2343	2343	48.925	1.4299	
	110	0.1800	4.32		2348	2348	41.937	1.4579	
	200	0.0120	4.33		2353	2353	36.157	1.4831	
	300	0.0	4.33		2358	2358	32.302	1.5042	
	400	0.0200	4.35		2400	2400	30.323	1.5125	
	430	0.0200	4.36	11-18	3	27.516	1.5227		
	500	0.0400	4.38		8	24.601	1.5395		
	510	0.0	4.38		13	21.412	1.5537		
	520	0.1200	4.40		18	18.955	1.5661		
	530	0.1999	4.42		23	17.387	1.5778		
	600	0.0200	4.43		33	15.613	1.5961		
	630	0.0200	4.44		43	14.102	1.6168		
	650	0.1500	4.49		53	12.994	1.6339		
					103	11.824	1.6492		
					113	9.864	1.6629		
					123	8.814	1.6747		
					143	7.726	1.6953		
					203	7.189	1.7139		
					223	5.897	1.7304		
					243	4.707	1.7436		
					303	3.816	1.7542		
					323	2.169	1.7630		
					343	2.668	1.7703		
					403	2.240	1.7764		

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

1971 SELECTED EROFF EVENT			EISEL (WACO), TEXAS WATERSEED Y-2									
ANTECEDENT CONDITIONS			RAINFALL			EROFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Eate	Acc.		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)		
EVENT OF NOVEMBER 17 - 18, 1971 (CONTINUED)												
									11-18	423	1.908	1.7816
										443	1.701	1.7861
										503	1.526	1.7901
										533	1.413	1.7956
										603	1.354	1.8008
										633	1.430	1.8060
										703	1.508	1.8115
										733	1.544	1.8172
										803	1.465	1.8229
										833	1.346	1.8282
										903	1.179	1.8329
										933	1.012	1.8370
										1003	0.860	1.8405
										1033	0.736	1.8435
										1103	0.615	1.8460
										1130	0.509	1.8479
										1200	0.468	1.8497
										1300	0.356	1.8528
										1400	0.253	1.8551
										1500	0.175	1.8567
										1600	0.133	1.8579
										1700	0.102	1.8588
										1800	0.073	1.8595
										1900	0.052	1.8600
										2000	0.038	1.8603

NOTES: To convert runoff in CFS to IR/EE, multiply by 0.007513.



SIESEL (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)												SIESEL (WACO), TEXAS WATERSHED Y-6		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P 0.01	1.54	0.30	3.30	2.22	1.48	10.76	3.01	2.13	4.14	5.13	6.91	40.94	
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.403	0.147	0.0	0.655	1.421	3.027	5.652	
STA AV	P 1.96	2.73	2.24	3.94	3.83	3.52	1.80	2.12	2.69	2.90	2.95	2.44	33.11	
	Q 0.279	0.350	0.394	0.631	0.740	0.544	0.121	0.048	0.094	0.221	0.366	0.377	4.165	

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.								
1971 11-17	1.367	11-17	0.807	11-17	1.057	11-17	1.341	12- 9	1.719	12- 9	2.308	12- 8	2.551	12- 2	2.970

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		1980		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, 1968, USDA 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 gages 69E and 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)												SIESEL (WACO), TEXAS WATERSHED Y-6		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.04E	0.06E	0.0	0.0	0.0	0.0	0.36	0.01E	0.0	0.0	0.97		
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0		
4	0.0	0.14	0.0	0.0E	0.0	0.0	0.0	1.00	0.0	0.21	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.18	0.0	0.03E	0.0	0.66		
6	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.01E	0.0	0.49		
7	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.25	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	0.10E	0.0	0.0	0.60		
9	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.09E	0.0	3.03		
10	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.04		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0E	0.0	0.0	0.0		
12	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.80	0.02E	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	0.06E		
14	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.13E	0.0	0.0	0.0	0.17		
15	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	2.03	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0		
17	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	4.40	0.03E		
18	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.27	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.01E	1.09	0.0	0.0		
20	0.0	0.0	0.0	0.84	0.61	0.0	0.0	0.0	0.0	1.65	0.0	0.0		
21	0.0	0.14	0.0	0.0	0.0	0.50	3.82	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.05E	0.0	0.04E	0.0	0.0	0.77	0.0	0.46	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.01E	0.0	0.0		
24	0.0	0.0	0.0	0.0E	0.13E	0.0	1.91	0.0	1.22	0.0	0.0	0.0		
25	0.0	1.03	0.09E	0.0	0.0	0.0	1.50	0.04E	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	0.14	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.04E	0.46	1.31	0.0	0.0	0.11	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.04E	0.45	0.45	0.0	0.0	0.0	0.0E	0.0E		
29	0.0	0.0	0.0	0.21	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.02E		
30	0.0	0.0	0.0	0.0	0.0	0.23	0.20	0.0	0.0	0.0	0.0	0.40		
31	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.41		
TOTAL	0.01	1.54	0.30	3.30	2.22	1.48	10.76	3.01	2.13	4.14	5.13	6.91		
STA AV	1.96	2.73	2.24	3.94	3.83	3.52	1.80	2.12	2.69	2.90	2.95	2.44		

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 69E 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 28 yr period. Estimate codes may indicate that non-significant event totals are included.

1971 MEAN DAILY DISCHARGE (cfs)												RIESEL (WACO), TEXAS				WATERSEED T-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	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	0.0	0.0	0.0	0.029
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	0.0	0.0	0.0	0.005
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	0.0	0.0	0.0	0.0 T
5	0.0	0.0	0.0	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	0.107
6	0.0	0.0	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	0.0	0.135
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012
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	0.0	0.0	0.008
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	0.0	0.0	0.0	1.579
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	0.0	0.0	0.0	0.167
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	0.0	0.0	0.0	0.005
12	0.0	0.0	0.0	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	0.002
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
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	0.0	0.0	0.0	0.006
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	0.0	0.0	0.004
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	0.0	0.0	0.001
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	0.729	0.001	
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	0.0	0.243	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	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.448	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	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	0.001	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	0.0	0.001	0.0	0.0
24	0.0	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	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.054	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	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	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	0.012	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	0.100	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	0.079	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0089	0.0032	0.0	0.0145	0.0324	0.0669				
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.403	0.147	0.0	0.655	1.421	3.027				
STA AV	0.279	0.350	0.398	0.631	0.740	0.544	0.121	0.048	0.098	0.221	0.366	0.377					

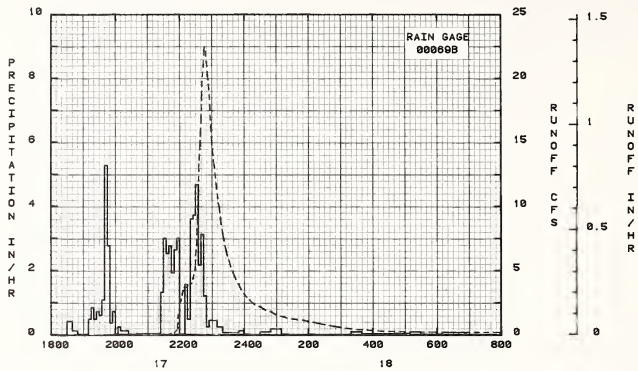
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.460224. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 28 yr period.

1971 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS				WATERSEED T-6	
PRECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Fairfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 17 - 18, 1971											
RG 000698											
11-17	0.0	0.0	11-17	1830	0.0	0.0	11-17	2120	0.0	0.0	
				1840	0.4200	0.07		2125	0.001	0.0	
				1850	0.1200	0.09		2130	0.008	0.0	
				1910	0.0	0.09		2135	0.020	0.0001	
				1915	0.4799	0.13		2140	0.036	0.0002	
WATERSEED CONDITIONS:											
				1920	0.4401	0.20		2145	0.078	0.0005	
				1925	0.4799	0.24		2150	0.136	0.0010	
				1930	0.7199	0.30		2155	0.346	0.0022	
				1935	0.6001	0.35		2156	0.523	0.0026	
				1940	1.0800	0.44		2157	1.300	0.0037	
				1945	5.2794	0.88		2158	1.561	0.0051	
				1950	2.7403	1.11		2200	1.853	0.0088	
				1955	0.3600	1.14		2201	2.473	0.0109	
				2000	0.7199	1.20		2202	2.557	0.0133	
				2005	0.0	1.20		2203	2.746	0.0158	
				2010	0.2401	1.22		2205	3.048	0.0220	
				2025	0.1200	1.25		2207	3.417	0.0281	
				2040	0.0	1.25		2209	3.665	0.0357	
				2125	0.0400	1.28		2215	3.723	0.0585	
				2130	1.3198	1.39		2220	3.939	0.0776	
				2135	3.0002	1.64		2223	3.999	0.0899	
				2140	2.5201	1.85		2225	4.302	0.0978	
				2145	2.7596	2.08		2227	4.635	0.1074	
				2150	1.9202	2.24		2229	5.085	0.1166	
				2155	2.6402	2.46		2230	5.799	0.1231	
				2200	2.9956	2.71		2231	6.572	0.1290	
				2210	0.0	2.71		2232	7.032	0.1355	
				2215	1.5599	2.84		2233	8.245	0.1428	
				2220	0.4799	2.88		2234	9.337	0.1532	
				2225	3.6003	3.18		2235	11.224	0.1630	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060843.

1971 SELECTED RUNOFF EVENT				KINSELE (WACO), TEXAS				WATERSHED T-6			
APPROXIMATE CONDITIONS		FAIRFALL		ACC.		RUNOFF		RATE		ACC.	
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 17 - 18, 1971 (CONTINUED)											
11-17	2230	3.7195	3.49	11-17	2236	13.267	0.1746				
	2235	4.6803	3.88		2237	14.049	0.1876				
	2240	2.1602	4.06		2238	14.750	0.2047				
	2245	3.1196	4.32		2239	15.727	0.2192				
	2250	1.2001	4.42		2240	16.794	0.2347				
	2255	0.2399	4.44		2241	18.616	0.2515				
	2310	0.4400	4.55		2242	19.750	0.2743				
	2320	0.2400	4.59		2244	21.054	0.3131				
	2350	0.0600	4.62		2245	22.126	0.3388				
	2400	0.1200	4.64		2246	22.463	0.3600				
11-18	30	0.0	4.64	2248	22.089	0.4024					
	50	0.0900	4.67	2250	21.274	0.4488					
	110	0.1800	4.73	2252	20.217	0.4482					
	320	0.0	4.73	2254	19.464	0.5306					
	340	0.0900	4.76	2256	17.851	0.5661					
	440	0.0300	4.79	2258	16.190	0.6025					
	510	0.0400	4.81	2300	14.815	0.6357					
	530	0.0900	4.84	2302	13.985	0.6631					
	610	0.0	4.84	2305	12.958	0.7047					
	655	0.0667	4.89	2308	11.723	0.7428					
					2311	10.590	0.7746				
					2314	9.887	0.8062				
					2316	9.066	0.8265				
					2318	8.560	0.8433				
					2320	7.935	0.8609				
					2323	7.279	0.8844				
					2326	6.644	0.9043				
					2329	6.123	0.9240				
					2332	5.799	0.9424				
					2335	5.260	0.9585				
					2340	4.762	0.9845				
					2345	4.282	1.0081				
					2350	3.860	1.0284				
					2355	3.474	1.0467				
					2400	3.175	1.0641				
				11-18	5	2.904	1.0793				
					10	2.694	1.0933				
					20	2.324	1.1189				
					30	2.163	1.1418				
					40	1.898	1.1621				
					50	1.778	1.1809				
					100	1.532	1.1978				
					110	1.408	1.2125				
					120	1.300	1.2263				
					130	1.209	1.2391				
					140	1.145	1.2508				
					150	1.108	1.2623				
					200	1.009	1.2731				
					216	0.886	1.2844				
					231	0.768	1.3010				
					246	0.633	1.3117				
					301	0.543	1.3206				
					321	0.427	1.3304				
					341	0.358	1.3383				
					401	0.308	1.3451				
					421	0.289	1.3507				
					441	0.241	1.3556				
					501	0.198	1.3601				
					601	0.188	1.3718				
					701	0.157	1.3823				
					801	0.157	1.3919				
					901	0.122	1.4004				
					1001	0.093	1.4069				
					1101	0.058	1.4115				
					1200	0.029	1.4141				

NOTES: To convert runoff in CFS to IZ/8E, multiply by 0.060843.



EVENT OF NOVEMBER 17 - 18, 1971
FIESEL (WACO), TEXAS WATERSHED T-6

RIESEL (WACO), TEXAS WATERSHED Y-7

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

AREA: 40.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)		RIESEL (WACO), TEXAS WATERSHED Y-7												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P	0.0	1.70	0.27	3.39	2.26	1.88	10.85	3.15	2.35	8.06	4.63	7.35	8.06	81.06
Q	0.0	0.0	0.0	0.0	0.0	0.0	0.820	0.303	0.0	0.427	1.893	3.886	7.329	
STA AV	P	1.99	2.77	2.27	4.03	3.88	3.49	1.76	2.19	2.68	2.91	2.98	2.47	33.38
	Q	0.328	0.481	0.568	0.888	0.683	0.644	0.131	0.114	0.146	0.196	0.474	0.878	5.295

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		1 Hour		2 Hours		4 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.	
1971	12-9	1.256	12-9	0.942	11-17	1.425	12-9	1.927	12-9	2.358	12-9	3.079	12-8	3.312	12-2	3.678

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
6-10	3.590	4-19	2.340	3-29	2.960	3-29	3.580	3-29	3.840	3-29	4.660	11-22	5.370	4-19	8.890
1941		1957		1965		1965		1965		1965		1940		1957	

NOTES: Watershed conditions: 100% pasture, Bermuda grass, moderately grazed. 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. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 89 and W-2. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)		RIESEL (WACO), TEXAS WATERSHED Y-7											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.04E	0.03E	0.0	0.0	0.0	0.0	0.39	0.05E	0.0	0.0	0.0	1.07
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0
4	0.0	0.15	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.22	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.10E	0.0	0.03E	0.0	0.0	0.71
6	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.54
7	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.24	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	0.24	0.0	0.0	0.0	0.53
9	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	3.40
10	0.0	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
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	0.14	0.0	0.0	0.0	0.0	0.70	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	0.14	0.29	0.0	0.05E
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.16
15	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	2.12	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0
17	0.0	0.0	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.88	0.03E	
18	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.29	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.01E	0.92	0.0	0.0	
20	0.0	0.0	0.0	0.80	0.50	0.0	0.0	0.0	0.0	1.73	0.0	0.0	
21	0.0	0.19	0.0	0.0	0.0	0.58	3.87	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.06E	0.0	0.11E	0.0	0.0	0.82	0.0	0.44	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.01E	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.13E	0.0	1.93	0.0	1.23	0.0	0.0	0.0	
25	0.0	1.16	0.10E	0.0	0.0	0.0	1.49	0.02E	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	0.18	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.03E	0.29	1.38	0.0	0.0	0.12	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.48	0.0	0.0	0.0	0.02E	0.04E	
29	0.0	0.0	0.24	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0.0	0.01E	
30	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.24	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.03E	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.41	
TOTAL	1.99	2.77	2.27	3.39	2.26	1.88	10.85	3.15	2.35	4.06	4.63	7.35	
STA AV				4.03	3.88	3.49	1.76	2.19	2.68	2.91	2.98	2.47	

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 89 and W-2. 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 28 yr period. Estimate codes may indicate that non-significant event totals are included.

1971		MEAN DAILY DISCHARGE (cfs)				RIESEL (WACO), TEXAS				WATERSEED T-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	0.093	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.499	0.0	0.0	0.0	0.0 T	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.347	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.467	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.033	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.158	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.405	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	
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 T	
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	0.001	
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 T	
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	2.464	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.717	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.717	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	0.382	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 T	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.108	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.752	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0 T	
31	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 T	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.088	0.168	0.0	0.231	0.106	0.2107	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.820	0.303	0.0	0.827	1.893	3.886	
STA AY	0.328	0.481	0.568	0.088	0.883	0.644	0.131	0.118	0.146	0.196	0.474	0.488	

NOTES: To convert mean daily discharge in CFS to I8/OAY, multiply by 0.595041. Records began Jan. 1979; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AY based on 28 yr period.

1971		SELECTED RHOFF EVENT				RIESEL (WACO), TEXAS				WATERSEED T-7			
ANTECEDENT CONDITIONS		Date	Rainfall	Rnoff	Date	Rainfall	Intensity	Acc.	Date	RHOFF	Rate	Acc.	
		Ro-Day	(inches)	(inches)	Ro-Day	of Day	(in/hr)	(inches)	Ro-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 17 - 18, 1971													
RG 000089													
11-17	0.0	0.0	0.0	0.0	11-17	RG 000089	0.0	0.0	11-17	2114	0.0	0.0	
						1914	0.000	0.02		2117	0.0	0.0	
						1916	0.6000	0.05		2119	0.001	0.0	
						1918	0.9002	0.07		2121	0.003	0.0	
						1919	1.1995	0.08		2123	0.005	0.0	
						1922	0.1999	0.10		2125	0.008	0.0	
						1924	0.6000	0.18		2129	0.016	0.0	
						1926	1.2001	0.18		2132	0.021	0.0	
						1928	1.2000	0.22		2134	0.038	0.0	
						1932	0.5999	0.24		2135	0.065	0.0	
						1938	0.2000	0.35		2136	0.107	0.0	
						1940	3.3008	0.55		2138	0.143	0.001	
						1942	5.9886	0.61		2140	0.196	0.002	
						1943	3.6007	0.67		2142	0.262	0.004	
						1944	3.6007	0.70		2144	0.322	0.006	
						1946	0.8998	0.72		2145	0.869	0.009	
						1950	0.3001	0.78		2146	1.354	0.013	
						1952	0.6003	0.76		2147	1.975	0.019	
						2002	0.1200	0.76		2148	2.746	0.028	
						2004	0.5995	0.78		2149	3.267	0.043	
						2006	0.0	0.78		2150	3.999	0.057	
						2110	0.0094	0.79		2151	4.698	0.074	
						2115	0.0	0.80		2152	5.327	0.093	
						2119	0.1499	0.92		2153	5.937	0.120	
						2122	2.4005	0.98		2154	6.692	0.144	
						2124	1.8000	1.05		2155	7.833	0.172	
						2126	2.1003	1.23		2156	9.282	0.205	
						2130	2.6995	1.33		2157	11.312	0.255	
						2132	3.0005	1.42		2158	14.017	0.304	
						2134	2.6993	1.52		2159	16.625	0.363	
						2136	3.0009	1.52					

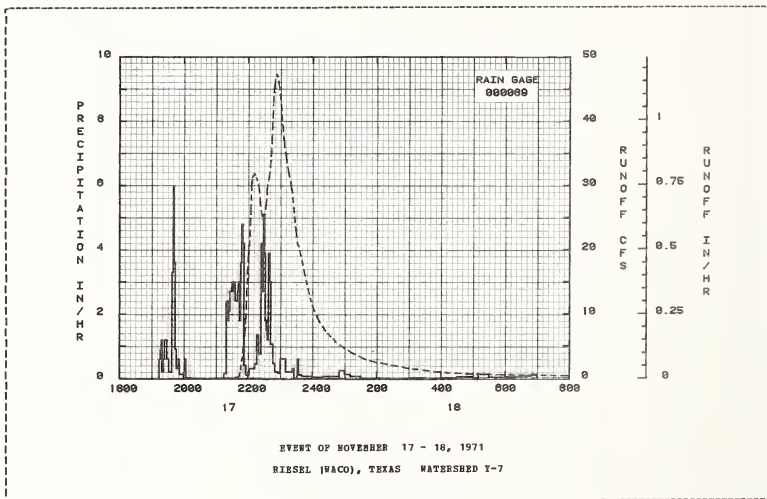
NOTES: To convert rnoff in CFS to I8/HR, multiply by 0.024793.

1971 SELECTED RUNOFF EVENT				RHSRL (WACO), TEXAS				WATERSEED Y-7			
PRECIPITATION CONDITIONS				RAINFALL				RUNOFF			
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF NOVEMBER 17 - 18, 1971 (CONTINUED)											
11-17	2140	2.4001	1.68	11-17	2200	18.546	0.0448				
	2142	2.6993	1.77		2201	19.893	0.0522				
	2144	3.0009	1.87		2202	20.452	0.0601				
	2146	1.7995	1.93		2203	22.276	0.0684				
	2148	3.6007	2.05		2204	24.794	0.0798				
	2150	4.7991	2.21		2205	27.008	0.0898				
	2152	4.2010	2.35		2206	29.829	0.1008				
	2153	1.7987	2.38		2207	30.876	0.1126				
	2156	0.4892	2.40		2208	31.287	0.1276				
	2202	0.0999	2.41		2209	31.554	0.1398				
	2206	0.3001	2.43		2211	31.852	0.1644				
	2210	0.2998	2.45		2213	31.639	0.1921				
	2212	0.3002	2.46		2215	31.172	0.2195				
	2216	0.4500	2.49		2217	30.792	0.2435				
	2220	1.3500	2.58		2219	30.121	0.2700				
	2228	0.7501	2.63		2221	28.877	0.2929				
	2226	4.2010	2.77		2223	26.807	0.3172				
	2228	2.6993	2.86		2225	25.302	0.3374				
	2230	5.0989	3.03		2227	24.678	0.3592				
	2232	3.9011	3.16		2228	24.716	0.3668				
	2234	1.7995	3.22		2229	24.950	0.3784				
	2236	1.5005	3.27		2231	25.577	0.4004				
	2238	1.1995	3.31		2233	26.887	0.4207				
	2240	3.9011	3.44		2234	27.896	0.4340				
	2241	2.9980	3.49		2235	29.372	0.4451				
	2242	3.0007	3.54		2236	30.121	0.4566				
	2246	1.0499	3.61		2238	30.708	0.4831				
	2250	0.4500	3.64		2240	32.188	0.5074				
	2256	0.2001	3.66		2242	33.835	0.5361				
	2300	0.1499	3.67		2243	35.064	0.5494				
	2302	0.6003	3.69		2244	37.207	0.5634				
	2306	0.6001	3.73		2245	39.766	0.5820				
	2310	0.5999	3.77		2246	41.678	0.5978				
	2316	0.2000	3.79		2247	43.815	0.6144				
	2322	0.1999	3.81		2248	45.116	0.6316				
	2326	0.3001	3.83		2250	46.528	0.6715				
	2332	0.0	3.83		2252	47.364	0.7079				
	2334	0.6000	3.85		2254	46.921	0.7490				
	2340	0.1000	3.86		2256	46.039	0.7850				
	2350	0.0601	3.87		2258	44.922	0.8246				
	2400	0.0600	3.88		2300	43.385	0.8631				
11-18	20	0.0300	3.89		2302	41.678	0.8961				
	30	0.0601	3.90		2304	39.166	0.9313				
	40	0.0600	3.91		2306	37.342	0.9609				
	50	0.0600	3.92		2308	35.994	0.9928				
	100	0.2401	3.96		2310	34.711	1.0202				
	110	0.1200	3.98		2312	33.574	1.0500				
	130	0.0600	4.00		2314	32.579	1.0756				
	300	0.0	4.00		2317	31.341	1.1158				
	430	0.0133	4.02		2320	30.037	1.1544				
	500	0.0400	4.04		2322	28.836	1.1772				
	510	0.0	4.04		2324	26.528	1.2013				
	520	0.1199	4.06		2326	25.028	1.2213				
	530	0.1200	4.08		2328	23.332	1.2424				
	600	0.0200	4.09		2330	21.977	1.2621				
	630	0.0400	4.11		2332	20.944	1.2787				
	640	0.0601	4.12		2334	20.507	1.2968				
	650	0.0600	4.13		2336	19.821	1.3124				
	700	0.1200	4.15		2338	19.074	1.3294				
					2340	18.302	1.3439				
					2342	17.610	1.3596				
					2344	16.827	1.3729				
					2346	15.958	1.3872				
					2348	15.268	1.3993				
					2350	14.622	1.4123				
					2352	13.891	1.4233				
					2354	13.081	1.4351				
					2356	12.441	1.4450				
					2358	11.960	1.4556				
					2400	11.282	1.4657				
				11-18	4	10.420	1.4836				
					9	9.473	1.5038				
					14	8.612	1.5222				
					19	8.038	1.5399				
					24	7.379	1.5596				

NOTES: To convert runoff in CFS to TR/HR, multiply by 0.024793.

1971 SELECTED HURROFF EVENT				BIRSEL (WACO), TEXAS WATERSHED Y-7						
PRECEDENT CONDITIONS			RAINFALL			HURROFF				
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 17 - 18, 1971 (CONTINUED)										
							11-18			
							29		6.910	1.5701
							34		6.476	1.5844
							39		6.123	1.5972
							44		5.572	1.6091
							59		4.711	1.6410
							119		3.699	1.6760
							139		2.925	1.7033
							159		2.474	1.7255
							219		2.167	1.7448
							239		1.836	1.7613
							259		1.518	1.7751
							329		1.200	1.7919
							359		0.905	1.8049
							429		0.729	1.8150
							459		0.601	1.8232
							559		0.493	1.8368
							659		0.386	1.8477
							759		0.367	1.8568
							859		0.314	1.8650
							959		0.253	1.8720
							1059		0.193	1.8775
							1159		0.156	1.8818
							1259		0.102	1.8850
							1359		0.070	1.8871
							1459		0.046	1.8885
							1559		0.033	1.8895
							1659		0.025	1.8902
							1759		0.017	1.8907
							2059		0.006	1.8916
							2400		0.003	1.8919

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



RIESEL (WACO), TEXAS WATERSHED T-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 T-8								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.01	1.61	0.27	3.35	2.13	1.43	10.61	3.16	2.18	4.25	4.67	7.12	40.79
Q	0.0	0.0	0.0	0.0	0.0	0.0	1.368	0.381	0.0	0.235	1.476	3.604	7.064
STA AV P	1.88	2.74	2.33	4.02	3.74	3.64	1.85	2.16	2.79	3.02	3.01	2.48	33.65
Q	0.309	0.400	0.488	0.752	0.793	0.593	0.170	0.073	0.127	0.128	0.417	0.430	4.676

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						
	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.				
1971	11-17	2.098	12-9	1.090	12-9	1.438	12-9	2.051	12-8	2.516	12-8	3.151	12-8	3.285	12-2	3.567

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	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			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 National Weather Service records at Waco, Texas.

1971	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED T-8													
	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	0.02E	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	0.03E	0.04E	0.0	0.0	0.0	0.0	0.0	0.38	0.04E	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	1.01
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	3	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.21	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	1.13	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	0.06E	0.0	0.0	0.13	0.0	0.02E	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	0.66
6	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.01E	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	0.54
7	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.24	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	0.13	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	0.51
9	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.08E	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	3.29
10	0.0	0.0	0.0	0.0	0.0	1.03	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	0.01
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	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	0.15	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0	0.0	0.0	12	0.0	0.0	0.15	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	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	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	0.17
15	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	16	0.0	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	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	17	0.0	0.19	0.0	0.13	0.0	0.0	0.0	0.0	0.17	0.30	0.0	0.03E
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.30	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	0.06E	0.0	0.0	0.01E	0.95	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.82	0.53	0.0	0.0	0.0	0.0	1.87	0.0	0.0	0.0	20	0.0	0.0	0.0	0.82	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.14	0.0	0.0	0.0	0.0	0.51	3.57	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	0.06E	0.0	0.10E	0.0	0.0	0.78	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.06E	0.0	0.10E	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	0.25	0.0	0.02E	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.02E	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.12E	0.0	1.94	0.0	1.22	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.12E	0.0	1.94	0.0	1.22	0.0	0.0	0.0
25	0.0	1.10	0.08E	0.0	0.0	0.0	1.57	0.04E	0.0	0.0	0.0	0.0	0.0	25	0.0	1.10	0.08E	0.0	0.0	0.0	1.57	0.04E	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	0.16	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.04E	0.40	1.36	0.0	0.0	0.11	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.04E	0.40	1.36	0.0	0.0	0.11	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.03E	0.50	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.03E	0.50	0.0	0.0	0.0	0.0	0.03E
29	0.0	0.0	0.0	0.23	0.0	0.0	1.18	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.23	0.0	0.0	1.18	0.0	0.0	0.0	0.0	0.01E
30	0.0	0.0	0.0	0.4	0.0	0.0	0.24	0.21	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.4	0.0	0.0	0.24	0.21	0.0	0.0	0.0	0.41
31	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.09E	0.0	0.0	0.0	0.40
TOTAL	0.01	1.61	0.27	3.35	2.13	1.43	10.61	3.16	2.18	4.25	4.67	7.12														
STA AV	1.88	2.74	2.33	4.02	3.74	3.64	1.85	2.16	2.79	3.02	3.01	2.48														

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 26 yr period. Estimate codes may indicate the non-significant event totals are included.

1971		MEAN DAILY DISCHARGE (cfs)										EISEL (WACO), TEXAS			WATSESED T-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	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	0.0	0.0	0.0	0.008
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	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	0.293	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	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.069
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	0.0	0.0	0.0	0.163
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
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	0.0	0.0	0.011
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	0.0	0.0	0.0	2.753
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	0.0	0.0	0.0	0.109
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	0.0	0.0	0.0	0.001
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
13	0.0	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	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	0.0	0.0	0.0	0.008
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	0.0	0.0	0.001
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	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	1.118	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	0.172	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	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	0.205	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	0.014	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	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	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	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	0.330	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	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.197	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	0.124	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	0.354	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	0.163	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013
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	0.0	0.0	0.0	0.010
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0386	0.0107	0.0	0.0066	0.0430	0.1016					
IKCSSES	0.0	0.0	0.0	0.0	0.0	0.0	1.368	0.381	0.0	0.235	1.476	3.688					
STA AV	0.309	0.400	0.488	0.752	0.793	0.593	0.170	0.073	0.127	0.128	0.417	0.430					

NOTES: To convert mean daily discharge in CFS to MB/DA, multiply by 1.48310. Records began Aug. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 26 yr period.

1971		SELECTED RUNOFF EVENT										EISEL (WACO), TEXAS			WATSESED T-8		
PRECEDENT 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 17 - 18, 1971																	
RG 00075A		RG 00075A															
11-17	0.0	0.0	11-17	1914	0.0	0.0	11-17	2117	0.0	0.0							
				1920	0.8000	0.08		2118	0.0	0.0							
				1925	0.4799	0.12		2120	0.001	0.0							
				1930	1.0800	0.21		2125	0.003	0.0							
				1938	0.3000	0.25		2130	0.004	0.0							
WATSESED CONDITIONS:																	
95% tilled, bare; 3% pasture,																	
Berseemgrass, good cover,																	
moderately grazed; 2% gravel																	
roads. Cropland terraced,																	
cultivated on contour.																	
				1940	3.6007	0.37		2133	0.012	0.0							
				1942	5.3991	0.55		2136	0.008	0.0							
				1944	3.6007	0.67		2139	0.014	0.0							
				1946	1.2000	0.71		2140	0.033	0.0							
				1950	0.4500	0.74		2141	0.050	0.0							
				2000	0.1800	0.77		2143	0.070	0.0001							
				2010	0.1800	0.80		2145	0.089	0.0002							
				2120	0.0257	0.83		2146	0.120	0.0003							
				2122	2.7005	0.92		2147	0.184	0.0004							
				2124	1.7995	0.98		2148	0.236	0.0006							
				2126	2.1007	1.05		2149	0.334	0.0009							
				2128	2.9991	1.15		2150	0.601	0.0012							
				2130	2.9995	1.25		2151	0.799	0.0017							
				2132	2.7005	1.34		2152	0.950	0.0024							
				2134	2.3995	1.42		2153	1.314	0.0035							
				2136	3.3008	1.53		2154	1.589	0.0046							
				2138	2.0998	1.60		2155	1.990	0.0059							
				2140	3.0005	1.70		2156	2.423	0.0075							
				2145	2.6397	1.92		2157	3.102	0.0101							
				2150	3.2402	2.19		2158	3.398	0.0125							
				2154	3.4500	2.42		2159	4.079	0.0153							
				2204	0.1200	2.44		2200	4.762	0.0194							
				2210	0.5001	2.49		2201	5.483	0.0232							
				2215	0.1599	2.52		2202	5.337	0.0275							
				2220	1.2000	2.62		2203	6.193	0.0320							
				2224	0.7501	2.67		2204	6.381	0.0379							
				2226	4.5014	2.82		2205	6.381	0.0427							
				2228	3.2989	2.93		2206	6.310	0.0474							
				2230	5.0993	3.10		2207	6.169	0.0520							
				2232	3.3008	3.21		2208	5.914	0.0576							

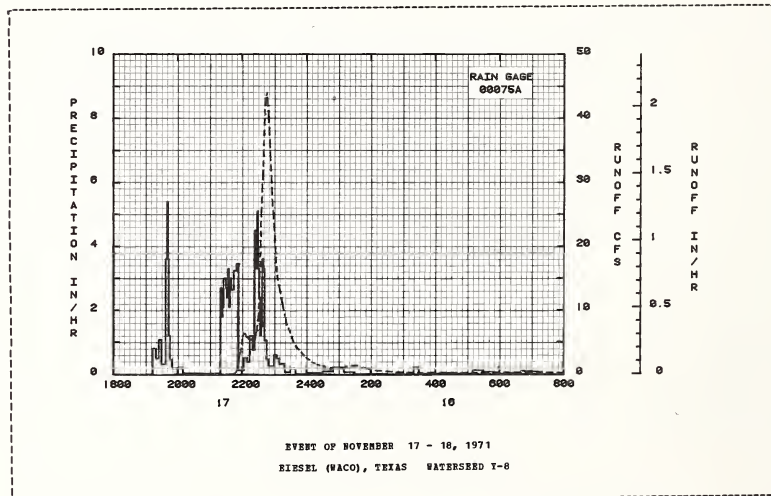
NOTES: To convert runoff in CFS to MB/ER, multiply by 0.047680.

1971 SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS				WATERSHED T-8			
ANTICIPATED 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 17 - 18, 1971 (CONTINUED)											
11-17	2234	2.3991	3.29	11-17	2209	5.759	0.0620				
	2236	1.2005	3.33		2210	5.799	0.0663				
	2238	1.4998	3.38		2211	5.731	0.0706				
	2240	3.6607	3.50		2212	5.480	0.0759				
	2242	3.2593	3.61		2213	5.550	0.0801				
	2246	1.0899	3.68		2214	5.505	0.0842				
	2250	0.4502	3.71		2215	5.438	0.0893				
	2255	0.2399	3.73		2216	5.371	0.0933				
	2300	0.2400	3.75		2217	5.371	0.0973				
	2305	0.6001	3.80		2218	5.460	0.1013				
	2310	0.4799	3.84		2219	5.460	0.1064				
	2320	0.3000	3.89		2220	5.550	0.1105				
	2330	0.0600	3.90		2221	5.483	0.1146				
	2340	0.1800	3.93		2222	5.371	0.1186				
	2400	0.0	3.93		2223	5.393	0.1236				
11-18	30	0.0400	3.95		2224	5.505	0.1277				
	50	0.0900	3.98		2225	5.754	0.1319				
	110	0.2100	4.05		2226	6.123	0.1363				
	130	0.0600	4.07		2227	6.548	0.1422				
	320	0.0	4.07		2228	6.837	0.1472				
	330	0.1800	4.10		2229	7.655	0.1526				
	420	0.0	4.10		2230	8.402	0.1601				
	440	0.0300	4.11		2231	9.583	0.1668				
	510	0.0	4.11		2232	12.140	0.1749				
	530	0.1200	4.15		2233	15.366	0.1851				
	550	0.0600	4.17		2234	16.929	0.2001				
	620	0.0	4.17		2235	20.907	0.2142				
	640	0.0300	4.18		2236	25.341	0.2314				
	700	0.0900	4.21		2237	27.774	0.2512				
	720	0.0600	4.23		2238	29.746	0.2780				
					2239	31.852	0.3009				
					2240	34.316	0.3255				
					2241	37.478	0.3522				
					2242	39.812	0.3802				
					2243	42.102	0.4187				
					2244	43.194	0.4505				
					2245	43.576	0.4909				
					2246	44.007	0.5235				
					2247	43.146	0.5560				
					2248	41.914	0.5877				
					2249	40.462	0.6261				
					2250	39.350	0.6558				
					2251	37.433	0.6844				
					2252	35.462	0.7116				
					2253	33.443	0.7437				
					2254	31.766	0.7680				
					2255	29.912	0.7910				
					2256	28.059	0.8126				
					2257	26.289	0.8379				
					2258	25.302	0.8571				
					2259	24.290	0.8756				
					2300	23.180	0.8977				
					2301	21.304	0.9143				
					2302	19.714	0.9296				
					2303	18.198	0.9437				
					2304	16.625	0.9599				
					2305	16.124	0.9721				
					2306	15.431	0.9839				
					2309	13.891	1.0194				
					2312	12.714	1.0516				
					2315	11.253	1.0806				
					2318	10.026	1.1044				
					2321	8.825	1.1272				
					2324	7.731	1.1472				
					2327	7.106	1.1652				
					2330	6.524	1.1817				
					2333	5.799	1.1955				
					2336	5.063	1.2086				
					2341	4.261	1.2268				
					2346	3.680	1.2435				
					2351	3.379	1.2577				
					2356	2.887	1.2700				
					2400	2.507	1.2790				
					6	2.179	1.2899				
				11-18	11	1.838	1.2978				

NOTES: To convert runoff in CFS to I#/HR, multiply by 0.047680.

1971 SELECTED RUMOFF EVENT			RAINFALL				RUESEL (WACO), TEXAS WATERSHED I-8			
ANTECEDENT CONDITIONS			RAINFALL				RUMOFF			
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 17 - 18, 1971 (CONTINUED)										
							11-18	16	1.618	1.3089
								21	1.408	1.3108
								26	1.274	1.3160
								31	1.183	1.3210
								36	1.058	1.3254
								46	0.950	1.3334
								56	0.880	1.3306
								106	0.903	1.3477
								116	1.083	1.3557
								126	1.183	1.3646
								136	1.183	1.3741
								146	0.938	1.3826
								200	0.725	1.3919
								210	0.542	1.3969
								230	0.395	1.4044
								250	0.310	1.4100
								310	0.222	1.4182
								400	0.209	1.4228
								430	0.150	1.4271
								500	0.181	1.4310
								530	0.209	1.4356
								540	0.256	1.4374
								550	0.284	1.4396
								600	0.266	1.4418
								630	0.201	1.4474
								680	0.201	1.4490
								650	0.219	1.4507
								700	0.262	1.4526
								710	0.253	1.4546
								730	0.214	1.4583
								800	0.156	1.4627
								830	0.127	1.4661
								900	0.094	1.4687
								930	0.065	1.4706
								1002	0.055	1.4721
								1102	0.025	1.4780
								1202	0.013	1.4749

NOTES: To convert runoff in CFS to I8/EE, multiply by 0.047680.



RISSEL (WACO), TEXAS WATERSHED Y-10

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

AREA: 18.60 acres

MONTHLY PRECIPITATION AND ROHOFF (inches)							RISSEL (WACO), TEXAS WATERSHED Y-10						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.01	1.55	0.32	3.38	2.28	1.40	11.00	2.77	2.09	4.17	5.23	6.81	40.94
Q	0.0	0.0	0.0	0.0	0.0	0.0	1.309	0.309	0.009	0.393	2.059	3.985	8.055
STA AV	2.03	2.64	2.28	3.92	3.85	3.43	1.77	2.10	2.69	2.80	2.90	2.47	32.88
Q	0.400	0.413	0.586	0.866	0.711	0.612	0.178	0.089	0.182	0.207	0.449	0.470	5.122

ANNUAL MAXIMUM DISCHARGE (In/hr) AND MAXIMUM VOLUMES OF ROHOFF (inches) FOR SELECTED TIME INTERVALS													
Station Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days		
	Discharge	Volume	Discharge	Volume	Discharge	Volume	Discharge	Volume	Discharge	Volume	Discharge	Volume	
1971 11-17	2.607	1.300	11-17	1.599	12- 8	1.879	12- 8	2.322	12- 8	2.925	12- 8	3.083	12- 2 3.827

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
1957	1957	1957	1957	1965	1965	1965	1965	1965	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. 1198, 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 69E. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 Day	DAILY PRECIPITATION (inches)					RISSEL (WACO), TEXAS WATERSHED Y-10						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.08E	0.07E	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.96
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0
4	0.0	0.15	0.0	0.0 E	0.0	0.0	0.0	0.81	0.0	0.21	0.0	0.0
5	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.21	0.0	0.08E	0.0	0.68
6	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.01E	0.0	0.47
7	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.25	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	0.08E	0.0	0.0	0.65
9	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.10E	0.0	2.90
10	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04
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	0.16	0.0	0.0	0.0	0.0	0.75	0.03E	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	0.07E
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	2.06	0.0	0.0	0.0	0.0	0.10E	0.0	0.0
17	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	4.50	0.03E
18	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.25	0.0
19	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.01E	1.17	0.0	0.0
20	0.0	0.0	0.0	0.86	0.65	0.0	0.0	0.0	0.0	1.56	0.0	0.0
21	0.0	0.15	0.0	0.0	0.0	0.88	4.15	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.03E	0.0	0.02E	0.0	0.0	0.77	0.0	0.48	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.01E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.13E	0.0	1.91	0.0	1.19	0.0	0.0	0.0
25	0.0	1.02	0.09E	0.0	0.0	0.0	1.88	0.08E	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	0.13	0.0	0.0
27	0.0	0.0	0.0	0.0	0.08E	0.85	1.32	0.0	0.0	0.11	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.46	0.0	0.0	0.0	0.0 E	0.08E
29	0.0	0.0	0.0	0.20	0.0	0.0	1.16	0.0	0.0	0.0	0.0	0.02E
30	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.18	0.0	0.0	0.0	0.39
31	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.06E	0.0	0.0	0.0	0.41
TOTAL	0.01	1.55	0.32	3.38	2.28	1.40	11.00	2.77	2.09	4.17	5.23	6.81
STA AV	2.03	2.64	2.28	3.92	3.85	3.43	1.77	2.10	2.69	2.80	2.47	

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 69E. 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 29 yr period. Estimate codes may indicate that non-significant event totals are included.

1971	SEAN DAILY DISCHARGE (cfs)					EISEL (WACO), TEXAS					WATERSEED T-10	
	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	0.185
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	0.129	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.209
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.202
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.0	0.0	0.0	0.022
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.167
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.166
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.023
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
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	1.266E	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.231	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.385	0.0	0.0	0.0	0.036
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.002	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	0.079
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.261	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.203	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.262	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.173	0.0	0.0	0.0	0.061
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.036
SEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0330	0.0078	0.0	0.0059	0.0536	0.1005
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	1.309	0.309	0.000	0.393	2.059	3.985
STA AV	0.400	0.413	0.546	0.866	0.711	0.612	0.178	0.089	0.182	0.207	0.449	0.470

NOTES: To convert sean daily discharge in CFS to I8/DAT, multiply by 1.279459. Records began July 1, 1936; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 29 yr period.

1971	SELECTED RUNOFF EVENT				EISEL (WACO), TEXAS				WATERSEED T-10		
	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 17 - 18, 1971											
RC 000069											
11-17	0.0	0.0		11-17				11-17	2117	0.0	0.0
					1910	0.0	0.0		2119	0.0	0.0
					1914	0.7501	0.05		2122	0.001	0.0
					1916	0.6000	0.12		2127	0.003	0.0
					1918	1.5005	0.12		2130	0.006	0.0
					1920	0.2998	0.13				
WATERSEED CONDITIONS:											
					1922	0.6063	0.15		2132	0.012	0.0
					1924	1.1995	0.19		2133	0.031	0.0
					1926	1.2005	0.23		2134	0.046	0.0
					1928	1.1995	0.27		2135	0.071	0.0
					1929	0.0	0.27		2137	0.121	0.0002
					1930	1.7987	0.30		2139	0.174	0.0005
					1936	0.2001	0.32		2141	0.225	0.0008
					1938	2.6993	0.41		2143	0.266	0.0013
					1940	5.7015	0.60		2145	0.326	0.0019
					1942	7.1986	0.84		2146	0.970	0.0024
					1944	2.7005	0.93		2147	1.120	0.0033
					1946	0.5995	0.95		2148	2.308	0.0047
					1950	0.3001	0.97		2149	3.212	0.0076
					1952	0.6003	0.99		2150	3.919	0.0106
					2000	0.1500	1.01		2151	5.107	0.0184
					2004	0.2998	1.03		2152	6.983	0.0194
					2010	0.1001	1.04		2153	8.692	0.0276
					2100	0.0120	1.05		2154	11.753	0.0361
					2118	0.0333	1.06		2155	14.334	0.0470
					2120	1.2000	1.10		2156	17.508	0.0603
					2122	1.8004	1.16		2157	20.001	0.0798
					2124	2.3995	1.24		2158	21.606	0.0971
					2126	2.7005	1.33		2159	21.680	0.1151
					2128	2.0998	1.40		2200	21.090	0.1374
					2130	2.3995	1.48		2201	19.215	0.1542

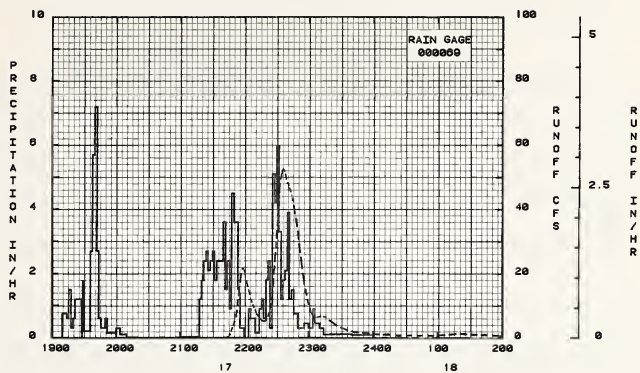
NOTES: To convert runoff in CFS to I8/EE, multiply by 0.053319.

1971 SELECTED RUNOFF EVENT				RINSEL (WACO), TEXAS				WATERSHED T-10		
ANTECEDENT CONDITIONS			RAINFALL		RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date of Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date of Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 17 - 18, 1971 (CONTINUED)										
11-17	2132	2.7005	1.57	11-17	2202	17.473	0.1695			
	2138	1.7995	1.63		2203	16.128	0.1835			
	2136	2.4006	1.71		2204	14.911	0.1997			
	2138	2.3995	1.79		2205	13.671	0.2116			
	2140	2.4006	1.87		2206	12.380	0.2225			
	2142	3.5991	1.99		2207	11.166	0.2323			
	2144	1.5005	2.08		2208	10.250	0.2435			
	2146	2.3995	2.12		2209	9.446	0.2517			
	2148	0.9002	2.15		2210	8.718	0.2593			
	2150	4.4989	2.30		2211	7.910	0.2662			
	2152	5.6007	2.42		2212	7.304	0.2741			
	2154	3.5995	2.54		2213	6.788	0.2800			
	2156	1.5005	2.59		2214	6.216	0.2854			
	2200	0.2998	2.61		2215	5.799	0.2917			
	2204	0.0	2.61		2216	5.438	0.2964			
	2206	0.9002	2.64		2217	5.327	0.3009			
	2208	0.6000	2.66		2218	5.238	0.3053			
	2210	0.6003	2.68		2219	5.349	0.3108			
	2214	0.1499	2.69		2220	5.527	0.3153			
	2216	0.8998	2.72		2221	6.007	0.3201			
	2218	1.2005	2.76		2222	6.837	0.3255			
	2220	0.5995	2.78		2223	7.782	0.3331			
	2222	1.8008	2.84		2224	8.878	0.3400			
	2224	2.3991	2.92		2225	10.533	0.3481			
	2226	0.3004	2.93		2226	13.051	0.3579			
	2228	5.0989	3.10		2227	16.929	0.3735			
	2230	4.1991	3.24		2228	22.350	0.3899			
	2232	6.0014	3.44		2229	26.607	0.4103			
	2234	3.2993	3.55		2230	31.980	0.4408			
	2236	1.2005	3.59		2231	38.753	0.4703			
	2238	1.7995	3.65		2232	43.767	0.5047			
	2240	2.1003	3.72		2233	48.006	0.5429			
	2242	3.8993	3.85		2234	50.406	0.5941			
	2244	1.2001	3.89		2235	52.131	0.6368			
	2246	1.4998	3.94		2236	52.643	0.6804			
	2250	0.7501	3.99		2237	51.927	0.7280			
	2256	0.3000	4.02		2238	50.911	0.7775			
	2300	0.4499	4.05		2239	49.401	0.8193			
	2304	0.3001	4.07		2240	48.254	0.8600			
	2306	0.9002	4.10		2241	47.364	0.8998			
	2310	0.4500	4.13		2242	46.577	0.9487			
	2314	0.3001	4.15		2243	45.504	0.9871			
	2320	0.0999	4.16		2244	44.440	1.0246			
	2330	0.1200	4.18		2245	42.671	1.0700			
	2340	0.1199	4.20		2246	40.741	1.1047			
	2400	0.0900	4.23		2247	38.707	1.1378			
					2248	36.846	1.1693			
					2249	34.623	1.2065			
					2250	32.279	1.2384			
					2251	29.207	1.2600			
					2252	26.567	1.2832			
					2253	24.059	1.3096			
					2254	21.532	1.3286			
					2255	19.109	1.3455			
					2256	16.659	1.3604			
					2257	14.815	1.3768			
					2258	13.298	1.3885			
					2259	11.990	1.3990			
					2300	10.420	1.4107			
					2301	9.255	1.4189			
					2302	8.350	1.4262			
					2303	7.605	1.4328			
					2304	6.983	1.4404			
					2305	6.596	1.4461			
					2306	6.361	1.4515			
					2308	6.405	1.4635			
					2311	6.596	1.4797			
					2314	6.596	1.4976			
					2316	6.405	1.5098			
					2321	5.107	1.5350			
					2326	3.919	1.5547			
					2331	3.012	1.5706			
					2336	2.473	1.5826			
					2341	2.052	1.5925			
					2346	1.778	1.6013			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.

1971 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED 1-10							
ASTRODIBERT 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 17 - 18, 1971 (CONTINUED)										
							11-17	2351	1.532	1.6085
								2356	1.381	1.6189
								2400	1.248	1.6198
							11-18	5	1.133	1.6250
								12	1.037	1.6318
								22	0.851	1.6401
								32	0.743	1.6472
								42	0.722	1.6538
								52	0.748	1.6603
								102	0.913	1.6678
								112	1.126	1.6769
								117	1.317	1.6822
								122	1.327	1.6880
								127	1.258	1.6939
								132	1.126	1.6991
								142	0.898	1.7082
								152	0.709	1.7152
								202	0.583	1.7210
								212	0.488	1.7258
								222	0.423	1.7298
								232	0.368	1.7333
								252	0.316	1.7393
								312	0.280	1.7446
								332	0.295	1.7497
								352	0.338	1.7553
								412	0.326	1.7612
								432	0.310	1.7668
								452	0.351	1.7727
								512	0.409	1.7795
								522	0.428	1.7832
								532	0.504	1.7874
								542	0.619	1.7924
								547	0.669	1.7952
								552	0.663	1.7981
								612	0.520	1.8087
								632	0.413	1.8170
								642	0.409	1.8207
								652	0.483	1.8246
								702	0.560	1.8293
								707	0.595	1.8318
								712	0.595	1.8345
								722	0.531	1.8394
								732	0.473	1.8439
								742	0.381	1.8477
								752	0.326	1.8508
								822	0.280	1.8589
								852	0.233	1.8657
								922	0.193	1.8714
								952	0.154	1.8760
								1052	0.121	1.8833
								1130	0.107	1.8872
								1200	0.102	1.8900
								1300	0.075	1.8947
								1400	0.065	1.8984
								1500	0.053	1.9015
								1600	0.041	1.9040
								1800	0.035	1.9081

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.



EVENT OF NOVEMBER 17 - 18, 1971
RIESEL (WACO), TEXAS WATERSHED T-10

BIESEL (WACO), TEXAS SW-11

LOCATION: Falls County, Texas; 19 miles southeast of Waco; Brazos River Basin.

AREA: 2.66 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												BIESEL (WACO), TEXAS SW-11													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1971	P	0.0	1.71	0.27	3.40	2.26	1.44	10.46	3.14	2.35	4.06	4.63	7.36	41.08											
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.068	0.0	0.0	0.989	2.726	3.792											
STA AV	P	1.46	2.84	2.32	3.53	3.38	3.46	2.48	1.88	2.69	3.31	3.33	3.26	33.94											
	Q	0.176	0.407	0.413	0.130	0.183	0.694	0.086	0.008	0.281	0.334	1.034	0.784	4.530											

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge Date	1 Hour Rate	2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1971	12-9	1.427	12-9	0.930	12-9	1.225	12-9	1.689	12-9	2.048	12-9	2.569	12-8	2.686	12-2	2.726

MAXIMUMS FOR PERIOD OF RECORD											
Date	1 Hour Rate	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days				
10-31 1940	6.670	11-22 1940	2.060	11-22 1940	2.260	11-22 1940	2.580				
11-22 1940	2.820	11-22 1940	2.820	11-22 1940	3.590	11-22 1940	5.900				
11-21 1940	6.220										

NOTES: Watershed conditions: 100% winter growing Harding grass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, OSDA Misc. Pub. 1370, p. 42-023-5. Precipitation and runoff records began March 1938; discontinued July 1943; reestablished July 1, 1969; part-year amounts are included in station averages. Precipitation data from rain gage 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

Day	DAILY PRECIPITATION (inches)												BIESEL (WACO), TEXAS SW-11											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.08E	0.03E	0.0	0.0	0.0	0.0	0.0	0.39	0.05E	0.0	0.0	0.0	1.07										
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0											
4	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.22	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.10E	0.0	0.03E	0.0	0.0	0.71										
6	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.54										
7	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.24	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	0.24	0.0	0.0	0.0	0.0	0.53										
9	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.07E	0.0	3.40									
10	0.0	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01										
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	0.0										
12	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.70	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	0.05E										
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.16										
15	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
16	0.0	0.0	0.0	2.12	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0										
17	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.88	0.03E										
18	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.29	0.0	0.0										
19	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.01E	0.0	0.52	0.0	0.0	0.0										
20	0.0	0.0	0.0	0.80	0.50	0.0	0.0	0.0	0.0	1.73	0.0	0.0	0.0	0.0										
21	0.0	0.19	0.0	0.0	0.0	0.54	3.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
22	0.0	0.0	0.0	0.06E	0.0	0.11E	0.0	0.0	0.82	0.0	0.44	0.0	0.0	0.0										
23	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.01E	0.0	0.0	0.0	0.0										
24	0.0	0.0	0.0	0.0	0.13E	0.0	1.93	0.0	1.23	0.0	0.0	0.0	0.0	0.0										
25	0.0	1.16	0.10E	0.0	0.0	0.0	1.49	0.02E	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	0.18	0.0	0.0	0.0										
27	0.0	0.0	0.0	0.0	0.03E	0.29	1.35	0.0	0.0	0.12	0.0	0.0	0.0	0.0										
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.47	0.0	0.0	0.0	0.02E	0.04E	0.0	0.0										
29	0.0	0.0	0.0	0.24	0.0	0.0	0.28	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	0.24	0.19	0.0	0.0	0.0	0.0	0.40	0.0										
31	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.41	0.0	0.0										
TOTAL	0.0	1.71	0.27	3.40	2.26	1.44	10.46	3.14	2.35	4.06	4.63	7.36												
STA AV	1.46	2.84	2.32	3.53	3.38	3.46	2.48	1.88	2.69	3.31	3.33	3.26												

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42-002-1. Precipitation values are from rain gage 89. Records began March 1938; discontinued July 1943; reestablished July 1, 1969. Part-year amounts are included in averages. STA AV based on 9 yr record period. Estimate codes may indicate that non-significant event totals are included.

1971 REAN DAILY DISCHARGE (cfs)												RIBSEL (WACO), TEXAS SW-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	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	0.008	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	0.004			
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	T		
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	0.285			
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	0.015			
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	0.086	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	0.024	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	0.001	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			
REAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0037	0.0098				
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.068	0.0	0.0	0.989	2.726				
STA AV	0.176	0.407	0.413	0.130	0.183	0.698	0.086	0.008	0.281	0.338	1.034	0.784				

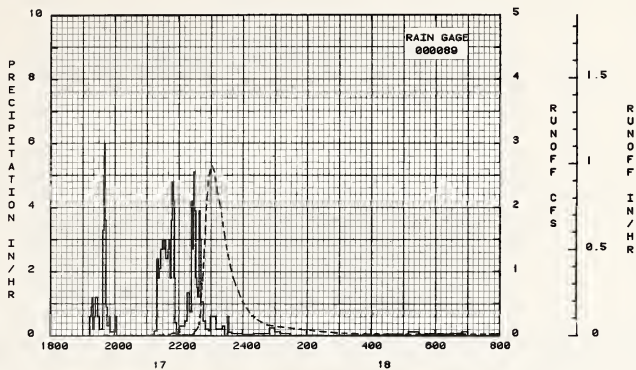
NOTES: To convert rean daily discharge in CFS to IN/DAY, multiply by 8.947990. Records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in averages. STA AV based on 9 yr record period.

1971 SELECTED RUNOFF EVENT												RIBSEL (WACO), TEXAS SW-11				
PRECEDENT 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 17 - 18, 1971																
RG 000089																
11-17	0.0	0.0	11-17				11-17	1939	0.0	0.0						
								1940	0.004	0.0						
								1941	0.008	0.0						
								1944	0.011	0.0082						
								1946	0.007	0.0003						
WATERSHED CONDITIONS:																
100% winter growing harding																
grass, 6 to 10 inches high,																
moderate cover.																
								1924	0.6000	0.10		1948	0.003	0.0004		
								1926	1.2001	0.14		1957	0.001	0.0005		
								1928	1.2000	0.18		2117	0.0	0.0007		
								1932	0.5999	0.22		2120	0.0	0.0007		
								1938	0.2000	0.24		2122	0.003	0.0007		
								1940	3.3008	0.35		2125	0.008	0.0008		
								1942	5.9986	0.55		2128	0.012	0.0010		
								1943	3.6007	0.61		2132	0.016	0.0013		
								1944	3.6007	0.67		2142	0.023	0.0025		
								1946	0.8998	0.70		2145	0.020	0.0029		
								1950	0.3001	0.72		2147	0.026	0.0032		
								1952	0.6003	0.74		2149	0.036	0.0036		
								2002	0.1200	0.76		2151	0.042	0.0041		
								2004	0.5995	0.78		2153	0.042	0.0047		
								2006	0.0	0.78		2155	0.032	0.0051		
								2110	0.0094	0.79		2157	0.022	0.0055		
								2115	0.0	0.79		2200	0.015	0.0059		
								2119	0.1489	0.80		2203	0.010	0.0061		
								2122	2.4005	0.92		2207	0.008	0.0063		
								2124	1.8000	0.98		2217	0.006	0.0067		
								2126	2.1003	1.05		2220	0.011	0.0069		
								2130	2.6955	1.23		2223	0.009	0.0071		
								2132	3.0005	1.33		2225	0.014	0.0072		
								2134	2.6993	1.42		2227	0.025	0.0075		
								2136	3.0009	1.52		2228	0.033	0.0077		

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.

1971 SELECTED RUNOFF EVENT			RESSEL (WACO), TEXAS SW-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 NOVEMBER 17 - 18, 1971 (CONTINUED)										
11-17			2180		2.4001	1.68	11-17	2229	0.083	0.0079
			2182		2.6993	1.77		2230	0.057	0.0081
			2184		3.0009	1.87		2231	0.070	0.0087
			2186		1.7995	1.93		2232	0.083	0.0091
			2188		3.6007	2.05		2234	0.100	0.0103
			2150		4.7991	2.21		2236	0.116	0.0116
			2152		4.2010	2.35		2237	0.138	0.0123
			2153		1.7987	2.38		2238	0.169	0.0138
			2156		0.4002	2.40		2239	0.208	0.0145
			2202		0.0999	2.41		2240	0.291	0.0160
			2206		0.3001	2.43		2241	0.399	0.0180
			2210		0.2998	2.45		2242	0.541	0.0214
			2212		0.3002	2.46		2243	0.656	0.0249
			2216		0.4500	2.49		2244	0.820	0.0292
			2220		1.3500	2.58		2245	0.856	0.0353
			2224		0.7501	2.63		2246	0.981	0.0407
			2226		4.2010	2.77		2247	1.140	0.0469
			2228		2.6993	2.86		2248	1.353	0.0542
			2230		5.0989	3.03		2249	1.512	0.0646
			2232		3.9011	3.16		2250	1.714	0.0740
			2234		1.7995	3.22		2251	1.892	0.0845
			2236		1.5005	3.27		2252	2.047	0.0960
			2238		1.1995	3.31		2253	2.177	0.1114
			2240		3.9011	3.44		2255	2.343	0.1277
			2241		2.9980	3.49		2257	2.499	0.1694
			2242		3.0007	3.58		2259	2.585	0.1990
			2246		1.0499	3.61		2302	2.655	0.2486
			2250		0.4500	3.64		2307	2.547	0.3281
			2256		0.2001	3.66		2312	2.272	0.4053
			2300		0.1999	3.67		2317	2.075	0.4718
			2302		0.6003	3.69		2322	1.771	0.5306
			2306		0.6001	3.73		2327	1.491	0.5829
			2310		0.5999	3.77		2332	1.255	0.6249
			2316		0.2000	3.79		2337	1.074	0.6605
			2322		0.1999	3.81		2342	0.908	0.6923
			2326		0.3001	3.83		2347	0.780	0.7181
			2332		0.0	3.83		2352	0.694	0.7406
			2334		0.6000	3.85		2356	0.596	0.7566
			2340		0.1000	3.86		2400	0.523	0.7713
			2350		0.0601	3.87	11-18	2	0.497	0.7772
			2400		0.0600	3.88		7	0.434	0.7914
11-18			20		0.0300	3.89		12	0.363	0.8042
			30		0.0601	3.90		17	0.314	0.8186
			40		0.0600	3.91		22	0.279	0.8237
			50		0.0600	3.92		27	0.246	0.8321
			100		0.2401	3.96		37	0.204	0.8459
			110		0.1200	3.98		47	0.164	0.8574
			130		0.0600	4.00		57	0.149	0.8672
			300		0.0	4.00		117	0.134	0.8847
			430		0.0133	4.02		137	0.111	0.8999
			500		0.0400	4.04		157	0.087	0.9123
			510		0.0	4.04		227	0.060	0.9260
			520		0.1199	4.06		257	0.043	0.9356
			530		0.1200	4.08		327	0.032	0.9426
			600		0.0200	4.09		357	0.025	0.9479
			630		0.0400	4.11		457	0.020	0.9563
			640		0.0601	4.12		557	0.019	0.9636
			650		0.0600	4.13		657	0.019	0.9707
			700		0.1200	4.15		757	0.016	0.9772
								857	0.013	0.9826
								957	0.006	0.9861
								1057	0.003	0.9878
								1157	0.001	0.9885
								1500	0.0	0.9891

NOTES: To convert runoff in CFS to I8/HR, multiply by .372833.



EVENT OF NOVEMBER 17 - 18, 1971

EIESEL (GACO), TEXAS SR-11

DIESEL (WACO), TEXAS WATERSHED SW-12

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

AREA: 2.97 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												DIESEL (WACO), TEXAS WATERSHED SW-12																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																
1971	P	0.02	1.63	0.33	3.34	2.22	1.11	11.40	2.71	2.10	4.47	4.93	6.86	41.12															
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.552	0.064	0.0	0.012	2.220	4.168	7.016															
STA AV	P	2.01	2.72	2.24	3.94	3.81	3.51	1.81	2.06	2.68	2.90	2.43	32.92																
	Q	0.405	0.621	0.590	0.652	0.570	0.375	0.800	0.019	0.035	0.010	0.219	0.413	3.996															
ANNUAL MAXIMUM DISCHARGE (in/hr) AED 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.												
1971		11-17	3.345	11-17	1.587	11-17	2.046	12-8	2.269	12-8	2.725	12-8	3.284	12-8	3.414	12-2	4.156												
MAXIMUMS FOR PERIOD OF RECORD																													
		3-29	4.000	3-29	3.070	3-29	3.830	3-29	4.620	3-29	4.800	3-29	5.340	3-29	5.390	4-19	8.530												
		1965		1965		1965		1965		1965		1965		1965		1957													

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, USDA 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 National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)													DIESEL (WACO), TEXAS WATERSHED SW-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.04E	0.07E	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0													
3	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0													
4	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.21	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.38	0.0	0.03E	0.0	0.68													
6	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.01E	0.0	0.44													
7	0.0	0.0	0.0	0.0	0.05E	0.0	0.23	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	0.05E	0.0	0.0	0.63													
9	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.08E	0.0	3.07													
10	0.0	0.0	0.0	0.0	1.05	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	0.17	0.0	0.0	0.0	0.0	0.78	0.03E	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	0.05E													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.18													
15	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	2.10	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0													
17	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.15	0.03E													
18	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.31	0.0													
19	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.02E	1.16	0.0	0.0													
20	0.0	0.0	0.0	0.84	0.66	0.0	0.0	0.0	0.0	1.77	0.0	0.0													
21	0.0	0.14	0.0	0.0	0.0	0.31	4.53	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.02E	0.0	0.16	0.0	0.0	0.0	0.77	0.0	0.47													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.02E	0.0	0.0													
24	0.0	0.0	0.0	0.14	0.0	0.0	1.92	0.0	1.23	0.0	0.0	0.0													
25	0.0	1.05	0.09E	0.0	0.0	0.0	1.54	0.04E	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	0.14	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.04E	0.24	1.46	0.0	0.0	0.13	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.55	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.20	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.0	0.0													
30	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.17	0.0	0.0	0.0	0.39													
31	0.0	0.0	0.0	0.04E	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.37													
TOTAL		2.01	1.63	0.33	3.34	2.22	1.11	11.40	2.71	2.10	4.47	4.93	6.86												
STA AV		0.02	2.72	2.24	3.94	3.81	3.51	1.81	2.06	2.68	2.90	2.43	32.92												

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 29 yr period. Estimate codes may indicate that non-significant event TOTALS ARE INCLUDED.

1971 MEAN DAILY DISCHARGE (cfs)					IRSEL (WACO), TEXAS					WATERSHED SW-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	0.009
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 T
4	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
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.047
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0 T
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.388
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012
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 T	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	0.253	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0
19	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
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.003	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	0.008	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0 T
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0022	0.0003	0.0	0.0	0.0090	0.0164
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.552	0.068	0.0	0.012	2.220	1.168
STA AV	0.405	0.621	0.590	0.652	0.570	0.375	0.090	0.019	0.035	0.010	0.219	0.412

NOTES: To convert mean daily discharge in CFS to IW/DAY, multiply by 8.010025. 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 29 yr. period.

1971 SELECTED RUNOFF EVENT					IRSEL (WACO), TEXAS					WATERSHED SW-12		
AFTERCREST 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 17 - 18, 1971												
11-17	0.0	0.0	11-17	1910	0.0	0.0	11-17	1939	0.0	0.0		
				1916	0.1999	0.04		1941	0.001	0.0		
				1918	1.2005	0.08		1943	0.004	0.0		
				1920	0.5995	0.10		1944	0.009	0.0		
				1923	0.2002	0.11		1945	0.013	0.0001		
WATERSHED CONDITIONS:												
100% native grass meadow,												
6 inches high.												
				1924	1.8004	0.14		1946	0.020	0.0002		
				1926	0.9002	0.17		1947	0.026	0.0003		
				1930	1.1998	0.25		1948	0.026	0.0004		
				1931	1.2005	0.27		1950	0.021	0.0007		
				1934	0.1999	0.28		1952	0.015	0.0009		
				1936	0.2999	0.29		1954	0.010	0.0011		
				1938	0.8998	0.32		1956	0.008	0.0012		
				1940	3.9011	0.45		2001	0.004	0.0014		
				1942	10.7977	0.81		2006	0.003	0.0015		
				1944	3.0009	0.91		2016	0.002	0.0016		
				1946	0.2998	0.92		2123	0.001	0.0022		
				1949	0.1999	0.93		2126	0.003	0.0022		
				1950	1.2005	0.95		2128	0.005	0.0022		
				1952	0.6003	0.97		2129	0.007	0.0022		
				2000	0.1500	0.99		2130	0.011	0.0023		
				2004	0.4500	1.02		2131	0.017	0.0024		
				2010	0.1000	1.03		2132	0.023	0.0025		
				2116	0.0091	1.04		2133	0.032	0.0026		
				2118	0.9002	1.07		2134	0.039	0.0028		
				2120	2.3995	1.15		2137	0.042	0.0034		
				2122	2.1007	1.22		2141	0.049	0.0044		
				2124	2.0993	1.29		2142	0.054	0.0047		
				2126	3.0009	1.39		2143	0.062	0.0050		
				2130	2.5494	1.56		2144	0.083	0.0054		
				2132	1.8004	1.62		2145	0.097	0.0060		
				2134	2.6993	1.71		2146	0.115	0.0066		
				2136	2.1007	1.78		2147	0.141	0.0073		
				2138	2.0993	1.85		2148	0.165	0.0081		
				2140	3.3008	1.96		2149	0.203	0.0093		
				2142	2.3995	2.06		2150	0.273	0.0106		

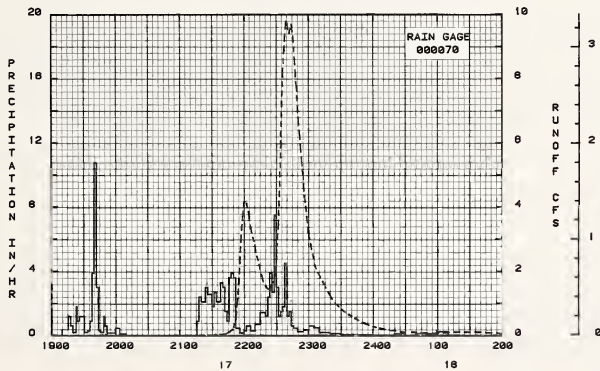
NOTES: To convert runoff in CFS to IW/HR, multiply by 0.333918.

1971 SELECTED RUNOFF EVENT				DISEL (WACO), TEXAS				WATERSHED SW-12			
PRECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Date	Date	Acc.		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 17 - 18, 1971 (CONTINUED)											
11-17											
2184	1.5005	2.11	11-17	2151	0.365	0.0123					
2186	0.8998	2.14		2152	0.519	0.0187					
2188	3.6007	2.26		2153	0.735	0.0189					
2150	3.8993	2.39		2154	1.154	0.0239					
2152	3.6007	2.51		2155	1.636	0.0314					
2156	0.4500	2.54		2156	2.297	0.0419					
2200	0.1501	2.55		2157	2.976	0.0595					
2202	0.2999	2.56		2158	3.448	0.0767					
2204	0.6000	2.58		2159	3.870	0.0963					
2206	0.5998	2.60		2200	4.136	0.1230					
2210	0.3001	2.62		2201	4.197	0.1453					
2215	0.7199	2.68		2202	4.118	0.1675					
2220	1.8402	2.80		2203	4.014	0.1892					
2222	1.2001	2.84		2204	3.828	0.2154					
2224	2.3995	2.92		2205	3.591	0.2352					
2226	3.9011	3.05		2206	3.378	0.2538					
2228	2.6993	3.14		2207	3.188	0.2713					
2230	7.8984	3.39		2208	3.052	0.2921					
2232	3.0009	3.49		2209	2.901	0.3081					
2234	1.1995	3.53		2210	2.799	0.3234					
2236	1.5005	3.58		2211	2.585	0.3378					
2238	1.7995	3.64		2212	2.457	0.3546					
2240	4.5009	3.79		2213	2.343	0.3674					
2242	1.2000	3.83		2214	2.212	0.3796					
2244	1.5005	3.88		2215	2.047	0.3938					
2246	0.5995	3.90		2216	1.883	0.4043					
2250	0.4500	3.93		2218	1.666	0.4233					
2255	0.2401	3.95		2220	1.528	0.4425					
2300	0.3599	3.98		2222	1.451	0.4584					
2305	0.6001	4.03		2223	1.435	0.4680					
2310	0.4799	4.07		2224	1.455	0.4757					
2320	0.1800	4.10		2225	1.512	0.4836					
2330	0.1200	4.12		2226	1.540	0.4919					
2340	0.0601	4.13		2227	1.658	0.5027					
2400	0.0600	4.15		2228	1.709	0.5117					
11-18											
20	0.0	4.15		2229	1.976	0.5215					
30	0.1200	4.17		2230	2.364	0.5360					
40	0.0	4.17		2231	2.856	0.5499					
50	0.1200	4.19		2232	3.440	0.5667					
100	0.1199	4.21		2233	4.504	0.5879					
110	0.2401	4.25		2234	5.921	0.6227					
200	0.0	4.25		2235	7.159	0.6576					
				2236	8.180	0.6906					
				2237	8.878	0.7442					
				2238	9.386	0.8052					
				2239	9.781	0.8564					
				2240	9.722	0.9085					
				2241	9.531	0.9599					
				2242	9.415	1.0232					
				2243	9.545	1.0739					
				2244	9.692	1.1253					
				2245	9.458	1.1893					
				2246	9.128	1.2390					
				2247	8.584	1.2863					
				2248	8.048	1.3307					
				2249	7.608	1.3830					
				2250	6.953	1.4219					
				2251	6.540	1.4579					
				2252	6.097	1.4917					
				2253	5.706	1.5311					
				2254	5.289	1.5605					
				2255	4.873	1.5876					
				2256	4.504	1.6127					
				2257	4.145	1.6416					
				2258	3.845	1.6629					
				2259	3.511	1.6826					
				2300	3.233	1.7051					
				2301	2.999	1.7218					
				2302	2.839	1.7374					
				2303	2.683	1.7522					
				2304	2.505	1.7695					
				2305	2.343	1.7825					
				2306	2.202	1.7946					
				2307	2.080	1.8060					
				2309	1.948	1.8302					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.

1971 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-12						
APPROXIMATE CONDITIONS		RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (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 17 - 18, 1971 (CONTINUED)									
						11-17	2311	1.811	1.8503
							2313	1.684	1.8713
							2316	1.475	1.8987
							2319	1.308	1.9229
							2322	1.133	1.9425
							2325	1.007	1.9611
							2328	0.901	1.9777
							2331	0.801	1.9925
							2334	0.722	2.0057
							2337	0.654	2.0167
							2340	0.596	2.0276
							2343	0.538	2.0374
							2346	0.476	2.0462
							2351	0.391	2.0584
							2356	0.318	2.0683
						11-18	2400	0.271	2.0754
							3	0.246	2.0795
							6	0.221	2.0836
							11	0.188	2.0893
							16	0.162	2.0944
							21	0.139	2.0986
							26	0.113	2.1021
							36	0.096	2.1081
							46	0.080	2.1132
							51	0.074	2.1154
							56	0.074	2.1175
							101	0.081	2.1198
							106	0.087	2.1222
							111	0.097	2.1268
							116	0.108	2.1278
							126	0.107	2.1338
							136	0.100	2.1397
							146	0.085	2.1450
							156	0.069	2.1493
							206	0.055	2.1529
							216	0.044	2.1557
							226	0.036	2.1579
							236	0.031	2.1598
							256	0.022	2.1628

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.



EVENT OF NOVEMBER 17 - 18, 1971
RIESEL (WACO), TEXAS WATERSHED SW-12

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												
P	0.0	1.55	0.24	3.26	2.35	1.40	10.09	3.58	2.28	3.99	4.56	6.89	40.19												
Q	0.0	0.0	0.0	0.0	0.0	0.0	0.826	0.736	0.0	0.320	2.055	3.510	7.448												
STA AV P	1.90	2.77	2.27	4.09	3.75	3.42	1.84	2.25	2.78	3.02	3.00	2.51	33.59												
Q	0.388	0.641	0.695	0.961	0.789	0.721	0.205	0.096	0.170	0.175	0.525	0.597	5.963												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Maximum Discharge												Maximum Volume for Selected Time Interval													
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	1 Hour	2 Hours	6 Hours	12 Hours		
1971	11-17	1.760	12-9	1.038	11-17	1.737	11-17	2.038	12-9	2.439	12-8	2.829	12-7	2.829	12-7	2.829	12-7	2.829	12-7	2.829	12-7	2.829	12-7	2.829	
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		1957								

NOTES: Watershed conditions: 100% Berlandgrass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, OSDA 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 National Weather Service records at Waco, Texas.

1971 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	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.03E	0.03E	0.0	0.0	0.0	0.0	0.36	0.04E	0.0	0.0	1.01												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0												
4	0.0	0.14	0.0	0.0	0.0	0.0	0.0	1.52	0.0	0.21	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.08E	0.0	0.0	0.0	0.67												
6	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.01E	0.0	0.45												
7	0.0	0.0	0.0	0.02E	0.0	0.25	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	0.27	0.0	0.0	0.57												
9	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.005E	0.0	3.15												
10	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0	0.02												
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	0.14	0.0	0.0	0.0	0.77	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	0.06E												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.15												
15	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	2.00	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0												
17	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	3.87	0.03E												
18	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.26	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.01E	1.05	0.0	0.0												
20	0.0	0.0	0.0	0.81	0.43	0.0	0.0	0.0	0.0	1.59	0.0	0.0												
21	0.0	0.14	0.0	0.0	0.0	0.60	2.93	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.04E	0.0	0.01E	0.0	0.0	0.78	0.0	0.43	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.02E	0.0	0.0												
24	0.0	0.0	0.0	0.22	0.0	0.0	1.44	0.0	1.18	0.0	0.0	0.0												
25	0.0	1.09	0.07E	0.0	0.0	0.0	1.55	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	0.08	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.03E	0.36	1.10	0.0	0.0	0.21	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.02E	0.66	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.22	0.0	0.0	1.44	0.0	0.0	0.0	0.0	0.0												
30	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.46	0.0	0.0	0.0	0.33												
31	0.0		0.0		0.03E		0.0	0.02E				0.39												
TOTAL	0.0	1.55	0.24	3.26	2.35	1.40	10.09	3.58	2.28	3.99	4.56	6.89												
STA AV	1.90	2.77	2.27	4.09	3.75	3.42	1.84	2.25	2.78	3.02	3.00	2.51												

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 27 yr period. Estimate codes may indicate that non-significant event totals are included.

1971		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	0.0	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	0.011	
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 T	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.090	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	0.013	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	
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 T	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.385	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	
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	0.002	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 T	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	0.233	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	
19	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	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040	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	0.037	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	0.008	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.008	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 T	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0033	0.0030	0.0	0.0013	0.0086	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.736	0.0	0.320	2.055	3.510	
STA AV	0.388	0.641	0.695	0.961	0.789	0.721	0.205	0.096	0.170	0.175	0.525	0.597	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.960419. 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 27 yr period.

1971		SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED SW-17	
AWRBCREBET CONDITIONS		RAINFALL					ROROFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/h)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF NOVEMBER 17 - 18, 1971													
11-17	RG 0000W2	0.0	0.0	11-17	RG 0000W2								
				1912	0.0	0.0	11-17	1936	0.0	0.0			
				1916	1.2000	0.08		1937	0.001	0.0			
				1920	0.1499	0.09		1938	0.007	0.0			
				1922	2.7005	0.18		1939	0.019	0.0001			
				1924	0.8998	0.21		1940	0.025	0.0002			
WATERSHED CONDITIONS:													
100% Bermuda grass pasture, 10 inches high.													
				1926	1.2005	0.25		1941	0.023	0.0003			
				1928	0.2998	0.26		1943	0.013	0.0005			
				1930	0.6000	0.28		1944	0.008	0.0006			
				1936	0.1000	0.29		1945	0.005	0.0006			
				1938	4.1991	0.43		1949	0.002	0.0007			
				1940	5.1012	0.60		1954	0.0	0.0007			
				1943	3.0000	0.75		2019	0.0	0.0007			
				1946	0.3998	0.77		2115	0.0	0.0007			
				1950	0.3001	0.79		2116	0.0	0.0007			
				2000	0.1800	0.82		2117	0.003	0.0007			
				2002	0.3004	0.83		2118	0.005	0.0007			
				2030	0.0214	0.84		2120	0.007	0.0008			
				2100	0.0200	0.85		2121	0.011	0.0008			
				2110	0.0	0.85		2122	0.017	0.0009			
				2115	0.2400	0.87		2124	0.028	0.0012			
				2118	1.8004	0.96		2125	0.033	0.0014			
				2120	2.3995	1.04		2126	0.051	0.0016			
				2122	2.7005	1.13		2127	0.099	0.0021			
				2126	2.5900	1.30		2128	0.148	0.0027			
				2128	2.9995	1.40		2129	0.200	0.0036			
				2130	2.3995	1.48		2130	0.274	0.0051			
				2133	4.0009	1.68		2131	0.410	0.0069			
				2136	1.7998	1.77		2132	0.524	0.0093			
				2140	2.5500	1.94		2133	0.576	0.0122			
				2142	3.2993	2.05		2134	0.655	0.0162			

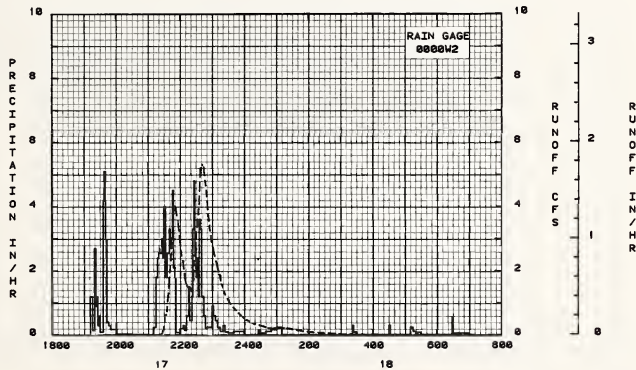
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

1971 SELECTED RUNOFF EVENT				BISESEL (WACO), TEXAS				WATERSHED SW-17			
PRECEDENT CONDITIONS			Date No-Day	RAINFALL			RUNOFF			Rate (cfs)	Acc. (inches)
Date No-Day	Rainfall (inches)	Runoff (inches)		Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)		
EVENT OF NOVEMBER 17 - 18, 1971 (CONTINUED)											
			11-17	2144	2.7010	2.14	11-17	2135	0.744	0.0198	
				2146	2.9991	2.24		2136	0.895	0.0240	
				2148	4.5014	2.39		2137	1.080	0.0291	
				2150	2.0993	2.46		2138	1.310	0.0368	
				2152	1.8004	2.52		2139	1.513	0.0441	
				2200	0.0751	2.53		2140	1.795	0.0527	
				2206	0.1999	2.55		2141	2.005	0.0625	
				2208	0.3002	2.56		2142	2.172	0.0760	
				2212	0.1499	2.57		2143	2.357	0.0877	
				2216	0.6001	2.61		2144	2.549	0.1004	
				2218	1.5000	2.66		2145	2.870	0.1180	
				2222	0.4500	2.69		2146	3.218	0.1338	
				2224	1.2000	2.73		2147	3.646	0.1516	
				2226	3.3008	2.84		2148	3.826	0.1710	
				2228	4.7991	3.00		2149	3.908	0.1961	
				2230	2.6993	3.09		2150	3.997	0.2166	
				2232	1.8004	3.15		2151	4.025	0.2374	
				2234	2.3995	3.23		2152	3.963	0.2581	
				2236	1.2001	3.27		2154	3.719	0.3029	
				2238	3.5995	3.39		2156	3.476	0.3402	
				2240	3.3008	3.50		2158	3.236	0.3793	
				2242	1.1995	3.54		2159	3.059	0.3956	
				2244	1.2005	3.58		2201	2.778	0.4296	
				2247	0.5999	3.61		2203	2.473	0.4568	
				2250	0.1999	3.62		2205	2.299	0.4846	
				2255	0.2401	3.64		2207	2.058	0.5072	
				2300	0.2398	3.66		2209	1.795	0.5297	
				2302	0.9002	3.69		2211	1.614	0.5474	
				2306	0.6001	3.73		2213	1.530	0.5657	
				2310	0.4500	3.76		2215	1.476	0.5832	
				2315	0.2400	3.78		2217	1.513	0.5987	
				2320	0.1199	3.79		2219	1.440	0.6159	
				2324	0.3001	3.81		2221	1.392	0.6306	
				2330	0.0999	3.82		2222	1.356	0.6377	
				2340	0.0601	3.83		2223	1.411	0.6467	
				2400	0.1200	3.87		2224	1.555	0.6544	
			11-18	26	0.0	3.87		2225	1.754	0.6630	
				30	0.1499	3.88		2226	2.020	0.6728	
				40	0.0601	3.89		2227	2.320	0.6869	
				50	0.1199	3.91		2228	2.587	0.6996	
				100	0.1800	3.94		2229	2.870	0.7137	
				105	0.2401	3.96		2230	3.059	0.7329	
				110	0.2401	3.98		2231	3.206	0.7491	
				200	0.0	3.98		2232	3.431	0.7663	
				322	0.0	3.98		2233	3.613	0.7846	
				324	0.2998	3.99		2234	3.772	0.8085	
				330	0.1001	4.00		2235	3.928	0.8285	
				430	0.0100	4.01		2236	4.194	0.8495	
				432	0.2998	4.02		2237	4.624	0.8723	
				510	0.0158	4.03		2238	5.029	0.9036	
				515	0.2399	4.05		2239	5.211	0.9301	
				520	0.1201	4.06		2241	5.307	0.9486	
				524	0.0	4.06		2242	5.291	1.0189	
				530	0.0999	4.07		2244	5.227	1.0734	
				628	0.0104	4.08		2246	4.967	1.1328	
				630	0.5997	4.10		2248	4.654	1.1827	
				650	0.0600	4.12		2250	4.308	1.2350	
				700	0.0600	4.13		2252	3.908	1.2776	
								2254	3.554	1.3211	
								2256	3.243	1.3563	
								2259	2.894	1.4080	
								2302	2.648	1.4547	
								2305	2.452	1.4997	
								2308	2.248	1.5373	
								2311	2.024	1.5705	
								2314	1.850	1.6031	
								2316	1.688	1.6237	
								2318	1.576	1.6406	
								2320	1.476	1.6584	
								2322	1.392	1.6733	
								2324	1.264	1.6888	
								2329	1.111	1.7211	
								2334	0.972	1.7508	
								2339	0.860	1.7757	
								2344	0.770	1.7979	

NOTES: To convert runoff in CFS to I8/HR, multiply by 0.331684.

1971 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-17									
PRECIPITATION 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 17 - 18, 1971 (CONTINUED)												
							11-17	2349	0.682	1.8186		
								2354	0.609	1.8362		
								2357	0.562	1.8461		
								2400	0.518	1.8552		
							11-18	4	0.470	1.8661		
								9	0.425	1.8783		
								14	0.383	1.8893		
								19	0.348	1.8997		
								25	0.298	1.9172		
								39	0.245	1.9323		
								44	0.222	1.9387		
								49	0.209	1.9448		
								53	0.209	1.9498		
								57	0.220	1.9541		
								101	0.217	1.9589		
								104	0.228	1.9626		
								109	0.228	1.9688		
								114	0.219	1.9789		
								119	0.206	1.9810		
								129	0.182	1.9916		
								139	0.149	2.0008		
								149	0.123	2.0088		
								159	0.108	2.0186		
								209	0.085	2.0199		
								219	0.070	2.0242		
								239	0.048	2.0307		
								259	0.038	2.0352		
								319	0.024	2.0388		
								339	0.020	2.0408		
								359	0.015	2.0427		
								419	0.011	2.0441		
								509	0.008	2.0467		
								529	0.011	2.0477		
								559	0.009	2.0494		
								659	0.007	2.0521		
								759	0.004	2.0539		
								859	0.001	2.0547		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.



EVENT OF NOVEMBER 17 - 18, 1971
RIESEL (WACO), TEXAS WATERSHED SW-17

BIESEL (WACO), TEXAS WATERSHED SW-19

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin.

AREA: 3.25 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												BIESEL (WACO), TEXAS WATERSHED SW-19															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1971	P	0.01	1.30	0.42	3.15	2.35	0.92	11.85	2.49	1.79	4.54	5.29	6.58	40.69	Q	0.0	0.0	0.0	0.0	0.0	1.672	0.050	0.0	0.067	2.399	3.024	7.212
STA AV	P	0.01	1.30	0.42	3.15	2.35	0.92	11.85	1.68	4.05	4.28	2.81	3.73	36.54	Q	0.0	0.0	0.0	0.0	1.672	0.050	0.0	0.045	1.159	1.512	4.478	

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	11-17	2.938	11-17	1.727	11-17	2.269	11-17	2.376	11-17	2.396	11-17	2.399	12-8	2.483	12-2	3.015
MAXIMUMS FOR PERIOD OF RECORD																
	11-17	2.938	11-17	1.727	11-17	2.269	11-17	2.376	11-17	2.396	11-17	2.399	12-8	2.483	12-2	3.015
1971			1971		1971		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 42.035-4. Precipitation and runoff records began September 1, 1970, part year records are included in the STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)													BIESEL (WACO), TEXAS WATERSHED SW-19													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
1	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.04E	0.12	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.03E	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	0.0	0.0	0.73
6	0.0	0.0	0.0	0.0	0.0	0.05E	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	0.0	0.0	0.0	0.0	0.0	0.0	0.45
7	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	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	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64
9	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.50
10	0.0	0.0	0.0	0.0	1.27	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
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	0.0	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	0.20	0.0	0.0	0.0	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E
14	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	0.0	0.0	0.0	0.20
15	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.97	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	0.0
17	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.55
18	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	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
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	1.65	0.0	0.0	0.0	0.0	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	0.82	0.74	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0	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	0.17	0.0	0.0	0.0	0.32	5.11	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	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	0.77	0.0	0.0	0.49	0.0	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	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E
24	0.0	0.0	0.0	0.0	0.11E	0.0	2.12	0.0	0.98	0.0	0.0	0.0	0.0	0.0	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	0.80	0.10E	0.0	0.0	0.0	1.62	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	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	0.16	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
27	0.0	0.0	0.0	0.0	0.02E	0.54	1.30	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	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.02E	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	0.0	0.0	0.0	0.0	0.04E
29	0.0	0.0	0.0	0.20	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E
30	0.0	0.0	0.0	0.0	0.0	0.0	0.27	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	0.0	0.0	0.0	0.45
31	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39
TOTAL	0.01	1.30	0.42	3.15	2.35	0.92	11.85	2.49	1.79	4.54	5.29	6.58	40.69													
STA AV	0.01	1.30	0.42	3.15	2.35	0.92	11.85	1.68	4.05	4.28	2.81	3.73	36.54													

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56B. Records began September 1, 1970. STA AV based on 2 yr (1970-71) record period. Estimate codes may indicate that non-significant event totals are included.

1971 MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS WATERSHED SW-19							
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	0.010
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 T
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	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	0.034
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.322
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014
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 T	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	0.316	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0
19	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
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.088	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	0.024	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.088	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	0.038	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 T	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.001
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 T
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0078	0.0002	0.0	0.0003	0.0108	0.0133
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	1.672	0.050	0.0	0.067	2.399	1.024
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	1.672	0.050	0.0	0.045	1.199	1.512

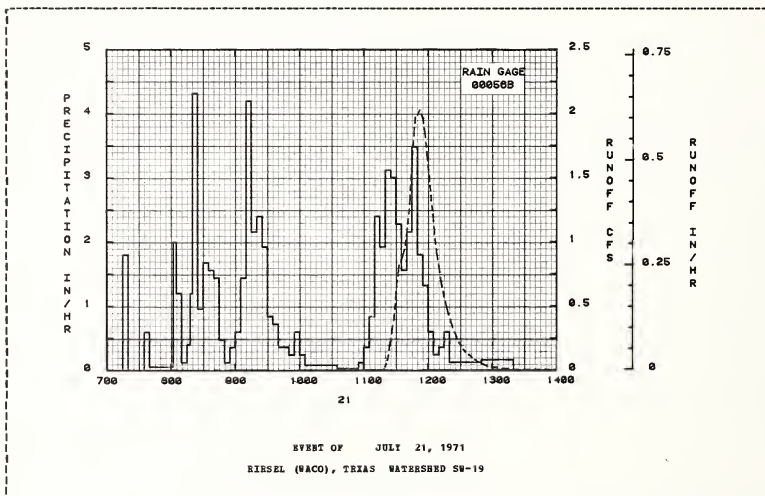
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.123585. Records began September 1, 1970. STA AV based on 2 yr (1970-71) record period.

1971 SELECTED RIBOFF EVENT				RIESEL (WACO), TEXAS WATERSHED SW-19							
PRECEDENT CONDITIONS			RAINFALL				RIBOFF				
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 JULY 21, 1971											
RG 000568											
7-21	0.0	0.0	7-21	RG 000568	715	0.0	0.0	7-21	1115	0.0	0.0
					720	1.8000	0.15		1117	0.002	0.0
					735	0.0	0.15		1118	0.004	0.0
					740	0.6000	0.20		1119	0.014	0.0001
					802	0.0545	0.22		1120	0.027	0.0002
WATERSHED CONDITIONS:											
					805	2.0000	0.32		1121	0.047	0.0004
					810	1.2000	0.42		1122	0.081	0.0007
					815	0.1200	0.43		1123	0.124	0.0013
					818	0.4000	0.45		1124	0.179	0.0020
					820	1.2000	0.49		1125	0.245	0.0030
					825	4.3200	0.85		1126	0.292	0.0043
					830	0.9600	0.93		1127	0.350	0.0062
					835	1.6800	1.07		1128	0.403	0.0080
					840	1.5600	1.20		1129	0.477	0.0101
					845	1.4400	1.32		1130	0.613	0.0133
					850	0.4800	1.36		1131	0.697	0.0164
					855	0.1200	1.37		1132	0.763	0.0199
					900	0.3600	1.40		1133	0.818	0.0237
					905	0.6000	1.43		1136	0.875	0.0368
					910	1.4400	1.57		1138	0.937	0.0465
					915	4.2000	1.92		1140	1.070	0.0561
					920	2.1600	2.10		1142	1.217	0.0684
					925	2.4000	2.30		1143	1.328	0.0745
					930	1.9200	2.46		1144	1.495	0.0812
					935	0.4800	2.53		1145	1.634	0.0905
					940	0.7200	2.59		1146	1.754	0.0986
					945	0.3600	2.62		1147	1.892	0.1073
					950	0.3600	2.65		1148	1.965	0.1165
					955	0.2400	2.67		1150	1.993	0.1377
					1000	0.6000	2.72		1152	2.030	0.1569
					1005	0.2400	2.74		1155	1.960	0.1878
					1015	0.0800	2.78		1157	1.847	0.2082
					1055	0.0300	2.79		1159	1.672	0.2250
					1100	0.1200	2.80		1201	1.507	0.2421
					1105	0.3600	2.83		1203	1.316	0.2556

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.305149.

1971 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED SW-19							
ATMOSPHERIC 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 21, 1971 (CONTINUED)										
7-21	1110	0.8800	2.90	7-21	1205	1.157	0.2689			
	1115	2.4000	3.10		1206	1.060	0.2742			
	1120	1.9200	3.26		1207	0.975	0.2791			
	1125	3.1200	3.52		1208	0.906	0.2847			
	1130	3.0000	3.77		1209	0.863	0.2889			
	1135	2.2800	3.96		1210	0.806	0.2929			
	1140	1.5600	4.09		1211	0.760	0.2964			
	1145	2.1600	4.27		1212	0.705	0.3010			
	1150	3.4800	4.56		1213	0.649	0.3062			
	1155	1.8000	4.71		1215	0.571	0.3107			
	1200	1.3200	4.82		1217	0.500	0.3158			
	1205	0.6000	4.87		1219	0.421	0.3208			
	1210	0.2800	4.89		1221	0.390	0.3247			
	1215	0.3600	4.92		1223	0.333	0.3286			
	1220	0.6000	4.97		1225	0.287	0.3316			
	1250	0.1200	5.03		1227	0.246	0.3345			
	1320	0.1600	5.11		1229	0.214	0.3367			
					1231	0.187	0.3389			
					1233	0.159	0.3405			
					1235	0.139	0.3421			
					1238	0.119	0.3441			
					1241	0.098	0.3457			
					1244	0.084	0.3471			
					1247	0.061	0.3482			
					1250	0.048	0.3490			
					1255	0.032	0.3500			
					1300	0.022	0.3507			
					1305	0.015	0.3512			
					1310	0.010	0.3515			
					1315	0.007	0.3517			
					1320	0.004	0.3518			
					1330	0.002	0.3520			
					1340	0.001	0.3521			
					1400	0.0	0.3522			
					1600	0.0	0.3522			

NOTES: To convert runoff in CFS to I/HR, multiply by 0.305149.



EISEL (WACO), TEXAS WATERSHED SW-20

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin.

AREA: 3.21 acres

MONTHLY PRECIPITATION AND RUFOFF (inches)						EISEL (WACO), TEXAS WATERSHED SW-20								
	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
P	0.01	1.30	0.42	3.15	2.35	0.92	11.85	2.49	1.79	4.58	5.29	6.58	40.63	
1971	0	0.0	0.0	0.011	0.005	0.0	2.400	0.076	0.0	0.112	2.551	3.327	8.482	
STA AV	P	0.01	1.30	0.42	3.15	2.35	0.92	11.85	1.68	4.05	4.28	2.81	3.73	36.58
	Q	0.0	0.0	0.0	0.011	0.005	0.0	2.400	0.076	0.002	0.232	0.302	3.066	

ANNUAL MAXIMUM DISCHARGE (cu/ft) AND MAXIMUM VOLUMES OF RUFOFF (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 Rate	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.				
1971	11-17 3.121	11-17 1.764	11-17 2.387	11-17 2.500	11-17 2.538	12- 8 2.578	12- 8 2.720	12- 2 3.307			

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
11-17 1971	3.121	11-17 1971	1.764	11-17 1971	2.387	11-17 1971	2.500	11-17 1971	2.538	12- 8 1971	2.578	12- 8 1971	2.720	12- 2 1971	3.307

NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, OSDA Misc. Pub. 1380, p. 42.036-5. Precipitation and runoff records began September 1, 1970, part year records are included in STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)					EISEL (WACO), TEXAS WATERSHED SW-20							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.04E	0.12	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	1.01
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0
4	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.17	0.0
5	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.17	0.0	0.04E	0.0	0.73
6	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.02E	0.0	0.45
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	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	0.02E	0.0	0.0	0.64
9	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.09E	0.0	2.50
10	0.0	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0	0.0	0.05
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	0.20	0.0	0.0	0.0	0.0	0.76	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	0.07E
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.20
15	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	1.97	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0
17	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.55	0.03E
18	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.25	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	1.65	0.0	0.0
20	0.0	0.0	0.0	0.82	0.74	0.0	0.0	0.0	0.0	1.35	0.0	0.0
21	0.0	0.17	0.0	0.0	0.0	0.32	5.11	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	0.77	0.0	0.49	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.11E	0.0	2.12	0.0	0.98	0.0	0.0	0.0
25	0.0	0.80	0.10E	0.0	0.0	0.0	1.62	0.16	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	0.16	0.0	0.0
27	0.0	0.0	0.0	0.0	0.02E	0.54	1.30	0.0	0.0	0.15	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.02E	0.25	0.0	0.0	0.0	0.0	0.04E
29	0.0	0.0	0.20	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.02E
30	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.15	0.0	0.0	0.0	0.45
31	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.39
TOTAL	0.01	1.30	0.42	3.15	2.35	0.92	11.85	2.49	1.79	4.58	5.29	6.58
STA AV	0.01	1.30	0.42	3.15	2.35	0.92	11.85	1.68	4.05	4.28	2.81	3.73

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56-B. Records began September 1, 1970. STA AV based on 2 yr (1970-1971) record period. Estimate codes may indicate that non-significant event totals are included.

1971 REAN DAILY DISCHARGE (cfs)						BIESEL (WACO), TEXAS WATERSHED SW-20						
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	0.013
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 T
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.036
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030
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 T
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.342
10	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.015
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	0.002	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 T	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.330	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0
19	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
20	0.0	0.0	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.015	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.090	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 T	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	0.092	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.109	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	0.048	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 T	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.001
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
REAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0104	0.0003	0.0	0.0005	0.0115	0.0145
INCREES	0.0	0.0	0.0	0.011	0.005	0.0	2.400	0.076	0.0	0.112	2.551	3.327
STA AV	0.0	0.0	0.0	0.011	0.005	0.0	2.400	0.076	0.002	0.037	0.232	0.302

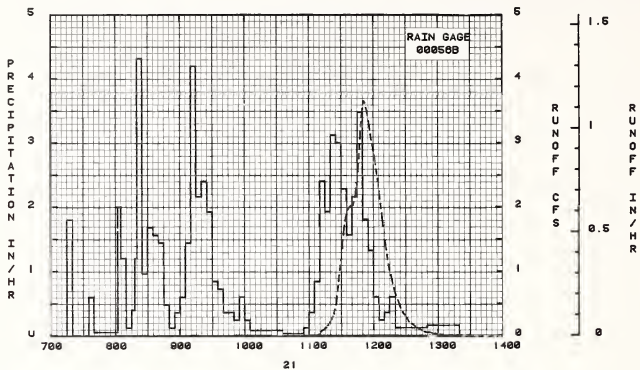
NOTES: To convert rean daily discharge in CFS to IN/DAY, multiply by 7.484845. Records began September 1, 1970.
STA AV based on 2 yr (1970-71) record period.

1971 SELECTED SUBOFF EVENT				BIESEL (WACO), TEXAS WATERSHED SW-20							
ANTECEDENT CONDITIONS			RAINFALL				SUBOFF				
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JULY 21, 1971											
7-21	NG 00056B	0.0	7-21	NG 00056B	715	0.0	0.0	7-21	1104	0.0	0.0
					720	1.8000	0.15		1106	0.001	0.0
					735	0.0	0.15		1107	0.004	0.0
					740	0.6000	0.20		1108	0.007	0.0
					802	0.0585	0.22		1109	0.017	0.0001
WATERSHED CONDITIONS:											
	100% rangeland grasses, 4 to 6 inches tall; with moderate infestation of honey mesquite.				805	2.0000	0.32		1110	0.030	0.0002
					810	1.2000	0.42		1111	0.058	0.0004
					815	0.1200	0.43		1112	0.076	0.0008
					818	0.4000	0.45		1113	0.089	0.0012
					820	1.2000	0.45		1114	0.099	0.0017
					825	4.3200	0.85		1115	0.118	0.0024
					830	0.9600	0.93		1116	0.133	0.0030
					835	1.6800	1.07		1117	0.157	0.0037
					840	1.5600	1.20		1118	0.173	0.0045
					845	1.4400	1.32		1119	0.198	0.0056
					850	0.4800	1.36		1120	0.217	0.0066
					855	0.1200	1.37		1121	0.248	0.0077
					900	0.3600	1.40		1122	0.295	0.0090
					905	0.6000	1.45		1123	0.340	0.0109
					910	1.4400	1.57		1124	0.409	0.0127
					915	4.2000	1.92		1125	0.493	0.0149
					920	2.1600	2.10		1126	0.605	0.0176
					925	2.4000	2.30		1127	0.769	0.0217
					930	1.9200	2.46		1128	0.940	0.0258
					935	0.8400	2.53		1129	1.094	0.0307
					940	0.7200	2.59		1130	1.203	0.0376
					955	0.3600	2.62		1131	1.408	0.0439
					950	0.3600	2.65		1132	1.580	0.0511
					955	0.2400	2.67		1133	1.706	0.0590
					1000	0.6000	2.72		1134	1.829	0.0697

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.

1971 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED SF-20							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Ro-Day	(inches)	(inches)	Ro-Day	of Day	(in/hr)	(inches)	Ro-Day	of Day	(cfs)	(inches)
EVENT OF JULY 21, 1971 (CONTINUED)										
7-21	1005	0.2400	2.74	7-21	1135	1.883	0.0787			
	1035	0.0800	2.78		1137	1.988	0.0978			
	1055	0.0300	2.79		1139	2.025	0.1192			
	1100	0.1200	2.80		1141	2.035	0.1388			
	1105	0.3600	2.83		1142	2.082	0.1512			
	1110	0.8400	2.90		1143	2.159	0.1614			
	1115	2.4000	3.10		1144	2.302	0.1722			
	1120	1.9200	3.26		1145	2.480	0.1866			
	1125	3.1200	3.52		1146	2.682	0.1991			
	1130	3.0000	3.77		1147	2.909	0.2126			
	1135	2.2800	3.96		1148	3.178	0.2273			
	1140	1.5600	4.09		1149	3.430	0.2472			
	1145	2.1600	4.27		1150	3.544	0.2640			
	1150	3.4800	4.56		1151	3.652	0.2814			
	1155	1.8000	4.71		1152	3.618	0.2989			
	1200	1.3200	4.82		1154	3.490	0.3375			
	1205	0.6000	4.87		1156	3.280	0.3702			
	1210	0.2400	4.89		1158	3.041	0.4045			
	1215	0.3600	4.92		1200	2.975	0.4366			
	1220	0.6000	4.97		1202	2.661	0.4633			
	1250	0.1200	5.03		1204	2.393	0.4907			
	1320	0.1600	5.11		1206	2.120	0.5125			
					1208	1.838	0.5340			
					1209	1.698	0.5425			
					1210	1.551	0.5503			
					1211	1.408	0.5574			
					1212	1.328	0.5657			
					1213	1.181	0.5718			
					1214	1.091	0.5773			
					1215	1.014	0.5837			
					1217	0.875	0.5928			
					1219	0.724	0.6015			
					1221	0.615	0.6080			
					1223	0.540	0.6143			
					1225	0.433	0.6190			
					1227	0.364	0.6233			
					1229	0.317	0.6266			
					1231	0.266	0.6298			
					1233	0.210	0.6321			
					1236	0.175	0.6351			
					1239	0.140	0.6376			
					1242	0.111	0.6396			
					1245	0.081	0.6411			
					1247	0.064	0.6418			
					1249	0.055	0.6424			
					1251	0.048	0.6429			
					1252	0.046	0.6431			
					1254	0.035	0.6435			
					1255	0.030	0.6437			
					1257	0.029	0.6440			
					1259	0.024	0.6443			
					1302	0.019	0.6446			
					1305	0.013	0.6449			
					1309	0.011	0.6451			
					1329	0.009	0.6461			
					1359	0.008	0.6474			
					1759	0.007	0.6567			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.



RIESEL (WACO), TEXAS WATERSHED T-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND SUNSHOP (inches)						RIESEL (WACO), TEXAS WATERSHED T-13							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.03	1.71	0.31	3.38	2.18	1.18	11.25	2.65	2.08	4.42	0.87	7.10	41.40
Q	0.0	0.0	0.0	0.0	0.0	0.0	0.386	0.121	0.0	0.363	0.0	0.0	0.870
STA AV P	0.55	2.98	3.08	3.40	1.85	0.63	3.99	1.70	3.23	4.67	2.39	3.83	32.36
Q	0.001	0.325	1.214	0.805	0.013	0.0	0.129	0.040	0.0	0.265	0.0	0.167	2.559

ANNUAL MAXIMUM DISCHARGE (in/cu) AND MAXIMUM VOLUMES OF RUNOFF (in/cu) 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.
1971	7-27	2.062	10-20	0.324	10-20	0.359	10-20	0.363	10-19	0.363	10-19	0.363	10-18	0.363	7-27	0.386		

MAXIMUMS FOR PERIOD OF RECORD															
Maximum Discharge	Date	Rate	Date	Vol.	Maximum Volume	Date	Vol.	Maximum Volume	Date	Vol.	Maximum Volume	Date	Vol.	Maximum Volume	
7-27	2.062	2-24	0.419	2-24	0.574	3-7	0.972	3-7	1.025	3-6	1.701	3-6	1.725	2-27	2.645
1971		1970		1970		1970		1970		1970		1970		1970	

NOTES: Watershed conditions: 96% fall planted oats; 4% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 82.037-5. Precipitation and runoff records began January 1, 1969. Precipitation data obtained from rain gage 70-A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED T-13						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec								
1	0.0	0.0	0.0	0.02E	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	0.07E	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	1.01							
3	0.01E	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0							
4	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.18	0.0	0.0	0.0							
5	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.36	0.0	0.03E	0.0	0.72	0.0							
6	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.01E	0.0	0.50	0.0							
7	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.22	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	0.06E	0.0	0.0	0.59	0.0							
9	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.10E	0.0	3.07	0.0							
10	0.0	0.0	0.65	0.0	0.96	0.0	0.0	0.0	0.0	0.0	0.0	0.03	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	0.15	0.0	0.0	0.0	0.0	0.69	0.03E	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	0.06E	0.0							
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.19	0.0							
15	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
16	0.0	0.0	0.0	2.13	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0							
17	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	4.09	0.03E	0.0							
18	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.13	0.0	0.0							
19	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.03E	1.11	0.0	0.0	0.0							
20	0.0	0.0	0.0	0.87	0.69	0.0	0.0	0.0	0.0	1.78	0.0	0.0	0.0							
21	0.0	0.15	0.0	0.0	0.0	0.31	4.12	0.0	0.0	0.0	0.0	0.0	0.0							
22	0.0	0.0	0.0	0.01E	0.0	0.24	0.0	0.0	0.78	0.0	0.45	0.0	0.0							
23	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0							
24	0.0	0.0	0.0	0.0	0.14	0.0	1.77	0.0	1.10	0.0	0.0	0.0	0.0							
25	0.0	1.15	0.09E	0.0	0.0	0.0	1.59	0.08E	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	0.17	0.0	0.0	0.0							
27	0.0	0.0	0.0	0.0	0.03E	0.24	1.57	0.0	0.0	0.12	0.0	0.0	0.0							
28	0.0	0.0	0.0	0.0	0.0	0.03E	0.78	0.0	0.0	0.0	0.0	0.0	0.02E							
29	0.0	0.0	0.0	0.22	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.01E	0.0							
30	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.16	0.0	0.0	0.0	0.47	0.0							
31	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.08E	0.0	0.0	0.0	0.40	0.0							
TOTAL	0.01	1.71	0.31	3.34	2.18	1.18	11.25	2.65	2.08	4.42	4.87	7.10	41.40							
STA AV	0.55	2.98	3.04	3.40	1.85	0.63	3.99	1.70	3.23	4.67	2.39	3.93	32.36							

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 82.002-1. Precipitation values are from rain gage 70-A. Records began January 1, 1969. STA AV based on 3 yr (1969-71) record period. Estimate codes may indicate that non-significant event totals are included.

1971 MEAN DAILY DISCHARGE (cfs)						RIESEL (WACO), TEXAS WATERSHED T-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	0.0	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	0.021	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	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	0.005	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 T	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	0.172	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	0.033	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	0.053	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.087	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.020	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	0.0059	0.0019	0.0	0.0056	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.386	0.121	0.0	0.363	0.0	0.0
STA AV	0.001	0.325	1.214	0.405	0.013	0.0	0.129	0.040	0.0	0.265	0.0	0.167

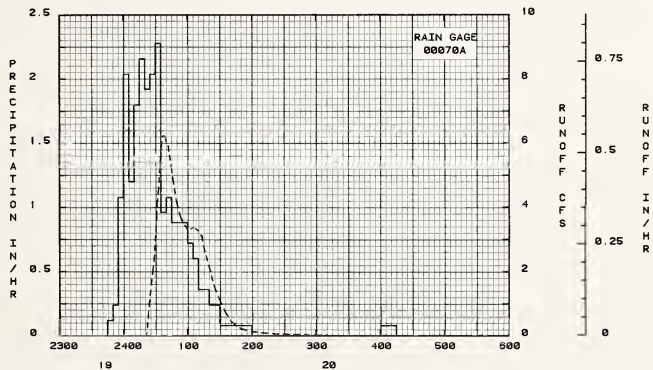
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106381. Records began January 1, 1969.
STA AV based on 3 yr (1969-71) record period.

1971 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS WATERSHED T-13					
PRECEDENT CONDITIONS			RAINFALL			RUBOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 19 - 20, 1971											
RG 00070A			RG 00070A								
10-19	0.59		10-19	2345	0.0	0.0	10-20	21	0.0	0.0	
10-20		0.0		2350	0.1199	0.01		22	0.107	0.0001	
				2355	0.2401	0.03		23	0.420	0.0007	
				2400	1.0798	0.12		24	0.975	0.0018	
			10-20	5	2.0400	0.29		25	1.289	0.0034	
WATERSHED CONDITIONS:											
96% oats recently planted, stand not yet established;											
4% Bermuda grass waterway, good cover.											
			10	1.2001	0.39		26	1.420	0.0058		
			15	1.7999	0.58		27	1.935	0.0084		
			20	2.1601	0.72		28	2.170	0.0112		
			25	1.9200	0.88		29	2.519	0.0144		
			30	2.0400	1.05		30	3.129	0.0192		
			35	2.2798	1.24		31	3.721	0.0239		
			40	0.9600	1.32		32	4.278	0.0294		
			45	1.0801	1.41		33	4.639	0.0355		
			100	0.8800	1.63		34	5.256	0.0440		
			105	0.7200	1.69		35	5.687	0.0515		
			110	0.5999	1.74		36	6.052	0.0595		
			120	0.3601	1.80		37	6.228	0.0679		
			130	0.2400	1.84		38	6.228	0.0786		
			200	0.0800	1.88		39	6.206	0.0871		
			400	0.0	1.88		40	6.052	0.0955		
			415	0.0800	1.90		42	5.900	0.1139		
							45	5.236	0.1387		
							47	4.733	0.1524		
							50	4.138	0.1722		
							52	3.819	0.1831		
							55	3.560	0.1995		
							100	3.311	0.2254		
							103	3.326	0.2391		
							105	3.383	0.2495		
							107	3.340	0.2587		

NOTES: To convert runoff in CFS to IN/HR, multiply by .087764.

1971 SELECTED RUNOFF EVENT			BIRSEL (WACO), TEXAS WATERSHED I-13							
PRECIPITATION 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 19 - 20, 1971 (CONTINUED)										
							10-20	110	3.269	0.2734
								113	3.101	0.2876
								115	2.781	0.2967
								120	2.159	0.3185
								125	1.511	0.3277
								130	1.111	0.3376
								135	0.735	0.3442
								140	0.470	0.3485
								145	0.320	0.3515
								150	0.224	0.3535
								155	0.171	0.3549
								200	0.126	0.3560
								210	0.086	0.3575
								220	0.068	0.3586
								230	0.050	0.3598
								240	0.039	0.3600
								300	0.023	0.3609
								320	0.014	0.3614
								330	0.011	0.3616
								400	0.007	0.3620
								500	0.004	0.3625
								600	0.002	0.3628
								900	0.0	0.3631
								1130	0.0	0.3631

NOTES: To convert runoff in CFS to IN/HR, multiply by .067764.



1971 MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSEED T-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	0.003
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	0.148	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 T	0.0	0.0	0.0	0.026
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.045
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.007
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.614
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009
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	0.003	0.0	0.0	0.0	0.0
13	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
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	0.409E	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	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	0.005	0.0	0.0	0.0	0.0	0.0	0.156	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.060	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	0.003	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 T	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.101	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.197	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	0.131	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.121	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.039	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	0.0002	0.0	0.0	0.0226	0.0049	0.0	0.0050	0.0143	0.0227
INCRCS	0.0	0.0	0.0	0.020	0.0	0.0	2.982	0.647	0.0	0.663	1.827	2.992
STA AV	0.001	0.139	0.905	0.171	0.010	0.0	0.594	0.216	0.0	0.306	0.609	1.161

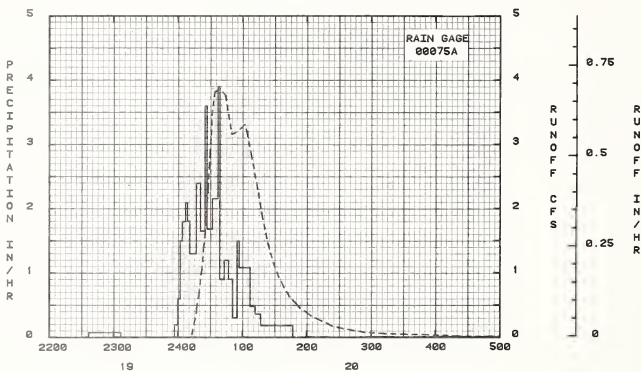
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 4.250295. Records began January 1, 1969.
STA AV based on 3 yr (1969-71) record period.

1971 SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS				WATERSEED T-14			
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 19 - 20, 1971											
RG 00075A											
10-19	0.90		10-19	2237	0.0	0.0	10-20	11	0.0	0.0	
10-20		0.0		2307	0.0800	0.04		12	0.013	0.0	
				2357	0.0	0.04		13	0.054	0.0001	
				2400	0.1999	0.05		14	0.128	0.0004	
			10-20	2	0.6901	0.07		15	0.201	0.0010	
WATERSEED CONDITIONS:											
96% tilled, bare; 48 Bermuda-grass waterway, good cover.											
				4	1.5001	0.12		16	0.297	0.0017	
				7	1.7999	0.21		17	0.394	0.0027	
				9	2.1002	0.28		18	0.530	0.0040	
				11	1.7999	0.34		19	0.632	0.0060	
				17	1.2999	0.47		20	0.751	0.0079	
				21	2.4001	0.63		21	0.902	0.0102	
				25	1.6500	0.74		22	1.033	0.0129	
				27	3.5998	0.86		23	1.184	0.0167	
				32	1.6800	1.00		24	1.398	0.0203	
				37	2.1601	1.18		25	1.588	0.0244	
				39	3.9001	1.31		26	1.802	0.0291	
				43	0.9000	1.37		27	2.033	0.0357	
				47	1.2000	1.45		28	2.317	0.0417	
				51	0.9000	1.51		29	2.649	0.0486	
				55	0.3001	1.53		30	2.926	0.0582	
				57	1.4996	1.58		31	3.234	0.0667	
				102	1.0801	1.67		32	3.531	0.0761	
				107	1.0800	1.76		34	3.821	0.0990	
				112	0.4799	1.80		39	3.871	0.1549	
				117	0.3600	1.83		44	3.755	0.2103	
				147	0.1800	1.92		50	3.162	0.2725	
								54	3.191	0.3099	
								59	3.263	0.3568	
								102	3.307	0.3863	
								104	3.191	0.4065	

NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.

1971 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED T-14									
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 19 - 20, 1971 (CONTINUED)												
							10-20	109	2.765	0.4498		
								114	2.305	0.4866		
								119	1.833	0.5181		
								124	1.451	0.5420		
								129	1.145	0.5609		
								134	0.928	0.5767		
								139	0.768	0.5890		
								144	0.632	0.5992		
								149	0.535	0.6081		
								154	0.448	0.6152		
								204	0.333	0.6268		
								214	0.246	0.6352		
								224	0.170	0.6414		
								234	0.128	0.6458		
								244	0.100	0.6491		
								254	0.074	0.6517		
								314	0.050	0.6553		
								334	0.038	0.6579		
								354	0.027	0.6598		
								424	0.013	0.6616		
								454	0.006	0.6624		
								524	0.003	0.6628		
								554	0.001	0.6630		
								654	0.001	0.6632		
								754	0.0	0.6633		
								900	0.0	0.6633		

NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.



EVENT OF OCTOBER 19 - 20, 1971
RIESEL (WACO), TEXAS WATERSHED T-14

BIESEL (WACO), TEXAS WATERSHED W-12

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin.

AREA: 9.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)											BIESEL (WACO), TEXAS WATERSHED W-12												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		Jan	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P	0.0	1.52	0.28	3.41	2.31	1.63	10.62	3.21	2.12	4.28	0.70	41.08		0.0	0.474	0.338	0.0	0.919	2.251	3.119	7.148	
	Q	0.0	0.0	0.0	0.046	0.0	0.0	0.237	0.169	0.023	0.434	0.752	1.192		0.0	0.237	0.169	0.023	0.434	0.752	1.192	3.810	
STA AV	P	0.41	3.08	2.61	2.99	2.20	1.02	5.44	2.22	4.00	4.64	3.33	34.76		0.0	0.004	0.067	0.075	0.058	0.0	0.0	0.0	0.0
	Q	0.004	0.067	0.075	0.058	0.0	0.0	0.237	0.169	0.023	0.434	0.752	1.192		0.0	0.004	0.067	0.075	0.058	0.0	0.0	0.0	0.0

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		2 Days		8 Days		
		Discharge	Volume	Discharge	Volume	Discharge	Volume	Discharge	Volume	Discharge	Volume	Discharge	Volume	Discharge	Volume	
1971	11-17	1.912	11-17	1.278	11-17	2.018	11-17	2.209	11-17	2.244	12-8	2.637	12-8	2.734	12-2	3.119
	11-17	1.912	11-17	1.278	11-17	2.018	11-17	2.209	11-17	2.244	12-8	2.637	12-8	2.734	12-2	3.119
	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971

MAXIMUMS FOR PERIOD OF RECORD

NOTES: Watershed conditions: 97% grain sorghum; 3% grassed waterway. Cropland planted on graded farrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.039-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage W18. For long-time precipitation records, see National Weather Service records at Waco, Texas.

Day	1971 DAILY PRECIPITATION (inches)												BIESEL (WACO), TEXAS WATERSHED W-12												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	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	0.02E	0.04E	0.0	0.0	0.0	0.0	0.0	0.38	0.03E	0.0	0.0	1.03	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	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	1.28	0.0	0.0	0.21	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	0.06E	0.0	0.0	0.07E	0.0	0.0	0.03E	0.0	1.01	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	0.40	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.17	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	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.50	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	0.09E	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	3.16	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	0.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.78	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.17				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	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	2.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	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	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.98	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.27	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	0.66E	0.0	0.0	0.03E	0.53	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	0.86	0.54	0.0	0.0	0.0	0.0	1.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.15	0.0	0.0	0.0	0.0	0.57	3.42	0.0	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	0.07E	0.0	0.02E	0.0	0.0	0.74	0.0	0.45	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	0.28	0.0	0.0	0.02E	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	0.14	0.0	1.95	0.0	1.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.0	1.05	0.08E	0.0	0.0	0.0	1.49	0.02E	0.0	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	0.19	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	0.03E	0.0	0.85	1.28	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				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E				
29	0.0	0.0	0.0	0.23	0.0	0.0	0.0	1.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E				
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.28	0.0	0.0	0.0	0.42	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	0.04E	0.0	0.0	1.0	0.05E	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	0.0	1.52	0.28	3.41	2.31	1.63	10.62	3.21	2.12	4.24	4.70	7.04		0.41	3.08	2.61	2.99	2.20	1.02	5.44	2.22	4.00	4.64	2.33	3.83
STA AV	0.41	3.08	2.61	2.99	2.20	1.02	5.44	2.22	4.00	4.64	2.33	3.83													

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W18. Records began October 1, 1969. STA AV based on 3 yr (1969-71) record period. Estimate codes may indicate that non-significant event totals are included.

1971		MEAN DAILY DISCHARGE (cfs)					BIENSEL (WACO), TEXAS WATERSHED W-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	0.008
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 T
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.128	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	0.053
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.098
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.996
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038
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	0.012	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 T	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	0.278	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.063	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	0.019	0.0	0.0	0.0	0.0	0.0	0.382	0.0	0.0
21	0.0	0.0	0.0	0.0 T	0.0	0.0	0.001	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	0.016	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.036	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	0.007	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.057	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	0.0006	0.0	0.0	0.0064	0.0045	0.0	0.0123	0.0312	0.0018
WCBES	0.0	0.0	0.0	0.046	0.0	0.0	0.474	0.338	0.0	0.919	2.251	3.119
STA AV	0.004	0.067	0.875	0.058	0.0	0.0	0.237	0.169	0.023	0.434	0.752	1.192

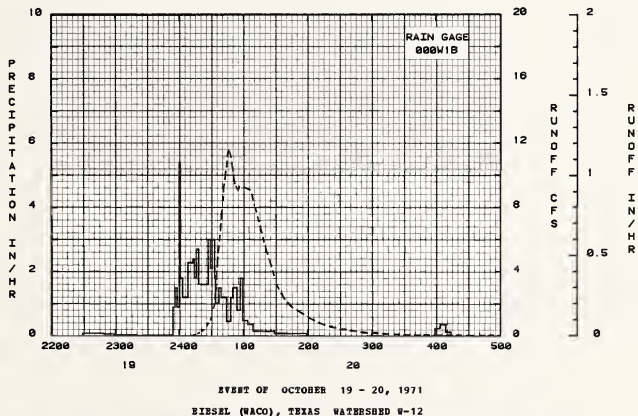
NOTES: To convert mean daily discharge in CFS to I³/DAY, multiply by 2.404207. STA AV based on 3 yr (1969-71) record period.

1971		SELECTED RUNOFF EVENT					BIENSEL (WACO), TEXAS WATERSHED W-12					
PRECEDENT CONDITIONS		RAINFALL					RUNOFF					
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF OCTOBER 19 - 20, 1971												
PG 00001E												
10-19	0.76		10-19	2229	0.0	0.0	10-20	1	0.0	0.0		
10-20		0.0		2249	0.0900	0.03		3	0.0	0.0		
				2259	0.0600	0.04		5	0.001	0.0		
				2354	0.0218	0.06		7	0.003	0.0		
				2356	0.9002	0.09		9	0.010	0.0		
WATERSHED CONDITIONS:												
97% oak; recently planted												
not established; 3/4 grassed												
waterway, good cover												
			10-20	1	5.3998	0.26		13	0.102	0.0006		
				3	1.7999	0.32		17	0.158	0.0010		
				8	1.2001	0.42		19	0.217	0.0017		
				13	2.2800	0.61		21	0.292	0.0025		
				14	2.3996	0.65		23	0.421	0.0038		
				16	1.7999	0.71		25	0.574	0.0054		
				18	2.6999	0.80		27	0.785	0.0078		
				24	1.6000	0.96		29	1.004	0.0106		
				27	1.6000	1.04		31	1.454	0.0189		
				29	3.0002	1.14		32	1.756	0.0174		
				31	2.0998	1.21		33	1.997	0.0203		
				33	3.0002	1.31		34	2.949	0.0251		
				34	1.7999	1.34		35	4.635	0.0306		
				37	1.0001	1.39		36	4.905	0.0376		
				39	1.4996	1.44		37	5.625	0.0458		
				44	1.2001	1.54		38	6.280	0.0575		
				48	0.4500	1.57		39	7.000	0.0679		
				50	1.2003	1.61		40	7.847	0.0795		
				52	1.4996	1.66		41	8.673	0.0924		
				54	1.5001	1.71		42	9.463	0.1101		
				57	0.8002	1.75		43	9.964	0.1253		
				59	1.7999	1.81		44	10.605	0.1414		
				104	0.4799	1.85		45	11.240	0.1628		
				109	0.3600	1.88		46	11.565	0.1806		
				129	0.1500	1.93		47	11.467	0.1986		
				159	0.0800	1.97		48	11.143	0.2163		
				359	0.0	1.97		49	10.762	0.2377		
				404	0.2399	1.99		50	10.266	0.2542		

NOTES: To convert runoff in CFS to I³/HR, multiply by 0.100175.

1971 SELECTED RUNOFF EVENT			BIESSEL (WACO), TEXAS WATERSHED #-12							
PRECEDENT 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 19 - 20, 1971 (CONTINUED)										
10-20	409		19-20		0.3600	2.02	10-20	51	9.785	0.2699
	414				0.1201	2.03		52	9.492	0.2850
								53	9.319	0.3034
								54	9.187	0.3179
								55	9.034	0.3321
								56	9.290	0.3464
								101	9.233	0.4261
								106	9.091	0.5014
								108	8.755	0.5328
								111	8.003	0.5721
								116	6.716	0.6355
								121	5.380	0.6852
								126	4.331	0.7251
								131	3.194	0.7575
								136	2.560	0.7811
								141	2.050	0.8000
								146	1.756	0.8164
								151	1.550	0.8300
								156	1.348	0.8419
								201	1.125	0.8525
								206	0.956	0.8611
								211	0.803	0.8683
								216	0.677	0.8747
								221	0.508	0.8799
								226	0.489	0.8843
								231	0.413	0.8882
								241	0.309	0.8941
								251	0.223	0.8986
								301	0.171	0.9019
								311	0.128	0.9044
								321	0.102	0.9063
								331	0.098	0.9079
								401	0.058	0.9115
								431	0.038	0.9139
								501	0.029	0.9156
								601	0.012	0.9177
								800	0.002	0.9191
								1000	0.001	0.9194
								1200	0.0	0.9195

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.



EISEL (WACO), TEXAS WATERSHED #-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND ROHOFF (inches)												EISEL (WACO), TEXAS WATERSHED #-13																
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
P	0.0	1.52	0.28	3.41	2.31	1.63	10.62	3.21	2.12	4.24	4.70	7.04	41.08															
Q	0.0	0.0	0.0	0.039	0.0	0.0	0.229	0.191	0.0	0.763	2.009	3.272	6.502															
STA AV P	0.41	3.08	2.61	2.99	2.20	1.02	5.48	2.22	4.00	4.64	2.33	3.83	34.76															
Q	0.006	0.057	0.688	0.098	0.0	0.0	0.115	0.095	0.037	0.330	0.671	1.141	3.237															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF ROHOFF (inches) FOR SELECTED TIME INTERVALS																												
Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days														
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.													
1971	11-17	1.713	11-17	1.196	11-17	1.767	11-17	1.995	12- 9	2.247	12- 8	2.825	12- 8	2.973	12- 2	3.272												
MAXIMUMS FOR PERIOD OF RECORD																												
	11-17	1.713	11-17	1.196	11-17	1.767	11-17	1.995	12- 9	2.247	12- 8	2.825	12- 8	2.973	12- 2	3.272												
	1971		1971		1971		1971		1971		1971		1971		1971													

NOTES: Watershed conditions: 97% grain sorghum; 3% grassed waterway. Cropland planted on graded farrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42,040-3. Precipitation and runoff records began October 1, 1969; part year records are included in STA AV. Precipitation data obtained from rain gage #1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1971 DAILY PRECIPITATION (inches)													EISEL (WACO), TEXAS WATERSHED #-13												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.02E	0.04E	0.0	0.0	0.0	0.0	0.38	0.03E	0.0	0.0	0.0	1.03												
3	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0												
4	0.0	0.15	0.0	0.0 E	0.0	0.0	0.0	1.28	0.0	0.21	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.07E	0.0	0.03E	0.0	0.0	1.01												
6	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.17												
7	0.0	0.0	0.0	0.0	0.02E	0.0	0.25	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	0.23	0.0	0.0	0.0	0.50												
9	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	3.16												
10	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01												
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	0.16	0.0	0.0	0.0	0.0	0.78	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	0.06E												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.17												
15	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	2.05	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	3.98	0.03E	0.0												
18	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.27	0.0	0.0												
19	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.01E	0.93	0.0	0.0	0.0												
20	0.0	0.0	0.0	0.86	0.54	0.0	0.0	0.0	0.0	1.86	0.0	0.0	0.0												
21	0.0	0.15	0.0	0.0	0.0	0.57	3.42	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.07E	0.0	0.02E	0.0	0.0	0.74	0.0	0.45	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.02E	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.18	0.0	1.95	0.0	1.11	0.0	0.0	0.0	0.0												
25	0.0	1.05	0.08E	0.0	0.0	0.0	1.49	0.02E	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	0.19	0.0	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.03E	0.45	1.28	0.0	0.0	0.11	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.03E	0.47	0.0	0.0	0.0	0.0 E	0.05E	0.0												
29	0.0	0.0	0.23	0.0	0.0	0.0	1.95	0.0	0.0	0.0	0.0	0.0	0.22E												
30	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.28	0.0	0.0	0.0	0.0	0.42												
31	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.41												
TOTAL	0.0	1.52	0.28	3.41	2.31	1.63	10.62	3.21	2.12	4.24	4.70	7.04													
STA AV	0.41	3.08	2.61	2.99	2.20	1.02	5.48	2.22	4.00	4.64	2.33	3.83													

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42,002-1. Precipitation values are from rain gage #1E. Records began October 1, 1969. STA AV based on 3 yr (1969-71) record period. Estimate codes may indicate that non-significant event totals are included.

1971 MEAN DAILY DISCHARGE (cfs)						EISEL (WACO), TEXAS WATERSHED #-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	0.008
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 T
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.082	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 T	0.0	0.0	0.0	0.036
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.097
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.342
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.067
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	0.008	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 T	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	0.882	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.071	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	0.018	0.0	0.0	0.0	0.0	0.0	0.362	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.004	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	0.026	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.022	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	0.0006	0.0	0.0	0.0035	0.0029	0.0	0.0117	0.0318	0.0501
INCHES	0.0	0.0	0.0	0.039	0.0	0.0	0.229	0.191	0.0	0.763	2.009	3.272
STA #V	0.006	0.057	0.688	0.098	0.0	0.0	0.115	0.095	0.037	0.330	6.471	1.141

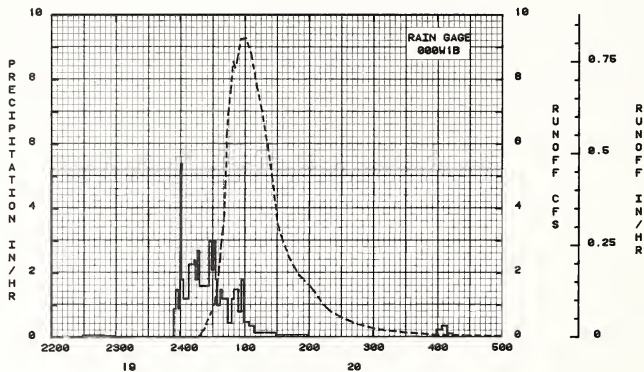
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began October 1, 1969. STA #V based on 3 yr (1969-71) record period.

1971 SELECTED RUNOFF EVENT				EISEL (WACO), TEXAS WATERSHED #-13						
ANTICIPATED CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 19 - 20, 1971										
10-19	RG 000W18		10-19	2229	0.0	0.0	10-20	15	0.0	0.0
10-20	0.76	0.0		2249	0.0900	0.03		16	0.006	0.0
				2259	0.0600	0.04		17	0.029	0.0
				2324	0.0218	0.06		18	0.068	0.0001
				2356	0.9002	0.09		19	0.102	0.0002
WATERSHED CONDITIONS:										
97% oak; recently planted, stand not yet established;										
3% grassed waterway, good cover.										
			10-20	1	5.3998	0.26	23	0.301	0.0015	
				3	1.7999	0.32	24	0.418	0.0020	
				8	1.2001	0.42	26	0.567	0.0034	
				13	2.2800	0.61	28	0.734	0.0054	
				14	2.3996	0.65	30	0.875	0.0079	
				16	1.7999	0.71	32	1.060	0.0106	
				18	2.6999	0.80	33	1.282	0.0122	
				24	1.6000	0.96	34	1.567	0.0146	
				27	1.6000	1.04	35	1.797	0.0169	
				29	3.0002	1.14	36	2.045	0.0195	
				31	2.0998	1.21	37	2.458	0.0226	
				33	3.0002	1.31	38	2.896	0.0272	
				34	1.7999	1.34	39	3.198	0.0314	
				37	1.0001	1.39	40	3.472	0.0360	
				39	1.4996	1.44	41	3.893	0.0410	
				48	1.2001	1.54	42	4.485	0.0485	
				48	0.4500	1.57	43	6.309	0.0562	
				50	1.2003	1.61	45	7.132	0.0769	
				52	1.4996	1.66	47	7.810	0.0974	
				54	1.5001	1.71	49	8.555	0.1226	
				57	0.8002	1.75	51	8.364	0.1458	
				59	1.7999	1.81	53	8.637	0.1720	
				104	0.4799	1.85	56	9.255	0.2088	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.087764.

1971 SELECTED RHOFF EVENT			BIESSEL (WACO), TEXAS WATERSHED #-13								
ATTACHED/EST CONDITIONS			RAINFALL				RHOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Date (cfs)	Acc. (inches)	
EVENT OF OCTOBER 19 - 20, 1971 (CONTINUED)											
10-20	109	0.3600	1.88	10-20	101	9.288	0.2787				
	129	0.1500	1.93		106	8.775	0.3437				
	159	0.0800	1.97		111	7.810	0.4034				
	359	0.0	1.97		116	7.010	0.4593				
	408	0.2399	1.99		121	5.953	0.5060				
	409	0.3600	2.02		126	4.865	0.5489				
	41a	0.1201	2.03		131	3.856	0.5763				
					136	2.966	0.5994				
					141	2.521	0.6192				
					146	2.199	0.6370				
					151	1.929	0.6519				
					156	1.787	0.6651				
					201	1.586	0.6777				
					206	1.390	0.6888				
					211	1.126	0.6975				
					216	0.928	0.7052				
					221	0.796	0.7114				
					226	0.700	0.7168				
					231	0.608	0.7217				
					241	0.460	0.7298				
					251	0.355	0.7354				
					301	0.272	0.7400				
					311	0.215	0.7435				
					321	0.179	0.7468				
					331	0.142	0.7488				
					341	0.117	0.7507				
					351	0.092	0.7522				
					401	0.074	0.7534				
					431	0.047	0.7561				
					501	0.039	0.7580				
					601	0.017	0.7605				
					701	0.008	0.7616				
					801	0.008	0.7621				
					901	0.003	0.7624				
					1001	0.001	0.7626				
					1201	0.0	0.7627				

NOTES: To convert runoff in CFS to I/R/HR, multiply by 0.087764.



EVENT OF OCTOBER 19 - 20, 1971
BIESSEL (WACO), TEXAS WATERSHED #-13

OXFORD, MISSISSIPPI WATERSHED W-4C

LOCATION: Marshall Co., Miss.; 4.8 mi. SE of Holly Springs, on State Highway No. 4; Chew's Creek, Pigeon Foot Creek Watershed, Yazoo River Basin.

AREA: 1580.00 acres 2.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)		OXFORD, MISSISSIPPI WATERSHED W-4C														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
P	4.58	6.78	3.68	3.12	3.28	2.64	3.09	2.40	2.99	0.51	1.90	4.67	39.61			
R	0.663	2.291	0.270	0.089	0.058	0.038	0.008	0.008	0.009	0.0	0.0	0.038	3.468			
STA AV	P	3.70	4.82	4.74	4.91	3.99	3.08	3.72	3.69	4.62	2.52	4.12	5.18	49.10		
Q	0.610	1.019	0.852	0.707	0.275	0.112	0.188	0.215	0.321	0.113	0.447	0.680	5.540			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.	Date	Vol.	
1971	2-21	0.782	2-21	0.673	2-21	0.968	2-21	1.327	2-21	1.542	2-21	1.809	2-21	1.939	2-19	2.042
MAXIMUMS FOR PERIOD OF RECORD																
	2-23	0.840	2-23	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	1962	1964	1964	1964	1957	1957	1957	1957	1957	1957	1957	1957	1957

NOTES: Watershed conditions: About 14% in cultivation (cotton), fair cover November to March, poor cover April and May improving to good by mid-July; 40% in pasture and idle land, good cover April to October with fair cover remainder of year; 45% in woods, good cover; 1% bare ground. Percentages of total area in various land use categories are based on the latest survey completed in 1970-72. Reported as Watershed W-4 prior to 1965 and from 1965-68 as Watershed W-4a; redesignated as W-4C (1969). Gaging station relocated upstream, Jan. 1965, reducing drainage area from 2,000 to 1,280 acres. About 31% of drainage area above small deslitting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1954-59, USDA R13C; Pub. 945, p. 62.1-4. Monthly precipitation Thiessen weighted from rain gages 7, 8 and 18. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, MS, Mississippi.

1971 DAILY AIR TEMPERATURE (degrees F)		OXFORD, MISSISSIPPI WATERSHED W-4C												
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 min	max min
1	39 27	31 18	60 40	71 43	66 48	84 49	90 68	77 56	86 70	88 62	78 55	45 37		
2	50 29	33 18	73 41	61 31	74 47	82 56	90 69	83 61	84 70	89 62	82 60	49 33		
3	56 35	36 23	59 30	58 31	69 36	88 57	88 59	82 68	85 70	82 68	83 47	43 34		
4	61 41	49 33	52 18	70 38	63 36	87 66	90 65	85 70	85 70	87 63	61 28	40 37		
5	41 24	63 29	46 18	72 42	72 37	89 65	89 68	85 67	87 81	84 60	65 28	43 38		
6	29 21	50 24	62 30	54 52	75 60	91 68	92 69	88 68	86 69	73 51	67 32	53 42		
7	30 15	54 23	65 27	39 30	80 60	91 67	90 67	88 67	89 68	80 45	64 29	61 48		
8	26 15	46 18	45 26	62 31	80 55	78 67	90 70	90 68	88 66	77 43	62 23	51 45		
9	30 25	23 3	48 26	72 33	72 52	88 63	93 70	90 68	87 65	79 51	58 23	56 45		
10	50 29	21 2	65 32	73 48	77 56	83 63	93 70	87 69	88 65	72 35	58 26	72 49		
11	48 37	43 9	54 32	76 54	78 62	89 64	92 71	87 70	89 66	65 40	62 36	73 38		
12	65 40	55 30	60 37	80 53	70 59	90 69	92 70	90 65	90 58	77 42	71 34	63 36		
13	63 51	47 23	72 49	80 57	64 45	93 70	92 70	83 58	84 53	81 50	75 46	63 37		
14	67 54	28 15	72 54	79 36	64 39	93 68	97 63	85 58	85 54	76 51	78 57	60 38		
15	73 31	45 22	80 52	67 35	72 39	92 68	95 75	85 60	93 64	81 50	78 56	70 38		
16	46 23	57 30	67 37	75 37	76 48	86 65	95 72	85 60	90 65	82 59	75 39	65 44		
17	45 24	67 39	62 29	80 47	82 53	88 62	92 67	86 60	89 63	84 56	74 39	63 45		
18	51 31	68 48	60 29	82 61	82 54	88 63	92 70	86 63	81 57	85 65	75 39	51 25		
19	32 18	71 43	62 37	80 50	80 60	91 64	96 73	87 63	83 64	78 59	65 46	47 25		
20	28 11	63 42	52 33	85 52	81 58	87 71	85 64	90 65	79 56	80 51	46 32	60 37		
21	40 11	64 40	50 32	83 56	77 47	89 69	81 55	92 65	63 47	75 52	63 37	48 38		
22	51 33	68 38	54 32	76 46	81 48	87 67	83 55	91 72	73 50	75 44	52 26	63 35		
23	65 34	38 32	60 37	78 49	77 53	86 62	89 56	86 66	77 59	75 56	44 26	57 36		
24	55 32	48 25	87 27	63 39	83 63	90 63	83 65	86 63	80 61	73 62	63 33	58 48		
25	45 41	64 26	48 28	72 44	80 54	93 68	77 69	89 63	82 63	69 50	40 34	59 46		
26	61 39	70 47	39 34	79 47	78 50	96 73	82 70	90 67	86 67	73 49	50 33	67 48		
27	49 21	70 35	41 28	85 51	85 51	97 73	85 65	91 59	80 67	78 50	53 40	70 53		
28	33 20	62 35	65 33	80 57	75 54	90 65	81 66	84 54	85 68	80 51	53 32	70 43		
29	50 29		58 45	75 55	70 42	89 65	82 71	80 56	87 66	84 52	60 38	50 39		
30	62 33		56 28	60 49	73 82	91 66	86 66	84 62	88 63	82 52	47 37	66 43		
31	64 22		62 28		78 48		70 52	83 67		79 55		67 35		
1 AV.	49 29	51 28	58 33	72 45	75 50	89 65	88 66	87 64	84 63	79 52	63 37	58 40		
MDAR	38.9	39.4	45.6	58.7	62.8	77.1	77.3	75.3	73.4	66.1	50.0	49.2		
STA AV	47 28	52 31	60 37	72 50	80 57	86 64	89 68	89 67	82 60	73 48	62 38	51 31		

NOTES: Temperature data from National Weather Service at Holly Springs, 48, Mississippi. STA AV is for 15 yr (1957-71) record period.

1971		DAILY PRECIPITATION (inches)					OXFORD, MISSISSIPPI			WATERBRED W-NC		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.56	0.0	0.12	0.0	0.0	0.07	0.0	0.0	0.0
2	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.40	0.0	0.23	0.45
3	0.23	0.10	0.04	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.47
4	0.39	0.63	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.02	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.07	0.0	0.43	0.0	0.16
6	0.0	0.0	0.34	0.0	0.0	0.42	0.35	0.14	0.0	0.0	0.36	0.22
7	0.0	0.04	0.0	0.0	0.16	0.37	0.0	0.0	0.01	0.0	0.01	0.0
8	0.0	0.04	0.0	0.0	0.0	0.04	0.0	0.0	0.04	0.0	0.0	0.0
9	0.0	0.0	0.22	0.0	0.0	0.0	0.16	0.53	0.0	0.0	0.05	1.22
10	0.0	0.0	0.17	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.06
11	0.02	0.0	0.0	0.0	0.18	0.0	0.0	0.07	0.0	0.0	0.0	0.0
12	0.0	1.03	0.0	0.0	1.63	0.0	0.0	0.0	0.0	0.0	0.0	0.43
13	0.03	0.0	0.54	0.02	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01
14	0.79	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.40
15	0.0	0.0	0.16	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.43
16	0.0	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.78	0.0	0.0	0.04
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	0.42	0.03	0.0	0.37	0.0	0.06	0.0	0.0	0.59	0.0
19	0.0	0.71	0.0	0.0	0.0	0.0	0.01	0.02	0.98	0.0	0.03	0.10
20	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0
21	0.25	3.70	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.10	0.0	0.0	0.06	0.0	0.0	0.0	0.17	0.0	0.0	0.01	0.0
23	0.35	0.0	0.0	0.68	0.0	0.0	0.11	0.0	0.0	0.04	0.12	0.0
24	1.42	0.0	0.0	0.49	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0
25	0.0	0.03	1.22	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0
26	0.0	0.52	0.0	0.0	0.0	0.0	0.04	0.97	0.67	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.40	0.16	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.37	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.59	0.10
29	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
30	0.0	0.0	0.20	0.0	0.0	0.0	0.17	0.07	0.0	0.0	0.0	0.52
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	4.58	6.78	3.68	3.12	3.28	2.64	3.09	2.40	2.99	0.51	1.90	4.67
STA AV	3.70	4.82	4.74	4.91	3.99	3.08	3.72	3.69	4.62	2.52	4.12	5.18

NOTES: Daily precipitation values Thiessen weighted from rain gages 7, 8 and 16. STA AV based on 15 yr (1957-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI			WATERBRED W-NC		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.47	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.47	0.81	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0
3	0.0	0.09	0.47	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
4	0.67	2.17	0.47	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.79	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.05	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.47	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.10	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.88
10	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.18	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	9.35	0.47	0.0	2.36	0.0	0.0	0.0	0.0	0.0	0.0	0.13
13	0.0	0.86	1.75	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	2.33	0.29	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19
15	0.0	0.29	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.14
16	0.0	0.29	0.13	0.0	0.0	1.66	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.29	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.29	0.13	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	2.79	0.07	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0
20	0.0	0.46	0.0	0.07	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0
21	0.0	106.84	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	5.60	21.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1.80	3.23	0.0	2.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	29.78	0.47	0.0	0.0	1.05	0.0	0.44	0.0	0.0	0.0	0.0	0.0
25	1.26	0.47	6.91	0.0	0.14	0.0	0.10	0.0	0.0	0.0	0.0	0.0
26	0.47	0.47	0.69	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0
27	0.47	0.47	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.47	0.47	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.47	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.47	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.24	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	1.4204	5.4326	0.5780	0.1975	0.1234	0.0749	0.0175	0.0162	0.0193	0.0	0.0	0.0821
INCHES	0.663	2.291	0.270	0.089	0.058	0.034	0.008	0.008	0.009	0.0	0.0	0.038
STA AV	0.610	1.019	0.852	0.707	0.275	0.112	0.188	0.215	0.321	0.113	0.447	0.680

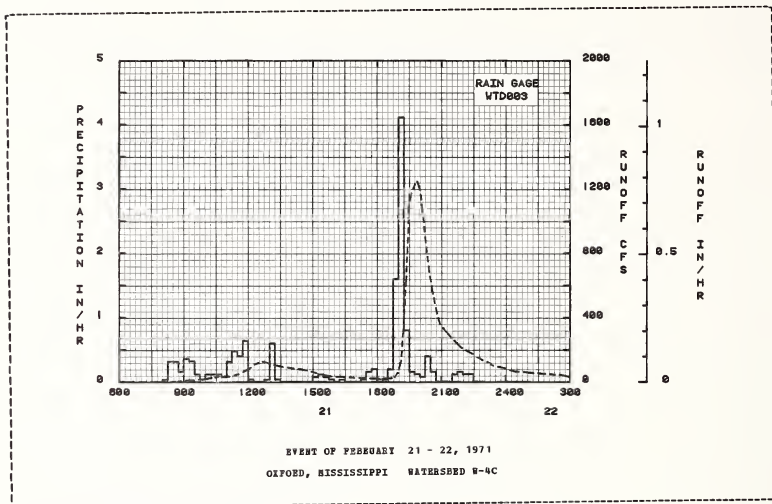
NOTES: To convert discharge in CFS to IFS/DAY, multiply by 0.01506. STA AV based on 15 yr (1957-71) record period. Quality of records: Good, estimated to be within 10% of actual.

1971 SELECTED RUNOFF EVENT				OXFORD, MISSISSIPPI				WATERSHED W-4C			
ANTECEDENT CONDITIONS		RUNOFF		RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 21 - 22, 1971											
RG WTD003			RG WTD003								
2-21	0.28	0.004	2-21	800	0.0	0.0	2-21	628	2,767	0.0	
				815	0.0400	0.01		702	1,435	0.007	
				830	0.3200	0.09		746	1,734	0.0014	
				845	0.3200	0.17		814	1,435	0.0019	
				900	0.1600	0.21		824	3,158	0.0021	
WATERSHED CONDITIONS: About 14% of area in cultivation, primarily cotton, soybeans and corn, poor to fair cover provided by residue from 1970 crop; 40% in pasture and idle land with fair to good cover; 45% in woods, good cover; 1% bare gullies.											
				915	0.3600	0.30		838	3,572	0.0026	
				930	0.3151	0.38		844	5,982	0.0029	
				945	0.1200	0.41		852	6,531	0.0034	
				1000	0.0400	0.42		914	10,911	0.0054	
				1015	0.1200	0.45		952	15,690	0.0107	
				1030	0.1200	0.48		1018	26,936	0.0165	
				1045	0.1200	0.51		1028	28,554	0.0194	
				1100	0.0800	0.53		1038	35,606	0.0228	
				1115	0.3200	0.61		1100	35,606	0.0310	
				1130	0.4800	0.73		1108	33,792	0.0339	
				1145	0.4000	0.83		1128	46,326	0.0423	
				1200	0.6400	0.99		1134	48,128	0.0453	
				1215	0.0400	1.00		1152	69,800	0.0564	
				1230	0.0	1.00		1208	89,526	0.0657	
				1245	0.0	1.00		1218	110,056	0.0801	
				1300	0.0400	1.01		1230	120,121	0.0946	
				1315	0.6000	1.16		1240	126,432	0.1075	
				1330	0.0397	1.17		1300	114,000	0.1327	
				1345	0.0	1.17		1324	98,704	0.1584	
				1445	0.0	1.17		1354	87,728	0.1887	
				1500	0.0	1.17		1430	77,000	0.2197	
				1515	0.0800	1.19		1458	62,600	0.2401	
				1530	0.1200	1.22		1528	44,536	0.2569	
				1545	0.0800	1.24		1552	35,606	0.2670	
				1600	0.0400	1.25		1630	28,554	0.2798	
				1615	0.0	1.25		1714	24,000	0.2919	
				1630	0.0400	1.26		1742	21,502	0.2986	
				1645	0.0	1.26		1806	21,502	0.3040	
				1700	0.0	1.26		1828	22,703	0.3091	
				1715	0.0	1.26		1842	25,412	0.3126	
				1730	0.0400	1.27		1850	30,248	0.3189	
				1745	0.1600	1.31		1858	57,195	0.3186	
				1800	0.2000	1.36		1908	132,850	0.3285	
				1815	0.0400	1.37		1914	329,600	0.3430	
				1830	0.0400	1.38		1922	657,866	0.3843	
				1845	0.2000	1.43		1930	1093,999	0.4577	
				1900	1.6000	1.83		1936	1173,999	0.5288	
				1915	4.1200	2.66		1946	1230,000	0.6546	
				1930	0.8000	3.06		1952	1245,998	0.7322	
				1945	0.1600	3.10		2000	1193,999	0.8345	
				2000	0.1200	3.13		2008	1053,854	0.9285	
				2015	0.0800	3.15		2016	867,000	1.0089	
				2030	0.4000	3.25		2026	684,357	1.0900	
				2045	0.1600	3.29		2036	549,000	1.1585	
				2100	0.0	3.29		2048	425,948	1.2157	
				2115	0.0	3.29		2056	357,600	1.2685	
				2130	0.0	3.29		2112	315,600	1.3049	
				2145	0.1194	3.32		2128	276,520	1.3544	
				2200	0.1600	3.36		2144	239,280	1.3976	
				2215	0.1200	3.39		2158	208,920	1.4304	
				2230	0.1200	3.42		2214	189,480	1.4637	
				2245	0.0	3.42		2228	172,995	1.4693	
				2300	0.0	3.42		2242	152,520	1.5141	
								2256	135,000	1.5351	
								2314	118,056	1.5589	
								2326	100,563	1.5726	
								2344	91,336	1.5907	
								2400	84,152	1.6054	
							2-22	24	64,400	1.6240	
								52	60,800	1.6423	
								118	55,384	1.6581	
								152	48,128	1.6765	
								234	42,759	1.6965	
								346	32,000	1.7247	
								548	28,554	1.7633	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain pages 7, 8 and 18. For 30-day antecedent P and Q, see tables on p. 62.001-2.

1971 SELECTED RUNOFF EVENT			OZFORD, MISSISSIPPI			WATERSHED W-NC				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 21 - 22, 1971 (CONTINUED)										
							2-22	1100	16.552	1.8882
								1828	8.911	1.9015
								2400	5.982	1.9274

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 16. For 30-day antecedent V and Q, see tables on p. 62.001-2.



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: 1000.00 acres 1.56 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	
P	4.59	6.96	3.99	3.36	2.08	3.60	2.68	3.60	3.62	1.81	4.79	42.56		
1971 Q	1.976	4.621	0.874	0.331	0.286	0.263	0.012	0.036	0.081	0.0	0.0	0.321	8.801	
STA AV	3.76	4.81	4.91	4.97	4.13	3.20	3.67	3.96	4.57	2.45	4.18	5.27	49.89	
Q	1.359	1.982	1.860	1.456	0.714	0.350	0.287	0.394	0.508	0.211	0.777	1.613	11.511	

ANNUAL MAXIMUM DISCHARGE (in/cu) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Date	Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Discharge	Rate	Discharge	Rate	Discharge	Rate	Discharge	Rate	Discharge	Rate	Discharge	Rate	Discharge	Rate		
1971	2-21	1.626		2-21	1.152	2-21	1.468	2-21	1.886	2-21	2.596	2-21	3.162	2-21	3.253	2-19	3.636
MAXIMUMS FOR PERIOD OF RECORD																	
	2-21	1.626		2-21	1.152	3-4	1.630	2-9	2.800	2-21	3.162	1-30	3.720	1-27	5.250		
	1971			1971		1964		1964		1966		1971		1957			

NOTES: Watershed conditions: about 26% in cultivation (cotton, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 47% in pasture and idle land, good cover April to October with fair cover remainder of year; 26% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1970-72. About 31% of drainage area above small detritus 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 National Weather Service records at Holly Springs, MS, Mississippi.

1971 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.59	0.0	0.29	0.0	0.0	0.07	0.0	0.0	0.0		
2	0.0	0.0	0.19	0.0	0.03	0.0	0.0	0.0	0.81	0.0	0.12	0.87		
3	0.20	0.12	0.06	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.48		
4	0.41	0.75	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.02	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.06	0.0	0.58	0.0	0.15		
6	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.38	0.21		
7	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.05	0.0	0.0	0.0	0.01		
8	0.0	0.11	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	0.24	0.0	0.0	0.0	0.07	0.83	0.0	0.0	0.06	1.11		
10	0.0	0.0	0.19	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.04		
11	0.02	0.0	0.0	0.0	0.18	0.0	0.0	0.18	0.0	0.0	0.0	0.0		
12	0.0	1.11	0.0	0.0	1.58	0.0	0.0	0.0	0.0	0.0	0.0	0.47		
13	0.01	0.0	0.68	0.08	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.03		
14	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41		
15	0.0	0.0	0.19	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.50		
16	0.0	0.0	0.0	0.0	0.0	1.58	0.0	0.98	0.0	0.0	0.0	0.04		
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	0.43	0.13	0.0	0.52	0.0	0.0	0.0	0.0	0.51	0.0		
19	0.0	0.76	0.0	0.0	0.0	0.0	0.02	0.0	0.99	0.0	0.04	0.10		
20	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0		
21	0.26	3.50	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	1.14	0.0	0.02	0.11	0.0	0.0	0.0	0.24	0.0	0.0	0.03	0.0		
23	0.35	0.0	0.0	0.64	0.0	0.0	0.04	0.0	0.0	0.02	0.12	0.0		
24	1.83	0.0	0.0	0.0	0.0	0.0	1.71	0.0	0.0	0.03	0.0	0.58		
25	0.0	0.03	1.18	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.49	0.0	0.0	0.0	0.0	0.0	1.26	0.63	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.41	0.21	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.38	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.55	0.15		
29	0.0	0.03	0.21	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.03		
30	0.0	0.0	0.0	0.20	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0		
TOTAL	4.59	6.96	3.99	3.36	2.08	3.60	2.68	3.60	3.56	0.62	1.81	4.79		
STA AV	3.76	4.81	4.91	4.97	4.13	3.20	3.67	3.96	4.57	2.45	4.18	5.27		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62, 001-1). Daily precipitation values Thiessen weighted from rain gages 8 and 33. STA AV based on 15 yr (1957-71) record period.

1971	MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI					WATERSHED W-5	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.22	1.82	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.22	0.59	0.15	0.0	0.0	0.0	2.79	0.0	0.0	0.0
3	0.0	0.0	0.22	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.0	0.0
4	3.15	5.55	0.22	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.68	2.97	0.11	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.82	0.80	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.48	1.01	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.48	0.35	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.48	0.22	0.0	0.15	0.0	0.0	0.45	0.0	0.0	0.0	2.75
10	0.0	0.48	0.22	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.07
11	0.0	0.43	0.22	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	22.93	0.16	0.0	5.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	2.43	10.18	0.0	2.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	4.43	0.98	0.61	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.75
15	0.36	0.36	0.53	0.0	0.15	0.36	0.0	0.0	0.0	0.0	0.0	5.86
16	0.0	0.55	0.26	0.0	0.15	9.83	0.0	0.0	0.0	0.0	0.0	1.26
17	0.0	0.43	0.19	0.0	0.15	1.18	0.0	0.0	0.0	0.0	0.0	0.72
18	0.0	0.39	0.38	0.0	0.15	0.48	0.0	0.0	0.0	0.0	0.0	0.15
19	0.0	5.40	0.38	0.0	0.15	0.21	0.0	0.0	0.13	0.0	0.0	0.15
20	0.0	0.43	0.22	1.14	0.15	0.0	0.0	0.0	0.39	0.0	0.0	0.15
21	0.0	115.90	0.22	4.15	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.15
22	12.22	20.48	0.22	0.11	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.15
23	5.06	2.22	0.22	4.26	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.15
24	58.70	1.07	0.11	0.78	0.39	0.0	0.17	0.0	0.0	0.0	0.0	0.15
25	1.95	0.54	15.46	0.27	0.20	0.0	0.34	0.0	0.0	0.0	0.0	0.15
26	0.50	6.77	1.38	0.15	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.15
27	0.0	1.17	0.05	0.15	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.15
28	0.0	0.40	0.47	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
29	0.0		1.71	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
30	0.0		0.10	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
31	0.0		0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
MEAN	2.6785	6.9381	1.888	0.4629	0.3879	0.3680	0.0168	0.0889	0.1133	0.0	0.0	0.8356
INCREAS	1.976	4.621	0.874	0.331	0.286	0.263	0.012	0.036	0.081	0.0	0.0	0.321
STA AV	1.359	1.982	1.860	1.856	0.714	0.350	0.287	0.398	0.508	0.211	0.777	1.613

NOTES: To convert discharge in CFS to IY/DAY, multiply by 0.02380. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 15 yr (1957-71) record period.

1971	SELECTED RUNOFF EVENT				OXFORD, MISSISSIPPI				WATERSHED W-5			
	ANTECEDENT CONDITIONS		RUNOFF		RAINFALL		ACC.		RUNOFF		ACC.	
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)	Date	Time of Day
EVENT OF FEBRUARY 21 - 23, 1971												
2-21	HG WTD002 0.23	0.006	2-21	HG WTD002 800	0.0	0.0	2-21	812	0.713	0.0		
				915	0.2005	0.05		840	1.003	0.0004		
				830	0.4800	0.17		904	3.404	0.0013		
				845	0.1600	0.21		918	8.287	0.0027		
				900	0.2000	0.26		930	21.495	0.0057		
WATERSHED CONDITIONS:												
	About 26% of area in cultivation, primarily cotton, soybeans and sorghams, poor to fair cover provided by residue from 1970 crop; 47% in pasture and idle land with fair to good cover; 26% in woods, good cover; 1% in bare gullies.											
				915	0.2400	0.32		946	38.600	0.0136		
				930	0.1600	0.36		954	46.400	0.0192		
				945	0.2000	0.41		1000	51.200	0.0240		
				1000	0.0800	0.43		1016	56.000	0.0382		
				1015	0.0800	0.45		1026	59.600	0.0477		
				1030	0.1200	0.48		1030	59.600	0.0517		
				1045	0.1600	0.52		1036	59.600	0.0576		
				1100	0.1200	0.55		1042	60.800	0.0636		
				1115	0.6800	0.72		1050	58.400	0.0715		
				1130	0.4000	0.82		1100	59.000	0.0812		
				1145	0.7200	1.00		1106	57.800	0.0870		
				1200	0.3193	1.08		1118	61.800	0.0988		
				1215	0.0	1.08		1128	72.868	0.1099		
				1230	0.0400	1.09		1142	105.100	0.1305		
				1245	0.0	1.09		1152	151.200	0.1517		
				1300	0.1600	1.13		1202	201.936	0.1809		
				1315	0.2400	1.19		1208	238.720	0.2208		
				1330	0.0400	1.20		1214	279.292	0.2284		
				1345	0.0400	1.21		1222	395.000	0.2670		
				1500	0.0	1.21		1226	313.397	0.2874		
				1515	0.0400	1.22		1234	312.000	0.3288		
				1530	0.2000	1.27		1238	287.023	0.3486		
				1545	0.0	1.27		1250	238.720	0.4007		
				1600	0.0400	1.28		1300	208.995	0.4377		
				1615	0.0	1.28		1318	156.795	0.4921		

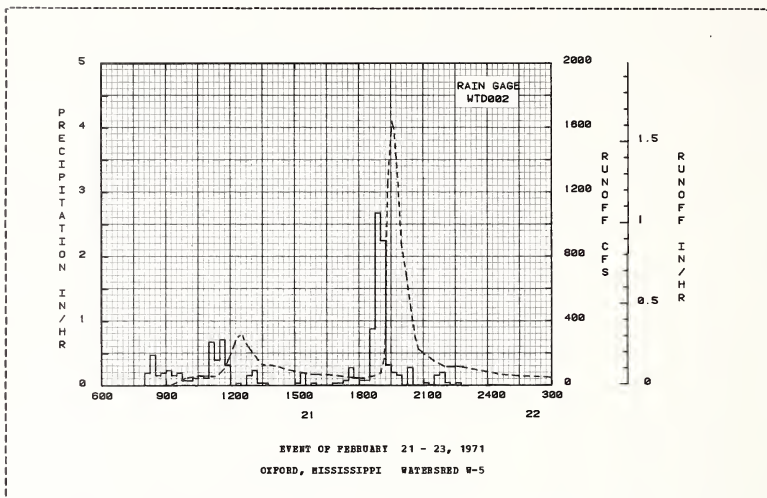
NOTES: To convert runoff in CFS to IY/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on pp. 62.002-1 and 2.

1971 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 21 - 23, 1971 (CONTINUED)										
2-21	1630	0.0	1.28	2-21	1328	131.195	0.5159			
	1645	0.0	1.28		1336	126.326	0.5329			
	1700	0.0400	1.29		1352	127.128	0.5664			
	1715	0.0400	1.30		1404	121.128	0.5910			
	1730	0.0800	1.32		1814	117.695	0.6407			
	1745	0.2800	1.39		1430	105.800	0.6403			
	1900	0.1200	1.42		1444	96.700	0.6453			
	1815	0.0800	1.44		1500	88.300	0.6882			
	1830	0.0800	1.46		1516	80.600	0.7105			
	1845	0.8800	1.68		1532	75.700	0.7312			
	1900	2.6800	2.35		1550	70.026	0.7529			
	1915	2.2410	2.91		1614	66.000	0.7803			
	1930	0.3200	2.99		1644	65.528	0.8134			
	1945	0.2000	3.04		1714	56.600	0.8437			
	2000	0.1600	3.08		1728	50.600	0.8561			
	2015	0.0	3.08		1758	45.800	0.8600			
	2030	0.2800	3.15		1814	47.600	0.8923			
	2045	0.0	3.15		1832	54.200	0.9074			
	2100	0.0	3.15		1844	60.800	0.9188			
	2115	0.0400	3.16		1900	75.700	0.9369			
	2130	0.0	3.16		1910	166.626	0.9569			
	2145	0.1600	3.20		1914	352.468	0.9741			
	2200	0.2000	3.25		1916	806.000	0.9933			
	2215	0.0400	3.26		1920	1249.996	1.0613			
	2230	0.0	3.26		1930	1574.998	1.2949			
	2245	0.0400	3.27		1932	1639.998	1.3478			
					1938	1589.996	1.5081			
					1948	1289.996	1.7459			
					1958	884.477	1.9257			
					2012	682.000	2.1070			
					2024	489.781	2.2232			
					2036	303.594	2.3019			
					2046	223.952	2.3455			
					2104	190.100	2.4071			
					2118	168.438	2.4486			
					2130	148.800	2.4801			
					2150	127.128	2.5257			
					2158	117.000	2.5418			
					2206	114.200	2.5571			
					2228	114.200	2.5986			
					2234	116.300	2.6100			
					2244	112.800	2.6289			
					2248	114.200	2.6344			
					2302	107.900	2.6621			
					2316	100.900	2.6863			
					2330	93.900	2.7088			
					2346	88.300	2.7329			
					2400	83.400	2.7528			
				2-22	28	69.336	2.7881			
					56	62.595	2.8186			
					128	57.200	2.8503			
					158	54.200	2.8779			
					242	50.000	2.9158			
					328	45.800	2.9522			
					356	42.200	2.9726			
					410	44.000	2.9826			
					436	40.400	3.0007			
					526	38.600	3.0333			
					558	36.784	3.0532			
					636	37.395	3.0765			
					718	34.328	3.1018			
					806	33.116	3.1282			
					848	32.559	3.1510			
					900	29.928	3.1572			
					914	25.500	3.1636			
					928	19.438	3.1688			
					946	16.136	3.1741			
					1012	12.189	3.1802			
					1044	9.000	3.1858			
					1112	6.631	3.1894			
					1134	5.700	3.1916			
					1202	4.800	3.1940			
					1300	4.508	3.1985			
					1436	4.508	3.2057			
					1918	3.669	3.2248			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on pp. 62.002-1 and 2.

1971 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 21 - 23, 1971 (CONTINUED)										
							2-22	2400	2.900	3.2401
							2-23	2400	1.548	3.2930

NOTES: To convert runoff in CFS to I_R/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 6 and 33. For 30-day antecedent P and Q, see tables on pp. 62.002-1 and 2.



OXFORD, MISSISSIPPI WATERSHED #10

LOCATION: Marshall Co., Miss.; 3.3 mi. SW 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 #10											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1971 P	4.54	6.21	3.95	3.24	3.19	4.31	2.36	7.20	3.13	0.60	2.13	5.20	46.06										
Q	1.124	2.314	0.225	0.009	0.007	0.237	0.0	0.862	0.009	0.0	0.0	0.0	4.867										
STA AV P	3.89	5.00	4.98	5.04	4.58	3.25	3.90	4.03	4.46	2.51	4.38	5.51	51.52										
Q	1.098	1.395	1.497	1.164	0.741	0.218	0.361	0.385	0.440	0.147	0.589	1.249	9.283										

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																					
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.	Date	Vol.	Date	Vol.	Date	Vol.	
1971	8-26	0.438	8-26	0.381	8-26	0.539	2-21	0.642	2-21	1.068	2-21	1.581	2-20	1.732	2-14	1.907					

MAXIMUM FLOW PERIOD OF RECORD											
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
7-9 1967	1.180	7-9 1967	1.060	7-9 1967	1.650	2-23 1962	2.130	2-23 1962	2.390	12-3 1964	2.660
										1-30 1957	2.980
										3-24 1965	4.170

NOTES: Watershed conditions: About 12% 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; 48% in woods, good cover; 2% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1972. About 30% of drainage area above small dewatering and retention dams. Monthly precipitation Thiessen weighted from rain gages 13, 14, 20, 24 and 26. 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. For long-time precipitation record see National Weather Service records at Holly Springs, 4N, Mississippi.

Day	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED #10											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.63	0.0	0.54	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			
2	0.0	0.0	0.20	0.0	0.02	0.0	0.0	0.0	0.24	0.0	0.04	0.0	0.0	0.54										
3	0.31	0.11	0.07	0.0	0.0	0.0	0.0	0.06	0.05	0.0	0.0	0.0	0.54											
4	0.33	0.76	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.0											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.01	0.55	0.0	0.0	0.20											
6	0.0	0.0	0.33	0.0	0.0	0.0	0.08	1.26	0.0	0.0	0.44	0.25												
7	0.0	0.11	0.0	0.0	0.22	0.75	0.0	0.0	0.0	0.0	0.0	0.01												
8	0.0	0.09	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	0.25	0.0	0.0	0.0	0.07	1.30	0.0	0.0	0.06	1.24												
10	0.0	0.0	0.24	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.02												
11	0.02	0.01	0.0	0.0	0.13	0.0	0.0	0.28	0.0	0.0	0.0	0.0												
12	0.0	1.26	0.0	0.0	1.80	0.0	0.0	0.0	0.0	0.0	0.0	0.44												
13	0.00	0.0	0.39	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.04												
14	0.56	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.45												
15	0.0	0.0	0.21	0.0	0.0	0.11	0.0	0.0	0.0	0.01	0.0	0.52												
16	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.02	0.78	0.0	0.0	0.04												
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	0.53	0.17	0.0	1.34	0.0	0.0	0.0	0.0	0.76	0.0												
19	0.0	0.82	0.0	0.0	0.0	0.0	0.02	0.0	1.13	0.0	0.06	0.11												
20	0.0	0.0	0.0	1.11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0												
21	0.29	2.36	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	1.06	0.0	0.06	0.16	0.0	0.0	0.0	0.21	0.0	0.0	0.03	0.0												
23	0.43	0.0	0.0	0.44	0.0	0.0	0.06	0.0	0.0	0.03	0.12	0.0												
24	1.51	0.0	0.0	0.0	0.41	0.0	1.27	0.0	0.0	0.0	0.0	0.0												
25	0.0	0.03	1.21	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.66	0.0	0.0	0.0	0.0	0.01	3.23	0.63	0.0	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.29	0.18	0.0	0.0	0.01	0.0	0.0	0.0												
28	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.61	0.15												
29	0.0	0.03	0.21	0.0	0.09	0.07	0.0	0.0	0.0	0.0	0.0	0.01												
30	0.0	0.0	0.20	0.0	0.0	0.18	0.27	0.0	0.0	0.0	0.0	0.64												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0												
TOTAL	4.54	6.21	3.95	3.24	3.19	4.31	2.36	7.20	3.13	0.60	2.13	5.20												
STA AV	3.89	5.00	4.98	5.04	4.58	3.25	3.90	4.03	4.46	2.51	4.38	5.51												

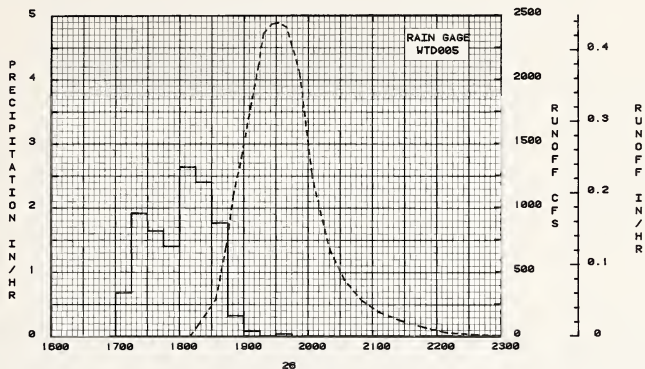
NOTES: For daily air temperatures in the vicinity, see table for Watershed #4C (p. 62-001-1). Daily precipitation values Thiessen weighted from rain gages 13, 14, 20, 24 and 26. STA AV based on 15 yr (1957-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI					WATERSHED #10												
Day	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	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0
2	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0
3	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0
4	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0
5	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.03	0.07	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.07	0.0	0.0	0.0
6	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	36.80	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
7	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	7.91	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
8	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.03	0.07	0.0	0.03	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
9	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	14.91	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
10	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
11	0.07	0.14	0.19	0.07	0.08	0.07	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
12	0.07	86.50	0.19	0.07	17.23	0.07	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
13	0.07	0.34	0.19	0.07	0.37	0.07	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
14	0.07	0.19	0.19	0.07	0.07	0.07	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
15	0.07	0.19	0.19	0.07	0.07	0.08	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
16	0.07	0.19	0.19	0.07	0.07	11.65	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
17	0.07	0.19	0.19	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
18	0.07	0.17	0.19	0.07	0.07	41.99	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
19	0.07	42.13	0.19	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
20	0.07	0.37	0.19	0.07	0.07	0.05	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
21	0.06	296.73	0.19	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
22	17.67	106.75	0.19	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
23	0.18	0.58	0.19	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
24	237.38	0.37	0.19	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
25	3.34	0.26	47.39	0.07	0.07	0.0	0.0	0.0	0.16	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
26	0.19	0.22	0.07	0.07	0.07	0.0	0.0	139.11	0.07	0.0	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
27	0.19	0.16	0.07	0.07	0.07	0.0	0.0	0.0	0.04	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
28	0.19	0.18	0.07	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
29	0.19	0.07	0.07	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
30	0.19	0.07	0.07	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
31	0.19	0.07	0.07	0.07	0.07	0.0	0.0	0.0	0.07	0.07	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.0	0.0
MEAN	8.424	19.199	1.689	0.069	0.652	1.832	0.0	6.861	0.069	0.0	0.0	0.0	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 INCHES	1.128	2.318	0.225	0.009	0.087	0.237	0.0	0.862	0.009	0.0	0.0	0.0	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	1.098	1.395	1.497	1.164	0.741	0.218	0.361	0.385	0.440	0.147	0.589	1.249												

NOTES: To convert discharge in CFS to M^3/DAY , multiply by 0.003086. Quality of records: Root estimated to be within 20% of actual. STA AV based on 14 yr Jan. 1957 thru Sept. 1965 and Oct. 1966 thru Dec. 1971 record period.

1971		SELECTED RIBOFF EVENT					OXFORD, MISSISSIPPI					WATERSHED #10				
ANTECEDENT CONDITIONS		RAINFALL					RIBOFF									
Date No-Day	Rainfall (inches)	Ensoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF AUGUST 26 - 27, 1971																
RG WTD005		RG WTD005					8-26		8-26					8-26		
8-26	0.01	0.001	8-26	1700	0.0	0.0	8-26	1810	0.248	0.0	1820	119.000	0.0018			
				1715	0.6800	0.17		1820	119.000	0.0018						
				1730	1.9208	0.65		1834	288.398	0.0104						
				1745	1.6409	1.06		1844	724.998	0.0253						
				1800	1.4000	1.41		1850	1091.999	0.0418						
WATERSHED CONDITIONS:		1815 2.6400 2.07					1858 1398.999 0.0715					1906 1780.999 0.1094				
about 12% of area in cultivation, primarily cotton, corn, and soybeans; 35% in pasture and idle land, fair cover; 48% in woods, good cover; 2% in bare gullies.		1845 1.7602 3.11					1914 2137.758 0.1561					1918 2359.999 0.1829				
		1915 0.0800 3.21					1926 2434.998 0.2400									
		1930 0.0 3.21					1932 2442.500 0.2844									
		1945 0.0400 3.22					1940 2404.998 0.3421									
							1952 2046.999 0.5779									
							2004 1230.000 0.4813									
							2020 674.999 0.5267									
							2034 433.997 0.5500									
							2050 275.000 0.5669									
							2106 185.000 0.5779									
							2126 119.000 0.5870									
							2150 62.060 0.5935									
							2210 24.472 0.5961									
							2234 4.827 0.5973									
							2304 2.758 0.5979									
							2332 0.744 0.5980									
							2358 0.317 0.5980									
							2400 0.190 0.5980									
							102 0.141 0.5980									
							202 0.083 0.5980									
							332 0.058 0.5980									
							502 0.0 0.5980									

NOTES: To convert runoff in CFS to M^3/HR , multiply by 0.0001793. Thiessen weighted storm rainfall, rain gauges 13, 18, 20, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62.003-1 and 2.



EVENT OF AUGUST 26 - 27, 1971
OXFORD, MISSISSIPPI WATERSHED W-10

OXFORD, MISSISSIPPI WATERSHED W-12

LOCATION: Marshall Co., Miss.; 5.6 mi. SW of Holly Springs, on county road; Pigeon Hoost Creek Watershed, Tazoo Silver 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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P	4.38	6.43	3.68	3.31	3.37	3.67	2.62	3.22	3.39	0.59	1.84	4.61	41.12														
	Q	0.858	2.217	0.311	0.161	0.155	0.262	0.017	0.020	0.019	0.013	0.022	0.082	4.138														
STA AV	P	3.72	4.80	4.77	4.89	4.21	3.22	3.83	3.81	4.39	2.41	4.16	5.20	49.41														
	Q	0.727	1.133	1.119	0.839	0.506	0.215	0.219	0.238	0.276	0.105	0.410	0.828	6.612														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge				Maximum Volume for Selected Time Interval											
	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days									
1971	2-21	0.276	2-21	0.268	2-21	0.511	2-21	1.021	2-21	1.312	2-21	1.602	2-21	1.699	2-19	1.886
	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		1962		1962		1965	

NOTES: Watershed conditions: About 17% in cultivation (cotton, corn, soybeans, ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 26% 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 1970-72. About 16% of drainage area above small settling 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. 62,4-6. Monthly precipitation Thiessen weighted for 16 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 48, Mississippi.

1971	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-12												
Day	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	0.0	0.58	0.0	0.26	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	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.17	0.0	0.03	0.0	0.0	0.01	0.44	0.0	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	0.47
3	0.23	0.11	0.06	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.36	0.72	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.03	0.0	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
5	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.08	0.00	0.50	0.0	0.15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.00	0.50	0.0	0.15
6	0.0	0.0	0.33	0.0	0.0	0.12	0.07	0.38	0.02	0.0	0.36	0.22		0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.07	0.38	0.02	0.0	0.36
7	0.0	0.10	0.0	0.0	0.19	0.42	0.0	0.01	0.12	0.0	0.0	0.01		0.0	0.10	0.0	0.0	0.0	0.0	0.19	0.42	0.0	0.01	0.12	0.0
8	0.0	0.10	0.0	0.0	0.0	0.13	0.0	0.00	0.01	0.0	0.0	0.0		0.0	0.10	0.0	0.0	0.0	0.0	0.13	0.0	0.00	0.01	0.0	0.0
9	0.0	0.0	0.20	0.0	0.0	0.0	0.07	0.67	0.0	0.0	0.05	1.18		0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.67	0.0	0.0	0.05	1.18
10	0.0	0.0	0.20	0.0	0.22	0.0	0.0	0.11	0.0	0.0	0.0	0.03		0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.03
11	0.02	0.00	0.0	0.0	0.16	0.0	0.0	0.15	0.00	0.0	0.0	0.0		0.02	0.00	0.0	0.0	0.0	0.16	0.0	0.0	0.15	0.00	0.0	0.0
12	0.0	1.08	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.41		0.0	1.08	0.0	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.41
13	0.01	0.0	0.51	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.03		0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.03
14	0.64	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.37		0.64	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.37
15	0.0	0.0	0.18	0.0	0.0	0.05	0.0	0.0	0.0	0.00	0.0	0.53		0.0	0.0	0.18	0.0	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.53
16	0.0	0.0	0.0	0.0	0.0	1.69	0.0	0.0	0.78	0.0	0.0	0.04		0.0	0.0	0.0	0.0	0.0	1.69	0.0	0.0	0.0	0.0	0.0	0.04
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	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	0.45	0.11	0.0	0.65	0.0	0.01	0.0	0.0	0.63	0.0		0.0	0.0	0.45	0.11	0.0	0.65	0.0	0.01	0.0	0.0	0.63	0.0
19	0.0	0.77	0.0	0.0	0.0	0.0	0.04	0.00	1.11	0.0	0.05	0.11		0.0	0.77	0.0	0.0	0.0	0.0	0.04	0.00	1.11	0.0	0.05	0.11
20	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0		0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0
21	0.29	3.03	0.0	0.31	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0		0.29	3.03	0.0	0.31	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0
22	1.13	0.0	0.01	0.08	0.0	0.0	0.0	0.27	0.0	0.0	0.02	0.0		1.13	0.0	0.01	0.08	0.0	0.0	0.0	0.27	0.0	0.0	0.02	0.0
23	0.42	0.0	0.0	0.71	0.0	0.0	0.20	0.0	0.0	0.01	0.13	0.0		0.42	0.0	0.0	0.71	0.0	0.0	0.0	0.20	0.0	0.01	0.13	0.0
24	1.19	0.0	0.0	0.0	0.82	0.0	1.54	0.0	0.0	0.0	0.04	0.0		1.19	0.0	0.0	0.0	0.0	0.82	0.0	1.54	0.0	0.0	0.04	0.0
25	0.0	0.02	1.18	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0		0.0	0.02	1.18	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0
26	0.0	0.50	0.0	0.0	0.0	0.0	0.03	1.05	0.76	0.0	0.0	0.0		0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.03	1.05	0.76	0.0	0.0
27	0.10	0.0	0.0	0.0	0.27	0.18	0.0	0.0	0.0	0.0	0.0	0.0		0.10	0.0	0.0	0.0	0.0	0.27	0.18	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.40	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.56	0.08		0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.56	0.08
29	0.0	0.0	0.04	0.22	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.02		0.0	0.0	0.04	0.22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02
30	0.0	0.0	0.19	0.0	0.0	0.0	0.17	0.09	0.0	0.0	0.0	0.50		0.0	0.0	0.19	0.0	0.0	0.0	0.17	0.09	0.0	0.0	0.50	0.0
31	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	0.27	0.0	0.0	0.0	0.0	0.0
TOTAL	4.38	6.43	3.68	3.31	3.37	3.67	2.62	3.22	3.39	0.59	1.84	4.61		3.72	4.80	4.77	4.89	4.21	3.22	3.83	3.81	4.39	2.41	4.16	5.20
STA AV	3.72	4.80	4.77	4.89	4.21	3.22	3.83	3.81	4.39	2.41	4.16	5.20													

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-8C (p. 62,001-1). Daily precipitation values Thiessen weighted from rain gages 4 thru 9, 13, 15, 16 thru 20, 25, 29 thru 31 and 33. STA AV based on 15 yr (1957-71) record period.

1971	SEAN DAILY DISCHARGE (cfs)						OXFORD, MISSISSIPPI						WATERSHED #12	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.9	0.8	7.8	12.7	2.2	2.3	0.4	0.1	0.2	0.3	0.6	0.4		
2	0.9	0.5	8.0	11.8	2.2	1.9	0.4	0.1	0.5	0.3	0.6	0.3		
3	1.1	0.4	8.2	5.6	2.2	1.6	0.4	0.2	0.3	0.3	0.6	1.3		
4	4.1	23.3	7.4	4.2	2.2	1.6	0.4	0.2	0.4	0.2	0.6	0.5		
5	1.5	11.2	6.0	4.2	2.2	1.7	0.4	0.1	0.2	0.5	0.6	0.6		
6	0.9	1.5	12.5	4.1	2.0	1.7	0.4	0.3	0.2	0.3	0.6	0.8		
7	0.9	1.0	10.6	3.8	2.2	2.3	0.4	0.2	0.3	0.2	0.6	0.9		
8	0.9	0.8	6.9	3.2	1.9	1.9	0.4	0.1	0.3	0.3	0.7	0.7		
9	0.9	0.7	5.9	2.8	1.5	2.0	0.3	2.3	0.3	0.3	0.7	10.8		
10	0.8	0.8	7.1	2.8	2.0	1.3	0.2	0.4	0.3	0.3	0.7	3.4		
11	0.6	1.0	5.9	2.9	2.0	1.3	0.2	0.5	0.3	0.3	0.7	1.5		
12	0.4	236.6	4.4	2.6	4.1	1.3	0.2	0.6	0.3	0.2	0.7	3.9		
13	0.5	12.0	31.5	2.1	20.5	1.1	0.2	0.4	0.3	0.2	0.7	2.0		
14	3.0	1.9	5.9	1.9	2.6	1.1	0.2	0.2	0.3	0.2	0.8	2.7		
15	1.5	1.4	5.7	1.9	1.5	1.3	0.2	0.2	0.3	0.2	0.8	25.5		
16	0.8	0.8	3.9	1.9	1.3	178.5	0.1	0.2	0.7	0.3	0.8	2.1		
17	0.7	0.6	3.2	1.9	1.2	2.6	0.1	0.2	0.5	0.3	0.8	1.2		
18	0.6	0.6	3.4	2.0	1.2	31.2	0.1	0.2	0.3	0.3	1.2	0.9		
19	0.4	89.4	6.2	2.0	1.3	4.3	0.2	0.2	1.2	0.3	1.2	1.1		
20	0.2	13.7	4.5	2.5	1.4	1.7	0.2	0.2	2.8	0.3	0.7	1.2		
21	0.6	1233.1	4.7	25.9	1.4	1.1	0.2	0.2	0.3	0.4	0.7	1.1		
22	106.2	381.5	4.7	3.0	1.3	0.9	0.1	0.4	0.2	0.6	0.7	1.0		
23	36.4	30.7	4.7	32.4	1.0	0.8	0.3	0.1	0.2	0.6	0.7	0.9		
24	620.0	10.6	4.6	4.0	24.9	0.7	7.5	0.1	0.1	0.6	0.7	0.9		
25	26.5	8.3	80.4	2.4	8.2	0.7	1.8	0.1	0.2	0.6	0.7	0.8		
26	3.8	42.1	12.5	1.7	2.3	0.7	0.3	8.7	5.5	0.7	0.7	0.7		
27	2.4	10.3	5.5	1.9	3.0	0.9	0.2	1.5	0.9	0.7	0.7	0.8		
28	1.7	8.6	5.2	1.9	2.5	0.8	0.2	0.4	0.6	0.6	0.8	0.7		
29	1.1		11.9	2.1	2.1	0.6	0.2	0.4	0.2	0.6	0.7	0.9		
30	0.8		4.8	2.5	2.2	0.5	0.2	0.4	0.3	0.6	0.7	0.8		
31	0.5		4.3		2.2		0.1	0.3		0.6		0.9		
SEAN	26.499	75.856	9.619	5.155	4.802	8.359	0.537	0.627	0.606	0.391	0.703	2.535		
INCHES	0.858	2.217	0.311	0.161	0.155	0.262	0.017	0.020	0.019	0.013	0.022	0.002		
STA 14	0.727	1.133	1.119	0.839	0.586	0.215	0.219	0.236	0.105	0.110	0.124	0.024		

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0010839. Quality of records: Good, estimated to be within 10% of actual. STA 14 based on 15 yr (1957-71) record period.

1971	ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
	Date	Rainfall No-Day	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF FEBRUARY 21 - 23, 1971												
2-21	EG WD016	0.0	0.001		2-21	145	0.0	0.0	2-21	456	5.347	0.0
						200	0.0400	0.01		638	6.000	0.0004
						215	0.0	0.01		812	6.691	0.0008
						230	0.0002	0.01		830	6.615	0.0009
						400	0.0	0.01		846	12.160	0.0010
WATERSHED CONDITIONS:												
						415	0.0	0.01		900	12.750	0.0011
						430	0.2000	0.06		914	16.710	0.0012
						445	0.2400	0.12		922	17.440	0.0013
						500	0.2400	0.18		934	27.008	0.0015
						515	0.0800	0.20		948	35.046	0.0018
						530	0.0	0.20		1004	57.505	0.0023
						545	0.0400	0.21		1014	73.350	0.0028
						600	0.0	0.21		1030	121.813	0.0039
						730	0.0	0.21		1046	172.290	0.0056
						745	0.0005	0.21		1100	242.326	0.0077
						800	0.0009	0.21		1114	295.736	0.0104
						815	0.0400	0.22		1128	402.000	0.0139
						830	0.3600	0.31		1140	500.000	0.0178
						845	0.1600	0.35		1150	635.000	0.0219
						900	0.1200	0.38		1208	830.000	0.0315
						915	0.2000	0.43		1220	890.000	0.0390
						930	0.3200	0.51		1234	1016.000	0.0487
						945	0.4000	0.61		1240	1137.999	0.0534
						1000	0.1200	0.64		1250	1347.999	0.0624
						1015	0.0800	0.66		1306	1631.998	0.0797
						1030	0.0800	0.68		1318	1869.998	0.0949
						1045	0.2400	0.74		1330	2097.998	0.1122
						1100	0.0800	0.76		1338	2177.997	0.1246
						1115	0.2800	0.83		1340	2201.997	0.1405
						1130	0.6800	1.00		1400	2161.997	0.1595

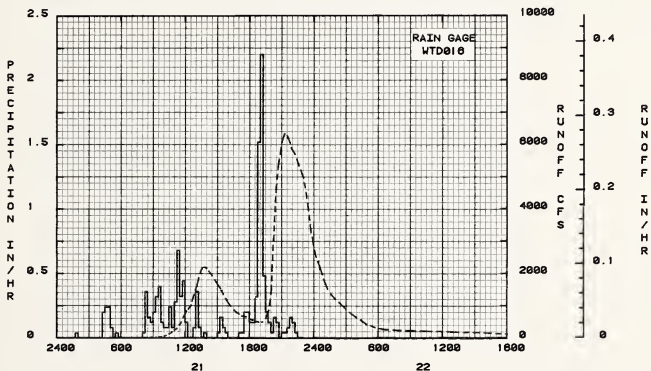
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000435. Thiessen weighted storm rainfall, rain gages 4 thru 9, 13, 15, 18 thru 20, 25, 29 thru 31 and 33. For 30-day antecedent P and Q, see tables on pp. 62.004-1 and 2.

1971 SELECTED RAINOFF EVENT			OXFORD, MISSISSIPPI			WATERSEED # 1-2				
ANTECEDENT CONDITIONS			RAINFALL			RNOFF				
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 21 - 23, 1971 (CONTINUED)										
2-21	1145	0.3200			1.08	1.08	2-21	1414	2065.682	0.1809
	1200	0.4800			1.19	1.57		1432	1932.956	0.2070
	1215	0.1200			1.22	1.79		1510	1736.998	0.2316
	1230	0.0			1.22	1.99		1518	1526.999	0.2644
	1245	0.0			1.22	2.21		1522	1470.261	0.2687
	1300	0.0800			1.24	2.45		1534	1347.999	0.2810
	1315	0.3600			1.33	2.81		1550	1180.000	0.2957
	1330	0.0800			1.35	3.16		1616	976.000	0.3160
	1345	0.0			1.35	3.51		1644	802.000	0.3340
	1400	0.0400			1.36	3.87		1702	741.360	0.3441
	1415	0.0007			1.36	4.23		1716	680.000	0.3513
	1430	0.0007			1.36	4.59		1742	645.000	0.3638
	1445	0.0007			1.36	4.95		1810	560.000	0.3760
	1500	0.0			1.36	5.31		1820	550.000	0.3800
	1515	0.0400			1.37	5.67		1838	504.687	0.3869
	1530	0.1600			1.41	6.08		1852	484.797	0.3919
	1545	0.0800			1.43	6.51		1908	494.632	0.3976
	1600	0.0400			1.44	6.95		1914	499.638	0.3998
	1615	0.0			1.44	7.39		1932	615.000	0.4071
	1630	0.0			1.44	7.83		1948	856.000	0.4156
	1645	0.0			1.44	8.27		1954	1060.000	0.4198
	1700	0.0			1.44	8.71		2002	1844.372	0.4272
	1715	0.0400			1.45	9.16		2008	2273.998	0.4354
	1730	0.0400			1.46	9.61		2030	4629.984	0.4905
	1745	0.2000			1.51	10.12		2042	5331.977	0.5338
	1800	0.2000			1.56	10.68		2048	5547.969	0.5574
	1815	0.1200			1.59	11.27		2054	5763.973	0.5820
	1830	0.1200			1.62	11.89		2104	6114.984	0.6251
	1845	0.3200			1.70	12.59		2118	6339.984	0.6883
	1900	1.5200			2.08	14.67		2132	6276.973	0.7523
	1915	2.2000			2.63	17.30		2148	6042.973	0.8237
	1930	0.4800			2.75	20.05		2158	5862.977	0.8669
	1945	0.2000			2.80	22.85		2216	5691.977	0.9223
	2000	0.1200			2.83	25.68		2238	5340.977	1.0303
	2015	0.0400			2.84	28.52		2304	4953.977	1.1273
	2030	0.1600			2.88	31.40		2318	4476.977	1.1751
	2045	0.1200			2.91	34.31		2332	3945.993	1.2179
	2100	0.0			2.91	37.24		2346	3257.997	1.2545
	2115	0.0400			2.92	40.18		2354	3081.997	1.2729
	2130	0.0400			2.93	43.13		2400	2857.997	1.2858
	2145	0.0800			2.95	46.08	2-22	14	2505.997	1.3130
	2200	0.1600			2.99	49.07		32	2241.997	1.3440
	2215	0.1200			3.02	52.09		48	1960.682	1.3684
	2230	0.0400			3.03	55.12		102	1729.999	1.3871
	2245	0.0			3.03	58.17		118	1505.837	1.4059
	2300	0.0			3.03	61.22		138	1335.999	1.4245
								200	1197.999	1.4447
								228	1060.000	1.4696
								300	892.000	1.4922
								330	735.993	1.5099
								358	625.000	1.5237
								430	509.760	1.5369
								456	412.187	1.5456
								516	371.982	1.5513
								542	319.000	1.5578
								630	256.384	1.5678
								724	234.000	1.5774
								808	225.826	1.5847
								842	217.752	1.5902
								928	209.695	1.5973
								1014	204.291	1.6042
								1100	196.104	1.6109
								1200	187.953	1.6193
								1246	180.000	1.6254
								1330	169.760	1.6310
								1500	159.840	1.6418
								1632	132.000	1.6515
								1800	117.905	1.6595
								2100	95.808	1.6734
								2400	68.432	1.6841
								356	46.269	1.6939
								710	38.184	1.6998
								1342	24.000	1.7086
								1802	16.710	1.7124
								2104	13.990	1.7144

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 pp. 62.008-1 and 2.

1971 SELECTED EROFF EVENT			OXFORD, MISSISSIPPI WATERSHED W-12							
ANTECEDENT CONDITIONS			RAINFALL			EROFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF FEBRUARY 21 - 23, 1971 (CONTINUED)										
							2400	11.590	1.7160	

NOTES: To convert runoff in CFS to IN/EE, multiply by 0.0000435. Thiessen weighted storm rainfall, rain gages # thru 9, 13, 15, 16 thru 20, 25, 29 thru 31 and 33. For 30-day antecedent P and Q, see tables on pp. 62.004-1 and 2.



EVENT OF FEBRUARY 21 - 23, 1971
OXFORD, MISSISSIPPI WATERSHED W-12

OXFORD, MISSISSIPPI WATERSHED W-17

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Holy Springs on County road; Pigeon Boost Creek Watershed, Yazoo River Basin.

AREA: 32100.00 acres 50.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)											OXFORD, MISSISSIPPI WATERSHED W-17			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P	4.37	6.21	3.64	3.28	3.50	3.74	2.53	3.58	3.46	0.52	1.92	4.67	41.43
	Q	1.176	2.572	0.595	0.405	0.442	0.554	0.274	0.388	0.466	0.292	0.254	0.334	7.753
STA AV	P	3.76	4.84	4.79	4.96	4.24	3.25	3.90	3.96	4.26	2.39	4.15	5.27	49.76
	Q	1.050	1.873	1.480	1.182	0.807	0.414	0.447	0.514	0.882	0.296	0.663	1.129	9.939

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge		Maximum Volume for Selected Time Interval													
	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.						
1971	2-21	0.184	2-21	0.183	2-21	0.363	2-21	0.878	2-21	1.256	2-21	1.617	2-21	1.705	2-19	1.972

MAXIMUMS FOR PERIOD OF RECORD																
Date	2-23 <th>0.210 <th>2-23 <th>0.210 <th>2-23 <th>0.410 <th>2-23 <th>1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th></th></th></th></th></th></th></th>	0.210 <th>2-23 <th>0.210 <th>2-23 <th>0.410 <th>2-23 <th>1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th></th></th></th></th></th></th>	2-23 <th>0.210 <th>2-23 <th>0.410 <th>2-23 <th>1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th></th></th></th></th></th>	0.210 <th>2-23 <th>0.410 <th>2-23 <th>1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th></th></th></th></th>	2-23 <th>0.410 <th>2-23 <th>1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th></th></th></th>	0.410 <th>2-23 <th>1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th></th></th>	2-23 <th>1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th></th>	1.120 <th>2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th></th>	2-23 <th>1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th></th>	1.500 <th>12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th></th>	12-3 <th>2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th></th>	2.010 <th>3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th></th>	3-24 <th>2.390 <th>3-24 <th>4.680</th> </th></th>	2.390 <th>3-24 <th>4.680</th> </th>	3-24 <th>4.680</th>	4.680
Year	1962		1962		1962		1962		1962		1964		1965		1965	

NOTES: Watershed conditions: About 18% in cultivation (cotton, corn, soybeans and ryegrass), 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; 8% in woods, good cover; 1% in bare gullies; 5% urban. Percentages of total area in various land use categories are based on the latest surveys completed 1970-71. About 19% 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. 62.5-5. Monthly precipitation Thiessen weighted from 21 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 48, Mississippi.

1971 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-17		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.59	0.0	0.25	0.0	0.0	0.10	0.0	0.0	0.0			
2	0.0	0.0	0.18	0.0	0.03	0.0	0.0	0.01	0.44	0.0	0.03	0.45			
3	0.25	0.11	0.06	0.0	0.0	0.0	0.0	0.04	0.00	0.0	0.0	0.49			
4	0.35	0.74	0.0	0.0	0.0	0.0	0.0	0.05	0.00	0.02	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.08	0.00	0.43	0.0	0.16			
6	0.0	0.0	0.33	0.0	0.0	0.09	0.07	0.45	0.01	0.0	0.37	0.23			
7	0.0	0.10	0.0	0.0	0.19	0.38	0.0	0.00	0.15	0.0	0.0	0.01			
8	0.0	0.09	0.0	0.0	0.00	0.09	0.0	0.00	0.02	0.0	0.0	0.0			
9	0.0	0.0	0.19	0.0	0.0	0.0	0.06	0.57	0.0	0.0	0.05	1.20			
10	0.0	0.0	0.20	0.0	0.26	0.0	0.0	0.09	0.0	0.0	0.0	0.03			
11	0.02	0.00	0.0	0.0	0.15	0.0	0.0	0.19	0.00	0.0	0.0	0.0			
12	0.0	1.08	0.0	0.0	1.68	0.0	0.0	0.0	0.0	0.0	0.0	0.41			
13	0.00	0.0	0.45	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.03			
14	0.58	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.35			
15	0.0	0.0	0.18	0.0	0.0	0.04	0.0	0.0	0.0	0.00	0.0	0.58			
16	0.0	0.0	0.0	0.0	0.0	1.86	0.0	0.01	0.71	0.0	0.0	0.04			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0			
18	0.0	0.0	0.46	0.11	0.0	0.71	0.0	0.00	0.0	0.0	0.72	0.0			
19	0.0	0.78	0.0	0.0	0.0	0.0	0.04	0.00	1.12	0.0	0.05	0.11			
20	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0			
21	0.30	2.80	0.0	0.30	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0			
22	1.18	0.0	0.01	0.11	0.0	0.0	0.30	0.0	0.0	0.02	0.0	0.0			
23	4.83	0.0	0.68	0.0	0.0	0.26	0.0	0.0	0.0	0.02	0.13	0.0			
24	1.18	0.0	0.0	0.0	0.89	0.0	1.45	0.0	0.0	0.05	0.0	0.0			
25	0.0	0.01	1.14	0.0	0.0	0.0	0.32	0.0	0.00	0.0	0.0	0.0			
26	0.0	0.50	0.0	0.0	0.0	0.0	0.03	1.31	0.84	0.0	0.0	0.0			
27	0.07	0.0	0.0	0.0	0.25	0.15	0.0	0.0	0.01	0.0	0.0	0.0			
28	0.0	0.0	0.41	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.56	0.07			
29	0.0	0.0	0.05	0.21	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.02			
30	0.0	0.0	0.0	0.18	0.0	0.0	0.17	0.11	0.0	0.0	0.0	0.49			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0			
TOTAL	4.37	6.21	3.64	3.28	3.50	3.74	2.53	3.58	3.46	0.52	1.92	4.67			
STA AV	3.76	4.84	4.79	4.96	4.24	3.25	3.90	3.96	4.26	2.39	4.15	5.27			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p.62.001-1). 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 based on 15 yr (1957-71) record period.

1971 BEAN DAILY DISCHARGE (cfs)												OIPOND, MISSISSIPPI			WATERSHED #-17		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	13.8	18.8	19.2	31.0	12.7	12.8	10.7	12.9	18.1	60.2	11.1	11.3					
2	13.4	14.8	21.0	33.8	12.7	12.2	10.7	12.9	18.3	11.1	11.1	11.8					
3	13.6	14.8	20.7	16.8	12.5	12.0	10.7	12.9	18.4	11.1	11.1	17.4					
4	27.7	61.7	18.6	18.3	11.8	12.0	10.7	12.9	13.1	11.1	11.1	12.7					
5	15.3	58.0	18.2	13.8	11.6	12.0	10.7	12.9	12.7	11.1	11.1	12.0					
6	14.3	19.1	33.7	13.8	11.3	10.5	10.7	13.3	12.4	11.1	11.1	11.6					
7	14.3	15.9	22.5	13.8	11.3	10.1	10.5	18.1	12.4	11.1	11.1	11.3					
8	14.3	15.3	18.3	13.8	11.8	9.1	10.3	12.9	12.4	11.1	11.1	11.1					
9	14.1	15.1	17.6	13.8	12.0	10.0	10.3	25.9	12.2	11.1	11.1	94.5					
10	13.8	15.3	25.2	13.8	13.4	8.9	10.7	14.5	11.8	11.1	11.1	15.1					
11	13.6	16.1	18.6	13.8	13.6	8.7	11.1	13.6	11.3	11.1	11.1	11.6					
12	13.4	349.9	17.0	13.8	8.5	8.7	11.1	13.9	10.5-17	11.1	11.1	14.6					
13	13.6	58.5	58.6	13.8	73.5	8.9	11.3	12.9	10.7	11.1	11.1	10.9					
14	20.3	22.2	19.5	13.8	16.8	8.9	11.6	12.9	10.7	11.1	11.1	12.0					
15	16.2	18.0	18.1	13.4	14.1	8.9	11.6	12.9	10.3	11.1	11.1	62.1					
16	13.6	15.9	15.1	12.9	12.9	362.3	11.6	12.9	10.5	11.1	11.1	11.8					
17	13.4	15.3	14.1	12.9	12.7	27.6	11.6	12.9	10.7	11.1	11.1	11.8					
18	13.1	15.3	15.7	12.9	13.1	55.8	11.6	12.9	10.3	11.1	11.1	11.6					
19	12.7	138.8	22.0	12.9	13.4	26.0	11.6	12.9	13.7	11.1	11.1	13.5					
20	12.7	42.8	15.6	14.4	13.4	12.5	11.6	12.9	18.3	11.1	11.1	12.0					
21	14.4	1557.9	14.6	62.3	13.4	10.7	11.6	12.9	11.8	11.1	11.1	11.6					
22	178.1	724.7	14.3	10.0	13.4	9.9	11.6	12.9	12.0	11.1	11.1	11.6					
23	78.4	56.8	14.3	66.2	13.6	10.1	13.0	12.9	12.0	11.1	11.1	11.6					
24	861.1	28.9	18.1	18.2	51.2	10.2	11.6	12.9	11.1	11.1	11.1	11.6					
25	53.9	23.6	167.3	13.9	38.2	9.9	14.4	12.2	11.8	11.1	11.1	11.6					
26	22.5	93.7	34.0	12.7	13.4	10.5	12.0	111.4	27.6	11.1	11.1	11.6					
27	16.7	27.1	20.0	12.4	12.9	12.5	12.0	22.4	13.1	11.1	11.1	11.3					
28	15.9	20.7	20.0	12.2	12.9	13.4	12.0	12.7	60.6	11.1	11.1	12.5					
29	15.9	41.6	12.2	12.7	12.0	12.0	12.2	110.3	11.1	11.1	11.1	12.7					
30	15.9	17.8	12.7	12.2	10.9	12.5	12.5	110.1	11.1	11.1	11.1	11.3					
31	15.3	15.3	15.3	12.2	12.2	12.2	12.9	12.4	11.1	11.1	11.1	13.1					
MEAN	51.15	123.90	25.89	18.22	19.23	24.90	11.94	16.88	20.95	12.70	11.83	14.58					
INCHES	1.176	2.572	0.595	0.405	0.442	0.554	0.278	0.388	0.466	0.292	0.254	0.338					
STA 1V	1.054	1.473	1.480	1.182	0.807	0.414	0.447	0.514	0.482	0.296	0.263	1.129					

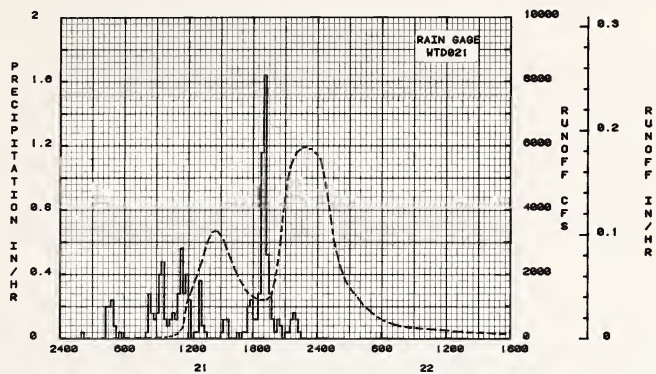
NOTES: To convert discharge in CFS to I#/DAY, multiply by 0.0007415. Quality of records: Good, estimated to be within 10% of actual. STA 1V based on 15 yr (1957-71) record period.

1971 SELECTED RUMOFF EVENT												OIPOND, MISSISSIPPI			WATERSHED #-17		
ANTECEDENT CONDITIONS						RAINFALL						RUMOFF					
Date	Rainfall	Rumoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.							
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(1#/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)							
EVENT OF FEBRUARY 21 - 24, 1971																	
RG WTD021																	
2-21	0.0	0.004	2-21	145	0.0	0.0	2-21	502	24.814	0.0							
				200	0.0	0.0		602	28.313	0.0008							
				215	0.0400	0.01		728	29.232	0.0021							
				230	0.0004	0.01		830	28.313	0.0030							
				400	0.0	0.01		900	30.163	0.0035							
WATERSHED CONDITIONS:																	
		415		0.0	0.01			928	30.050	0.0039							
About 18% of area in cultivation, primarily cotton,																	
		430		0.2000	0.06			950	40.192	0.0043							
corn, soybeans and ryegrass,																	
		445		0.2000	0.11			1000	47.984	0.0045							
poor to fair cover provided																	
		500		0.2400	0.17			1014	62.375	0.0049							
by residue from 1970; 20% in																	
		515		0.0800	0.19			1030	77.760	0.0055							
pasture and idle land, fair to																	
		530		0.0	0.19			1046	112.606	0.0063							
good cover; 48% in woods, good																	
		545		0.0800	0.20			1102	153.553	0.0074							
cover; 1% in bare gullies;																	
		600		0.0	0.20			1116	245.938	0.0088							
5% urban.																	
		730		0.0	0.20			1130	351.135	0.0110							
		745		0.0003	0.20			1148	975.918	0.0171							
		800		0.0006	0.20			1152	1103.999	0.0192							
		815		0.0400	0.21			1158	1217.999	0.0228							
		830		0.2807	0.28			1216	1463.999	0.0352							
		845		0.1600	0.32			1234	1763.999	0.0502							
		900		0.1200	0.35			1250	1985.999	0.0656							
		915		0.1600	0.39			1304	2213.997	0.0807							
		930		0.4000	0.49			1318	2853.999	0.0975							
		945		0.4800	0.61			1336	2819.997	0.1219							
		1000		0.1200	0.64			1348	3041.998	0.1400							
		1015		0.0800	0.66			1402	3215.998	0.1626							
		1030		0.1200	0.69			1412	3311.997	0.1794							
		1045		0.1600	0.73			1428	3353.995	0.2069							
		1100		0.1200	0.76			1440	3335.995	0.2276							
		1115		0.2800	0.83			1502	3191.996	0.2486							
		1130		0.5600	0.97			1518	3017.997	0.2902							

NOTES: To convert rumoff in CFS to I#/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain pages 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 pp. 62.005-1 and 2.

1971 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSEED W-17			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF FEBRUARY 21 - 24, 1971 (CONTINUED)									
2-21	1145	0.2800	1.04	2-21	1534	2783.995	0.3141		
	1200	0.4000	1.14		1550	2555.996	0.3361		
	1215	0.2400	1.20		1604	2349.997	0.3399		
	1230	0.0	1.20		1618	2159.998	0.3702		
	1245	0.0400	1.21		1636	1950.000	0.3892		
	1300	0.0400	1.22		1650	1787.999	0.4027		
	1315	0.3600	1.31		1706	1655.999	0.4169		
	1330	0.0000	1.33		1718	1517.999	0.4267		
	1345	0.0400	1.34		1734	1421.999	0.4388		
	1400	0.0	1.34		1756	1320.000	0.4543		
	1415	0.0005	1.34		1818	1241.999	0.4688		
	1430	0.0005	1.34		1844	1200.000	0.4851		
	1445	0.0005	1.34		1902	1193.999	0.4962		
	1500	0.0	1.38		1918	1217.999	0.5061		
	1515	0.0400	1.35		1934	1283.999	0.5164		
	1530	0.1198	1.38		1944	1367.999	0.5232		
	1545	0.1200	1.41		1948	1463.999	0.5261		
	1600	0.0	1.41		2004	1835.999	0.5397		
	1615	0.0	1.41		2018	2303.999	0.5546		
	1630	0.0	1.41		2034	3041.998	0.5766		
	1645	0.0400	1.42		2046	3800.716	0.5977		
	1700	0.0	1.42		2104	4470.457	0.6360		
	1715	0.0400	1.43		2116	4997.242	0.6652		
	1730	0.0400	1.44		2122	5159.812	0.6809		
	1745	0.2000	1.49		2130	5345.609	0.7026		
	1800	0.2400	1.55		2146	5575.289	0.7476		
	1815	0.1200	1.58		2204	5788.336	0.8003		
	1830	0.1200	1.61		2224	5883.734	0.8604		
	1845	0.2800	1.68		2238	5940.695	0.9030		
	1900	1.1600	1.97		2300	5960.133	0.9704		
	1915	1.6400	2.38		2316	5889.984	1.0192		
	1930	0.5200	2.51		2328	5896.215	1.0556		
	1945	0.2800	2.58		2346	5762.793	1.0977		
	2000	0.1200	2.61		2400	5711.297	1.1511		
	2015	0.0400	2.62	2-22	16	5570.457	1.1976		
	2030	0.1200	2.65		30	5290.609	1.2368		
	2045	0.0800	2.67		46	4813.930	1.2784		
	2100	0.0	2.67		102	4269.984	1.3158		
	2115	0.0400	2.68		120	3545.998	1.3520		
	2130	0.0400	2.69		134	2993.998	1.3756		
	2145	0.1200	2.72		154	2567.996	1.4042		
	2200	0.1600	2.76		208	2255.997	1.4216		
	2215	0.1200	2.79		222	2033.996	1.4371		
	2230	0.0400	2.80		236	1830.000	1.4510		
	2245	0.0	2.80		250	1685.999	1.4637		
	2300	0.0	2.80		306	1547.999	1.4770		
					334	1343.999	1.4979		
					348	1265.999	1.5073		
					416	1043.638	1.5240		
					448	882.499	1.5399		
					518	750.500	1.5525		
					548	625.000	1.5631		
					618	537.000	1.5721		
					704	448.568	1.5838		
					748	372.895	1.5931		
					848	335.895	1.6040		
					950	306.163	1.6142		
					1104	272.312	1.6252		
					1216	243.352	1.6348		
					1332	202.056	1.6435		
					1426	190.063	1.6490		
					1530	183.000	1.6551		
					1634	153.453	1.6606		
					1732	143.168	1.6650		
					1856	126.112	1.6708		
					2036	118.000	1.6771		
					2236	105.974	1.6840		
					2320	104.336	1.6864		
					2400	97.568	1.6885		
				2-23	600	73.290	1.7043		
					1202	50.656	1.7159		
					1502	45.408	1.7204		
					1932	34.888	1.7260		
					2400	33.000	1.7307		
				2-24	2400	24.814	1.7521		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000309. Thiessen weighted storm rainfall, catch pages 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 pp. 62.005 -1 and 2.



EVENT OF FEBRUARY 21 - 24, 1971
OXFORD, MISSISSIPPI WATERSHED 6-17

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													
1971	P	6.32	6.58	3.91	3.61	3.65	4.24	2.88	1.99	3.83	4.46	1.99	8.92	42.35												
	Q	0.932	1.981	0.923	0.189	0.077	0.133	0.006	0.0	0.043	0.0	0.002	0.116	4.402												
STA AV	P	3.78	4.95	4.87	4.96	4.31	3.20	3.90	3.64	4.14	2.38	4.15	5.26	49.55												
	Q	1.075	1.499	1.375	1.352	0.597	0.143	0.181	0.293	0.228	0.125	0.499	1.026	8.394												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge Date	1 Hour Rate	2 Hours		4 Hours		6 Hours		1 Day		2 Days		8 Days				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1971	2-21	0.693	2-21	0.437	2-21	0.578	2-21	0.730	2-21	0.987	2-21	1.203	2-21	1.293	2-21	1.668

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 (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; 1% in bare gullies; 1% clay pit. Percentages of total area in various land use categories are based on the latest survey completed in 1970. About 7% of drainage area above small deslitting 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. 62,7-4. Monthly precipitation Thiessen weighted from rain gages 4 and 30. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 48, Mississippi.

1971	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-24											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.65	0.0	0.22	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0									
2	0.0	0.0	0.22	0.0	0.01	0.0	0.0	0.05	0.58	0.0	0.0	0.0	0.0	0.45	0.0									
3	0.22	0.11	0.11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.52	0.0									
4	0.36	0.66	0.0	0.0	0.0	0.0	0.0	0.03	0.0	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	0.0	0.03	0.0	0.28	0.0	0.15	0.0	0.0	0.0									
6	0.0	0.0	0.39	0.0	0.0	0.28	0.08	0.43	0.0	0.0	0.36	0.21	0.0	0.0	0.0									
7	0.0	0.19	0.0	0.0	0.20	0.27	0.0	0.0	0.09	0.0	0.0	0.03	0.0	0.0	0.0									
8	0.0	0.18	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
9	0.0	0.0	0.19	0.0	0.0	0.0	0.00	0.19	0.0	0.0	0.04	1.32	0.0	0.0	0.0									
10	0.0	0.0	0.18	0.0	0.15	0.0	0.0	0.19	0.0	0.0	0.0	0.01	0.0	0.0	0.0									
11	0.04	0.0	0.0	0.0	0.16	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
12	0.0	1.13	0.0	0.0	1.78	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	0.48	0.04	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0									
14	0.43	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0									
15	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0									
16	0.0	0.0	0.0	0.0	0.0	1.83	0.0	0.0	0.74	0.0	0.0	0.05	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	0.0									
18	0.0	0.0	0.49	0.09	0.0	1.00	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0									
19	0.0	0.84	0.0	0.0	0.0	0.0	0.07	0.0	1.22	0.0	0.06	0.12	0.0	0.0	0.0									
20	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0									
21	0.32	2.97	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									
22	1.40	0.0	0.0	0.03	0.0	0.0	0.0	0.45	0.0	0.0	0.02	0.0	0.0	0.0	0.0									
23	0.48	0.0	0.0	0.86	0.0	0.0	0.63	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0									
24	0.53	0.0	0.0	0.0	1.05	0.0	1.52	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0									
25	0.0	0.0	1.16	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
26	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.47	1.12	0.0	0.0	0.0	0.0	0.0	0.0									
27	0.55	0.0	0.0	0.0	0.21	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
28	0.0	0.0	0.46	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.63	0.05	0.0	0.0	0.0									
29	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									
30	0.0	0.0	0.0	0.18	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0									
31	0.0	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	0.0									
TOTAL	4.32	6.58	3.91	3.61	3.65	4.24	2.84	1.99	3.83	4.46	1.99	8.92	42.35	49.55	42.35									
STA AV	3.78	4.95	4.87	4.96	4.31	3.20	3.90	3.64	4.14	2.38	4.15	5.26	49.55	42.35	42.35									

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 4 and 30. STA AV based on 15 yr (1957-71) record period.

1971	MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI				WATERSHED W-2a			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	1.099	0.658	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.845	0.775	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.768	0.509	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.254	
4	0.0	0.933	0.579	0.346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.736	0.391	0.266	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	1.059	0.164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	1.197	0.114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.320	0.923	0.114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.923	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.308	
10	0.0	0.0	0.845	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.079	0.697	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	3.851	0.627	0.0	1.189	0.0	0.0	0.0	0.0	0.0	0.0	0.183	
13	0.0	0.115	0.627	0.0	0.185	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.509	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.068	
15	0.0	0.0	0.311	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.685	
16	0.0	0.0	0.231	0.0	0.0	1.724	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.231	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.231	0.0	0.0	1.031	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.796	0.203	0.0	0.065	0.0	0.0	0.0	0.094	0.0	0.0	0.0	
20	0.0	0.203	0.153	0.088	0.0	0.0	0.0	0.0	0.157	0.0	0.0	0.0	
21	0.0	22.393	0.131	0.278	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	5.460	4.888	0.114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	1.934	1.479	0.088	0.697	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	11.814	1.275	0.088	0.0	0.096	0.0	0.138	0.0	0.0	0.0	0.0	0.0	
25	0.992	1.099	2.194	0.0	0.151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.199	1.585	1.479	0.0	0.0	0.0	0.0	0.0	0.671	0.0	0.0	0.0	
27	0.048	1.591	0.951	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	1.275	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.0	
29	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.627	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.563	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.6467	1.5221	0.6407	0.1353	0.0534	0.0951	0.0043	0.0	0.0307	0.0	0.0012	0.0805	
INCHES	0.932	1.981	0.923	0.189	0.077	0.133	0.006	0.0	0.043	0.0	0.002	0.116	
STA AV	1.075	1.499	1.375	1.352	0.597	0.143	0.181	0.293	0.228	0.125	0.499	1.026	

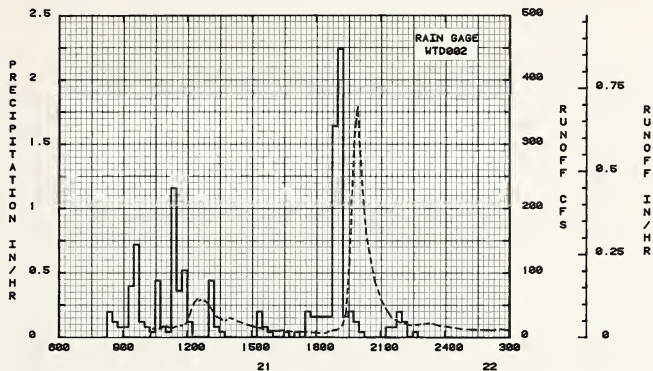
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.046488. Quality of records: Poor, estimated to be within 20% of actual. STA AV based on 15 yr (1957-71) record period.

1971	SELECTED SUBOFF EVENT				OXFORD, MISSISSIPPI				WATERSHED W-2a			
	ANTECEDENT CONDITIONS		ROOFF		RAINFALL		ACC.		SUBOFF		ACC.	
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF FEBRUARY 21 - 23, 1971												
2-21	0.15	0.003	2-21	815	0.0	0.0	2-21	1016	0.097	0.0		
				830	0.2000	0.05		1020	7.975	0.0005		
				845	0.1200	0.08		1024	13.533	0.0019		
				900	0.0800	0.10		1030	14.962	0.0047		
				915	0.0800	0.12		1046	12.620	0.0118		
WATERSHED CONDITIONS:												
				930	0.4000	0.22		1054	17.481	0.0157		
				945	0.7200	0.40		1100	17.481	0.0191		
				1000	0.1200	0.83		1110	14.962	0.0243		
				1015	0.0800	0.45		1118	14.476	0.0281		
				1030	0.0400	0.46		1130	16.971	0.0342		
				1045	0.4400	0.57		1142	18.497	0.0411		
				1100	0.0800	0.59		1146	16.497	0.0435		
				1115	0.0400	0.60		1156	20.952	0.0499		
				1130	1.1600	0.89		1202	25.136	0.0544		
				1145	0.3600	0.98		1212	43.336	0.0655		
				1200	0.5200	1.11		1220	53.900	0.0781		
				1215	0.1200	1.14		1228	59.438	0.0927		
				1230	0.0	1.14		1234	56.695	0.1040		
				1245	0.0	1.14		1238	58.068	0.1114		
				1300	0.0	1.14		1248	56.695	0.1299		
				1315	0.4400	1.25		1256	53.200	0.1441		
				1330	0.0800	1.27		1314	38.938	0.1709		
				1345	0.0400	1.28		1322	31.800	0.1800		
				1400	0.0	1.28		1338	26.938	0.1952		
				1515	0.0	1.28		1348	25.726	0.2037		
				1530	0.2000	1.33		1350	27.552	0.2054		
				1545	0.0800	1.35		1358	30.000	0.2128		
				1600	0.0400	1.36		1408	28.168	0.2222		
				1615	0.0	1.36		1422	24.559	0.2341		
				1630	0.0	1.36		1454	18.497	0.2563		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01937. Thiessen weighted storm rainfall, rain gages 4 and 30. For 30-day antecedent P and Q, see tables on pp. 62.007-1 and 2.

1971 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-24			
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 21 - 23, 1971 (CONTINUED)										
			2-21	1645	0.0400	1.37	2-21	1516	14.962	0.2682
				1700	0.0	1.37		1522	14.962	0.2711
				1715	0.0400	1.38		1534	12.173	0.2764
				1730	0.0	1.38		1554	9.600	0.2834
				1745	0.2000	1.43		1620	9.600	0.2915
				1800	0.1600	1.47		1622	10.864	0.2922
				1815	0.1600	1.51		1630	10.864	0.2950
				1830	0.1600	1.55		1640	9.187	0.2982
				1845	0.1600	1.59		1712	8.778	0.3075
				1900	1.6400	2.00		1734	7.581	0.3133
				1915	2.2400	2.56		1758	6.810	0.3189
				1930	0.1600	2.60		1826	6.063	0.3247
				1945	0.2000	2.65		1836	9.187	0.3272
				2000	0.1200	2.68		1846	10.864	0.3304
				2015	0.0400	2.69		1904	13.074	0.3374
				2030	0.0	2.69		1914	18.497	0.3425
				2045	0.0	2.69		1924	37.768	0.3516
				2100	0.0	2.69		1934	122.995	0.3776
				2115	0.0	2.69		1946	296.800	0.4589
				2130	0.0800	2.71		1950	330.399	0.4994
				2145	0.0800	2.73		1956	357.719	0.5659
				2200	0.2000	2.78		1958	333.600	0.5883
				2215	0.1200	2.81		2006	257.800	0.6647
				2230	0.0	2.81		2020	159.600	0.7591
				2245	0.0400	2.82		2044	87.000	0.8546
				2300	0.0	2.82		2102	58.068	0.8968
								2118	41.359	0.9225
								2130	31.200	0.9366
								2144	26.326	0.9496
								2156	22.426	0.9590
								2226	18.497	0.9788
								2240	19.495	0.9874
								2252	20.468	0.9951
								2302	20.952	1.0018
								2316	21.928	1.0115
								2326	20.952	1.0184
								2348	17.481	1.0320
								2400	16.971	1.0387
							2-22	18	15.456	1.0481
								48	12.620	1.0617
								128	11.731	1.0774
								204	11.295	1.0908
								210	10.864	1.0929
								222	12.173	1.0974
								234	12.620	1.1022
								308	11.295	1.1153
								400	8.778	1.1321
								506	8.374	1.1504
								558	6.434	1.1628
								726	5.339	1.1795
								910	4.270	1.1956
								1042	3.268	1.2068
								1244	2.671	1.2185
								1638	2.400	1.2377
								2014	1.908	1.2527
								2400	1.683	1.2658
							2-23	2400	1.275	1.3346

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001937. Thiessen weighted storm rainfall, rain pages 4 and 30. For 30-day antecedent P and Q, see tables on pp. 62.007-1 and 2.



EVENT OF FEBRUARY 21 - 23, 1971
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												
1971	P 4.28	7.07	3.66	3.37	3.79	2.89	2.93	2.36	2.59	0.59	1.65	4.53	39.69	Q 0.262	2.250	0.162	0.016	0.011	0.006	0.000	0.0	0.0	0.0	0.003	2.709
STA AV	P 3.71	4.86	4.72	4.79	4.12	3.26	3.82	3.67	4.32	2.52	4.12	5.23	89.14	Q 0.339	0.636	0.497	0.349	0.158	0.056	0.108	0.214	0.189	0.091	0.188	3.203

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1971	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.	15 Days Date Vol.	30 Days Date Vol.					
1971	2-21	0.875	2-21	0.628	2-21	0.907	2-21	1.483	2-21	1.674	2-21	1.870	2-21	1.970	2-19	2.112
MAXIMUMS FOR PERIOD OF RECORD																
	2-21	0.875	2-21	0.628	2-21	0.907	2-21	1.483	2-21	1.674	2-21	1.870	1-30	1-27	2.680	
	1971		1971		1971		1971		1971		1971		1957	1957		

NOTES: Watershed conditions: About 9% in cultivation (cotton, soybeans and corn), 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; 61% in woods, good cover; 2% in bare grasses. Percentages of total area in various land use categories are based on the latest survey completed in 1971. About 58% of drainage area above small deslitting 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. 62-65. Monthly precipitation thickness weighted from rain gages 5, 6 and 7. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 48, Mississippi.

1971 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-28											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.0	0.0	0.0	0.0	0.60	0.0	0.19	0.0	0.0	0.05	0.0	0.0	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	0.17	0.0	0.04	0.0	0.0	0.0	0.19	0.0	0.05	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.23	0.11	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.39	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.05	0.0	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	0.07	0.0	0.46	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
6	0.0	0.0	0.30	0.0	0.0	0.0	0.13	0.0	0.21	0.0	0.0	0.0	0.33	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	0.10	0.0	0.0	0.19	0.40	0.0	0.0	0.0	0.00	0.0	0.0	0.02	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	0.10	0.0	0.0	0.0	0.42	0.0	0.0	0.05	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
9	0.0	0.0	0.19	0.0	0.0	0.0	0.03	0.46	0.0	0.0	0.05	0.0	0.05	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	0.20	0.0	0.33	0.0	0.0	0.0	0.82	0.0	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	0.0
11	0.02	0.0	0.0	0.0	0.20	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	0.0	0.0
12	0.0	1.05	0.0	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36
13	0.01	0.0	0.55	0.00	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
14	0.74	0.0	0.0	0.0	0.0	0.07	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	0.0	0.0	0.0	0.0
15	0.0	0.0	0.16	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.70	0.0	0.0	0.04	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	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	0.45	0.02	0.0	0.25	0.0	0.0	0.01	0.0	0.0	0.0	0.50	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	0.66	0.0	0.0	0.0	0.0	0.03	0.0	0.01	1.08	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
20	0.0	0.0	0.0	0.94	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.28	3.80	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.96	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.39	0.0	0.0	0.09	0.0	0.0	0.07	0.0	0.20	0.0	0.05	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
24	1.27	0.0	0.0	0.0	0.99	0.0	0.0	1.84	0.0	0.0	0.03	0.0	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	0.02	1.15	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	0.0	0.0	0.0
26	0.0	0.49	0.0	0.0	0.0	0.0	0.06	0.40	0.50	0.0	0.0	0.0	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	0.25	0.0	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	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
29	0.0	0.0	0.05	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	0.0	0.0	0.0	0.0	0.0	0.05
30	0.0	0.0	0.0	0.20	0.0	0.0	0.19	0.04	0.0	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	0.0
31	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	0.0	0.0	0.0
TOTAL	4.28	7.07	3.66	3.37	3.79	2.89	2.93	2.36	2.59	0.59	1.65	4.53												
STA AV	3.71	4.86	4.72	4.79	4.12	3.26	3.82	3.67	4.32	2.52	4.12	5.23												

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62.001-1). Daily precipitation values thickness weighted from rain gages 5, 6 and 7. STA AV based on 15 yr (1957-71) record period.

1971		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	0.0	0.683	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.586	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.331	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.198	0.270	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.032	0.194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.009	0.169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	2.492	0.107	0.0	0.188	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.468	0.513	0.0	0.038	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.300	0.152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.300	0.115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.115
16	0.0	0.300	0.115	0.0	0.0	0.251	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.300	0.132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.300	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	1.239	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.362	0.189	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	69.931	0.189	0.192	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	18.926	0.107	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	2.472	0.032	0.863	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	10.808	1.235	0.0	0.0	0.272	0.0	0.005	0.0	0.0	0.0	0.0	0.0
25	0.846	0.888	0.702	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.169	0.888	0.781	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.132	0.888	0.214	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.115	0.683	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.057	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.3890	3.6861	0.2366	0.0280	0.0161	0.0088	0.0002	0.0	0.0	0.0	0.0	0.0037
INCHES	0.262	2.250	0.162	0.016	0.011	0.006	0.000	0.0	0.0	0.0	0.0	0.003
STA AV	0.339	0.636	0.497	0.349	0.158	0.056	0.108	0.214	0.189	0.091	0.188	0.378

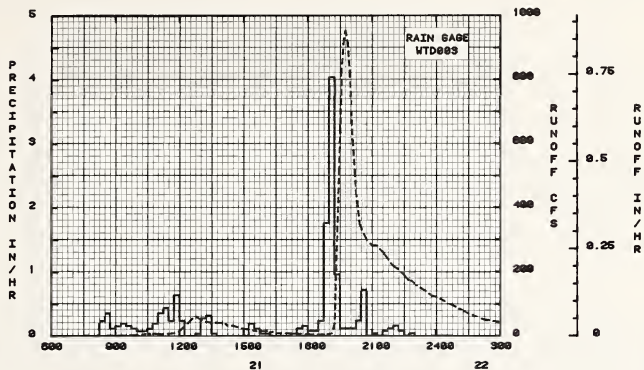
NOTES: To convert discharge in CFS to M³/DAY, multiply by 0.0220387. Quality of records: Poor, estimated to be within 20% of actual. STA AV based on 15 yr (1957-71) record period.

1971		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 21 - 25, 1971											
RG WTD003											
2-21	0.26	0.002	2-21	RG WTD003			2-21	600	0.967	0.0	
				800	0.0	0.0		618	0.967	0.0003	
				815	0.0	0.0		638	0.967	0.0006	
				830	0.2390	0.06		654	2.783	0.0011	
				845	0.3600	0.15		746	1.503	0.0028	
WATERSHED CONDITIONS:											
about 9% of area in cultivation, primarily cotton, soybeans and corn, poor to fair cover provided by residue from 1970 crop; 28% in pasture and idle land; fair to good cover; 61% in woods, good cover; 2% in bare gullies.	900	0.1200	0.18	756	2.213	0.0031					
	915	0.1600	0.22	858	1.503	0.0087					
	930	0.2000	0.27	918	2.213	0.0054					
	945	0.1600	0.31	928	2.783	0.0058					
	1000	0.1200	0.34	948	2.783	0.0067					
	1015	0.0800	0.36	1002	4.200	0.0074					
	1030	0.0800	0.38	1018	5.070	0.0085					
	1045	0.1200	0.41	1026	7.109	0.0092					
	1100	0.2000	0.46	1034	7.109	0.0101					
	1115	0.3600	0.55	1038	5.547	0.0105					
	1130	0.4400	0.66	1046	7.109	0.0113					
	1145	0.2400	0.72	1104	6.047	0.0131					
	1200	0.6400	0.88	1108	5.547	0.0135					
	1215	0.2400	0.94	1114	6.569	0.0141					
	1230	0.0	0.94	1130	7.109	0.0158					
	1245	0.0	0.94	1146	9.992	0.0179					
	1300	0.0400	0.95	1200	16.000	0.0207					
	1315	0.2796	1.02	1214	30.808	0.0257					
	1330	0.3200	1.10	1232	49.472	0.0368					
	1345	0.0400	1.11	1236	54.464	0.0400					
	1500	0.0	1.11	1248	60.000	0.0505					
	1515	0.0	1.11	1302	49.472	0.0622					
	1530	0.2000	1.16	1316	44.508	0.0723					
	1545	0.1200	1.19	1328	42.032	0.0802					
	1600	0.0400	1.20	1358	42.032	0.0995					

NOTES: To convert runoff in CFS to M³/HR, multiply by 0.0009161. Thiessen weighted storm rainfall, rain gages 5, 6 and 7. For 30-day antecedent P and Q, see tables on pp. 68.008-1 and 2.

1971			SELECTED HURONFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-28		
ANTECEDENT CONDITIONS		RAINFALL		HURONFF		HURONFF		HURONFF		HURONFF	
Date	Rainfall	Runoff	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time
No-Day	(inches)	(inches)	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	No-Day	of Day
EVENT OF FEBRUARY 21 - 25, 1971 (CONTINUED)											
2-21	1615	0.0400		1.21		2-21	1410	37.256	0.1068		
	1630	0.0		1.21			1414	32.856	0.1089		
	1645	0.0		1.21			1430	32.856	0.1170		
	1700	0.0		1.21			1456	23.098	0.1382		
	1715	0.0		1.21			1514	21.213	0.1342		
	1730	0.0400		1.22			1528	16.798	0.1383		
	1745	0.1200		1.25			1536	15.236	0.1403		
	1800	0.1600		1.29			1606	15.236	0.1473		
	1815	0.0800		1.31			1614	11.824	0.1490		
	1830	0.0800		1.33			1622	13.120	0.1505		
	1845	0.2400		1.39			1632	8.813	0.1522		
	1900	1.7600		1.83			1714	7.665	0.1575		
	1915	4.0400		2.84			1758	5.070	0.1674		
	1930	0.9600		3.08			1816	4.621	0.1631		
	1945	0.1200		3.11			1840	5.547	0.1650		
	2000	0.1200		3.14			1846	4.200	0.1654		
	2015	0.1200		3.17			1856	5.547	0.1661		
	2030	0.2400		3.23			1908	8.234	0.1674		
	2045	0.7200		3.41			1916	39.608	0.1703		
	2100	0.0		3.41			1920	206.200	0.1778		
	2115	0.0400		3.42			1928	513.000	0.2218		
	2130	0.0		3.42			1932	663.000	0.2578		
	2145	0.0800		3.44			1934	820.000	0.2806		
	2200	0.1200		3.47			1942	930.000	0.3877		
	2215	0.1600		3.51			1946	952.500	0.4453		
	2230	0.0800		3.53			1952	917.500	0.5310		
	2245	0.0		3.53			1958	807.500	0.6103		
	2300	0.0400		3.54			2006	609.000	0.6970		
							2012	513.000	0.7486		
							2016	449.000	0.7780		
							2026	347.000	0.8389		
							2032	330.950	0.8701		
							2046	298.000	0.9375		
							2100	282.698	0.9997		
							2114	281.000	1.0600		
							2130	262.300	1.1266		
							2146	238.500	1.1879		
							2158	219.800	1.2300		
							2214	207.900	1.2824		
							2228	192.600	1.3253		
							2242	173.900	1.3646		
							2250	172.200	1.3858		
							2306	156.900	1.4261		
							2330	139.900	1.4806		
							2348	124.600	1.5170		
							2400	121.200	1.5396		
						2-22	42	97.400	1.6099		
							130	70.008	1.6714		
							214	50.700	1.7120		
							254	43.263	1.7408		
							318	40.813	1.7562		
							326	47.000	1.7616		
							334	40.813	1.7670		
							346	37.256	1.7742		
							404	31.821	1.7837		
							410	35.000	1.7868		
							422	27.863	1.7926		
							438	23.098	1.7988		
							448	25.950	1.8025		
							510	20.287	1.8103		
							540	20.287	1.8196		
							610	16.798	1.8281		
							620	18.492	1.8308		
							716	13.120	1.8443		
							928	11.824	1.8695		
							1504	6.569	1.9168		
							1912	5.070	1.9389		
							2140	3.808	1.9490		
							2400	3.442	1.9568		
							2400	1.503	2.0113		
						2-24	2400	0.967	2.0385		
						2-25	2400	0.730	2.0572		

NOTES: To convert runoff in CFS to I³/S, multiply by 0.0009183. Thiessen weighted storm rainfall, rain gages 5, 6 and 7. For 30-day antecedent P and Q, see tables on pp. 68.008-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-32

LOCATION: Marshall Co., Miss.; 4.6 mi. E of Walhill on County road; Cuffava Creek, Pigeon Boost Creek Watershed, Tasso 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
1971	P 4.38	5.90	3.83	3.11	3.15	4.28	2.56	6.99	3.09	0.59	1.98	5.02	44.80
	Q 1.458	2.527	0.340	0.058	0.169	0.504	0.000	0.939	0.001	0.000	0.064	6.060	
STA 1V	P 3.81	4.89	4.91	4.98	4.58	3.19	3.86	3.90	4.49	2.43	4.26	5.37	50.66
	Q 1.162	1.739	1.752	1.352	0.987	0.221	0.315	0.393	0.441	0.133	0.646	1.383	10.522

ANNUAL MAXIMUM DISCHARGE (in/cb) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge Date	Maximum Discharge				Maximum Volume for Selected Time Interval											
	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	15 Days	30 Days	60 Days	90 Days	Year				
1971	8-26	0.261	8-26	0.245	8-26	0.420	1-24	0.718	2-21	1.241	2-21	1.626	2-20	1.649	2-19	1.526

MAXIMUMS FOR PERIOD OF RECORD															
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		1967		1964		1964		1964		1964		1965		

NOTES: Watershed conditions: About 27% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 32% in pasture and idle land, good cover April to October with fair cover remainder of year; 40% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on surveys made from 1971 to 1972. About 23% of drainage area above small settling 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. 62-10-5. Monthly precipitation thickness weighted from 10 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, MS, Mississippi.

1971 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-32			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.62	0.0	0.45	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.19	0.0	0.01	0.0	0.0	0.0	0.27	0.0	0.0	0.02	0.51			
3	0.29	0.11	0.06	0.0	0.0	0.0	0.0	0.09	0.05	0.0	0.0	0.0	0.51			
4	0.33	0.75	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.02	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.01	0.50	0.0	0.0	0.18			
6	0.0	0.0	0.33	0.0	0.0	0.01	0.13	1.41	0.0	0.0	0.40	0.24				
7	0.0	0.09	0.0	0.0	0.21	0.88	0.0	0.09	0.01	0.0	0.0	0.01				
8	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0				
9	0.0	0.0	0.28	0.0	0.0	0.0	0.09	1.25	0.0	0.0	0.06	1.18				
10	0.0	0.0	0.21	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.03				
11	0.02	0.01	0.0	0.0	0.12	0.0	0.0	0.29	0.0	0.0	0.0	0.0				
12	0.0	1.13	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	0.0	0.45				
13	0.00	0.0	0.41	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.04				
14	0.52	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.42				
15	0.0	0.0	0.21	0.0	0.0	0.11	0.0	0.0	0.0	0.00	0.0	0.53				
16	0.0	0.0	0.0	0.0	0.0	1.11	0.0	0.01	0.72	0.0	0.0	0.03				
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	0.52	0.18	0.0	1.47	0.0	0.0	0.0	0.0	0.72	0.0				
19	0.0	0.79	0.0	0.0	0.0	0.0	0.03	0.0	1.16	0.0	0.06	0.10				
20	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0				
21	0.27	2.29	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	1.01	0.0	0.07	0.16	0.0	0.0	0.0	0.23	0.0	0.0	0.04	0.0				
23	0.42	0.0	0.0	0.44	0.0	0.0	0.18	0.0	0.0	0.06	0.11	0.0				
24	1.48	0.0	0.0	0.0	0.40	0.0	1.29	0.0	0.0	0.00	0.0	0.0				
25	0.0	0.03	1.16	0.0	0.0	0.0	0.49	0.06	0.01	0.0	0.0	0.0				
26	0.0	0.62	0.0	0.0	0.0	0.0	0.01	2.78	0.65	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.35	0.14	0.0	0.04	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.40	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.57				
29	0.0	0.03	0.21	0.0	0.06	0.06	0.0	0.0	0.0	0.0	0.0	0.01				
30	0.0	0.0	0.18	0.0	0.0	0.15	0.12	0.0	0.0	0.0	0.0	0.63				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0				
TOTAL	4.38	5.90	3.83	3.11	3.15	4.28	2.56	6.99	3.09	0.59	1.98	5.02				
STA 1V	3.81	4.89	4.91	4.98	4.58	3.19	3.86	3.90	4.49	2.43	4.26	5.37				

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62.001-1). Daily precipitation values thickness weighted from rain gages 3, 10 thru 14, 20, 21, 24 and 26. STA 1V based on 15 yr (1957-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI			WATERSHED #32		
Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec
1	0.6	0.2	0.3	5.5	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
2	0.5	0.2	0.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.5	0.3	0.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
4	1.8	31.4	0.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.5	29.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
6	0.3	6.4	0.7	0.1	0.0	0.0	0.0	176.9	0.0	0.0	0.0	0.0
7	0.3	2.9	0.9	0.0	0.0	18.8	0.0	29.6	0.0	0.0	0.0	0.0
8	0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
9	0.3	1.0	0.0	0.0	0.0	0.0	0.0	30.5	0.0	0.0	0.0	17.0
10	0.3	0.8	1.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.6
11	0.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.3	383.3	0.1	0.0	58.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3
13	0.2	21.7	12.6	0.0	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1.3	5.8	1.8	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	4.3	0.4	0.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	31.5
16	3.4	0.1	0.2	0.0	0.1	47.9	0.0	0.0	0.0	0.0	0.0	0.7
17	2.1	0.2	0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.9	0.2	0.0	0.0	0.0	326.1	0.0	0.0	0.0	0.0	0.0	0.0
19	0.6	129.0	0.2	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.5	34.1	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
21	0.3	1126.5	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	105.9	261.2	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	100.5	3.9	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	988.7	0.1	0.0	3.7	10.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0
25	25.0	0.1	227.7	0.2	19.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0
26	11.1	75.0	20.1	0.0	3.0	0.0	0.0	521.8	0.0	0.0	0.0	0.0
27	4.6	5.9	5.9	0.0	0.0	0.0	0.0	25.6	0.1	0.0	0.0	0.0
28	2.5	1.4	2.4	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
29	1.7	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.9	3.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2
31	0.4	1.1	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.2
MEAN	39.514	75.841	9.218	1.631	4.580	16.103	0.009	25.466	0.016	0.002	0.002	1.727
INCHES	1.458	2.527	0.340	0.058	0.169	0.504	0.000	0.939	0.001	0.000	0.000	0.068
STA AV	1.162	1.739	1.752	1.352	0.987	0.221	0.315	0.993	0.441	0.133	0.646	1.383

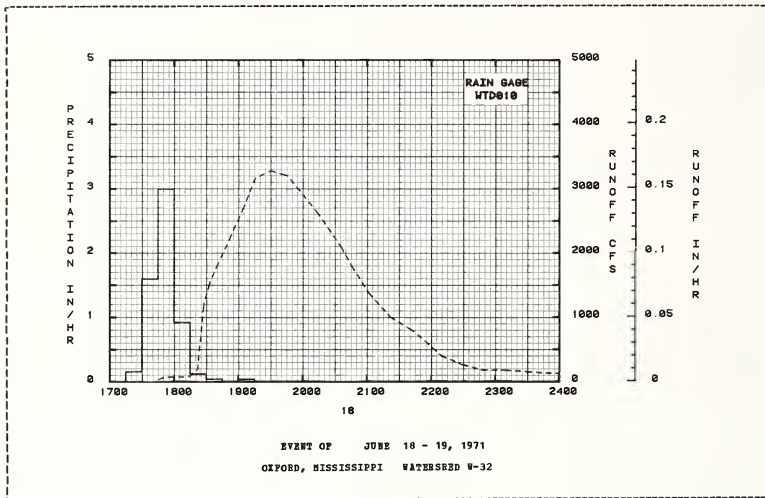
NOTES: To convert discharge in CFS to I8/DAT, multiply by 0.0011901. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 15 yr (1957-71) record period.

1971		SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED #32			
DATE		PRECEDENT CONDITIONS			RAINFALL			RUNOFF			
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 JUNE 18 - 19, 1971											
6-18	EG WTD010 0.0	0.000	6-18	EG WTD010 1715	0.0	0.0	6-18	1744	22.188	0.0	
				1730	0.1600	0.04		1750	69.210	0.0002	
				1745	1.6000	0.44		1800	76.312	0.0008	
				1800	3.0000	1.19		1814	80.188	0.0017	
				1815	0.9200	1.42		1822	187.000	0.0026	
WATERSHED CONDITIONS:											
				1830	0.1190	1.45		1828	1225.000	0.0061	
				1845	0.0400	1.46		1834	1562.498	0.0130	
				1900	0.0	1.46		1840	1794.060	0.0213	
				1915	0.0400	1.47		1852	2226.998	0.0412	
				1930	0.0	1.47		1906	2749.999	0.0700	
				1945	0.0	1.47		1916	3169.997	0.0945	
				2000	0.0	1.47		1930	3279.997	0.1318	
								1946	3199.998	0.1746	
								2016	2577.837	0.2462	
								2036	2051.997	0.2848	
								2086	1794.060	0.3009	
								2102	1374.999	0.3218	
								2122	1000.000	0.3414	
								2144	775.000	0.3575	
								2158	575.000	0.3653	
								2210	394.000	0.3701	
								2230	255.163	0.3755	
								2248	175.960	0.3787	
								2310	170.560	0.3819	
								2330	149.760	0.3845	
								2348	130.256	0.3866	
								2400	123.313	0.3879	
								44	92.074	0.3918	
								146	63.960	0.3958	
								248	44.688	0.3986	

NOTES: To convert runoff in CFS to I8/RS, multiply by 0.000496. Thiessen weighted storm rainfall, rain gages 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and U, see tables on pp. 62.010-1 and 2.

1971 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 JUNE 18 - 19, 1971 (CONTINUED)										
							6-19	430	23.088	0.4015
								644	14.250	0.4036
								1212	3.378	0.4060
								1718	1.601	0.4066
								2310	1.254	0.4070
								2400	0.407	0.4070

NOTES: To convert runoff in CFS to I_s/R_r, multiply by 0.0000496. Thiessen weighted area rainfall, rain gages 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62.010-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-34

LOCATION: Marshall Co., Miss.; 8 mi. S of Styhalia 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
P	4.41	6.10	3.66	3.19	3.57	3.61	2.63	4.61	3.13	0.45	1.92	4.60	41.89	P	4.41	6.10	3.66	3.19	3.57	3.61	2.63	4.61	3.13	0.45	1.92	4.60	41.89		
Q	1.714	3.480	1.160	0.646	0.727	0.771	0.493	0.877	0.498	0.429	0.514	0.632	11.942	Q	1.714	3.480	1.160	0.646	0.727	0.771	0.493	0.877	0.498	0.429	0.514	0.632	11.942		
STA AV	3.95	4.86	4.71	4.86	4.24	3.03	3.96	4.16	4.49	2.06	4.22	5.41	49.94	STA AV	3.95	4.86	4.71	4.86	4.24	3.03	3.96	4.16	4.49	2.06	4.22	5.41	49.94		
Q	1.476	1.984	1.877	1.517	1.111	0.493	0.698	0.732	0.760	0.435	0.938	1.515	13.537	Q	1.476	1.984	1.877	1.517	1.111	0.493	0.698	0.732	0.760	0.435	0.938	1.515	13.537		

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

Date	Maximun Discharge				Maximun Volume for Selected Time Interval											
	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	14 Days	30 Days	60 Days	90 Days					
1971	2-21	0.166	2-21	0.162	2-21	0.310	2-21	0.755	2-21	1.288	2-21	1.811	2-21	1.937	2-19	2.324
1971	2-21	0.166	2-21	0.162	2-21	0.310	7-9	0.800	7-9	1.410	11-27	2.270	12-3	2.720	3-24	4.770

MAXIMUMS FOR PERIOD OF RECORD

2-21 0.166 2-21 0.162 2-21 0.310 7-9 0.800 7-9 1.410 11-27 2.270 12-3 2.720 3-24 4.770

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; 29% in pasture and idle land, good cover April to October with fair cover remainder of year; 46% in woods, good cover; 1% in bare grasses; 1% barren. Percentages of total area in various land use categories are based on surveys made from 1965 to 1971. About 17% of area, principally in upper reaches above small deslitting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966-69, USDA Misc. Pub. 945, p. 62-114. Monthly precipitation Thiessen weighted from 32 rain gages. Monthly values of runoff include small amounts of flow through auxiliary Station 34-A. Precipitation and runoff records began Jan. 1957. Runoff for period October 1969 thru December 1970 discontinued, due to dredging in the channel. For long-time precipitation records, see National Weather Service records at Holly Springs, MS, Mississippi.

1971 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	0.0	0.0	0.0	0.65	0.0	0.34	0.0	0.0	0.08	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0		
2	0.0	0.0	0.19	0.0	0.03	0.0	0.0	0.00	0.31	0.0	0.02	0.46	2	0.0	0.0	0.19	0.0	0.03	0.0	0.00	0.31	0.0	0.02	0.46	
3	0.31	0.11	0.06	0.0	0.0	0.0	0.0	0.05	0.13	0.0	0.0	0.49	3	0.31	0.11	0.06	0.0	0.0	0.0	0.05	0.13	0.0	0.0	0.49	
4	0.33	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.0	0.0	4	0.33	0.74	0.0	0.0	0.0	0.0	0.00	0.01	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.12	0.01	0.37	0.0	5	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.12	0.01	0.37	0.0	
6	0.0	0.0	0.32	0.0	0.0	0.05	0.14	0.0	0.79	0.01	0.0	0.37	6	0.0	0.0	0.32	0.0	0.0	0.05	0.14	0.0	0.0	0.37	0.0	
7	0.0	0.09	0.0	0.0	0.22	0.43	0.0	0.04	0.08	0.0	0.0	0.01	7	0.0	0.09	0.0	0.0	0.22	0.43	0.0	0.04	0.08	0.0	0.01	
8	0.0	0.08	0.0	0.0	0.11	0.08	0.0	0.00	0.03	0.0	0.0	0.0	8	0.0	0.08	0.0	0.0	0.11	0.08	0.0	0.00	0.03	0.0	0.0	
9	0.0	0.0	0.20	0.0	0.0	0.0	0.09	0.76	0.0	0.0	0.05	1.13	9	0.0	0.0	0.20	0.0	0.0	0.0	0.09	0.76	0.0	0.05	1.13	
10	0.0	0.0	0.20	0.0	0.39	0.0	0.0	0.05	0.0	0.0	0.0	0.04	10	0.0	0.0	0.20	0.0	0.39	0.0	0.0	0.05	0.0	0.0	0.04	
11	0.02	0.00	0.0	0.0	0.13	0.0	0.0	0.24	0.00	0.0	0.0	0.0	11	0.02	0.00	0.0	0.0	0.13	0.0	0.0	0.24	0.00	0.0	0.0	
12	0.0	1.09	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	0.0	0.34	12	0.0	1.09	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	0.34	
13	0.00	0.0	0.41	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	13	0.00	0.0	0.41	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.03	
14	0.52	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.41	14	0.52	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.41	
15	0.0	0.0	0.19	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.01	0.55	15	0.0	0.0	0.19	0.0	0.0	0.13	0.0	0.0	0.01	0.0	0.55	
16	0.0	0.0	0.0	0.0	0.0	1.28	0.0	0.01	0.61	0.0	0.0	0.04	16	0.0	0.0	0.0	0.0	0.0	1.28	0.0	0.01	0.61	0.0	0.04	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
18	0.0	0.0	0.50	0.12	0.0	1.06	0.0	0.01	0.0	0.0	0.74	0.0	18	0.0	0.0	0.50	0.12	0.0	1.06	0.0	0.01	0.0	0.74	0.0	
19	0.0	0.83	0.0	0.0	0.0	0.0	0.03	0.00	1.16	0.0	0.06	0.10	19	0.0	0.83	0.0	0.0	0.0	0.0	0.03	0.00	1.16	0.0	0.06	
20	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	20	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.28	2.63	0.0	0.26	0.0	0.0	0.0	0.00	0.0	0.0	0.0	3.0	21	0.28	2.63	0.0	0.26	0.0	0.0	0.0	0.00	0.0	0.0	3.0	
22	1.26	0.0	0.02	0.15	0.0	0.0	0.0	0.32	0.0	0.0	0.03	0.0	22	1.26	0.0	0.02	0.15	0.0	0.0	0.0	0.32	0.0	0.0	0.03	
23	0.47	0.0	0.0	0.60	0.0	0.0	0.31	0.0	0.0	0.03	0.12	0.0	23	0.47	0.0	0.0	0.60	0.0	0.0	0.31	0.0	0.03	0.12	0.0	
24	1.18	0.0	0.0	0.0	0.76	0.0	1.39	0.0	0.0	0.0	0.0	0.0	24	1.18	0.0	0.0	0.0	0.76	0.0	1.39	0.0	0.0	0.0	0.0	
25	0.0	0.01	1.11	0.0	0.0	0.0	0.32	0.02	0.00	0.0	0.0	0.0	25	0.0	0.01	1.11	0.0	0.0	0.0	0.32	0.02	0.00	0.0	0.0	
26	0.0	0.53	0.0	0.0	0.0	0.0	0.02	1.73	0.64	0.0	0.0	0.0	26	0.0	0.53	0.0	0.0	0.0	0.0	0.02	1.73	0.64	0.0	0.0	
27	0.03	0.0	0.0	0.0	0.28	0.12	0.0	0.0	0.02	0.0	0.0	0.0	27	0.03	0.0	0.0	0.0	0.28	0.12	0.0	0.0	0.02	0.0	0.0	
28	0.0	0.0	0.40	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.52	0.09	28	0.0	0.0	0.40	0.0	0.0	0.0	0.11	0.0	0.0	0.52	0.09	
29	0.0	0.0	0.05	0.19	0.0	0.03	0.07	0.0	0.0	0.0	0.0	0.01	29	0.0	0.0	0.05	0.19	0.0	0.03	0.07	0.0	0.0	0.0	0.01	
30	0.0	0.0	0.0	0.16	0.0	0.0	0.15	0.0	0.12	0.0	0.0	0.50	30	0.0	0.0	0.0	0.16	0.0	0.0	0.15	0.0	0.12	0.0	0.50	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	
TOTAL	4.41	6.10	3.66	3.19	3.57	3.61	2.63	4.61	3.13	0.45	1.92	4.60	TOTAL	4.41	6.10	3.66	3.19	3.57	3.61	2.63	4.61	3.13	0.45	1.92	4.60
STA AV	3.95	4.86	4.71	4.86	4.24	3.03	3.96	4.16	4.49	2.06	4.22	5.41	STA AV	3.95	4.86	4.71	4.86	4.24	3.03	3.96	4.16	4.49	2.06	4.22	5.41

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-34, in 62-000-0. Daily precipitation values Thiessen weighted from rain gages 1 thru 31 and 33. STA AV based on 14 yr (1957-69, 1971) record period.

1971	NEAR DAILY DISCHARGE (cfs)												OXFORD, MISSISSIPPI			WATERSHED W-34		
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.0	63.6	63.6	197.3	41.1	46.9	55.1	42.2	61.6	38.9	46.9	52.0						
2	0.0	61.9	63.6	242.5	41.1	46.9	61.9	48.6	45.8	38.9	50.7	66.6						
3	0.0	60.0	65.4	62.3	42.2	41.1	63.6	47.5	66.1	40.0	53.5	100.9						
4	0.0	163.5	60.2	50.3	43.4	40.0	55.5	46.0	49.4	40.0	53.5	62.1						
5	0.0	366.7	53.5	47.1	44.5	42.2	52.2	49.4	48.1	41.1	53.5	55.0						
6	0.0	131.0	119.4	42.2	44.5	42.2	56.6	41.8	43.4	41.1	55.0	55.0						
7	0.0	121.5	97.7	45.8	45.5	45.5	55.1	381.8	42.2	42.2	55.0	55.0						
8	0.0	125.3	67.5	42.3	44.5	48.1	53.5	40.7	45.6	42.2	55.0	52.2						
9	0.0	127.2	67.5	42.3	45.6	45.6	55.0	122.9	49.4	40.0	55.0	115.5						
10	0.0	131.0	137.8	45.8	78.9	44.5	48.6	70.6	48.2	41.1	53.5	82.5						
11	0.0	138.6	77.9	42.2	66.2	48.2	41.1	43.4	46.9	42.2	52.0	44.5						
12	0.0	1269.9	67.5	42.2	317.5	50.7	41.1	42.2	50.7	44.5	52.0	45.6						
13	0.0	285.6	262.7	42.2	61.4	49.3	41.1	42.2	52.0	45.6	55.1	52.5						
14	130.7	116.3	109.7	42.2	58.7	46.9	40.0	41.1	50.7	43.4	56.6	65.1						
15	148.1	90.7	143.6	42.2	44.5	44.5	41.1	41.1	50.7	43.4	56.6	165.2						
16	65.7	65.7	72.5	41.1	44.5	494.7	41.1	40.0	53.5	45.6	56.6	58.2						
17	58.3	56.6	53.5	40.0	53.1	106.6	38.9	40.0	55.0	44.5	55.0	48.1						
18	56.6	62.1	79.0	42.2	63.6	463.0	38.9	42.2	56.6	45.6	56.6	48.1						
19	53.5	279.5	183.7	43.4	63.6	156.1	42.2	45.6	76.1	46.9	56.6	50.7						
20	52.0	265.9	85.3	50.3	58.4	48.1	44.5	45.6	120.8	48.1	55.0	52.0						
21	66.6	3967.1	61.8	193.0	50.9	44.5	42.2	44.5	42.2	48.1	55.0	49.4						
22	815.3	2111.2	61.8	50.9	46.8	42.2	37.7	53.9	42.2	44.5	55.0	49.4						
23	616.5	194.8	58.4	216.3	48.1	42.2	59.9	49.7	44.5	42.2	55.0	52.0						
24	2670.9	96.4	60.2	68.6	93.3	43.4	121.7	43.4	49.4	42.2	52.2	55.1						
25	247.2	91.1	880.5	44.5	181.0	48.2	76.1	41.1	42.4	43.4	52.2	58.3						
26	111.0	354.1	179.5	41.1	46.8	46.0	38.9	697.1	57.9	48.2	55.0	56.6						
27	71.2	98.9	49.7	43.4	50.9	44.6	40.0	279.1	58.4	49.4	53.5	58.4						
28	63.8	69.3	46.1	42.3	47.5	49.3	41.1	56.9	40.0	44.5	52.0	61.8						
29	58.3	216.4	43.5	45.1	48.1	48.1	44.5	52.0	40.0	45.6	53.5	65.5						
30	56.6	66.0	45.8	41.1	49.4	43.4	41.1	68.3	40.0	45.6	53.5	79.2						
31	58.4	44.5	42.2	42.2	42.2	42.2	41.1	68.3	40.0	45.6	53.5	79.2						
MEAN	174.21	391.61	117.89	67.86	73.92	80.99	50.12	89.15	52.33	43.59	54.03	64.25						
INCREAS	1.714	3.480	1.160	0.646	0.727	0.771	0.493	0.877	0.498	0.429	0.514	0.632						
STA AV	1.476	1.984	1.877	1.517	1.111	0.493	0.698	0.732	0.760	0.435	0.938	1.515						

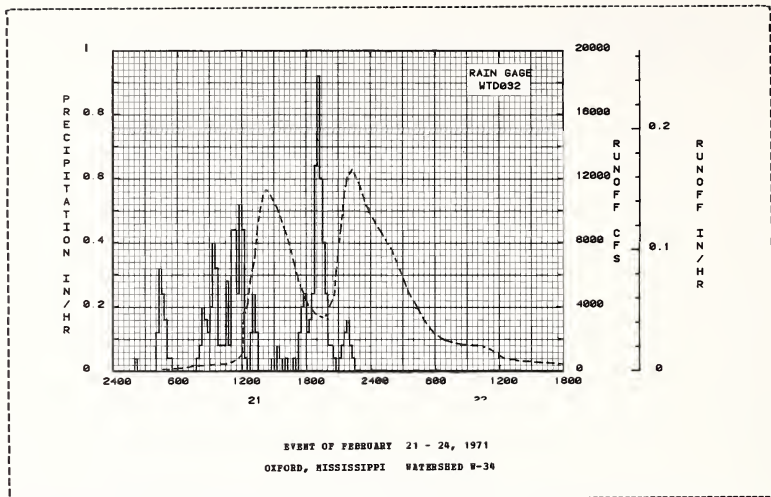
NOTES: To convert discharge in CFS to IY/DAY, multiply by 0.00031736. Quality of records: Good, estimated to be within 10% of actual. Daily discharge values include relatively insignificant flow through auxiliary station 34-A. Rmoff for period October 1969 thru December 1970 discontinued, due to dredging in the channel. STA AV based on 14 yr (1957-69, 1971) record period. Part-year amounts are included in station averages.

1971 SELECTED RUMOFF EVENT												OXFORD, MISSISSIPPI			WATERSHED W-34		
ANTECEDENT CONDITIONS						RAINFALL			RUMOFF								
Date	Rainfall	Rmoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.							
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)							
EVENT OF FEBRUARY 21 - 24, 1971																	
BG WTD032																	
2-21	0.0	0.006	2-21	BG WTD032	130	0.0	0.0	2-21	438	108.20	0.0						
					145	0.0	0.0		514	119.60	0.0009						
					200	0.1	0.0		558	165.20	0.0023						
					215	0.0400	0.01		628	187.98	0.0035						
					230	0.0	0.01		700	257.70	0.0051						
WATERSHED CONDITIONS:																	
About 23% of area in cultivation, primarily cotton,																	
corn and soybeans; poor to fair cover; 29% in pasture and idle land; fair to good cover;																	
46% in woods; good cover; 1% in bare silt; 1% urban.																	
					500	0.1600	0.22	1108	561.64	0.0261							
					510	0.0400	0.23	1122	680.00	0.025							
					530	0.0400	0.24	1144	830.00	0.0317							
					545	0.0	0.24	1156	995.00	0.0341							
					600	0.0	0.24	1204	1158.00	0.0360							
					730	0.0	0.24	1210	3660.00	0.0392							
					745	0.0	0.24	1220	3624.00	0.0472							
					800	0.0400	0.25	1232	4176.14	0.0575							
					815	0.0800	0.27	1238	4857.81	0.0635							
					830	0.2000	0.32	1248	5659.98	0.0751							
					845	0.1600	0.36	1302	6464.36	0.0938							
					900	0.1200	0.39	1314	7322.45	0.1120							
					915	0.2000	0.44	1328	8049.97	0.1373							
					930	0.4000	0.54	1346	10260.98	0.1756							
					945	0.3200	0.62	1358	10532.97	0.2036							
					1000	0.0800	0.64	1414	11289.98	0.2428							
					1015	0.0800	0.68	1428	1126.97	0.2755							
					1030	0.0800	0.68	1454	10617.98	0.3401							
					1045	0.2800	0.75	1514	10197.97	0.3860							
					1100	0.4800	0.77	1544	9270.29	0.4504							

NOTES: To convert rumoff in CFS to IY/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 31 and 33. For 30-day antecedent P and Q, see table on pp. 62.011-2 and 62.011-2.

1971 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSEED W-34				
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 21 - 24, 1971 (CONTINUED)										
2-21	1115	0.4400			0.88		2-21	1608	8489.97	0.4974
	1130	0.4400			0.99			1626	7850.61	0.5298
	1185	0.2400			1.05			1652	6685.97	0.5714
	1200	0.5200			1.18			1716	5627.97	0.6000
	1215	0.4400			1.29			1742	4885.50	0.6341
	1230	0.0400			1.30			1756	4428.21	0.6485
	1245	0.0			1.30			1810	4084.37	0.6616
	1300	0.1200			1.33			1832	3792.00	0.6807
	1315	0.2400			1.39			1852	3540.00	0.6969
	1330	0.1200			1.42			1916	3356.00	0.7152
	1345	0.0			1.42			1930	3312.00	0.7256
	1400	0.0			1.42			1946	3432.00	0.7375
	1415	0.0			1.42			1958	3708.00	0.7469
	1430	0.0			1.42			2014	4149.98	0.7608
	1445	0.0			1.42			2038	4717.97	0.7683
	1500	0.0400			1.43			2046	6171.98	0.7939
	1515	0.0			1.43			2058	7376.71	0.8118
	1530	0.0800			1.45			2116	9129.98	0.8445
	1545	0.0400			1.46			2132	10911.97	0.8798
	1600	0.0			1.46			2142	11577.61	0.9046
	1615	0.0400			1.47			2150	12085.61	0.9255
	1630	0.0			1.47			2202	12284.97	0.9577
	1645	0.0			1.47			2218	12584.98	1.0015
	1700	0.0400			1.48			2240	12035.70	1.0612
	1715	0.0			1.48			2300	11577.61	1.1133
	1730	0.1200			1.51			2326	10575.97	1.1767
	1745	0.2000			1.56			2346	10092.96	1.2223
	1800	0.2400			1.62			2400	9753.77	1.2529
	1815	0.1200			1.65		2-22	28	9169.97	1.3113
	1830	0.1600			1.69			56	8689.98	1.3664
	1845	0.2400			1.75			124	8169.97	1.4184
	1900	0.6400			1.91			158	7546.35	1.4773
	1915	0.9200			2.14			230	6600.98	1.5272
	1930	0.6000			2.29			252	6043.98	1.5778
	1945	0.4000			2.39			318	5254.97	1.5902
	2000	0.2400			2.45			330	4913.26	1.6037
	2015	0.0800			2.47			346	4592.71	1.6205
	2030	0.0800			2.49			414	4084.37	1.6473
	2045	0.0399			2.50			438	3568.00	1.6676
	2100	0.0			2.50			458	3191.79	1.6825
	2115	0.0400			2.51			528	2675.64	1.7019
	2130	0.0800			2.53			556	2321.50	1.7173
	2145	0.1200			2.56			628	2070.39	1.7328
	2200	0.1600			2.60			700	1873.00	1.7467
	2215	0.0800			2.62			708	1846.00	1.7500
	2230	0.0400			2.63			734	1765.00	1.7603
	2245	0.0			2.63			820	1656.63	1.7776
	2300	0.0			2.63			900	1604.13	1.7920
								926	1578.76	1.8011
								956	1570.34	1.8115
								1012	1545.00	1.8170
								1038	1460.00	1.8256
								1112	1307.32	1.8360
								1132	1146.00	1.8414
								1210	873.92	1.8499
								1230	755.00	1.8535
								1312	685.00	1.8602
								1348	614.84	1.8654
								1426	589.68	1.8704
								1600	498.94	1.8817
								1706	467.81	1.8887
								1904	412.24	1.9001
								2040	375.94	1.9084
								2234	320.06	1.9171
								2400	292.78	1.9229
							2-23	158	265.50	1.9302
								358	246.00	1.9370
								532	230.35	1.9419
								800	214.74	1.9452
								1144	184.15	1.9590
								1918	153.80	1.9759
								2400	131.00	1.9848
							2-24	558	96.80	1.9938
								1242	89.14	2.0021

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0001322. Thiessen weighted storm rainfall, rain pages 1 thru 31 and 33. For 30-day antecedent P and Q, see table on pp. 62.011-1 and 62.011-2.



OXFORD, MISSISSIPPI WATERSHED W-35

LOCATION: Marshall Co., Miss.; 0.3 mi. W of Chalhona on State Highway No. 4; Cuffava Creek, Pigeon Boost 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			
P	0.25	5.61	3.85	3.21	2.87	4.47	2.63	7.33	3.24	0.62	1.77	4.88	44.73			
1971 Q	1.311	2.395	0.263	0.053	0.095	0.441	0.0	1.117	0.0	0.0	0.0	0.032	5.707			
STA AV P	3.73	4.82	4.90	4.91	4.67	3.22	3.78	3.78	4.69	2.39	4.15	5.29	50.33			
Q	1.311	1.763	1.817	1.344	1.009	0.203	0.288	0.348	0.448	0.109	0.601	1.411	10.653			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		2 Days		8 Days					
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1971	8-26	0.395	8-26	0.365	8-26	0.601	8-26	0.731	2-21	1.166	2-21	1.506	2-20	1.549	2-19	1.855

MAXIMUMS FOR PERIOD OF RECORD												
Discharge Date	1 Hour	2 Hours	6 Hours	12 Hours	2 Days	8 Days						
5-26 1963	0.880	5-26 1963	0.840	5-26 1963	1.480	5-6 1963						
2-23 1963		2-23 1963		2-23 1963	2.190	5-6 1963						
5-6 1963		2-23 1963		2-23 1963	2.710	12-3 1964						
12-3 1964		3-09 1964		12-28 1964	3.090	12-28 1964						
3-24 1965		3-24 1965		3-24 1965	3.784	3-24 1965						
3-24 1965		3-24 1965		3-24 1965	5.690	3-24 1965						

NOTES: Watershed conditions: About 31% in cultivation (cotton, corn, soybeans and rye/grass), fair cover November to March, poor cover April and May improving to good by mid-July; 31% in pasture and idle land; good cover April to October with fair cover remainder of year; 37% 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, USDA 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 National Weather Service records at Holly Springs, 48, Mississippi.

1971 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-35			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.64	0.0	0.42	0.0	0.0	0.11	0.0	0.0	0.0				
2	0.0	0.0	0.20	0.0	0.00	0.0	0.0	0.0	0.42	0.0	0.0	0.51				
3	0.25	0.10	0.06	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.46				
4	0.36	0.70	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.03	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.01	0.50	0.0	0.16				
6	0.0	0.0	0.34	0.0	0.0	0.02	0.01	1.34	0.0	0.0	0.34	0.24				
7	0.0	0.09	0.0	0.0	0.20	1.13	0.0	0.0	0.01	0.0	0.0	0.00				
8	0.0	0.08	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	0.25	0.0	0.0	0.0	0.08	1.47	0.0	0.0	0.07	1.15				
10	0.0	0.0	0.17	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.02				
11	0.02	0.00	0.0	0.0	0.12	0.0	0.0	0.32	0.0	0.0	0.0	0.0				
12	0.0	1.10	0.0	0.0	1.56	0.0	0.0	0.0	0.0	0.0	0.0	0.83				
13	0.01	0.0	0.45	0.02	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.05				
14	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44				
15	0.0	0.0	0.24	0.0	0.0	0.08	0.0	0.0	0.0	0.01	0.0	0.50				
16	0.0	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.78	0.0	0.0	0.03				
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	0.51	0.23	0.0	1.62	0.0	0.0	0.0	0.0	0.59	0.0				
19	0.0	0.78	0.0	0.0	0.0	0.0	0.04	0.0	1.18	0.0	0.06	0.09				
20	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0				
21	0.25	2.12	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.96	0.0	0.08	0.11	0.0	0.0	0.0	0.29	0.0	0.0	0.04	0.0				
23	0.38	0.0	0.38	0.0	0.0	0.0	0.37	0.0	0.0	0.08	0.11	0.0				
24	1.55	0.0	0.0	0.0	0.26	0.0	1.31	0.0	0.0	0.00	0.0	0.0				
25	0.0	0.04	1.14	0.0	0.0	0.0	0.52	0.16	0.0	0.0	0.0	0.0				
26	0.0	0.58	0.0	0.0	0.0	0.0	0.0	2.74	0.67	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.81	0.16	0.0	0.0	0.01	0.0	0.0	0.0				
28	0.0	0.0	0.38	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.56	0.15				
29	0.0	0.0	0.03	0.21	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.01				
30	0.0	0.0	0.0	0.20	0.0	0.0	0.18	0.03	0.0	0.0	0.0	0.63				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0				
TOTAL	4.25	5.61	3.85	3.21	2.87	4.47	2.63	7.33	3.24	0.62	1.77	4.88				
STA AV	3.73	4.82	4.90	4.91	4.67	3.22	3.78	3.78	4.69	2.39	4.15	5.29				

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-NC (p.62001-1). Daily precipitation values Thiessen weighted from rain gauges 10, 11, 20, 21 and 24. STA AV based on 15 yr (1957-71) record period.

1971 BEAN DAILY DISCHARGE (cfs)						OXFORD, MISSISSIPPI				WATERSHED #35			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	2.34	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	14.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	8.13	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	1.16	0.0	0.0	0.0	0.0	63.30	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	13.90	0.0	6.31	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	43.27	0.0	0.0	0.0	2.61	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.05	
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	127.53	0.0	0.0	20.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	18.96	15.14	0.0	5.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	3.0	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	7.43	
16	0.0	0.0	0.0	0.0	0.0	15.51	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	1.85	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.18	0.0	0.0	104.82	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	50.41	1.27	0.0	0.0	4.06	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	8.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	415.97	0.0	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	28.86	76.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	16.50	0.70	0.0	2.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	354.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	15.76	0.0	58.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.60	37.49	3.45	0.0	0.0	0.0	0.0	229.42	0.0	0.0	0.0	0.0	
27	0.0	0.36	0.0	0.0	0.0	0.0	0.0	11.78	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	3.85	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	0.19	
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	13.410	27.128	2.694	0.558	0.973	4.665	0.0	11.429	0.0	0.0	0.0	0.331	
INCRES	1.311	2.395	0.263	0.053	0.095	0.441	0.0	1.117	0.0	0.0	0.0	0.032	
STA AV	1.311	1.763	1.817	1.344	1.009	0.203	0.288	0.348	0.448	0.109	0.601	1.411	

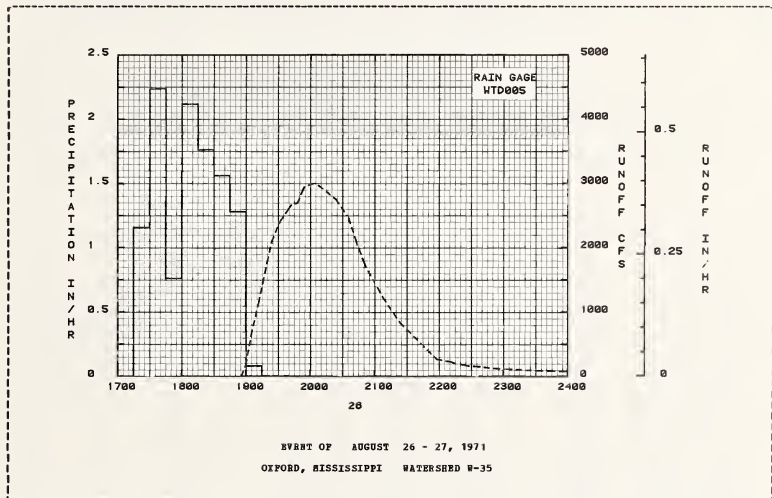
NOTES: To convert discharge in CFS to IN/DAI, multiply by 0.0031525. Quality of records: Fair, estimated to be within 15% of actual. STA AV based on 15 yr (1957-71) record period.

1971 SELECTED SNOBOP EVENT				OXFORD, MISSISSIPPI				WATERSHED #35			
ANTECEDENT CONDITIONS			RAINFALL				SNOBOP				
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 26 - 27, 1971											
8-26	8G WTD005	0.0	8-26	8G WTD005	0.0	0.0	8-26	1856	0.875	0.0	
				1715	0.0	0.0		1900	183.128	0.0008	
				1730	1.1600	0.29		1906	717.998	0.0066	
				1745	2.2400	0.85		1912	1145.999	0.0191	
				1800	0.7600	1.04		1916	1461.999	0.0305	
WATERSHED CONDITIONS:			1815	2.1200	1.57		1920	1785.997	0.0447		
About 31% of area in cultivation, primarily cotton,			1830	1.7597	2.01		1924	2103.998	0.0617		
corn, soybeans and ryegrass;			1845	1.5590	2.40		1932	2415.998	0.1011		
31% in pasture and idle land,			1900	1.2800	2.72		1942	2661.999	0.1571		
fair to good cover; 37% in woods, good cover; 1% in bare gullies.			1915	0.9800	2.74		1948	2977.999	0.1915		
			1930	0.0	2.74		1954	2937.998	0.2291		
			1945	0.0	2.74		2004	3009.999	0.2947		
			2000	0.0	2.74		2008	2961.998	0.3207		
							2024	2745.998	0.4203		
							2036	2451.999	0.4883		
							2044	2043.998	0.5275		
							2052	1695.998	0.5601		
							2108	1221.999	0.6118		
							2124	826.000	0.6475		
							2158	263.198	0.6880		
							2208	231.938	0.6935		
							2216	194.695	0.6972		
							2228	156.568	0.7018		
							2238	147.536	0.7052		
							2252	117.127	0.7092		
							2308	106.990	0.7132		
							2332	85.990	0.7182		
							2348	80.719	0.7211		
							2400	77.056	0.7232		
							8-27	42	61.600	0.7296	

NOTES: To convert runoff in CFS to IN/8R, 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 pp. 62.012-1 and 2.

1971 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-35						
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 26 - 27, 1971 (CONTINUED)												
									8-27	128	51.938	0.7353
										220	41.528	0.7406
										314	33.900	0.7451
										414	25.200	0.7490
										516	20.668	0.7522
										558	16.226	0.7539
										702	11.928	0.7559
										816	7.500	0.7575
										1032	3.000	0.7591
										1226	1.491	0.7597
										1906	0.296	0.7605

NOTES: To convert runoff in CFS to I²/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 pp. 62.012-1 and 2.



OXFORD, MISSISSIPPI WATERSHED #-17A

LOCATION: Marshall Co., Miss.: 7.8 mi. SW of Holly Springs on Conny road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 3200.00 acres 5.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI		WATERSHED #-17A		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1971	P	4.64	5.49	3.49	3.25	3.64	2.57	3.22	3.40	2.94	0.26	1.98	4.19	39.08			
	Q	1.165	2.517	0.018	0.037	0.043	0.041	0.027	0.053	0.012	0.0	0.0	0.046	3.959			
STA AV	P	3.48	4.53	4.81	5.15	3.97	2.77	4.24	4.47	3.98	2.18	3.51	5.32	48.41			
	Q	0.723	1.383	1.383	1.162	0.566	0.110	0.297	0.352	0.387	0.071	0.331	0.885	7.650			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (Inches) FOR SELECTED TIME INTERVALS																
	Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Fate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1971	2-21	0.213	2-21	0.211	2-21	0.421	2-21	1.105	2-21	1.672	2-21	2.138	2-21	2.200	2-18	2.272
	7-9	0.490	7-9	0.490	7-9	0.960	7-9	2.570	7-9	3.510	7-9	3.650	7-9	3.660	4-9	4.287
	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1969	1969

NOTES: Watershed conditions: About 14% of area in cultivation (cotton, soybeans and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 17% 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 are based on the latest survey completed in 1970. About 38% 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 Res. Pub. 985, 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 National Weather Service records at Holly Springs, 4N, Mississippi.

1971 DAILY PRECIPITATION (Inches)													OXFORD, MISSISSIPPI		WATERSHED #-17A	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.83	0.0	0.22	0.0	0.0	0.07	0.0	0.0	0.0				
2	0.0	0.0	0.23	0.0	0.02	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.42			
3	0.33	0.07	0.06	0.0	0.0	0.0	0.0	0.10	0.02	0.0	0.0	0.0	0.46			
4	0.30	0.72	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.00	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.02	0.15	0.0	0.19				
6	0.0	0.0	0.34	0.0	0.0	0.0	0.08	0.27	0.0	0.0	0.34	0.25				
7	0.0	0.07	0.0	0.0	0.22	0.10	0.0	0.0	0.22	0.0	0.0	0.01				
8	0.0	0.05	0.0	0.0	0.02	0.01	0.0	0.0	0.00	0.0	0.0	0.0				
9	0.0	0.0	0.15	0.0	0.0	0.0	0.04	0.56	0.0	0.0	0.06	1.16				
10	0.0	0.0	0.17	0.0	0.37	0.0	0.0	0.01	0.0	0.0	0.0	0.05				
11	0.02	0.0	0.0	0.0	0.10	0.0	0.0	0.32	0.0	0.0	0.0	0.0				
12	0.0	1.02	0.0	0.0	1.91	0.0	0.0	0.0	0.0	0.0	0.02	0.19				
13	0.0	0.0	0.30	0.02	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.01				
14	0.50	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.29				
15	0.0	0.0	0.22	0.0	0.0	0.05	0.0	0.0	0.0	0.00	0.0	0.64				
16	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.44	0.0	0.0	0.04				
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0				
18	0.0	0.0	0.46	0.10	0.0	1.06	0.0	0.06	0.0	0.0	0.88	0.0				
19	0.0	0.83	0.0	0.0	0.0	0.0	0.05	0.0	0.96	0.0	0.08	0.10				
20	0.0	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0				
21	0.30	2.27	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	1.71	0.0	0.0	0.14	0.0	0.0	0.0	0.41	0.0	0.0	0.02	0.0				
23	0.46	0.0	0.0	0.74	0.0	0.0	0.83	0.0	0.0	0.00	0.13	0.0				
24	1.02	0.0	0.0	0.0	0.78	0.0	1.56	0.0	0.0	0.09	0.0	0.0				
25	0.0	0.0	1.07	0.0	0.0	0.0	0.22	0.0	0.02	0.0	0.0	0.0				
26	0.0	0.47	0.0	0.0	0.0	0.0	0.01	1.13	0.65	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.19	0.05	0.0	0.0	0.03	0.0	0.0	0.0				
28	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.47	0.05				
29	0.0	0.07	0.21	0.0	0.00	0.11	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.0	0.12	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.33	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0				
TOTAL	4.64	5.49	3.49	3.25	3.64	2.57	3.22	3.40	2.94	0.26	1.98	4.19				
STA AV	3.48	4.53	4.81	5.15	3.97	2.77	4.24	4.47	3.98	2.18	3.51	5.32				

NOTES: For daily air temperatures in the vicinity, see table for Watershed #4C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gages 2, 17, 22 and 28. STA AV based on 14 yr (1958-71) record period.

1971	MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI					WATERSHED W-17A				
	May	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	3.82	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	0.19	0.0	0.0	0.0	0.0	0.06	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	0.06	0.0	0.0	0.0		
4	0.39	6.16	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	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
6	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.06	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	0.06	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.34	0.06	0.0	0.0	1.89		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.06	0.0	0.0	0.11		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
12	0.0	24.87	0.0	0.0	5.32	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
13	0.0	0.78	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.03		
14	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.05		
15	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	2.77		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.06	0.0	0.0	0.10		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.08		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.06	0.0	0.0	0.08		
19	0.0	6.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.08	0.0	0.0	0.08		
20	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.08		
21	0.0	205.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08		
22	58.26	88.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08		
23	17.76	3.02	0.0	1.00	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.08		
24	74.19	0.14	0.0	0.0	0.05	0.0	3.23	0.0	0.0	0.0	0.0	0.0	0.08		
25	4.75	0.05	2.33	0.0	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.08		
26	0.95	2.28	0.0	0.0	0.0	0.0	0.0	3.52	0.0	0.0	0.0	0.0	0.08		
27	0.32	0.05	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.08		
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	0.08		
29	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08		
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	0.08		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04		
MEAN	5.052	12.087	0.078	0.167	0.185	0.184	0.116	0.231	0.053	0.0	0.0	0.0	0.197		
INCRES	1.165	2.517	0.018	0.037	0.043	0.041	0.027	0.053	0.012	0.0	0.0	0.0	0.046		
STA AV	0.723	1.383	1.383	1.162	0.566	0.110	0.297	0.352	0.387	0.071	0.331	0.885			

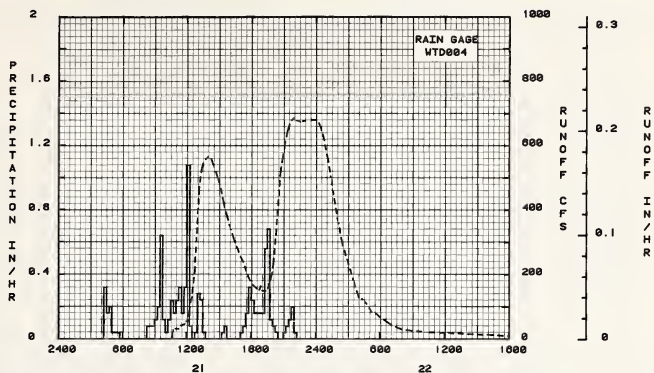
NOTES: To convert discharge in CFS to IN/DAI, multiply by 0.0074380. Quality of records: Poor, estimated to be within 20% of actual. STA AV based on 14 yr (1958-71) record period.

1971	SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI					WATERSHED W-17A				
	ANTECEDENT CONDITIONS			RAINFALL			SURF			BURNOFF					
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	Mo-Day	(in/hr)	(inches)	Mo-Day	Mo-Day	Mo-Day	(cfs)	(inches)	Mo-Day	Mo-Day	(inches)	
EVENT OF FEBRUARY 21 - 24, 1971															
RG WTD004															
2-21	0.0	0.0	2-21	RG WTD004	0.0	0.0	2-21	454	0.0	0.0					
				430	0.3200	0.08		640	0.078	0.0					
				445	0.1600	0.12		718	0.139	0.0					
				500	0.2000	0.17		904	0.139	0.0001					
				515	0.0400	0.18		942	0.139	0.0001					
WATERSHED CONDITIONS:															
				530	0.0800	0.19		1028	0.635	0.0002					
				545	0.0400	0.20		1038	3.432	0.0003					
				600	0.0	0.20		1046	27.280	0.0009					
				815	0.0	0.20		1058	31.959	0.0027					
				830	0.0800	0.22		1116	31.000	0.0056					
				945	0.0800	0.24		1128	41.995	0.0079					
				900	0.0800	0.26		1150	46.928	0.0130					
				915	0.1200	0.29		1158	54.226	0.0151					
				930	0.2000	0.34		1208	56.438	0.0180					
				945	0.6400	0.50		1214	85.000	0.0202					
				1000	0.1200	0.53		1228	129.437	0.0280					
				1015	0.0400	0.54		1244	208.119	0.0419					
				1030	0.1200	0.57		1300	374.000	0.0640					
				1045	0.2400	0.63		1308	472.000	0.0835					
				1100	0.1600	0.67		1318	518.000	0.1090					
				1115	0.2800	0.73		1330	544.000	0.1419					
				1130	0.3200	0.81		1346	558.000	0.1874					
				1145	0.1600	0.85		1358	566.000	0.2222					
				1200	0.3200	0.93		1414	558.000	0.2686					
				1215	1.0800	1.20		1432	532.000	0.3193					
				1230	0.0800	1.22		1446	506.000	0.3568					
				1245	0.0	1.22		1502	480.000	0.3975					
				1300	0.0400	1.23		1524	422.000	0.4488					
				1315	0.2800	1.30		1550	368.000	0.5018					
				1330	0.2403	1.36		1620	311.000	0.5545					

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 pp. 62.017-1 and 2.

1971			SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATTSBEE W-17A		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Fainfall (inches)	Funoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Fate (cfs)	Acc. (inches)	
EVENT OF FEBRUARY 21 - 24, 1971 (CONTINUED)											
2-21	1345	0.0400			1.37		2-21	1650	268.000	0.5994	
	1515	0.0			1.37			1714	236.000	0.6308	
	1530	0.0400			1.38			1742	192.751	0.6620	
	1545	0.0800			1.40			1808	167.128	0.6862	
	1630	0.0			1.40			1832	155.291	0.7062	
	1645	0.0002			1.40			1844	151.837	0.7157	
	1700	0.0002			1.40			1854	163.752	0.7239	
	1715	0.0400			1.41			1904	148.375	0.7320	
	1730	0.0800			1.43			1920	148.375	0.7443	
	1745	0.1600			1.47			1934	157.000	0.7553	
	1800	0.3200			1.55			1952	192.000	0.7715	
	1815	0.2400			1.61			2004	234.000	0.7847	
	1830	0.1600			1.65			2020	340.000	0.8094	
	1845	0.1600			1.69			2034	860.000	0.8373	
	1900	0.1600			1.73			2042	518.000	0.8575	
	1915	0.1592			1.77			2052	558.000	0.8853	
	1930	0.5600			1.91			2104	598.000	0.9212	
	1945	0.6800			2.08			2118	638.000	0.9659	
	2000	0.1200			2.11			2132	666.000	1.0134	
	2015	0.0800			2.13			2148	681.999	1.0688	
	2030	0.0404			2.14			2158	685.999	1.1041	
	2045	0.0			2.14			2212	678.000	1.1538	
	2100	0.0			2.14			2232	674.000	1.2232	
	2115	0.0400			2.15			2246	676.000	1.2720	
	2130	0.0800			2.17			2304	678.000	1.3350	
	2145	0.1200			2.20			2330	680.000	1.4262	
	2200	0.2000			2.25		2-22	2400	680.000	1.5316	
	2215	0.0400			2.26			16	670.000	1.5874	
	2230	0.0400			2.27			32	648.000	1.6418	
								46	616.000	1.6875	
								110	548.000	1.7596	
								130	477.998	1.8126	
								202	372.000	1.8828	
								232	288.000	1.9339	
								304	230.000	1.9767	
								334	175.759	2.0081	
								402	127.968	2.0301	
								420	125.000	2.0419	
								444	108.614	2.0564	
								514	82.584	2.0712	
								534	81.368	2.0797	
								602	66.352	2.0904	
								704	43.968	2.1081	
								802	30.055	2.1192	
								900	25.480	2.1275	
								1036	21.155	2.1391	
								1606	13.289	2.1684	
								2104	9.586	2.1860	
								2400	5.868	2.1930	
							2-23	2400	0.175	2.2155	
							2-24	2400	0.102	2.2165	

NOTES: To convert runoff in CFS to IS/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 pp. 62.017-1 and 2.



EVENT OF FEBRUARY 21 - 24, 1971
 OXFORD, MISSISSIPPI WATERSHED W-17A

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													
P	4.20	5.63	3.72	3.07	2.99	4.38	2.48	7.48	2.98	0.63	1.89	4.88	44.34													
Q	1.747	2.727	0.960	0.300	0.176	0.864	0.0	1.053	0.026	0.0	0.0	0.309	8.162													
STA AV P	3.46	4.67	5.02	4.75	4.38	2.95	3.95	3.85	4.17	2.31	3.79	5.33	48.63													
Q	1.473	1.959	2.266	1.401	1.055	0.246	0.425	0.482	0.420	0.123	0.572	1.598	12.019													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																										
	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.												
1971	6-18	0.511	6-18	0.462	6-18	0.676	6-18	0.789	2-21	0.952	2-21	1.235	2-21	1.302	2-24	1.750										
MAXIMUMS FOR PERIOD OF RECORD																										
	7-9	1.300	7-9	1.270	7-9	2.390	7-9	3.240	7-9	3.280	11-27	3.710	11-27	3.800	3-19	5.120										
	1967		1967		1967		1967		1967		1968		1968		1965											

NOTES: Watershed conditions: About 24% in cultivation (cotton, sorghans 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 6% of drainage area above small ditches and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 985, 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 1956. Maximum discharges and volumes were not computed prior to 1961; poor records 1957-60. For long-time precipitation records, see National Weather Service records at Holly Springs, 48, Mississippi.

1971 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-35A												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.59	0.0	0.40	0.0	0.08	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.15	0.0	0.00	0.0	0.0	0.0	0.0	0.01	0.0	0.0													
3	0.30	0.11	0.03	0.0	0.0	0.0	0.0	0.16	0.22	0.0	0.0	0.0													
4	0.30	0.71	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.02	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.51	0.0	0.0													
6	0.0	0.0	0.33	0.0	0.0	0.83	0.10	1.97	0.0	0.0	0.38	0.24													
7	0.0	0.07	0.0	0.0	0.22	1.07	0.0	0.02	0.0	0.0	0.0	0.00													
8	0.0	0.07	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	0.25	0.0	0.0	0.0	0.02	1.26	0.0	0.0	0.05	1.18													
10	0.0	0.0	0.20	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.03													
11	0.02	0.01	0.0	0.0	0.12	0.0	0.0	0.31	0.0	0.0	0.0	0.0													
12	0.0	1.09	0.0	0.0	1.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.81	0.03	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.04													
14	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39													
15	0.0	0.0	0.21	0.0	0.0	0.12	0.0	0.0	0.0	0.00	0.0	0.49													
16	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.70	0.0	0.0	0.03													
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	0.52	0.23	0.0	1.83	0.0	0.0	0.0	0.0	0.68	0.0													
19	0.0	0.76	0.0	0.0	0.0	0.0	0.03	0.0	1.26	0.0	0.06	0.08													
20	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0													
21	0.26	2.14	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.89	0.0	0.09	0.15	0.0	0.0	0.0	0.20	0.0	0.0	0.04	0.0													
23	0.40	0.0	0.38	0.0	0.38	0.0	0.17	0.0	0.0	0.10	0.11	0.0													
24	1.49	0.0	0.0	0.0	0.33	0.0	1.31	0.0	0.0	0.0	0.0	0.0													
25	0.0	0.03	1.12	0.0	0.0	0.0	0.51	0.0	0.00	0.0	0.0	0.0													
26	0.0	0.64	0.0	0.0	0.0	0.0	0.0	2.66	0.61	0.0	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.36	0.13	0.0	0.0	0.02	0.0	0.0	0.0													
28	0.0	0.0	0.38	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.56	0.15													
29	0.0	0.0	0.03	0.21	0.0	0.11	0.07	0.0	0.0	0.0	0.0	0.00													
30	0.0	0.0	0.0	0.18	0.0	0.0	0.15	0.03	0.0	0.0	0.0	0.63													
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0													
TOTAL	4.20	5.63	3.72	3.07	2.99	4.38	2.48	7.48	2.98	0.63	1.89	4.88													
STA AV	3.46	4.67	5.02	4.75	4.38	2.95	3.95	3.85	4.17	2.31	3.79	5.33													

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62001-1). Daily precipitation values Thiessen weighted from rain gages 3, 11, 24 and 26. STA AV based on 14 yr (1958-71) record period.

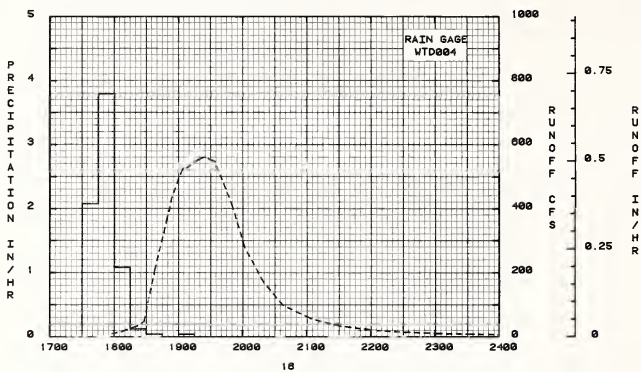
1971	MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI					WATERSHED W-35A				
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.075	0.0	1.133	2.752	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.037	0.0	0.917	2.104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.474	0.0	0.806	0.606	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	4.375	4.536	0.625	0.255	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	1.059	2.995	0.208	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.255	0.917	1.272	0.0	0.0	0.0	0.0	15.230	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.448	0.854	0.0	0.0	0.975	0.0	1.773	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.097	0.170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.057	0.0	0.126	0.0	0.0	0.0	0.0	2.160	0.0	0.0	0.0	0.0	3.773		
10	0.0	0.255	2.559	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.926		
11	0.0	0.939	1.021	0.0	0.0	0.0	0.0	0.175	0.0	0.0	0.0	0.0	0.0		
12	0.0	24.216	0.625	0.0	4.318	0.0	0.0	0.078	0.0	0.0	0.0	0.0	1.601		
13	0.0	2.797	3.708	0.0	3.276	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.683		
14	4.731	0.806	1.034	0.0	0.455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.234		
15	1.182	0.910	2.305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.486		
16	0.511	0.806	0.492	0.0	0.0	1.584	0.0	0.0	0.0	0.0	0.0	0.0	0.455		
17	0.293	0.388	0.037	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.037	0.037	0.548	0.0	0.0	36.195	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	8.259	2.155	0.0	0.0	0.822	0.0	0.0	0.425	0.0	0.0	0.0	0.0		
20	0.0	2.129	0.388	0.096	0.0	0.0	0.0	0.0	0.587	0.0	0.0	0.0	0.0		
21	0.015	50.229	0.037	5.762	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	9.254	9.516	0.0	0.451	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	5.608	1.858	0.0	1.472	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	47.442	1.034	0.0	0.255	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	2.698	0.806	14.851	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.939	7.896	1.899	0.0	0.0	0.0	0.0	28.099	0.162	0.0	0.0	0.0	0.0		
27	0.426	1.870	0.806	0.0	0.0	0.0	0.0	0.727	0.0	0.0	0.0	0.0	0.0		
28	0.208	1.133	1.456	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.075	0.806	2.835	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.037	0.806	0.917	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	0.388	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

MEAN 2.5803 4.4600 1.4186 0.4585 0.2597 1.3182 0.0 1.5562 0.0391 0.0 0.0 0.0 0.4568
 INCHES 1.747 2.727 0.860 0.300 0.176 0.864 0.0 1.053 0.026 0.0 0.0 0.0 0.309
 STA W 1.473 1.959 2.266 1.401 1.055 0.246 0.425 0.482 0.420 0.123 0.572 1.598

NOTES: To convert discharge in CFS to I/R/DAT, multiply by 0.0210364. Quality of records: Fair, estimated to be within 15% of actual. STA W based on 14 yr (1958-71) record period.

1971	SELECTED SUBOFF EVENT				OXFORD, MISSISSIPPI				WATERSHED W-35A			
	ANTECEDENT CONDITIONS		RAINFALL		SUBOFF		ANTECEDENT CONDITIONS		RAINFALL		SUBOFF	
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	No-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 18 - 19, 1971												
6-18	RG WZD004	0.001	6-18	RG WZD004	1730	0.0	0.0	6-18	1758	9.829	0.0	0.0
					1745	2.0800	0.52		1808	17.485	0.0021	0.0
					1800	3.8000	1.47		1822	35.000	0.0077	0.0
					1815	1.0800	1.74		1828	48.875	0.0115	0.0
					1830	0.1200	1.77		1838	208.995	0.0311	0.0
WATERSHED CONDITIONS:												
	About 24% of area in cultivation, primarily cotton, soybeans and corn; 45% in pasture and idle land, fair to good cover; 30% in woods, good cover; 1% in bare gullies.				1845	0.0400	1.78	1850	377.119	0.0884	0.0	0.0
					1900	0.0	1.78	1854	437.000	0.1091	0.0	0.0
					1915	0.0400	1.79	1904	527.000	0.1822	0.0	0.0
					1930	0.0	1.79	1908	527.000	0.2142	0.0	0.0
					1945	0.0	1.79	1918	552.000	0.2959	0.0	0.0
					2000	0.0	1.79	1924	562.000	0.3466	0.0	0.0
								1934	547.000	0.4307	0.0	0.0
								1950	412.000	0.5470	0.0	0.0
								2002	277.728	0.6097	0.0	0.0
								2020	168.000	0.6705	0.0	0.0
								2038	98.280	0.7068	0.0	0.0
								2104	56.120	0.7372	0.0	0.0
								2132	33.320	0.7562	0.0	0.0
								2200	21.320	0.7678	0.0	0.0
								2232	14.559	0.7765	0.0	0.0
								2302	10.313	0.7822	0.0	0.0
								2332	8.027	0.7864	0.0	0.0
								2400	6.059	0.7894	0.0	0.0
								46	4.025	0.7929	0.0	0.0
								150	2.874	0.7962	0.0	0.0
								302	2.350	0.7991	0.0	0.0
								432	1.408	0.8018	0.0	0.0
								730	0.511	0.8047	0.0	0.0
								1158	0.361	0.8064	0.0	0.0

NOTES: To convert runoff in CFS to I/R/SE, multiply by 0.0009098. Thiessen weighted storm rainfall, rain pages 3, 11, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62.018-1 and 2.



EVENT OF JUNE 18 - 19, 1971
OIFORD, MISSISSIPPI WATERSHED W-35A

1971 DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA WATERSHED #-1				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.03E	0.0	0.0	0.0				
2	0.01E	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.16E	0.0	0.0	0.0				
3	0.02E	0.0	0.0	0.0	0.0	0.0	0.01E	0.20E	0.05	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	0.08E	0.0	0.0				0.58E
5	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.01E	0.0	0.0	0.0				0.05E
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.0				0.00E
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.11E	0.0	0.0	0.0				0.14E
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0				0.00E
10	0.0	0.0	0.0	0.0	0.0	0.0	0.02	1.09E	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.13E	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.83E	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.11E	0.71E	0.00	0.0	0.0				0.24E
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0				0.03E
15	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.01	0.0	0.01E	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.04	0.00	0.01E	0.14E	0.0				
17	0.0	0.09E	0.0	0.0	0.0	0.0	0.06E	0.0	0.00	0.34E	0.0	0.0				
18	0.0	0.03E	0.0	0.20E	0.0	0.0	0.22E	1.11E	0.71E	0.00	0.0	0.0				0.18E
19	0.0	0.00	0.0	0.20E	0.0	0.0	0.04E	0.00	0.0	0.0	0.0	0.0				
20	0.0	0.10E	0.0	0.0	0.0	0.0	0.01	0.21E	0.0	0.0	0.0	0.0				
21	0.0	0.03E	0.0	0.0	0.0	0.0	0.13	0.09E	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	0.94E	0.0	0.0	0.0	0.0	0.0				0.00
24	0.0	0.01E	0.0	0.0	0.0	0.26E	0.47E	0.41E	0.0	0.45E	0.0	0.0				0.01
25	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0				0.01
27	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.19E	0.0	0.00	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.24E	0.15E	0.0	0.0	0.0	0.0				0.00
29	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.57E	0.0	0.0	0.0				0.01
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.01	0.0				
31	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.02	0.0	0.0	0.0	0.0				0.20E
TOTAL	0.03	0.26	0.0	0.45	0.00	0.26	2.88	4.87	1.64	1.55	0.16	1.44				
STA AV	0.25	0.60	0.71	0.25	0.11	0.09	3.23	4.06	1.19	0.45	0.24	0.73				

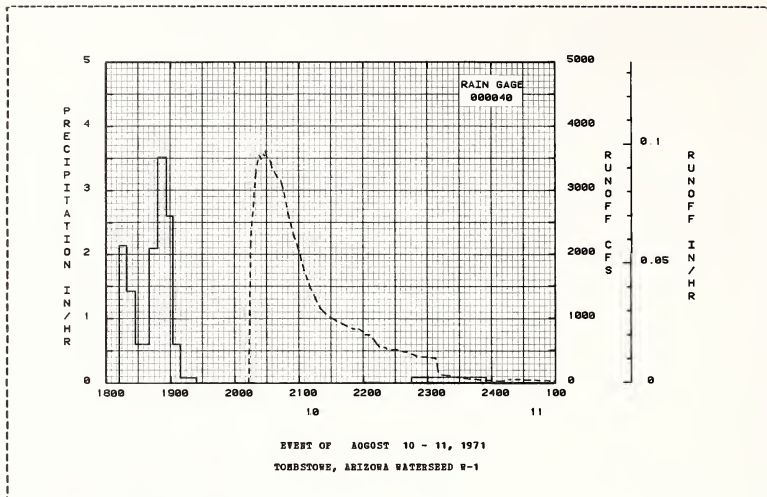
NOTES: Data are Thiessen weighted averages of values from 90 gauges. STA AV are for 4 yr only (1968-71).

1971 MEAN DAILY DISCHARGE (cfs)												TOMBSTONE, ARIZONA WATERSHED #-1				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25E	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.84E	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	2.02E	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	170.15E	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.14E	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.39	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.56E	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	61.19	0.51	0.0	0.0	0.0				
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.18E	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	0.09	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.48E	0.24	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	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	0.54	0.0	0.00	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	0.00	0.0	0.0	0.0	0.0				
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.939	10.447	0.053	0.065	0.0	0.0				
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.209	0.001	0.001	0.001	0.0				
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.005	0.005	0.000	0.0	0.0				

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV are for 5 yr only (1966, 1968-71). Previously published data are being reevaluated.

1971 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA WATERSHED W-1							
PRECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 10 - 11, 1971											
8-10	RG 000040 0.0	0.0	8-10	RG 000040 1812	0.0	0.0	8-10	2013	0.0	0.0	
				1819	2.1428	0.25		2015	2218.905	0.0010	
				1827	1.4250	0.44		2020	3324.083	0.0071	
				1840	0.6000	0.57		2023	3549.628	0.0118	
				1848	2.1000	0.85		2025	3484.413	0.0148	
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.				1856	3.5250	1.32		2027	3566.028	0.0181	
				1902	2.5998	1.58		2028	3533.265	0.0196	
				1909	0.6000	1.65		2029	3615.464	0.0211	
				1924	0.0900	1.67		2030	3516.983	0.0230	
				2245	0.0	1.67		2033	3468.206	0.0274	
				2355	0.0857	1.77		2035	3355.842	0.0306	
								2040	3198.611	0.0378	
								2043	3152.198	0.0421	
								2045	3030.126	0.0450	
								2050	2631.131	0.0512	
								2055	2302.896	0.0566	
								2100	2054.023	0.0616	
								2105	1742.708	0.0658	
								2110	1503.959	0.0694	
								2115	1324.177	0.0727	
								2120	1156.375	0.0754	
								2125	1066.729	0.0779	
								2130	1009.367	0.0803	
								2135	961.312	0.0825	
								2140	920.914	0.0846	
								2145	876.142	0.0867	
								2150	841.110	0.0886	
								2152	832.460	0.0893	
								2156	832.460	0.0908	
								2200	789.875	0.0923	
								2202	740.218	0.0929	
								2206	740.218	0.0942	
								2210	660.965	0.0955	
								2215	557.398	0.0969	
								2221	543.310	0.0983	
								2222	515.658	0.0985	
								2232	508.856	0.1008	
								2238	475.510	0.1021	
								2241	475.510	0.1027	
								2250	412.142	0.1045	
								2306	379.999	0.1073	
								2308	373.456	0.1077	
								2310	163.816	0.1079	
								2313	118.804	0.1081	
								2321	108.325	0.1085	
								2325	89.401	0.1087	
								2330	73.000	0.1089	
								2340	55.000	0.1092	
								2350	41.000	0.1094	
								2400	29.318	0.1096	
								8-11	7	22.980	0.1097
									12	34.716	0.1098
									16	52.848	0.1099
									18	52.848	0.1099
									32	42.850	0.1102
									101	22.980	0.1106
									130	11.551	0.1108
									203	4.154	0.1109
									231	1.000	0.1109
									308	0.0	0.1109

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.

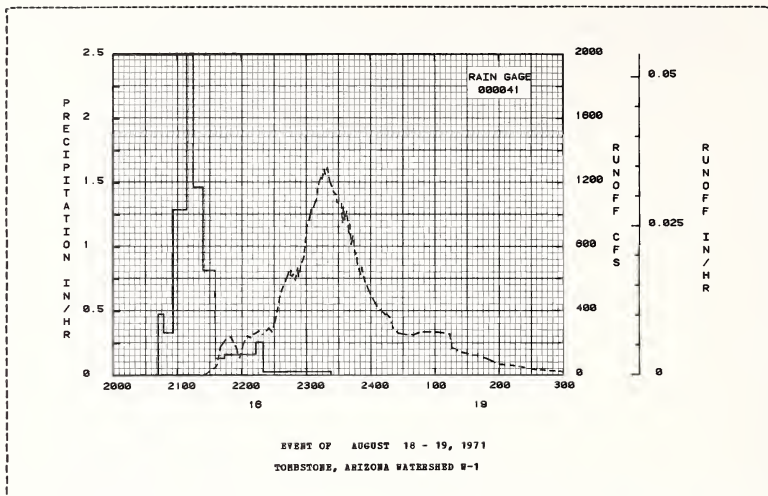


1971 SELECTED ROWOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1								
ANTECEDENT CONDITIONS			RAINFALL			ROWOFF					
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Rate (cfs)	Acc. (inches)		
EVENT OF AUGUST 18 - 19, 1971											
8-18	EG 000041	0.16	8-18	EG 000041	2042	0.0	0.0	8-18	2110	0.0	0.0
					2047	0.4800	0.04		2117	0.087	0.0
					2056	0.3333	0.09		2124	0.406	0.0
					2109	1.2923	0.37		2125	4.611	0.0
					2115	2.4998	0.62		2127	11.551	0.0
WATERSHED CONDITIONS:											
65% of area in desert shrubs (Whitethorn, creosotebush and tacubush) with 2% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (cross spread) and 5% shrub cover.											
					2124	1.4667	0.88		2130	27.980	0.0
					2135	0.6162	0.99		2135	48.698	0.0001
					2144	0.1333	1.01		2137	70.231	0.0001
					2213	0.1655	1.09		2140	179.885	0.0003
					2220	0.2571	1.12		2145	224.758	0.0008
					2242	0.0273	1.13		2150	239.839	0.0013
					2323	0.0293	1.15		2155	169.065	0.0018
									2158	108.225	0.0020
									2201	191.142	0.0022
									2205	244.985	0.0026
									2208	234.753	0.0029
									2212	260.780	0.0033
									2216	277.115	0.0038
									2219	258.455	0.0042
									2220	255.455	0.0043
									2225	293.990	0.0049
									2228	271.610	0.0053
									2230	311.412	0.0056
									2232	366.975	0.0059
									2235	462.481	0.0065
									2237	529.396	0.0069
									2239	557.398	0.0074
									2241	593.396	0.0079
									2244	645.682	0.0087
									2245	622.886	0.0090

NOTES: To convert runoff in CFS to I8/2E, multiply by 0.000269.

1971 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA WATERSHED N-1						
PRECEDENT CONDITIONS				RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (1/4/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 18 - 19, 1971 (CONTINUED)										
8-18										
							2246		653.281	0.0093
							2247		615.521	0.0096
							2248		630.492	0.0099
							2250		593.396	0.0105
							2252		668.690	0.0110
							2253		615.521	0.0113
							2255		676.464	0.0118
							2258		740.218	0.0128
							2301		936.908	0.0139
							2303		975.123	0.0147
							2305		1033.115	0.0156
							2307		1049.967	0.0165
							2310		1100.000	0.0180
							2312		1208.490	0.0191
							2314		1233.854	0.0201
							2315		1224.023	0.0207
							2317		1283.620	0.0216
							2318		1253.635	0.0223
							2320		1293.697	0.0235
							2322		1213.049	0.0246
							2324		1176.502	0.0257
							2326		1140.367	0.0267
							2328		1126.031	0.0278
							2329		1076.371	0.0283
							2331		1090.476	0.0293
							2333		1069.343	0.0302
							2334		949.239	0.0307
							2335		1044.362	0.0311
							2336		969.360	0.0315
							2337		989.725	0.0319
							2338		1020.628	0.0324
							2340		888.729	0.0332
							2341		939.270	0.0336
							2342		812.364	0.0341
							2344		866.464	0.0348
							2346		750.354	0.0356
							2347		760.469	0.0359
							2348		691.449	0.0362
							2351		626.568	0.0371
							2352		672.496	0.0374
							2355		581.771	0.0383
							2400		504.245	0.0396
							6		428.760	0.0408
							14		375.136	0.0422
							15		380.887	0.0424
							18		358.193	0.0429
							21		292.023	0.0433
							26		261.152	0.0439
							34		250.000	0.0448
							40		250.000	0.0455
							45		264.919	0.0461
							49		268.716	0.0466
							56		268.716	0.0474
							104		264.919	0.0488
							114		253.692	0.0495
							116		168.894	0.0497
							121		153.525	0.0501
							126		136.894	0.0504
							131		130.469	0.0507
							141		118.437	0.0512
							148		102.944	0.0515
							156		77.870	0.0518
							201		66.451	0.0520
							219		52.866	0.0525
							234		32.140	0.0528
							259		21.071	0.0531
							352		9.278	0.0535
							521		2.590	0.0537
							654		0.667	0.0538
							850		0.0	0.0538

NOTE: To convert runoff in CFS to I/R, multiply by 0.0000269.



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: 22100.00 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		
1971	P 0.03	0.25	0.0	0.45	0.00	0.32	3.09	5.07	1.62	1.51	0.17	1.44	13.94		
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.117	0.003	0.001	0.001	0.000	0.389		
STA AV	P 0.27	0.62	0.69	0.25	0.11	0.10	3.19	4.07	1.19	0.44	0.26	0.73	11.92		
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.051	0.117	0.010	0.000	0.000	0.000	0.179		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maxima Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		5 Days	
	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1971	8-10	0.134	8-10	0.109	8-10	0.142	8-10	0.153	8-10	0.154	8-10	0.154	8-10	0.154	8-10	0.221

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	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	0.430
	1959		1959		1969		1959		1964		1964		1964	

NOTES: Watershed Conditions: 55% of area in woodland and desert shrubs (whitethorn, creosotebush, tarbush and sotonal), with a 25% crown spread cover. 45% of area supports grass (black grass, curly mesquite, tobosa, blue grass and sideots grass), 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, USDA Misc. Pub. 1226. Precipitation Data: records began January 1954. Monthly totals are Thiessen weighted averages from 69 gages, station averages are for 4 yr only (1968-71). Runoff Data: Records began July 1959, station averages are based on 1966, 1968-71 data. Temperature Data: See table of daily maxima and minima value included for watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1971 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	0.0	0.0	0.0	0.0	0.0	0.17E	0.00	0.0	0.0	0.0					
2	0.01E	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.14E	0.0	0.0	0.0					
3	0.02E	0.0	0.0	0.0	0.0	0.0	0.02	0.1E	0.04	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	0.07E	0.0	0.59E					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.01E	0.0	0.0	0.05E					
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.0	0.0					
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.00E					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.10E	0.0	0.0	0.12E					
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00E					
10	0.0	0.0	0.0	0.0	0.0	0.0	0.02	1.27E	0.0	0.0	0.0	0.0					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.14E	0.0	0.0					
12	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.79	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	0.25E					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.02E					
15	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.01	0.0	0.01E	0.02E	0.0					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.03	0.00	0.01E	0.0	0.0					
17	0.0	0.08E	0.0	0.0	0.0	0.0	0.02E	0.0	0.00	0.35E	0.0	0.0					
18	0.0	0.04E	0.0	0.20E	0.0	0.0	0.28E	1.7E	0.73E	0.00	0.0	0.17E					
19	0.0	0.0	0.0	0.21E	0.0	0.0	0.03	0.00	0.0	0.0	0.0	0.0					
20	0.0	0.10E	0.0	0.0	0.0	0.0	0.02	0.19E	0.0	0.0	0.0	0.0					
21	0.0	0.03E	0.0	0.0	0.0	0.0	0.15	0.0E	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	1.08E	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.01E	0.0	0.0	0.0	0.32E	0.45E	0.3E	0.0	0.63E	0.0	0.0					
25	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.01					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.23E	0.0	0.00	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.0	0.0	0.30E	0.15E	0.0	0.0	0.0	0.00					
29	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.59E	0.0	0.0	0.02					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.01	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.00	0.0	0.0	0.0	0.20E					
TOTAL	0.03	0.25	0.0	0.45	0.00	0.32	3.09	5.07	1.62	1.51	0.17	1.44					
STA AV	0.27	0.62	0.69	0.25	0.11	0.10	3.19	4.07	1.19	0.44	0.26	0.73					

NOTES: Data are Thiessen weighted averages of values from 69 gages. STA AV are for 4 yr only (1968-71).

1971 SEAN DAILY DISCHARGE (cfs)												TOMBSTONE, ARIZONA WATERSHED #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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.07	0.04	0.01	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	0.11	0.05	0.04	0.01	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	0.11	0.04	0.04	0.01	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.05	0.03	0.03	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.05	0.03	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.04	0.03	0.04	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.04	0.03	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	0.07	0.04	0.03	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.04	0.03	0.02	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.05	0.03	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.05	0.03	0.01	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.04	0.03	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.04	0.03	0.01	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.04	0.03	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.04	0.03	0.01	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.91E	0.07	0.04	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.91E	0.07	0.04	0.03	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.13E	0.06	0.04	0.03	0.01	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.04	0.03	0.01	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.43	0.05	0.04	0.03	0.01	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.04	0.03	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.24E	0.05	0.04	0.03	0.01	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.24E	0.05	0.04	0.03	0.01
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.05	0.04	0.03	0.01	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.05	0.04	0.03	0.01
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.05	0.04	0.03	0.01	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.05	0.04	0.03	0.01
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.04	0.03	0.01	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.04	0.03	0.01
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.05	0.03	0.01	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.05	0.03	0.01
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.35E	7.35	0.04	0.03	0.02	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.35E	7.35	0.04	0.03	0.02	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.75E	0.13	0.04	0.03	0.01	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.75E	0.13	0.04	0.03	0.01	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.28E	0.08	0.03	0.03	0.00	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.28E	0.08	0.03	0.03	0.00	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55E	0.07	0.04	0.03	0.00	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55E	0.07	0.04	0.03	0.00	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.07	0.04	0.03	0.00	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.07	0.04	0.03	0.00	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.36	0.11	0.05	0.04	0.03	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.36	0.11	0.05	0.04	0.03	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.47E	8.58	0.04	0.06	0.03	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.47E	8.58	0.04	0.06	0.03	0.00
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.18	0.04	0.06	0.03	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.18	0.04	0.06	0.03	0.00
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.04	0.04	0.03	0.00	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.04	0.04	0.03	0.00	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.04	0.04	0.03	0.00	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.04	0.04	0.03	0.00	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.04	0.04	0.03	0.00	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.04	0.04	0.03	0.00	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.04	0.03	0.03	0.00	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.04	0.03	0.03	0.00	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.08	0.04	0.02	0.00	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.08	0.04	0.02	0.00	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.04	0.04	0.01	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.04	0.04	0.01	0.01
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	2.34E	12.057	0.334	0.046	0.027	0.011	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	2.34E	12.057	0.334	0.046	0.027	0.011	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.317	0.008	0.001	0.001	0.000	INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.317	0.008	0.001	0.001	0.000	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.051	0.117	0.010	0.000	0.000	0.000	STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.051	0.117	0.010	0.000	0.000	0.000	0.000

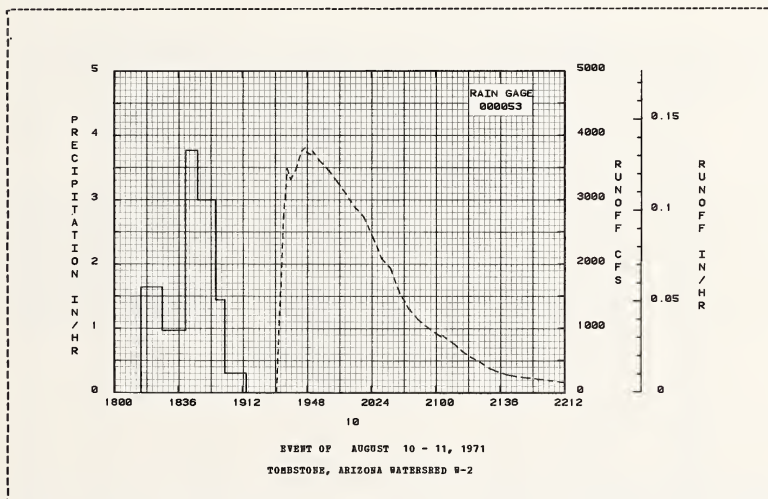
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000887. STA AV are based on 1966, 1968-71 data.

1971 SELECTED SNOWOFF EVENT												TOMBSTONE, ARIZONA WATERSHED #2											
PRECEDENT CONDITIONS				RAINFALL				SNOWOFF															
Date No-Day	Rainfall (inches)	Rmoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)													
EVENT OF AUGUST 10 - 11, 1971																							
RG 000053																							
8-10	0.0	0.0	8-10	1815	0.0	0.0	8-10	1931	0.0	0.0													
				1827	1.6500	0.33		1935	2716.094	0.0032													
				1840	0.9693	0.54		1937	3487.234	0.0066													
				1847	3.7714	0.98		1939	3310.998	0.1008													
				1857	2.9999	1.48		1942	3472.315	0.0169													
WATERSHED CONDITIONS:																							
Oak woodland and desert shrubs (Whiteoak, creosotebush, tarbush, and wortonia) 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 sideoats grama) with a basal area of 2.5% cover, and a shrub cover of approximately 6% crown spread.																							
			1902	1.4401	1.60		1945	3761.520	0.0234														
			1914	0.3000	1.66		1947	3608.289	0.0276														
							1948	3730.510	0.0297														
							1950	3695.631	0.0343														
							1951	3761.520	0.0364														
							1955	3607.400	0.0450														
							2000	3457.428	0.0557														
							2005	3281.393	0.0655														
							2010	3082.086	0.0747														
							2015	2875.773	0.0837														
							2020	2729.219	0.0918														
							2025	2411.002	0.0992														
							2030	2078.922	0.1060														
							2035	1920.728	0.1118														
							2040	1539.961	0.1168														
							2045	1301.787	0.1211														
							2050	1134.989	0.1246														
							2055	1019.865	0.1277														
							2100	916.946	0.1306														
							2103	865.831	0.1321														
							2104	882.815	0.1327														
							2110	760.205	0.1355														
							2115	634.137	0.1376														
							2120	540.340	0.1393														
							2125	467.007	0.1408														

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.

1971 SELECTED RUNOFF EVENT			TOBSTONE, ARIZONA WATERSHED #2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 10 - 11, 1971 (CONTINUED)										
				8-10	2130		373.198		0.1421	
					2135		318.178		0.1431	
					2140		272.738		0.1440	
					2145		267.500		0.1448	
					2150		227.602		0.1455	
					2200		197.759		0.1468	
					2215		153.008		0.1483	
					2230		123.350		0.1495	
					2300		79.818		0.1513	
					2331		51.378		0.1525	
				8-11	2400		33.610		0.1532	
					30		21.138		0.1537	
					100		13.588		0.1540	
					130		9.138		0.1542	
					202		6.192		0.1543	
					259		3.593		0.1545	
					459		1.828		0.1547	
					850		0.680		0.1549	
					1149		0.357		0.1550	
					2400		0.075		0.1551	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.



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												
1971	P 0.02	0.28	0.0	0.36	0.0	0.13	3.06	4.93	1.55	1.66	0.18	1.37	13.53												
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.091	0.497	0.012	0.0	0.0	0.0	0.599												
STA AV	P 0.50	0.39	0.44	0.16	0.08	0.21	3.42	3.18	1.33	0.50	0.40	0.79	11.41												
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.125	0.028	0.0	0.0	0.0	0.180												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Minimum Discharge												Maximum Volume for Selected Time Interval													
Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																	
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1971	8-10	0.468	8-10	0.275	8-10	0.312	8-11	0.320	8-11	0.320	8-11	0.320	8-10	0.320	8-10	0.320	8-10	0.426							
MAXIMUMS FOR PERIOD OF RECORD																									
1958																									
8-16 0.580 8-10 0.275 8-10 0.312 8-11 0.320 8-11 0.320 8-11 0.320 8-11 0.320 8-10 0.320 8-10 0.320 8-10 0.426																									

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.5% cover occupy 55% of the area. Grasses (black grass, curly mesquite, tobosca) with basal area of 2.5% 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 are based on record period (1955-71). Runoff Data: Records began 1958, station averages are based on record period (1958-71). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1971 DAILY PRECIPITATION (inches)													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	0.14	0.01	0.0	0.0	0.0												
2	0.01E	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.10E	0.0	0.0	0.0												
3	0.00E	0.0	0.0	0.0	0.0	0.0	0.0	0.11	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	0.00E	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	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	0.23	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.08E	0.0	0.0	0.11E												
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.31	0.0	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.11E	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	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	0.24E												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.02E												
15	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.01	0.0	0.0	0.04E	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.00	0.0	0.00	0.13E	0.0												
17	0.0	0.15E	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.40E	0.0	0.0												
18	0.0	0.05E	0.0	0.18E	0.0	0.0	0.07E	1.08	0.88E	0.0	0.0	0.18E												
19	0.0	0.0	0.0	0.14E	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0												
21	0.0	0.02	0.0	0.0	0.0	0.0	0.12	0.26E	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	1.12E	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.13E	0.67E	0.43	0.0	0.64E	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.01												
27	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.32	0.0	0.01	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.02	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.47E	0.0	0.0	0.01												
30	0.0	0.39	0.44	0.16	0.08	0.21	3.42	3.18	1.33	0.50	0.40	0.79												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.20												
TOTAL	0.02	0.28	0.0	0.36	0.0	0.13	3.06	4.93	1.55	1.66	0.18	1.37												
STA AV	0.50	0.39	0.44	0.16	0.08	0.21	3.42	3.18	1.33	0.50	0.40	0.79												

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV are based on record period (1955-71).

1971 REAN 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	0.0	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	29.850E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001E	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.419E	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044E	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	6.396E	1.081E	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002E	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	0.033	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	4.551	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	3.919E	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 T	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	0.001	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	0.2732	1.4950	0.0361	0.0	0.0	0.0
INCREAS	0.0	0.0	0.0	0.0	0.0	0.0	0.091	0.497	0.012	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.125	0.028	0.0	0.0	0.0

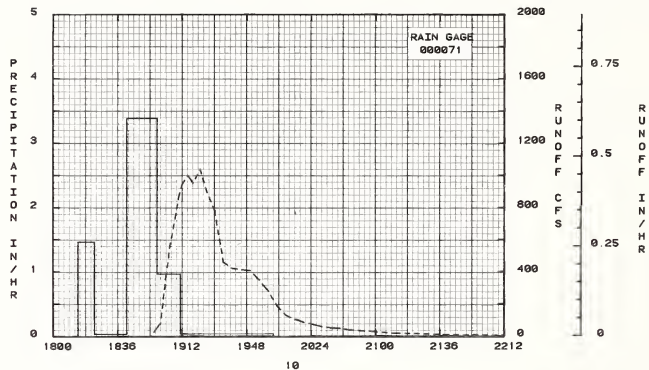
NOTES: To convert mean daily discharge in CFS to I#/DAY, multiply by 0.010726. STA AV based on record period (1958-71).

1971 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA WATERSHED W-3							
ANTECEDENT Ro-Day	CONDITIONS		Date Ro-Day	RAINFALL			Date Ro-Day	RUNOFF			
	Rainfall (inches)	Runoff (inches)		Time of Day	Intensity (in/hr)	Acc. (inches)		Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 10 - 11, 1971											
8-10	0.0	0.0	8-10	1814	0.0	0.0	8-10	1853	0.0	0.0	
				1823	1.4666	0.22		1855	0.437	0.0	
				1841	0.0333	0.23		1857	40.026	0.0003	
				1858	3.3882	1.19		1900	84.969	0.0017	
				1911	0.9693	1.40		1903	369.830	0.0065	
WATERSHED CONDITIONS:											
Vegetative Cover: Desert shrubs (whitethorn, creosote-bush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.5% cover, occupy 55% of the area.											
Grasses (black grass, curly mesquite, tobosa) with a basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area.											
			2003	0.0346	1.43		1905	551.339	0.0137		
							1908	733.284	0.0283		
							1910	864.261	0.0395		
							1912	942.752	0.0537		
							1915	1000.000	0.0757		
							1918	952.187	0.0961		
							1922	1039.115	0.1256		
							1925	919.350	0.1478		
							1930	780.187	0.1804		
							1935	459.198	0.2031		
							1940	421.408	0.2192		
							1950	406.069	0.2502		
							1955	348.043	0.2640		
							2000	279.875	0.2761		
							2005	185.568	0.2846		
							2010	128.754	0.2904		
							2015	102.756	0.2948		
							2020	84.969	0.2982		
							2025	72.283	0.3011		
							2030	58.129	0.3036		
							2035	50.443	0.3056		
							2040	48.014	0.3074		
							2045	38.950	0.3091		
							2051	32.830	0.3107		
							2101	23.891	0.3128		

NOTES: To convert runoff in CFS to I#/HR, multiply by 0.000447.

1971 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED R-3							
PRECEDENT 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 10 - 11, 1971 (CONTINUED)										
							8-10	2111	17.805	0.3183
								2141	8.838	0.3172
								2211	4.157	0.3186
								2242	1.852	0.3193
								2344	0.281	0.3198
							8-11	2400	0.047	0.3198
								52	0.0	0.3198

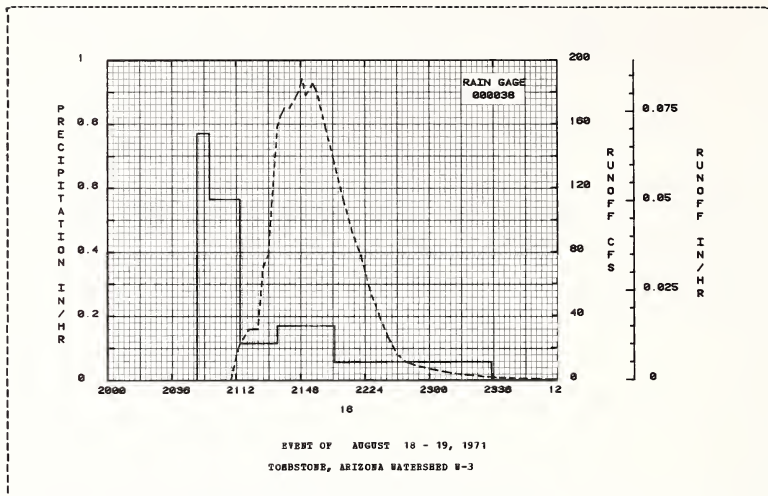
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.

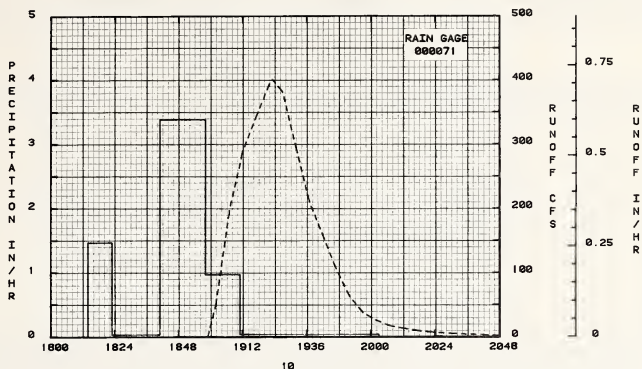


EVENT OF AUGUST 10 - 11, 1971
TOMBSTONE, ARIZONA WATERSHED R-3

1971 SELECTED RUNOFF EVENT				TORBSTORE, ARIZONA WATERSHED W-3							
PRECEDENT 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 18 - 19, 1971											
RG 000038			RG 000038								
8-18	0.53	0.0	8-18	2050	0.0	0.0	8-18	2102	0.0	0.0	
				2057	0.7714	0.09		2106	0.161	0.0	
				2114	0.5647	0.25		2109	0.217	0.0	
				2135	0.1183	0.29		2112	15.098	0.0002	
				2207	0.1688	0.38		2114	23.083	0.0005	
WATERSHED CONDITIONS:											
Vegetative cover: Desert			2302			0.0585			0.43		
shrubs (whitethorn, creosote-			2335			0.0585			0.46		
bush, 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 a											
basal area of 2.6% cover											
and shrub cover of 2% occupy											
the remaining 45% of the											
area.											
				2117				2117	28.166	0.0011	
				2119				2119	31.866	0.0016	
				2124				2124	31.866	0.0028	
				2127				2127	70.791	0.0040	
				2130				2130	78.422	0.0057	
				2132				2132	112.367	0.0070	
				2135				2135	158.084	0.0101	
				2137				2137	185.335	0.0124	
				2139				2139	170.271	0.0150	
				2142				2142	170.271	0.0189	
				2147				2147	180.387	0.0253	
				2149				2149	188.190	0.0282	
				2151				2151	177.827	0.0306	
				2155				2155	185.568	0.0362	
				2157				2157	180.387	0.0391	
				2202				2202	158.084	0.0453	
				2207				2207	135.224	0.0507	
				2212				2212	112.367	0.0555	
				2217				2217	91.856	0.0592	
				2222				2222	76.862	0.0623	
				2227				2227	55.500	0.0648	
				2232				2232	40.026	0.0666	
				2237				2237	26.410	0.0678	
				2242				2242	15.751	0.0666	
				2247				2247	10.952	0.0691	
				2252				2252	8.911	0.0695	
				2302				2302	6.284	0.0701	
				2312				2312	4.157	0.0705	
				2322				2322	2.750	0.0708	
				2337				2337	1.306	0.0710	
				2352				2352	0.530	0.0711	
				2400				2400	0.281	0.0711	
				8-19				8-19	7	0.115	
									25	0.0	
										0.0711	

NOTES: To convert runoff in CFS to I_R/HR, multiply by 0.000447.





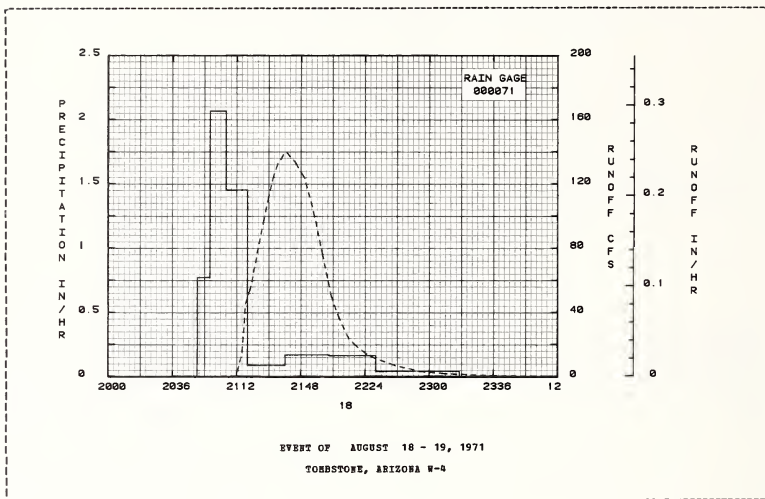
EVENT OF AUGUST 10 - 11, 1971
TONESTONE, ARIZONA W-4

1971 SELECTED RUNOFF EVENT			TONESTONE, ARIZONA W-4							
PRECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 18 - 19, 1971										
8-18	RG 000071 0.28	0.0	8-18	RG 000071 2050	0.0	0.0	8-18	2058	0.0	0.0
				2057	0.7718	0.09		2110	0.275	0.0
				2106	2.0667	0.40		2112	0.359	0.0
				2118	1.4500	0.69		2115	15.446	0.0007
				2139	0.0857	0.72		2117	45.416	0.0024
WATERSHED CONDITIONS: 100% of area dominated by desert shrubs (whitethorns, creosotebush and tarbush) with a crown spread of approximately 33% and an understorey of grasses with approximately 0.6% basal cover.				2204	0.1680	0.79		2120	56.230	0.0070
				2230	0.1615	0.86		2123	73.969	0.0129
				2317	0.0383	0.89		2125	85.931	0.0173
							2127	96.816	0.0230	
							2130	112.988	0.0328	
							2133	126.324	0.0423	
							2135	132.689	0.0504	
							2137	135.921	0.0578	
							2138	138.094	0.0625	
							2140	139.186	0.0702	
							2145	132.689	0.0909	
							2150	123.191	0.1095	
							2155	102.198	0.1259	
							2200	76.309	0.1385	
							2205	50.044	0.1487	
				2210	34.878	0.1549				
				2215	23.321	0.1593				
				2220	18.051	0.1623				
				2225	13.787	0.1646				
				2230	11.040	0.1665				
				2241	6.660	0.1693				
				2255	3.122	0.1713				
				2310	1.546	0.1723				
				2338	0.275	0.1731				
				2400	0.057	0.1732				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.

1971 SELECTED RUNOFF EVENT			TOBSTONE, ARIZONA W-5								
PRECEDENT 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 18 - 19, 1971 (CONTINUED)											
							8-19	5	0.012	0.1732	
								18	0.0	0.1732	

NOTES: To convert runoff in CFS to I²/SR, multiply by 0.001771.



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				
1971	P 0.03	0.24	0.0	0.46	0.00	0.36	3.14	5.01	1.63	1.49	0.17	1.44	13.98				
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.321	0.008	0.0	0.0	0.0	0.382				
STA AV	P 0.27	0.63	0.68	0.26	0.11	0.11	3.24	4.09	1.17	0.43	0.26	0.74	11.99				
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.113	0.008	0.0	0.0	0.0	0.177				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF FLOWOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	8-10	0.152	8-10	0.119	8-10	0.155	8-10	0.176	8-10	0.176	8-11	0.176	8-10	0.176	8-10	0.220
MAXIMUMS FOR PERIOD OF RECORD																
	8-10	0.152	8-10	0.119	8-10	0.155	8-10	0.176	8-10	0.176	8-11	0.176	8-10	0.176	8-10	0.220
1971			1971		1971		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: Vegetative cover: Oak woodland and desert shrubs (whiteoak, creosotebush, tarbush, ironwood, etc.) approximately 45% of area, with a crown spread of 25% cover. The remaining 55% of the area has 2.5x co559000 a grass cover (black grass, curly mesquite, tobosa, blue grass, and sideoats grass) with a basal area of 2.5x co559000 and a shrub cover of approximately 6% crown spread. For topographic, geologic and vegetative maps, see pages 63 103 0 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States 000 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1962. Monthly totals are Thiessen weighted averages of values from 57 gages, station averages are based on 1968-1971 record period. Runoff Data: Records began 000000 1962; station averages based on 5 yr of data (1966, 1968-71). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service 000000 records at Tombstone, Arizona. 000000

1971	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	0.0	0.0	0.0	0.0	0.0	0.15E	0.00	0.0	0.0	0.0					
2	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0					
3	0.02E	0.0	0.0	0.0	0.0	0.0	0.02E	0.18E	0.05	0.0	0.0	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.59E					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.01	0.0	0.0	0.05E					
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.0	0.0					
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.01E					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.10E	0.0	0.0	0.12E					
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E					
10	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.27E	0.0	0.0	0.0	0.0					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.14E	0.0	0.0					
12	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.73	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	0.25E					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.0	0.02E					
15	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01	0.0	0.01E	0.02	0.0					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.03	0.00	0.00E	0.15E	0.0					
17	0.0	0.06E	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.34E	0.0	0.0					
18	0.0	0.09E	0.0	0.20E	0.0	0.0	0.33E	1.18E	0.73E	0.00	0.0	0.17E					
19	0.0	0.00	0.0	0.22E	0.0	0.0	0.02	0.00	0.0	0.0	0.0	0.0					
20	0.0	0.10E	0.0	0.0	0.0	0.0	0.02	0.18E	0.0	0.0	0.0	0.0					
21	0.0	0.03E	0.0	0.0	0.0	0.0	0.18	0.05E	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	1.06E	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.01E	0.0	0.0	0.0	0.36E	0.41E	0.41E	0.0	0.63E	0.0	0.0					
25	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.02					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.22E	0.0	0.00	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	0.18E	0.0	0.0	0.0	0.00					
29	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.60E	0.0	0.0	0.02					
30	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.01	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.01	0.0	0.0	0.0	0.20E					
TOTAL	0.03	0.24	0.0	0.46	0.00	0.36	3.14	5.01	1.63	1.49	0.17	1.44					
STA AV	0.27	0.63	0.68	0.26	0.11	0.11	3.24	4.09	1.17	0.43	0.26	0.74					

NOTES: Daily precipitation are Thiessen weighted averages of values from 57 gages. STA AV based on 4 yr only 000000 (1968-71). 000000

1971 REAF 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	0.00	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	173.49E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54E	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.68	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.66E	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	87.87E	5.66	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.38E	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.98	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	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	41.39E	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.73E	4.81E	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	2.36	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	2.43	0.16E	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	1.85E	0.0	2.57	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
REAF	0.0	0.0	0.0	0.0	0.0	0.0	1.691	10.210	0.274	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.321	0.008	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.113	0.008	0.0	0.0	0.0

NOTES: To convert reaf daily discharge in CFS to IN/DAY, multiply by 0.001013. STA AV based on record period 000000 (1966, 1968-71). 000000

1971 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-6					
PRECEDENT 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 10 - 11, 1971											
8-10	EG 000041 0.0	0.0	8-10	1815	0.0	0.0	8-10	1853	0.0	0.0	
				1828	2.2001	0.33		1855	0.362	0.0	
				1834	0.8400	0.47		1900	4.833	0.0	
				1839	2.6402	0.69		1905	257.190	0.0005	
				1846	0.6857	0.77		1911	677.949	0.0024	
WATERSHED CONDITIONS:											
Vegetative Cover: Oak											
woodland and desert shrubs											
(whitethorn, creosotebush,											
tarbush, sotonia) occupy											
approximately 45% of the											
area, with a crown spread											
of 25% cover. The remaining											
5% of the area supports a											
grass cover (black grass,											
curly mesquite, tobosa, blue											
grass, and sideots grass)											
with basal area of 2.5% cover											
and shrub cover of 6% crown											
spread.											
				1922	0.3000	1.83		1933	3537.614	0.0402	
				2101	0.0121	1.85		1936	3599.986	0.0478	
								1943	3814.487	0.0599	
								1946	3281.400	0.0720	
								1951	3115.768	0.0831	
								1956	2835.037	0.0934	
								2002	2607.532	0.1051	
								2007	2191.460	0.1134	
								2012	1772.562	0.1206	
								2017	1477.797	0.1262	
								2022	1246.740	0.1309	
								2027	1072.232	0.1351	
								2032	971.121	0.1386	
								2037	873.791	0.1418	
								2042	791.270	0.1448	
								2047	730.547	0.1474	
								2053	666.524	0.1504	
								2058	574.529	0.1525	
								2103	496.521	0.1544	
								2108	448.099	0.1561	

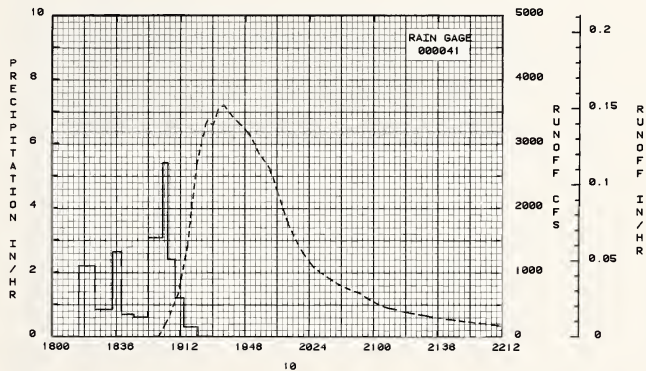
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042.

000000

1971 SELECTED ROROFF EVENT			TOBBSTONE, ARIZONA #6								
PRECEDENT CONDITIONS			RAINFALL			ROROFF					
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 10 - 11, 1971 (CONTINUED)											
							8-10	2113	417.450	0.1576	
								2118	384.195	0.1590	
								2123	358.208	0.1603	
								2128	334.551	0.1615	
								2133	307.965	0.1626	
								2143	266.460	0.1646	
								2154	230.662	0.1665	
								2204	194.511	0.1680	
								2219	162.311	0.1699	
								2235	138.744	0.1716	
								2305	76.000	0.1739	
								2336	29.895	0.1751	
								2400	18.160	0.1755	
							8-11	7	15.012	0.1756	
								38	8.044	0.1759	
								110	3.399	0.1760	
								138	1.347	0.1760	
								210	0.461	0.1760	
								315	0.057	0.1760	
								400	0.029	0.1760	
								841	0.0	0.1760	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042.

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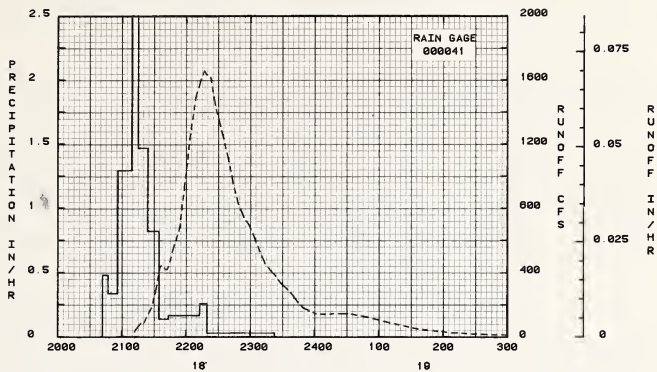


EVENT OF AUGUST 10 - 11, 1971
TOBBSTONE, ARIZONA #6

1971 SELECTED RUNOFF EVENT			TORNSTONE, ARIZONA R-6								
PRECEDENT 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 18 - 19, 1971											
8-18	RG 000041	0.16	0.010	8-18	RG 000041		8-18	2055	0.029	0.0	
					2042	0.0		2103	1.347	0.0	
					2047	0.4800	0.04	2108	1.994	0.0	
					2056	0.3333	0.09	2110	2.506	0.0	
					2109	1.2923	0.37	2113	41.242	0.0	
					2115	2.4998	0.62				
WATERSHED CONDITIONS:											
Vegetative Cover: Oak											
woodland and desert shrubs											
(whitebush, creosotebush,											
tarbush, sotolias) 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 a basal area of 2.5%											
cover and shrub cover of 6%											
crown spread.											
					2124	1.4667	0.84	2118	84.183	0.0002	
					2135	0.8162	0.99	2121	86.510	0.0004	
					2144	0.1333	1.01	2123	120.000	0.0006	
					2213	0.1655	1.09	2128	180.161	0.0011	
					2220	0.2571	1.12	2133	321.158	0.0020	
					2242	0.0273	1.13	2136	437.810	0.0028	
					2323	0.0293	1.15	2137	441.229	0.0031	
								2140	427.594	0.0040	
								2141	417.450	0.0043	
								2142	417.450	0.0046	
								2144	437.810	0.0052	
								2148	944.647	0.0066	
								2154	672.227	0.0092	
								2159	957.999	0.0120	
								2204	1264.792	0.0160	
								2209	1495.386	0.0208	
								2214	1603.258	0.0262	
								2217	1658.691	0.0297	
								2219	1630.852	0.0321	
								2223	1612.427	0.0366	
								2227	1442.985	0.0409	
								2231	1337.927	0.0448	
								2234	1258.763	0.0476	
								2239	1117.258	0.0517	
								2244	951.469	0.0553	
								2249	822.530	0.0585	
								2254	742.500	0.0612	
								2259	695.267	0.0637	
								2304	616.305	0.0661	
								2309	529.990	0.0681	
								2314	455.000	0.0698	
								2319	414.086	0.0714	
								2324	377.646	0.0728	
								2329	331.185	0.0740	
								2335	294.968	0.0753	
								2340	257.190	0.0763	
								2345	212.363	0.0772	
								2350	177.574	0.0779	
								2355	162.131	0.0785	
								2400	147.149	0.0791	
								8-19	2	141.521	0.0793
								6	138.744	0.0797	
								15	141.521	0.0806	
								18	144.323	0.0809	
								31	144.323	0.0822	
								35	138.744	0.0826	
								46	125.231	0.0836	
								56	110.455	0.0844	
								106	93.000	0.0851	
								137	46.903	0.0866	
								209	24.030	0.0874	
								237	15.012	0.0878	
								308	9.705	0.0881	
								338	6.097	0.0883	
								410	3.731	0.0884	
								516	1.347	0.0885	
								612	0.573	0.0885	
								810	0.143	0.0885	
								948	0.002	0.0885	

NOTES: To convert runoff in CFS to I³/HR, multiply by 0.000042.

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EVENT OF AUGUST 18 - 19, 1971
TOMBSTONE, ARIZONA W-6

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													
1971	P	0.02	0.27	0.0	0.51	0.0	0.20	2.49	5.31	1.64	1.52	0.18	1.48	13.62												
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.051	0.413	0.017	0.0	0.0	0.0	0.481												
STA AV	P	0.25	0.68	0.62	0.25	0.10	0.07	2.53	4.31	1.27	0.45	0.27	0.74	11.54												
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.171	0.015	0.0	0.0	0.0	0.236												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	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.	
1971	8-10	0.332	8-10	0.130	8-10	0.148	8-11	0.152	8-11	0.152	8-11	0.152	8-10	0.152	8-10	0.285

MAXIMUMS FOR PERIOD OF RECORD																
Date	Discharge Rate	1 Hour Vol.	2 Hours Vol.	6 Hours Vol.	12 Hours Vol.	1 Day Vol.	2 Days Vol.	8 Days Vol.								
1964	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

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 grass, curly mesquite, sidonate grass) 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, USDA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 17 gages, station averages are based on 1968-71 data. Ecnoff Data: Records began 1963, station averages are based on 1966, 1968-71 data. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1971 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	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.00	0.0	0.0	0.0													
2	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.09	0.0	0.0	0.0													
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.16	0.01	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	0.08	0.0	0.0	0.59E												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.05E												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	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	0.17	0.0	0.0	0.00												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.1a	0.0	0.0	0.0	0.11E												
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	0.00E												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	1.13	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	0.19	0.0	0.0	0.13E	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	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	0.27E												
14	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	0.04E												
15	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.00	0.0	0.02E	0.04	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.00	0.15	0.0	0.0												
17	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.34E	0.0	0.0	0.0												
18	0.0	0.07	0.0	0.13E	0.0	0.0	0.0	0.18E	1.47	0.93E	0.0	0.0	0.0	0.18E												
19	0.0	0.0	0.0	0.35E	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.00	0.24E	0.0	0.0	0.0	0.0	0.0												
21	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.06	0.07E	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	0.0	0.0	0.72E	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	0.5E	0.47	0.0	0.53E	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	0.13E	0.0	0.0	0.0												
26	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	0.01												
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.41	0.0	0.00	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.04	0.0	0.0	0.0	0.0	0.00												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.46E	0.0	0.0	0.0	0.02												
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.00	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.19E												
TOTAL	0.02	0.27	0.0	0.51	0.0	0.20	2.49	5.31	1.64	1.52	0.18	1.48														
STA AV	0.25	0.68	0.62	0.25	0.10	0.07	2.53	4.31	1.27	0.45	0.27	0.74														

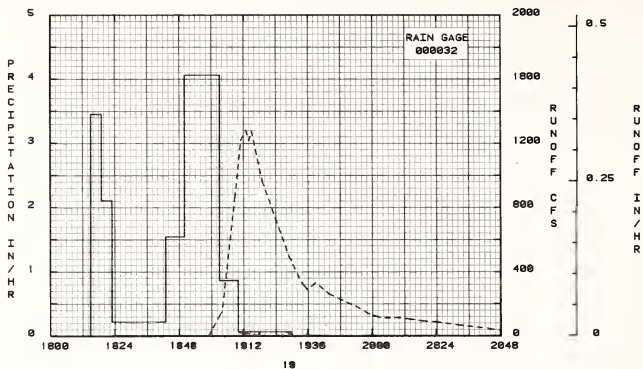
NOTES: Data are Thiessen weighted averages from 17 rain gages. STA AV are based on 1968-71 data.

1971		SEAN DAILY DISCHARGE (cfs)										TORNSTONE, ARIZONA #-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	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	24.593E	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	11.340	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.478E	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	23.218E	2.770E	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.288E	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	4.453E	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	3.832E	4.228E	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	2.275E	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	
SEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.2673	2.1823	0.0923	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.051	0.413	0.017	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.171	0.015	0.0	0.0	0.0	

NOTES: To convert sean daily discharge in CFS to IN/DAY, multiply by 0.006215. STA AV are based on 5 yr only (1966, 1968-71).

1971		SELECTED RUNOFF EVENT				TORNSTONE, ARIZONA #-6				
PRECEDENT CONDITIONS		RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/Ac)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 10 - 11, 1971										
8-10	8G 000032	0.0	8-10	8G 000032	0.0	0.0	8-10	1859	0.0	0.0
					1815	3.4501	0.23	1904	150.662	0.0017
					1823	2.1000	0.37	1909	891.032	0.0128
					1843	0.2100	0.44	1911	1220.271	0.0213
					1850	1.5428	0.62	1913	1282.542	0.0327
WATERSHED CONDITIONS:										
Vegetative cover: Approx-		1903	4.0617	1.50	1914	1213.448	0.0377			
imately 33% of the area is		1910	0.8571	1.60	1915	1275.544	0.0440			
dominated by desert shrubs		1919	0.0600	1.62	1919	862.392	0.0632			
(whitethorn, creosotebush,		1924			1924	729.002	0.0812			
tarnish) with a crown		1929			1929	496.344	0.0942			
spread of approximately										
30% and an understory of		1934			1934	322.693	0.1033			
grasses with less than 1%		1936			1936	286.013	0.1058			
basal area. The remaining		1939			1939	331.198	0.1099			
67% of the area is dominated		1944			1944	259.271	0.1162			
by grasses (black grama,		1949			1949	220.335	0.1215			
curly mesquite, sidecoats										
grama) with a basal area of		1954			1954	182.044	0.1258			
about 2.5%, interspersed by		1959			1959	135.000	0.1292			
desert shrubs with a crown		2003			2003	112.919	0.1313			
spread of about 5%.)		2005			2005	110.335	0.1323			
		2009			2009	112.919	0.1342			
		2014			2014	102.814	0.1365			
		2019			2019	91.028	0.1387			
		2024			2024	84.395	0.1406			
		2034			2034	62.754	0.1438			
		2044			2044	43.664	0.1461			
		2054			2054	34.000	0.1478			
		2104			2104	26.365	0.1491			
		2114			2114	21.226	0.1501			
		2124			2124	16.560	0.1509			
		2134			2134	12.221	0.1515			
		2208			2208	4.275	0.1526			
		2234			2234	0.608	0.1529			
		2300			2300	0.0	0.1529			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.



EVENT OF AUGUST 10 - 11, 1971

TOMBSTONE, ARIZONA W-8

1971 SELECTED ROBOFF EVENT

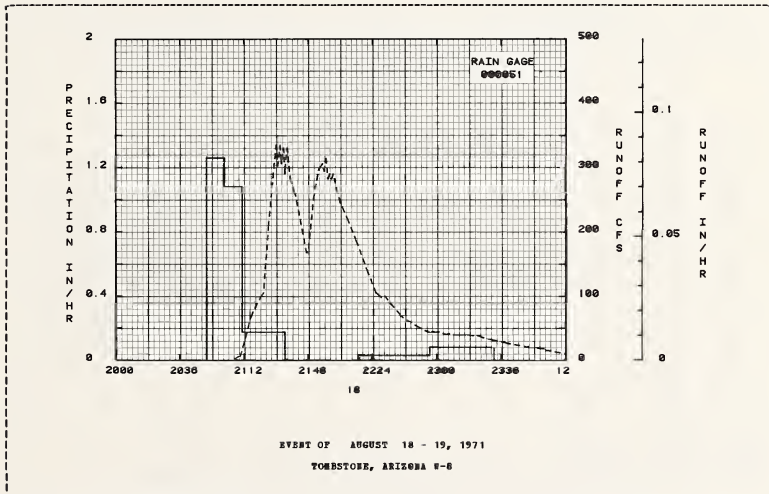
TOMBSTONE, ARIZONA W-8

PRECEDENT CONDITIONS			RAINFALL				ROBOFF			
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 18 - 19, 1971										
8-18	RG 000051 0.82	0.059	8-18	RG 800051 2051	0.0	0.0	8-18	2106	0.0	0.0
				2101	1.2600	6.21		2109	6.067	0.0
				2111	1.0801	0.39		2110	6.567	0.0
				2135	0.1750	0.46		2113	36.015	0.0003
				2216	0.0	0.46		2116	68.250	0.0010
WATERSEED CONDITIONS:				2256	0.0300	0.48		2121	97.989	0.0028
Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understorey of grasses with less than 1% basal area.				2332	0.0833	0.53		2123	105.283	0.0037
The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grass) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%.								2126	216.979	0.0057
								2130	335.500	0.0107
								2131	301.995	0.0120
								2132	335.500	0.0133
								2133	306.070	0.0146
								2134	331.198	0.0162
								2135	289.960	0.0175
								2136	331.198	0.0188
								2138	282.100	0.0216
								2141	255.579	0.0249
								2147	167.346	0.0305
								2148	167.346	0.0312
								2151	251.915	0.0340
								2154	297.950	0.0376
								2156	306.070	0.0400
								2157	293.939	0.0415
								2158	318.318	0.0427
								2159	282.100	0.0439
								2200	289.960	0.0453
								2201	282.100	0.0465
								2202	289.960	0.0477
								2206	248.682	0.0523
								2211	213.653	0.0572
								2216	179.046	0.0616
								2221	140.108	0.0650
								2226	105.283	0.0676
								2229	97.989	0.0689
								2231	100.363	0.0690

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.

1971 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA 8-8								
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 18 - 19, 1971 (CONTINUED)											
							8-18	2236	82.255	0.0717	
								2241	66.385	0.0733	
								2251	49.515	0.0758	
								2256	82.953	0.0768	
								2257	44.379	0.0770	
								2259	43.664	0.0774	
								2300	44.379	0.0776	
								2301	44.379	0.0778	
								2305	40.138	0.0785	
								2307	41.539	0.0788	
								2312	39.443	0.0797	
								2316	40.138	0.0804	
								2317	40.138	0.0806	
								2320	38.750	0.0811	
								2323	38.750	0.0816	
								2326	35.380	0.0820	
								2331	31.855	0.0827	
								2341	25.783	0.0839	
								2351	20.610	0.0849	
								2400	17.903	0.0857	
							8-19	1	15.906	0.0858	
								16	10.000	0.0866	
								31	5.130	0.0871	
								46	2.490	0.0873	
								101	0.789	0.0874	
								125	0.0	0.0874	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.



TOBESTONE, 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)												TOBESTONE, ARIZONA W-11															
	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
1971 P	0.02	0.28	0.0	0.62	0.0	0.23	2.15	5.46	1.66	1.41	0.18	1.58	13.59														
1971 Q	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.401	0.035	0.0	0.0	0.0	0.438														
STA AV P	0.27	0.66	0.62	0.29	0.11	0.08	2.49	4.44	1.21	0.43	0.29	0.77	11.66														
1971 Q	0.0	0.0	0.0	0.0	0.0	0.0	0.096	0.195	0.022	0.0	0.0	0.0	0.314														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1971	Maximum Discharge				Maximum Volume for Selected Time Interval											
	Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	Date	Date			
1971	8-18	0.211	8-18	0.099	8-18	0.106	8-18	0.107	8-18	0.173	8-18	0.173	8-17	0.173	8-12	0.231
	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	

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 grass, curly mesquite, sideoats grass) 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 10 rain gages, station averages are for 4 yr (1968-71). Runoff Data: Records began 1963, station averages are based on 1966, 1966-71 data. Temperature Data: See table of daily maxima and minima values included for Watershed 6.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1971 DAILY PRECIPITATION (inches)												TOBESTONE, ARIZONA W-11																
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	0.08	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	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.09	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			
3	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.18	0.01	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			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	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		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	0.0	0.0	0.0	0.0	0.0	0.00	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	0.0	0.0	0.0	0.0	0.11	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	0.0	0.0	0.35	0.19	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	0.0	0.0	0.0	0.0	0.0	0.0	0.005		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	0.0	0.0	0.00	0.86	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	0.0	0.0	0.32	0.0	0.13E	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	0.0	0.0	0.78	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	0.0	0.0	0.0	0.0	0.0	0.0	0.32E		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	0.0	0.0	0.03	0.0	0.0	0.0	0.05E		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	0.01	0.0	0.0	0.0	0.01	0.0	0.03E	0.02	0.0		15	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.0	0.03E	0.02			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.16		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	0.09	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.29E	0.0	0.0		17	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.0			
18	0.0	0.10	0.0	0.09E	0.0	0.0	0.24	1.69	0.07	0.0	0.0	0.19E		18	0.0	0.10	0.0	0.09E	0.0	0.0	0.24	1.69	0.07	0.0	0.0			
19	0.0	0.0	0.0	0.52E	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		19	0.0	0.0	0.0	0.52E	0.0	0.0	0.04	0.0	0.0	0.0	0.0			
20	0.0	0.10S	0.0	0.0	0.0	0.0	0.01	0.32	0.0	0.0	0.0	0.0		20	0.0	0.10S	0.0	0.0	0.0	0.01	0.32	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.01	0.0	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.01	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			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0		23	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.23	0.51	0.82E	0.0	0.55E	0.0	0.0		24	0.0	0.0	0.0	0.0	0.23	0.51	0.82E	0.0	0.55E	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	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	0.02		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	0.04	0.38	0.0	0.0	0.0		27	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.38	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.0	0.0	0.0	0.01		28	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.49	0.0	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.49	0.0	0.0			
30	0.0	0.0	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	0.20	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.19E	0.0		31	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.19E	0.0			
TOTAL	0.02	0.28	0.0	0.62	0.0	0.23	2.15	5.46	1.66	1.41	0.18	1.58		TOTAL	0.02	0.28	0.0	0.62	0.0	0.23	2.15	5.46	1.66	1.41	0.18	1.58		
STA AV	0.27	0.66	0.62	0.29	0.11	0.08	2.49	4.44	1.21	0.43	0.29	0.77		STA AV	0.27	0.66	0.62	0.29	0.11	0.08	2.49	4.44	1.21	0.43	0.29	0.77		

NOTES: Data are Thiessen weighted averages of 10 rain gages. STA AV are for 4 yr only (1968-71).

1971 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	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	3.9882	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.424	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7772	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0692	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	14.8192	2.966	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0102	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.185	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	0.089	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081	3.385	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	1.640	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	0.082	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	0.0029	1.1063	0.1009	0.0	0.0	0.0		
INCBES	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.401	0.035	0.0	0.0	0.0		
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.096	0.195	0.022	0.0	0.0	0.0		

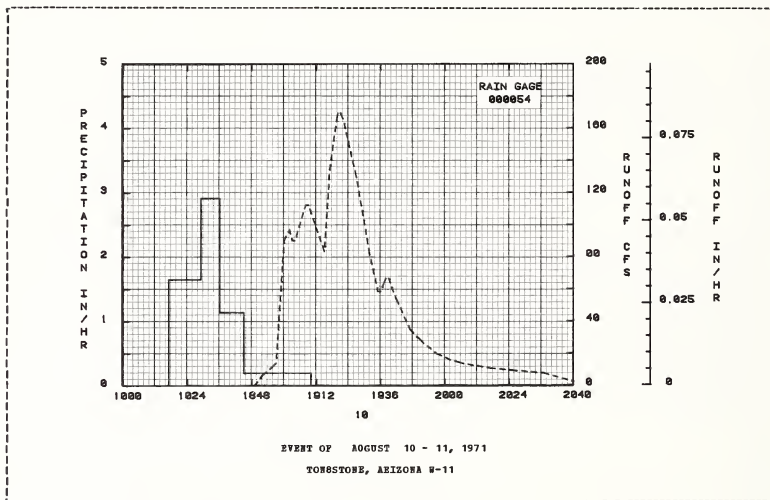
NOTES: To convert mean daily discharge values in CFS to IN/DAI, multiply by 0.011696. STA AV values are for 5 yr only (1966, 1968-71).

1971 SELECTED BUNOFF EVENT												TOMBSTONE, ARIZONA W-11		
PRECEDENT CONDITIONS			RAINFALL			BUNOFF								
Date	Rainfall	Ranoff	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 10 - 11, 1971														
8-10	RG 000054	0.0	8-10	EG 000054	0.0	0.0	8-10	1849	0.0	0.0				
				1817	1.6500	0.33		1852	6.584	0.0001				
				1836	2.9142	0.67		1857	14.131	0.0005				
				1845	1.1333	0.84		1900	50.120	0.0018				
				1910	0.1920	0.92		1902	97.210	0.0032				
WATERSHED CONDITIONS:														
Vegetative cover: Approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understorey of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (Black grass, curly mesquite, sideoats grama) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover.												1903	90.120	0.0039
								1904	90.120	0.0048				
								1908	112.350	0.0081				
								1909	112.350	0.0090				
								1915	83.345	0.0138				
								1917	134.549	0.0155				
								1920	165.537	0.0193				
								1921	169.537	0.0206				
								1922	165.819	0.0219				
								1927	129.509	0.0281				
								1932	81.155	0.0323				
								1935	58.475	0.0340				
								1936	58.475	0.0344				
								1938	66.722	0.0355				
								1939	66.722	0.0360				
								1942	53.409	0.0375				
								1947	34.767	0.0393				
								1952	26.186	0.0405				
								1957	19.635	0.0415				
								2002	15.709	0.0422				
								2007	13.400	0.0428				
								2017	10.562	0.0438				
								2027	8.905	0.0446				
								2037	7.445	0.0453				
								2109	2.127	0.0465				

NOTES: To convert runoff in CFS to IN/MI, multiply by 0.000487.

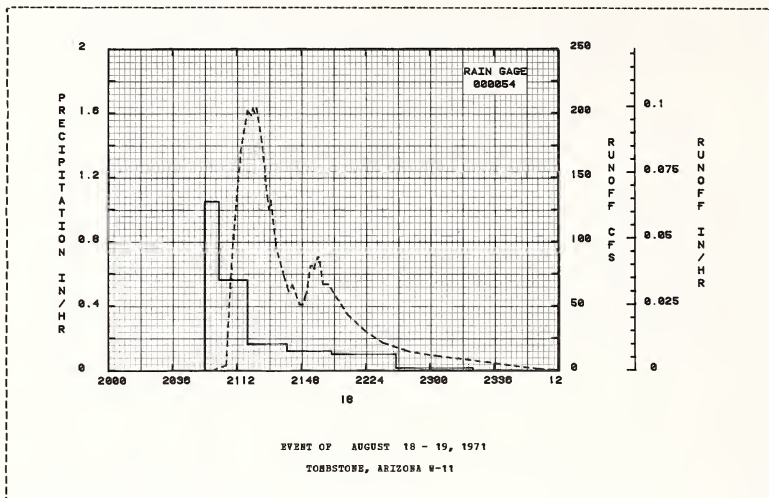
1971 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA 8-11						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 10 - 11, 1971 (CONTINUED)										
			8-10	2138				2138	0.374	0.0468
				2207				2207	0.032	0.0468
				2225				2225	0.0	0.0468
			8-11	1525				1525	0.0	0.0468
				1526				1526	16.133	0.0469
				1532				1532	15.709	0.0477
				1535				1535	15.099	0.0481
				1540				1540	14.131	0.0487
				1545				1545	13.037	0.0493
				1550				1550	11.609	0.0498
				1600				1600	8.905	0.0506
				1610				1610	6.300	0.0512
				1620				1620	2.127	0.0515
				1632				1632	1.308	0.0517
				1640				1640	0.709	0.0518
				1650				1650	0.214	0.0518
				1702				1702	0.032	0.0518
				1712				1712	0.0	0.0518

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.



1971 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA 4-11							
ATTECCEDEBT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 18 - 19, 1971										
RG 000054			RG 000054							
8-18	1.45	0.107	8-18	2054	0.0	0.0	8-18	2054	0.0	0.0
				2102	1.0560	0.14		2057	0.032	0.0
				2118	0.5625	0.29		2059	0.288	0.0
				2140	0.1636	0.35		2101	1.680	0.0
				2205	0.1200	0.40		2106	0.000	0.0001
WATERSHED CONDITIONS:										
Vegetative cover: Approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understory of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grass, curly mesquite, sideoats grass) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover.										
				2241	0.1000	0.46		2109	83.385	0.0012
				2324	0.0140	0.47		2114	165.537	0.0063
								2118	202.098	0.0123
								2120	198.180	0.0157
								2121	204.065	0.0172
								2122	200.136	0.0187
								2123	204.065	0.0206
								2126	177.045	0.0250
								2129	134.549	0.0289
								2130	124.570	0.0301
								2131	132.016	0.0311
								2134	94.812	0.0339
								2139	69.650	0.0372
								2141	61.136	0.0382
								2143	66.722	0.0393
								2147	51.000	0.0412
								2149	51.000	0.0421
								2151	61.136	0.0430
								2153	81.155	0.0442
								2154	81.155	0.0448
								2155	79.000	0.0454
								2157	87.827	0.0468
								2158	87.827	0.0475
								2200	66.722	0.0488
								2203	66.722	0.0503
								2214	43.257	0.0552
								2225	28.862	0.0584
								2234	21.042	0.0603
								2249	14.131	0.0624
								2304	10.908	0.0639
								2334	5.798	0.0659
								2400	1.000	0.0666
							8-19	4	0.584	0.0666
								32	0.061	0.0667
								129	0.0	0.0667

NOTES: To convert runoff in cfs to in/85, multiply by 0.000487.



TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County; 3/4 miles east of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 5942.00 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
P	0.06	0.27	0.0	0.52	0.0	0.7	3.40	6.79	1.70	1.52	0.17	1.53	14.32
1971	0	0.0	0.0	0.0	0.0	0.0	0.145	0.211	0.0	0.0	0.0	0.0	0.356
STA AV	P 0.39	0.54	0.46	0.19	0.15	0.15	3.63	3.68	1.35	0.27	0.26	1.32	12.39
	0	0.0	0.0	0.0	0.0	0.0	0.041	0.145	0.017	0.0	0.0	0.0	0.203

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			
1971	8-10	0.211	8-10	0.194	8-10	0.180	8-10	0.194	8-11	0.194	8-10	0.194	8-5	0.211
MAXIMUMS FOR PERIOD OF RECORD														
	8-10	0.211	8-10	0.194	8-10	0.180	8-19	0.200	8-19	0.230	8-19	0.250	8-19	0.250
	1971		1971		1971		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 grass, tobosa grass, blue grass, sidecoats grass, 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, OSDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiesen weighted averages of 15 rain gages. Runoff Data: Records began January 1965. Station averages for precipitation and runoff based on 1965-1971 record period. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63-011. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1971 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	0.0	0.0	0.0	0.0	0.0	0.22E	0.00	0.0	0.0	0.0							
2	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0							
3	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.10	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	0.04	0.0	0.66E							
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.95E							
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0							
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0							
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.04E	0.0	0.0	0.15E							
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E							
10	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1.43	0.0	0.0	0.0	0.0							
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.12E	0.0	0.0							
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	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	0.23E							
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.01E							
15	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.01E	0.01	0.0							
16	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.09	0.00	0.00	0.15E	0.0							
17	0.0	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.45E	0.0	0.0							
18	0.0	0.04	0.0	0.28E	0.0	0.0	0.30	1.05	0.52	0.00	0.0	0.17E							
19	0.0	0.00	0.0	0.17E	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0							
20	0.0	0.14E	0.0	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0							
21	0.0	0.03	0.0	0.0	0.0	0.0	0.00	0.02	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	1.83	0.0	0.0	0.0	0.0	0.0							
24	0.0	0.01E	0.0	0.0	0.0	0.0	0.29	0.32E	0.0	0.66E	0.0	0.0							
25	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0							
26	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.02							
27	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.15	0.0	0.00	0.0	0.0							
28	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.22	0.0	0.0	0.0	0.0							
29	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.77E	0.0	0.0	0.01							
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.00	0.0							
31	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.02	0.0	0.0	0.0	0.22E							
TOTAL	0.06	0.27	0.0	0.52	0.0	0.36	3.40	4.79	1.70	1.52	0.17	1.53							
STA AV	0.39	0.54	0.46	0.19	0.15	0.15	3.63	3.68	1.35	0.27	0.26	1.32							

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV are based on 7 yr record period (1965-71).

1971		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	0.0	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	48.002E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.203E	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.549E	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.611	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	32.566E	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	2.655E	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	0.903E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.474	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.408	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	1.1646	1.6892	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.145	0.211	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.041	0.145	0.017	0.0	0.0	0.0

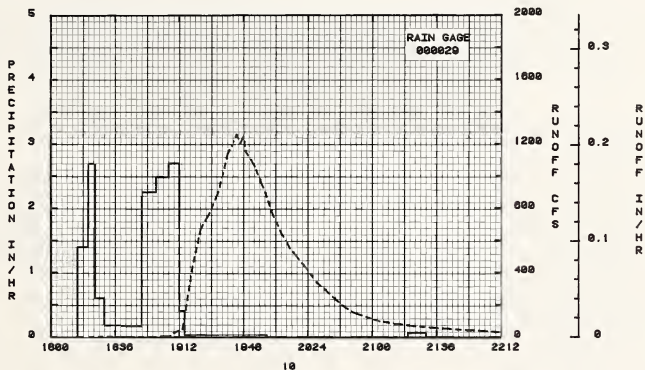
NOTES: To convert mean daily discharge in CFS to I³/DAY, multiply by 0.000426. STA AV are based on 7 yr record period (1965-1971).

1971		SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-15						
Date Mo-Day	Rainfall (inches)	Rmoff (inches)	FAIRFALL			RUNOFF					
			Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 10 - 11, 1971											
RG 000029			RG 000029			RG 000029					
8-10	0.0	0.0	8-10	1815	0.0	0.0	0.0	8-10	1816	0.0	0.0
				1821	1.4001	0.14	0.14		1827	0.462	0.0
				1825	2.7000	0.32	0.32		1829	0.572	0.0
				1830	0.5999	0.37	0.37		1832	0.572	0.0
				1840	0.1800	0.40	0.40		1844	0.059	0.0
WATERSED CONDITIONS:											
Vegetative cover: Desert											
shrubs (whitehorn, 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 spina, tobosa,											
blue grass, sideoats grass											
and curly mesquite) of											
approximately 2% basal area.											
				2001	0.0261	1.33	1.33	1914	51.160	0.0006	
				2120	0.0	1.33	1.33	1919	409.621	0.0039	
				2130	0.0600	1.34	1.34	1924	670.778	0.0113	
								1929	771.626	0.0212	
								1934	904.833	0.0333	
								1939	1135.263	0.0473	
								1944	1258.652	0.0638	
								1946	1202.412	0.0711	
								1948	1246.053	0.0775	
								1949	1153.403	0.0814	
								1954	1064.021	0.0967	
								1959	926.959	0.1104	
								2004	771.626	0.1226	
								2009	646.611	0.1324	
								2014	550.252	0.1406	
								2019	481.032	0.1480	
								2024	413.665	0.1582	
								2029	336.748	0.1594	
								2034	289.271	0.1639	
								2039	235.531	0.1675	

NOTES: To convert runoff in CFS to I³/HR, multiply by 0.000168.

1971 SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA W-15					
ANTICIPATED 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 10 - 11, 1971 (CONTINUED)										
							8-10	2044	188.010	0.1704
								2049	151.851	0.1728
								2054	131.706	0.1748
								2059	113.135	0.1765
								2104	96.113	0.1780
								2114	78.782	0.1804
								2124	64.961	0.1824
								2134	55.558	0.1841
								2144	48.340	0.1855
								2154	40.405	0.1868
								2204	34.390	0.1879
								2219	27.872	0.1892
								2234	22.102	0.1902
								2304	13.408	0.1917
								2334	7.994	0.1926
							8-11	2400	5.620	0.1931
								4	4.800	0.1932
								105	1.534	0.1937
								204	0.462	0.1939
								314	0.059	0.1940
								414	0.0	0.1940

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.



EVENT OF AUGUST 10 - 11, 1971
TOMBSTONE, ARIZONA W-15

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													
1971	P 0.13	0.23	0.10	0.33	0.38	0.50	1.82	2.97	1.58	1.31	1.04	0.60	11.00													
	Q 9.0	0.0	0.0	0.0	0.000	0.0	0.003	0.090	0.001	0.004	0.0	0.0	0.099													
STA AV	P 0.21	0.19	0.31	0.59	1.12	1.54	3.15	2.39	1.48	1.36	0.92	0.28	13.05													
	Q 0.0	0.0	0.0	0.0	0.028	0.017	0.040	0.035	0.005	0.0	0.0	0.0	0.160													
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.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.					
1971	8-8	0.024	8-8	0.024	8-8	0.045	8-8	0.071	8-8	0.075	8-8	0.076	8-7	0.088	8-3	0.089										
MAXIMUMS FOR PERIOD OF RECORD																										
	5-29	0.034	5-29	0.031	5-29	0.053	5-29	0.096	5-29	0.100	6-1	0.110	6-1	0.110	6-5	0.122										
	1963		1969		1963		1963		1963		1963		1963		1963											

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grass, gallego, buffalo and ring shrub. Remaining 25% of area is piñon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are Thiessen weighted averages of 49 rain gages. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 6A-001-3. Precipitation and runoff records began in 1955. STA AV based on 8 yr (1965-1971), previously published data are being reevaluated. For long-time precipitation records, see National Weather Service records at Santa Rosa, New Mexico.

1971 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	0.008	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.228
2	0.0	0.0	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.078
3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.03	0.0	0.0	0.0	0.0	0.0	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	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	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	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55E	0.0	0.0	0.0	0.0	0.0	0.0	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	0.00	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.01	0.0	0.00	0.82E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.28E	0.0	0.0	0.62E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.085
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.03	0.01	0.00	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	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	0.04	0.00	0.0	0.06E	0.0	0.00	0.0	0.0	0.0	0.0	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	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	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	0.04	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015
15	0.0	0.0	0.0	0.0	0.23E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50E
16	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44E
17	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E
18	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.09E	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	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.18E	0.0	0.04E	0.15E	0.0	0.0	0.0	0.0	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	0.07E	0.0	0.0	0.0	0.0	0.04	0.35E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.16E	0.0	0.0	0.0	0.0	0.00	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	0.0	0.0	0.0	0.0
22	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.04	0.18E	0.06	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	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.29E	0.94	0.0	0.0	0.0	0.0	0.0	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	0.05E	0.07E	0.00	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	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	0.0	0.0	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	0.40E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
28	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.01E	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E
30	0.0	0.0	0.0	0.0	0.0	0.0	0.43E	0.0	0.0	0.21E	0.0	0.0	0.0	0.0	0.0	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	0.51E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.13	0.23	0.10	0.33	0.38	0.50	1.82	2.97	1.58	1.31	1.04	0.60	11.00														
STA AV	0.21	0.19	0.31	0.59	1.12	1.54	3.15	2.39	1.48	1.36	0.92	0.28	13.05														

NOTES: Daily values are Thiessen weighted average amounts from 49 rain gages. Precipitation records began in 1955. STA AV are based on 4 yr (1968-1971).

1971 MEAN DAILY DISCHARGE (cfs)												SANTA ROSA, NEW MEXICO WATERSHED W-1													
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	0.14	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	2	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	
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	
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	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	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	0.0	0.0	19.32	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	0.63	0.0	0.0	128.83	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	0.23	0.0	0.0	0.0	11.26	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	0.0	0.0	1.27	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	0.0	0.0	0.25	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	0.0	0.0	0.08	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	0.0	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	0.0	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	0.16	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	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.82	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	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	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	
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	
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	
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	
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	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.05	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	0.0	0.0	0.0	0.0	0.0	0.01	0.09	1.36	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	0.0	0.0	0.0	0.0	0.00	0.08	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	0.0	0.0	0.0	0.0	0.0	7.49	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	0.46	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	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	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	
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	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	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	4.77	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	0.0280	0.0	0.1542	5.2213	0.0836	0.2565	0.0	0.0	MEAN	0.0	0.0	0.0	0.0	0.0280	0.0	0.1542	5.2213	0.0836	0.2565	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.000	0.0	0.003	0.090	0.001	0.008	0.0	0.0	INCHES	0.0	0.0	0.0	0.0	0.000	0.0	0.003	0.090	0.001	0.008	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.028	0.017	0.040	0.035	0.035	0.005	0.0	0.0	STA AV	0.0	0.0	0.0	0.0	0.028	0.017	0.040	0.035	0.035	0.005	0.0	0.0

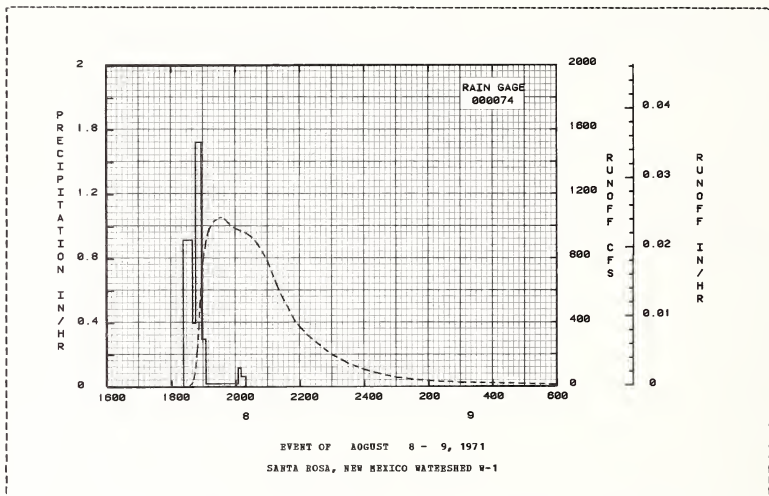
NOTES: To convert mean daily discharge in CFS to I/R/DAT, multiply by 0.000555. Runoff records began in 1955. STA AV based on 4 yr (1968-1971).

1971 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.	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)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF AUGUST 8 - 9, 1971																							
RG 000074						RG 000074																	
8-8	0.0	0.001	8-8	1822	0.0	0.0	8-8	1600	0.401	0.0													
				1839	0.9176	0.26		1710	0.359	0.0													
				1845	0.4000	0.30		1800	0.320	0.0													
				1856	1.5274	0.58		1801	0.320	0.0													
				1904	0.3000	0.62		1810	0.495	0.0													
WATERSHED CONDITIONS:																							
Grazing land, about 75% of the area is grassland,						2004						1822											
vegetation consisting of blue grass, pappets, buffalo and ring sully. Remaining 25% of area in piñon, juniper, and various shrubs, with some grasses interspersed.						2009						1824											
						2018						1829											
												1834											
												1839											
												1841											
												1843											
												1845											
												1847											
												1849											
												1851											
												1853											
												1855											
												1857											
												1859											
												1901											
												1903											
												1905											
												1909											
												1914											
												1919											
												1924											
												1929											
												1933											
												1939											

NOTES: To convert runoff in CFS to I/R/DAT, multiply by 0.000231.

1971 SELECTED RUNOFF EVENT			SANTA ROSA, NEW MEXICO 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 AUGUST 8 - 9, 1971 (CONTINUED)											
							8- 8	1949	1014.406	0.0220	
								1959	988.374	0.0258	
								2009	973.656	0.0296	
								2019	959.058	0.0334	
								2030	933.784	0.0374	
								2040	894.788	0.0409	
								2050	839.617	0.0443	
								2100	776.492	0.0474	
								2110	690.732	0.0502	
								2120	607.333	0.0527	
								2130	537.635	0.0549	
								2140	474.573	0.0568	
								2150	412.149	0.0585	
								2200	370.887	0.0600	
								2215	318.906	0.0620	
								2230	277.280	0.0637	
								2245	237.853	0.0652	
								2300	198.133	0.0665	
								2330	145.700	0.0685	
								2400	107.453	0.0700	
							8- 9	30	78.787	0.0711	
								100	57.680	0.0719	
								130	44.744	0.0725	
								200	36.308	0.0730	

NOTES: To convert runoff in CFS to I_R/SE, multiply by 0.0000231.



NEWELL, SOUTH DAKOTA WATERSHED W-2

LOCATION: Butte Co., South Dakota, 33 mi. NE of Newell, Sand Creek, South Korean 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
P	0.77	0.50	0.22	2.38	2.31	1.27	0.55	0.37	1.72	2.85	0.63	0.23	13.76
Q	0.0	0.0	0.915	0.083	0.0	0.0	0.0	0.0	0.006	0.016	0.0	0.0	0.980
STA AV P	0.25	0.26	0.42	1.22	2.08	3.07	1.79	0.95	1.06	0.56	0.34	0.26	12.26
Q	0.006	0.058	0.197	0.021	0.080	0.077	0.133	0.0	0.007	0.001	0.0	0.0	0.580

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 1956. Precipitation and runoff STA AV based on 14 yr (1958-71) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1971		DAILY PRECIPITATION (inches)											
		NEWELL, SOUTH DAKOTA WATERSHED W-2											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.095	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	
2	0.0	0.085	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.68	0.0	0.0	
3	0.0	0.145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.015	0.0	0.0	0.0	0.42	0.0	0.0	1.25	0.0	0.0	0.0	
5	0.0	0.045	0.06	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.105	
7	0.0	0.015	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.035	
8	0.025	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.035	0.0	0.0	0.0	0.12	0.0	0.0	0.08	0.0	0.0	0.0	0.0	
10	0.105	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.025	0.0	0.0	0.0	0.0	0.02	0.24	0.0	0.0	0.0	0.0	0.0	
12	0.095	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
13	0.055	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.02	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	0.23	0.0	0.0	
15	0.0	0.075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.085	0.0	
16	0.0	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.05	0.01	0.375	0.0	
17	0.075	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.41	0.055	0.0	
18	0.0	0.085	0.0	0.82	0.01	0.0	0.0	0.95	0.0	0.03	0.0	0.0	
19	0.0	0.065	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.015	
20	0.0	0.045	0.0	0.54	0.03	0.0	0.0	0.0	0.02	0.0	0.0	0.025	
21	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.025	0.04	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.025	0.0	0.0	0.03	0.0	0.16	0.10	0.0	0.0	0.0	0.0	0.015	
26	0.155	0.0	0.0	0.205	0.0	0.0	0.0	0.0	0.16	0.04	0.045	0.065	
27	0.0	0.0	0.0	0.085	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.085	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.045	0.045	0.0	
29	0.105	0.0	0.02	0.02	0.29	0.0	0.0	0.12	0.0	0.125	0.025	0.0	
30	0.045	0.0	0.0	0.76	0.0	0.0	0.0	0.11	0.0	0.0	0.025	0.0	
31	0.0	0.055	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.77	0.50	0.22	2.38	2.31	1.27	0.55	0.37	1.72	2.85	0.63	0.23	
STA AV	0.25	0.26	0.42	1.22	2.08	3.07	1.79	0.95	1.06	0.56	0.34	0.26	

NOTES: Precipitation from rain gage W-2A. STA AV based on 14 yr (1958-71) record period.

1971												
Day	MEAN DAILY DISCHARGE (cfs)										Dec	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		Nov
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	0.072	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	0.029	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	2.561	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.082	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0
18	0.0	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.222	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.126	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.005	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	0.092	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.304	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.734	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.077	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.198	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	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.1426	0.0069	0.0	0.0	0.0	0.0	0.0010	0.0025	0.0	0.0
INCHES	0.0	0.0	0.915	0.043	0.0	0.0	0.0	0.0	0.006	0.016	0.0	0.0
STA AV	0.006	0.058	0.197	0.021	0.080	0.077	0.133	0.0	0.007	0.001	0.0	0.0

NOTES: STA AV based on 14 yr (1958-71) 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		
1971 P	0.68	1.50	0.16	1.95	2.50	1.75	0.33	0.48	1.52	4.02	0.97	0.18	16.08		
Q	0.0	0.062	1.316	0.038	0.125	0.013	0.0	0.0	0.053	0.169	0.018	0.0	1.794		
STA AV P	0.28	0.40	0.58	1.52	2.60	3.96	1.78	1.28	1.07	0.64	0.44	0.38	14.94		
Q	0.015	0.029	0.279	0.030	0.092	0.227	0.053	0.075	0.009	0.012	0.001	0.0	0.822		

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 7%; good - 93%; Degree of grazing: moderate; Production of cover: 2392 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 records began January 1958. Precipitation and runoff STA AV based on 14 yr (1958-71) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1971 DAILY PRECIPITATION (inches)													NEWELL, SOUTH DAKOTA		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	1.57	0.0	0.0				
2	0.0	0.45S	0.0	0.0	0.0	0.0	0.02	0.0	0.0	1.01	0.0	0.0				
3	0.0	0.0	0.05S	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	0.18	0.0	0.0	1.30	0.0	0.0	0.0	0.0				
5	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.03S				
7	0.0	0.27S	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.07S				
8	0.27S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.02S	0.0	0.0	0.0	0.48	0.05	0.0	0.12	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
11	0.02S	0.0	0.0	0.0	0.0	0.50	0.21	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	0.29	0.0	0.0	0.0	0.0	0.03S	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.04S	0.0				
15	0.0	0.06S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.11S	0.0				
16	0.0	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.05	0.42S	0.0				
17	0.12S	0.0	0.0	0.32	0.0	0.05	0.0	0.0	0.0	0.68	0.05S	0.0				
18	0.0	0.06S	0.0	0.05	0.0	0.03	0.0	0.05	0.0	0.11	0.02S	0.01S				
19	0.0	0.02S	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S				
20	0.0	0.07S	0.0	0.55	0.05	0.0	0.0	0.0	0.03	0.0	0.0	0.01S				
21	0.0	0.02S	0.0	0.31	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	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.05S	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.05S	0.0	0.0	0.03	0.0	0.10	0.10	0.0	0.0	0.0	0.0	0.0				
26	0.20S	0.40S	0.0	0.37S	0.0	0.0	0.0	0.0	0.0	0.01	0.07S	0.05S				
27	0.0	0.15S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.03S	0.0				
29	0.0	0.0	0.0	0.02	0.21S	0.0	0.0	0.10	0.0	0.0	0.05S	0.0				
30	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.21	0.0	0.0	0.14S	0.0				
31	0.0		0.04S		0.17		0.0	0.0		0.24		0.0				
TOTAL	0.68	1.50	0.16	1.95	2.50	1.75	0.33	0.48	1.52	4.02	0.97	0.18				
STA AV	0.28	0.40	0.58	1.52	2.60	3.96	1.78	1.28	1.07	0.64	0.44	0.38				

NOTES: Precipitation from rain gage W-5A. STA AV based on 14 yr (1958-71) record period.

Day	1971 MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA				WATERSHED W-5		
	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	0.023	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.213	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	0.002	0.0	0.0	0.100	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.168	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	0.014	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	0.002	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	0.771	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.097	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.033	0.004	0.0	0.0	0.0	0.0	0.0	0.072	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	0.019	0.019	0.0
20	0.0	0.0	0.278	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0
21	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
22	0.0	0.120	0.0	0.006	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	0.062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.296	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.912	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.043	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	0.002	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	0.0043	0.0820	0.0024	0.0078	0.0008	0.0	0.0	0.0034	0.0105	0.0012	0.0
INCHES	0.0	0.062	1.316	0.038	0.125	0.013	0.0	0.0	0.053	0.169	0.018	0.0
STA AV	0.015	0.029	0.279	0.030	0.092	0.227	0.053	0.075	0.009	0.012	0.001	0.0

NOTES: STA AV based on 14 yr (1958-71) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.517843.

NEWELL, SOUTH DAKOTA WATERSHED W-7

LOCATION: Butte Co., South Dakota, 35 mi. NE of Newell, Tributary Trail Creek, South Soreau Watershed.

AREA: 160.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-7													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
P	0.48	0.74	0.19	1.78	2.21	1.69	0.34	0.53	1.51	3.34	0.70	0.11	13.62													
1971 Q	0.0	0.0	1.181	0.0	0.0	0.009	0.0	0.0	0.023	0.058	0.006	0.0	1.277													
STA AV P	0.24	0.30	0.53	1.28	2.44	3.51	1.70	1.15	0.99	0.57	0.39	0.31	13.42													
Q	0.019	0.015	0.225	0.018	0.031	0.088	0.026	0.014	0.003	0.004	0.000	0.0	0.444													

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 82%; fair - 18%; 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. 65-74. Precipitation from rain gage W-7A. Precipitation and runoff records began January 1956. Precipitation and runoff STA AV based on 14 yr (1958-71) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1971 DAILY PRECIPITATION (inches)														NEWELL, SOUTH DAKOTA WATERSHED W-7													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.58	0.0	0.0															
2	0.0	0.305	0.085	0.0	0.0	0.0	0.02	0.0	0.0	0.63	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	0.21	0.0	0.0	1.24	0.0	0.0	0.0															
5	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0															
6	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.025															
7	0.0	0.085	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.045															
8	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.025	0.0	0.0	0.0	0.58	0.07	0.0	0.12	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.0	0.20	0.0	0.02	0.0	0.0	0.0	0.0	0.0															
11	0.045	0.0	0.0	0.0	0.0	0.33	0.20	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	0.15	0.0	0.0	0.0	0.0	0.025	0.0															
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.055	0.0	0.0															
15	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.115	0.0															
16	0.0	0.0	0.0	0.0	0.04	0.30	0.0	0.0	0.0	0.03	0.315	0.0															
17	0.125	0.0	0.0	0.36	0.0	0.06	0.0	0.0	0.0	0.59	0.035	0.0															
18	0.0	0.035	0.0	0.04	0.0	0.03	0.0	0.05	0.0	0.03	0.0	0.015															
19	0.0	0.015	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.015															
20	0.0	0.055	0.0	0.46	0.05	0.0	0.0	0.0	0.03	0.0	0.0	0.015															
21	0.0	0.015	0.0	0.27	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	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
24	0.0	0.0	0.055	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
25	0.0	0.0	0.0	0.03	0.0	0.20	0.10	0.0	0.0	0.0	0.0	0.0															
26	0.205	0.105	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.025	0.045	0.025															
27	0.0	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.025	0.0															
28	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.045	0.0															
29	0.0	0.0	0.0	0.02	0.20	0.0	0.0	0.17	0.0	0.0	0.035	0.0															
30	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.19	0.0	0.0	0.045	0.0															
31	0.0	0.045	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.105	0.0	0.0															
TOTAL	0.48	0.74	0.19	1.78	2.21	1.69	0.34	0.53	1.51	3.34	0.70	0.11															
STA AV	0.24	0.30	0.53	1.28	2.44	3.51	1.70	1.15	0.99	0.57	0.39	0.31															

NOTES: Precipitation from rain gage W-7A. STA AV based on 14 yr (1958-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA					WATERSHED #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	0.269	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	0.155	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	0.007	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	0.060	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	2.749	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.188	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	0.027	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	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	0.087	0.0	0.0	
21	0.0	0.0	0.605	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	
24	0.0	0.0	0.067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	3.428	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.255	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.343	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	0.2561	0.0	0.0	0.0020	0.0	0.0	0.0052	0.0126	0.0013	0.0	
INCHES	0.0	0.0	1.181	0.0	0.0	0.009	0.0	0.0	0.023	0.058	0.006	0.0	
STA AV	0.019	0.015	0.225	0.018	0.031	0.088	0.026	0.014	0.003	0.004	0.000	0.0	

NOTES: STA AV based on 14 yr (1958-71) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.14876.

NEWELL, SOUTH DAKOTA 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 DAKOTA WATERSHED W-12							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971	P	0.57	0.61	0.22	2.41	2.40	2.77	0.13	2.60	2.12	3.05	0.63	0.16	17.67
	Q	0.0	0.0	1.857	0.336	0.056	0.261	0.0	0.285	0.360	0.896	0.0	0.0	3.651
STA AV	P	0.29	0.27	0.57	1.48	2.52	3.21	1.52	1.07	1.25	0.65	0.40	0.28	13.51
	Q	0.062	0.048	0.460	0.266	0.727	0.592	0.094	0.063	0.040	0.064	0.009	0.006	2.433

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, USDA Misc. Pub. 945, p. 65-12-4. Precipitation from rain gauge W-121. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 14 yr (1958-71) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1971		DAILY PRECIPITATION (Inches)					NEWELL, SOUTH DAKOTA WATERSHED W-12					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.045	0.095	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.0
2	0.0	0.015	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.61	0.0	0.0
3	0.0	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.0	1.46	0.0	0.0	0.0
5	0.0	0.0	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025
7	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.085
8	0.075	0.045	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
9	0.035	0.085	0.0	0.0	0.10	0.0	0.0	0.02	0.0	0.0	0.0	0.0
10	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.015	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.30	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	0.15	0.04	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	0.26	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.10	0.105	0.0
16	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.03	0.03	0.315	0.0
17	0.045	0.0	0.035	0.23	0.02	0.32	0.0	0.12	0.01	0.60	0.035	0.0
18	0.075	0.035	0.015	0.10	0.0	0.81	0.0	0.18	0.0	0.03	0.025	0.015
19	0.0	0.055	0.035	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.015
20	0.105	0.025	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025
21	0.035	0.035	0.025	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.045	0.03	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.01	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.015	0.09	0.0	0.02	0.10	0.0	0.0	0.0	0.0	0.0
26	0.0	0.265	0.015	0.43	0.0	0.0	0.0	0.0	0.0	0.04	0.025	0.035
27	0.0	0.025	0.0	0.07	0.0	0.0	0.0	0.0	0.06	0.015	0.045	0.035
28	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.075	0.045	0.0
29	0.055	0.0	0.04	0.04	0.05	0.0	0.0	2.05	0.0	0.105	0.045	0.0
30	0.105	0.0	0.02	0.96	0.0	0.0	0.0	0.05	0.0	0.0	0.025	0.0
31	0.055	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.57	0.61	0.22	2.41	2.40	2.77	0.13	2.60	2.12	3.05	0.63	0.16
STA AV	0.29	0.27	0.57	1.48	2.52	3.21	1.52	1.07	1.25	0.65	0.40	0.28

NOTES: Precipitation from rain gauge W-121. STA AV based on 14 yr (1958-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					BREWELL, SOUTH DAKOTA WATERSHED W-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	0.082	0.0	0.0
2	0.0	0.0	0.0	0.106	0.0	0.386	0.0	0.0	0.0	2.382	0.0	0.0
3	0.0	0.0	0.0	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.026	0.0	0.0	0.0	0.0	1.028	0.0	0.0	0.0
5	0.0	0.0	0.0	0.053	0.0	0.0	0.0	0.0	0.333	0.0	0.0	0.0
6	0.0	0.0	0.0	0.079	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.079	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	2.817	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	0.601	0.0	0.0	0.0	0.968	0.0	0.0
19	0.0	0.0	0.0	0.318	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.344	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.367	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.560	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	0.231	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.238	0.212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.771	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.265	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.185	0.0	0.0	0.0	0.0	1.078	0.0	0.0	0.0	0.0
30	0.0		0.079	0.0	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.1777	0.0423	0.0068	0.0329	0.0	0.0348	0.0454	0.1093	0.0	0.0
INCHES	0.0	0.0	1.457	0.336	0.056	0.261	0.0	0.285	0.360	0.896	0.0	0.0
STA AV	0.062	0.048	0.460	0.266	0.727	0.592	0.094	0.063	0.040	0.064	0.009	0.006

NOTES: STA AV based on 14 yr (1958-71) record period. To convert mean daily discharge in CFS to M/DAY, multiply by 0.26446.

NEWELL, SOUTH DAKOTA WATERSHED W-13

LOCATION: Beade 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 DAKOTA WATERSHED W-13	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.72	0.46	0.20	1.93	2.38	2.30	0.96	0.54	2.17	3.07	0.67	0.10	15.50
Q	0.0	0.925	1.060	0.009	0.004	0.0	0.0	0.0	0.012	0.027	0.0	0.0	2.037
STA AV P	0.27	0.45	1.30	2.43	3.16	1.50	1.02	0.97	0.60	0.35	0.29	12.59	
Q	0.0	0.121	0.299	0.086	0.296	0.266	0.001	0.0	0.002	0.002	0.001	0.0	1.074

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 985, p. 65.13-4. Thiessen weighted precipitation from gages W-13B and W-13C. Precipitation and runoff records begin January 1958. Precipitation and runoff STA AV based on 14 yr (1958-71) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1971 DAILY PRECIPITATION (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-13	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.025	0.025	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0	
2	0.0	0.055	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.32	0.0	0.0	
3	0.0	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	1.66	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
6	0.0	0.0	0.065	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.015	
7	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.025	
8	0.115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.015	0.0	0.0	0.0	0.05	0.28	0.0	0.15	0.0	0.0	0.0	0.0	
10	0.025	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.045	0.0	0.0	0.0	0.0	0.30	0.79	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	0.0	0.0	0.12	0.0	0.0	0.02	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.17	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.06	0.175	0.0	
16	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.0	0.02	0.0	0.295	0.0	
17	0.065	0.025	0.025	0.27	0.0	0.43	0.0	0.02	0.02	0.73	0.025	0.0	
18	0.125	0.075	0.015	0.02	0.02	0.35	0.0	0.19	0.0	0.03	0.015	0.015	
19	0.0	0.025	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
20	0.135	0.015	0.0	0.22	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.015	
21	0.025	0.035	0.025	0.18	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.045	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.09	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.165	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.08	0.045	0.035	
27	0.0	0.045	0.0	0.08	0.0	0.0	0.0	0.0	0.10	0.02	0.015	0.0	
28	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.015	0.0	
29	0.105	0.0	0.05	0.21	0.0	0.0	0.09	0.0	0.0	0.0	0.025	0.0	
30	0.095	0.0	0.0	0.66	0.0	0.0	0.07	0.0	0.0	0.105	0.0	0.0	
31	0.025	0.035	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	
TOTAL	0.72	0.46	0.20	1.93	2.38	2.30	0.96	0.54	2.17	3.07	0.67	0.10	
STA AV	0.27	0.27	0.45	1.30	2.43	3.16	1.50	1.02	0.97	0.60	0.35	0.29	

NOTES: Thiessen weighted precipitation from gages W-13B and W-13C. STA AV based on 14 yr (1958-71) record period.

1971		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	0.161	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	0.081	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	0.027	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	6.998	0.0	0.0	0.0	0.0	0.0	0.0	0.020	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	0.060	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	6.218	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	0.128	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	0.2221	0.2299	0.0020	0.0009	0.0	0.0	0.0	0.0027	0.0059	0.0	0.0
INCHES	0.0	0.925	1.060	0.009	0.004	0.0	0.0	0.0	0.012	0.027	0.0	0.0
STA AV	0.0	0.121	0.299	0.086	0.296	0.266	0.001	0.0	0.002	0.002	0.001	0.0

NOTES: STA AV based on 14 yr (1958-71) record period. To convert mean daily discharge in CFS to IZ/DAI, 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				
1971 P	1.21	0.56	0.55	2.67	2.84	2.59	0.22	0.36	2.71	3.08	0.80	0.23	17.82				
Q	0.0	0.0	1.181	0.133	0.120	0.226	0.0	0.0	0.009	0.132	0.0	0.0	1.761				
STA AV P	0.46	0.36	0.70	1.87	2.38	3.02	1.81	0.93	1.22	0.68	0.48	0.42	14.29				
Q	0.066	0.046	0.316	0.190	0.232	0.289	0.135	0.015	0.007	0.009	0.007	0.0	1.313				

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 54%; fair - 46%; Degree of grazing moderate. For map of watershed, see Epidemiologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA 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 14 yr (1958-71) record period. For long-time precipitation records, see National Weather Service records at Newell, South Dakota.

1971 DAILY PRECIPITATION (inches)													NEWELL, SOUTH DAKOTA		WATERSHED W-14	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.06S	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.59	0.0	0.0
2	0.0	0.06S	0.0	0.0	0.06	1.15	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0
3	0.0	0.06S	0.0	0.0	0.0	0.16	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	0.03S	0.0	0.0	0.0	0.0	1.75	0.0	0.01S	0.0	0.0	0.01S	0.0	0.0
5	0.0	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.01S	0.0	0.0	0.0	0.0
6	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S
7	0.0	0.05S	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07S
8	0.08S	0.08S	0.0	0.0	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	0.02S	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.02S	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
11	0.02S	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
12	0.12S	0.0	0.0	0.0	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	0.04S	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.02	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	0.19	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.12S	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.04	0.10S	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	0.02	0.41S	0.0	0.0	0.0	0.0
17	0.10S	0.0	0.05S	0.30	0.0	0.14	0.0	0.0	0.0	0.65	0.0	0.35S	0.0	0.0	0.0	0.0
18	0.0	0.08S	0.13S	0.04	0.0	0.08	0.0	0.24	0.0	0.02	0.01S	0.0	0.0	0.0	0.0	0.0
19	0.0	0.07S	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08S
20	0.27S	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	0.10S	0.07	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	0.02S	0.03	0.55	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	0.03	0.61	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	0.59	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.10S	0.75	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.10S	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08S	0.03S	0.0	0.0	0.0
27	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.04S	0.02S	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.07S	0.0	0.0	0.0	0.0	0.0
29	0.07S	0.0	0.0	0.0	0.05	0.12	0.0	0.0	0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0
30	0.14S	0.07S	0.0	0.01S	0.78	0.0	0.0	0.12	0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0
31	0.23S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26S	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.21	0.56	0.55	2.67	2.84	2.59	0.22	0.36	2.71	3.08	0.80	0.23				
STA AV	0.46	0.36	0.70	1.87	2.38	3.02	1.81	0.93	1.22	0.68	0.48	0.42				

NOTES: Precipitation from rain gage W-14A. STA AV based on 14 yr (1958-71) record period.

1971		BEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA				WATERSHED #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	0.326	0.0	0.0	0.0	0.126	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	0.009	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	0.110	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	0.021	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	0.038	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0
19	0.0	0.0	1.603	0.049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.038	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	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.122	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	0.006	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.037	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	0.037	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	0.004	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	0.028	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
BEAN	0.0	0.0	0.0541	0.0065	0.0057	0.0111	0.0	0.0	0.0004	0.0063	0.0	0.0
IBCHBS	0.0	0.0	1.141	0.133	0.120	0.226	0.0	0.0	0.009	0.132	0.0	0.0
STA AV	0.066	0.046	0.316	0.190	0.232	0.289	0.135	0.015	0.007	0.009	0.007	0.0

NOTES: STA AV based on 14 yr (1958-71) record period. To convert mean daily discharge in CFS to I8/DAY, multiply by 0.68005.

NEWELL, SOUTH DAKOTA WATERSHED W-15

LOCATION: Butte Co., South Dakota, 16 mi. SE of Jewell, 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
1971 P	0.70	0.51	0.37	2.32	3.23	2.38	0.23	0.35	2.72	2.77	0.63	0.16	16.37
Q	0.0	0.0	1.228	0.129	0.150	0.224	0.0	0.0	0.0	0.171	0.017	0.0	1.919
STA AV P	0.43	0.31	0.65	1.82	2.46	3.02	1.87	0.91	1.20	0.68	0.44	0.36	14.14
Q	0.055	0.019	0.209	0.225	0.307	0.247	0.144	0.006	0.007	0.012	0.009	0.0	1.241

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, 15-4. Precipitation from rain gage W-15A. Precipitation and runoff records began January 1956. Precipitation and runoff STA AV based on 14 yr (1958-71) record period. For long-time precipitation records, see National Weather Service records at Jewell, South Dakota.

1971 DAILY PRECIPITATION (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-15	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.048	0.055	0.0	0.02	0.92	0.0	0.0	0.08	1.20	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.59	0.0	0.0	
3	0.0	0.068	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.028	0.0	0.13	0.0	0.0	1.53	0.0	0.018	0.0	
5	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.018	0.0	
6	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	
7	0.0	0.028	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.048	
8	0.088	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.028	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.028	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.028	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.028	0.0	
13	0.048	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.01	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	0.22	0.0	0.0	
15	0.0	0.108	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.02	0.158	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.308	0.0	
17	0.038	0.0	0.058	0.28	0.0	0.18	0.0	0.0	0.0	0.60	0.028	0.0	
18	0.0	0.088	0.138	0.04	0.0	0.04	0.0	0.23	0.0	0.02	0.018	0.0	
19	0.0	0.058	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.048	
20	0.198	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	
21	0.0	0.0	0.028	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.018	0.03	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.03	0.71	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	0.60	0.16	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.028	0.438	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.018	
26	0.048	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.048	
27	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.24	0.0	0.028	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.038	0.0	
29	0.038	0.0	0.0	0.0	0.03	0.04	0.0	0.0	0.0	0.0	0.028	0.0	
30	0.098	0.078	0.02	0.99	0.0	0.0	0.0	0.12	0.0	0.10	0.0	0.0	
31	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.70	0.51	0.37	2.32	3.23	2.38	0.23	0.35	2.72	2.77	0.63	0.16	
STA AV	0.43	0.31	0.65	1.82	2.46	3.02	1.87	0.91	1.20	0.68	0.44	0.36	

NOTES: Precipitation from rain gage W-15A. STA AV based on 14 yr (1958-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					NEWELL, SOUTH DAKOTA WATERSHED 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	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	1.082	0.0	0.0	0.0	0.498	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	0.082	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.329	0.0	0.0
19	0.0	0.0	5.933	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	0.261	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	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.387	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	0.097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.266	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	0.314	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	0.1914	0.0208	0.0234	0.0361	0.0	0.0	0.0	0.0267	0.0027	0.0
INCHES	0.0	0.0	1.228	0.129	0.150	0.224	0.0	0.0	0.0	0.171	0.017	0.0
STA AV	0.055	0.019	0.209	0.225	0.307	0.247	0.144	0.006	0.007	0.012	0.009	0.0

NOTES: STA AV based on 14 yr (1958-71) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.20697.

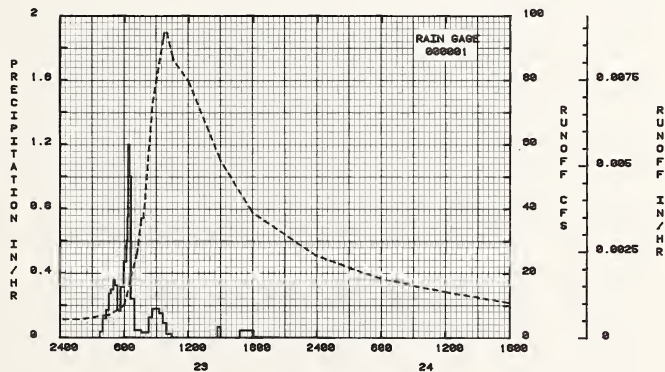
1971 DAILY PRECIPITATION (inches)												NORTE DANVILLE, VERMONT WATERSHED #-1														
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01	0.03	0.02	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.0		
2	0.02	0.07	0.0	0.28	0.43	0.11	0.0	0.56	0.0	0.25	0.0	0.20	2	0.13	0.0	0.37	0.10	1.01	0.09	0.0	2.74	0.0	0.0	0.30	0.02	
3	0.13	0.0	0.0	0.37	0.10	1.01	0.09	0.0	0.0	0.0	0.0	0.0	3	0.0	0.01	1.15	0.08	0.28	0.01	0.0	0.01	0.0	0.0	0.06	0.0	
4	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.11	0.47	0.25	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
5	0.11	0.47	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.03	0.05	0.0	0.0	0.0	0.19	0.0	0.0	0.15	0.0	0.10	
6	0.0	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.19	0.08	0.95	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.20	0.01
7	0.19	0.08	0.95	0.28	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.17	0.0	0.01	0.67	0.0	0.0	0.0	0.08	0.20	0.01	
8	0.0	0.0	0.17	0.0	0.01	0.67	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.39	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.10	0.0	0.31	
9	0.0	0.39	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.04	0.04	0.0	0.70	0.0	0.0	0.0	0.0	0.0	1.55	0.06	0.06	
10	0.04	0.04	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.07	0.01	0.31	0.55	0.0	0.0	0.0	0.41	0.0	0.08	0.13	0.08	
11	0.07	0.01	0.31	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	
12	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.51	0.0	0.0	0.35	0.0	0.37	0.0	0.07	0.0	0.0	0.09	
13	0.0	0.51	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.28	0.0	0.13	0.01	0.0	0.99	0.0	0.33	0.0	0.0	0.03	
14	0.0	0.28	0.0	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.27	
15	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.07	0.43	0.0	0.0	0.17	0.0	0.01	0.0	0.0	0.25	
16	0.0	0.0	0.07	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.02	0.0	0.0	0.10	0.0	0.56	0.0	0.04	0.0	0.0	0.03	
17	0.0	0.02	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.08	
18	0.0	0.18	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	0.48	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.15	0.05	
19	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.58	0.38	0.0	0.02	0.0	0.0	0.83	0.10	0.0	0.06	0.05	
20	0.0	0.58	0.38	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.32	0.08	0.00	0.23	0.43	0.50	0.0	0.19	0.40	0.0	0.06	0.07	
21	0.32	0.08	0.00	0.23	0.43	0.50	0.0	0.0	0.0	0.0	0.0	0.0	21	0.14	0.0	0.01	0.47	0.14	0.0	0.0	0.14	0.0	0.0	0.0	0.07	
22	0.14	0.0	0.01	0.47	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.83	0.0	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.83	0.0	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.02	0.05	0.0	0.0	0.02	0.01	0.09	0.0	0.0	0.0	0.0	0.62	
24	0.02	0.05	0.0	0.0	0.02	0.01	0.09	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.09	0.76	0.65	0.02	0.0	0.0	0.59	1.53	0.19	
25	0.0	0.0	0.0	0.09	0.76	0.65	0.02	0.0	0.0	0.0	0.0	0.0	25	1.15	0.0	0.0	0.02	0.20	0.0	0.0	0.0	0.0	0.02	0.15	0.05	
26	1.15	0.0	0.0	0.02	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.27	0.11	0.0	0.04	0.27	0.0	0.0	0.39	0.43	0.0	0.0	0.14	
27	0.27	0.11	0.0	0.04	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.05	0.10	0.0	0.06	0.0	0.0	0.0	3.66	0.0	0.0	0.04	0.20	
28	0.05	0.10	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.05	0.02	0.0	0.19	0.0	0.0	0.07	0.10	0.0	0.0	0.57	0.07	
29	0.05	0.02	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.29	0.0	0.17	0.23	0.0	0.0	0.0	0.21	0.0	0.0	0.68	0.62	
30	0.29	0.0	0.17	0.23	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	0.20	0.0	0.0	0.0	0.0	0.09	
31	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	3.09	4.88	4.91	3.82	4.29	2.83	5.03	10.72	1.85	3.06	4.55	3.95	
TOTAL	3.09	4.88	4.91	3.82	4.29	2.83	5.03	10.72	1.85	3.06	4.55	3.95	STA AV	2.77	3.46	3.41	3.71	3.82	4.03	3.82	5.03	3.16	4.06	4.65	3.99	

NOTES: Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of January, February, and December during which all precipitation is snow or rain on snow. STA AV based on 13 yr (1959-71) record period.

1971 MEAN DAILY DISCHARGE (cfs)												NORTE DANVILLE, VERMONT WATERSHED #-1													
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	9.56	5.66	12.70	10.47	133.73	15.43	18.56	4.83	13.55	4.33	6.84	12.40	1	9.56	5.66	12.70	10.47	133.73	15.43	18.56	4.83	13.55	4.33	6.84	12.40
2	9.02	5.66	10.66	11.65	127.60	13.72	18.98	7.66	10.64	4.10	6.41	11.01	2	9.02	5.66	10.66	11.65	127.60	13.72	18.98	7.66	10.64	4.10	6.41	11.01
3	7.73	5.53	10.19	29.32	223.32	17.84	7.12	89.21	9.32	5.08	10.48	11.35	3	7.73	5.53	10.19	29.32	223.32	17.84	7.12	89.21	9.32	5.08	10.48	11.35
4	7.37	5.15	10.37	44.40	191.40	15.70	5.11	49.18	8.88	4.22	8.55	10.68	4	7.37	5.15	10.37	44.40	191.40	15.70	5.11	49.18	8.88	4.22	8.55	10.68
5	8.17	5.40	9.82	25.50	160.77	12.44	4.07	15.34	8.49	4.22	8.17	10.03	5	8.17	5.40	9.82	25.50	160.77	12.44	4.07	15.34	8.49	4.22	8.17	10.03
6	8.94	5.66	9.36	23.43	152.75	11.20	3.49	8.44	8.04	4.80	7.45	10.47	6	8.94	5.66	9.36	23.43	152.75	11.20	3.49	8.44	8.04	4.80	7.45	10.47
7	8.33	5.66	9.73	22.63	157.74	10.42	3.87	5.74	7.55	6.64	16.15	10.47	7	8.33	5.66	9.73	22.63	157.74	10.42	3.87	5.74	7.55	6.64	16.15	10.47
8	7.63	5.85	9.72	19.25	137.14	9.86	2.96	4.40	6.68	5.64	13.81	10.19	8	7.63	5.85	9.72	19.25	137.14	9.86	2.96	4.40	6.68	5.64	13.81	10.19
9	7.27	5.64	9.01	19.57	140.99	39.00	2.63	3.60	7.58	5.53	8.79	10.67	9	7.27	5.64	9.01	19.57	140.99	39.00	2.63	3.60	7.58	5.53	8.79	10.67
10	7.37	8.93	8.67	26.92	125.74	17.76	2.46	3.25	5.09	42.66	8.45	13.56	10	7.37	8.93	8.67	26.92	125.74	17.76	2.46	3.25	5.09	42.66	8.45	13.56
11	7.14	10.23	8.67	79.02	115.97	12.74	2.22	4.54	4.85	48.99	9.01	40.90	11	6.84	11.97	8.58	91.91	95.06	10.62	2.02	5.04	12.14	18.10	8.67	33.04
12	6.84	11.97	8.58	91.91	95.06	10.62	2.02	5.04	12.14	18.10	8.67	33.04	12	6.17	13.80	8.33	83.59	93.37	9.20	1.96	3.19	12.66	13.72	5.67	21.08
13	6.17	13.80	8.33	83.59	93.37	9.20	1.96	3.19	12.66	13.72	5.67	21.08	13	5.73	15.19	8.90	74.85	68.16	8.01	6.50	2.58	14.69	11.89	7.34	16.02
14	5.73	15.19	8.90	74.85	68.16	8.01	6.50	2.58	14.69	11.89	7.34	16.02	14	5.66	20.09	12.52	51.78	52.81	7.14	5.80	2.46	15.09	10.05	7.55	15.46
15	5.66	20.09	12.52	51.78	52.81	7.14	5.80	2.46	15.09	10.05	7.55	15.46	15	5.66	34.26	20.99	41.95	45.38	6.74	3.76	2.53	9.75	8.71	7.26	38.88
16	5.66	34.26	20.99	41.95	45.38	6.74	3.76	2.53	9.75	8.71	7.26	38.88	16	5.66	33.45	30.43	44.31	44.44	6.16	4.71	2.22	9.54	8.25	7.25	28.72
17	5.66	33.45	30.43	44.31	44.44	6.16	4.71	2.22	9.54	8.25	7.25	28.72	17	5.45	29.95	20.15	68.88	39.71	5.41	7.58	1.98	11.18	7.53	8.32	16.37
18	5.45	29.95	20.15	68.88	39.71	5.41	7.58	1.98	11.18	7.53	8.32	16.37	18	5.40	18.13	15.29	146.71	33.57	4.96	4.72	1.94	8.98	7.06	10.83	10.35
19	5.40	18.13	15.29	146.71	33.57	4.96	4.72	1.94	8.98	7.06	10.83	10.35	19	5.79	12.86	14.87	177.53	28.86	4.44						

1971 SELECTED RUNOFF EVENT			NORTH DAVILLE, 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 AUGUST 23 - 24, 1971										
8-23	RG 000001 0.0	0.000	8-23	RG 000001 343	0.0	0.0	8-23	19	5.659	0.0
				359	0.0375	0.01		146	5.659	0.0008
				419	0.1200	0.05		438	7.065	0.0025
				433	0.1715	0.09		601	10.091	0.0036
				444	0.2727	0.14		711	25.998	0.0056
WATERSHED CONDITIONS: Forest land, 64%; hay, 16%; pastured land, 15%; idle land with dense grass and brush growth, 3%; seeded to corn, 1%; and hoesites, 1%.										
				458	0.3000	0.21		736	37.132	0.0068
				508	0.3600	0.27		748	37.132	0.0075
				521	0.3231	0.34		838	73.121	0.0118
				539	0.1666	0.39		901	80.814	0.0146
				558	0.3158	0.49		934	91.807	0.0190
				612	0.4714	0.60		943	94.690	0.0203
				617	0.6000	0.65		957	94.690	0.0224
				621	0.7498	0.70		1034	86.204	0.0276
				628	1.2001	0.84		1200	79.899	0.0387
				637	1.0000	0.99		1501	54.841	0.0576
				657	0.2400	1.07		1759	38.801	0.0706
				736	0.0462	1.10		2400	25.340	0.0886
				818	0.0286	1.12	8-24	559	18.226	0.1008
				837	0.1263	1.16		1200	14.251	0.1099
				917	0.1800	1.28		1800	10.654	0.1169
				937	0.1500	1.33				
				957	0.0900	1.36		2400	8.666	0.1224
				1025	0.0214	1.37				
				1443	0.0	1.37				
				1501	0.0666	1.39				
				1649	0.0	1.39				
				1807	0.0462	1.45				
				2400	0.0034	1.47				

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 AUGUST 23 - 24, 1971
NORTH DAVILLE, VERMONT WATERSHED W-1

1971		DAILY PRECIPITATION (inches)					NORTH DANVILLE, VERMONT WATERSHED #2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.09	0.0	0.0	0.0	0.0
2	0.01	0.01	0.0	0.27	0.35	0.13	0.0	0.41	0.0	0.05	0.20	0.0
3	0.04	0.0	0.25	0.14	0.0	0.69	0.12	0.0	2.50	0.0	0.0	0.15
4	0.09	0.0	0.61	0.0	0.08	0.0	0.0	0.01	0.0	0.0	0.05	0.0
5	0.0	0.30	0.14	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.02	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.18	0.0	0.35
7	0.05	0.05	0.79	0.24	0.0	0.65	0.0	0.0	0.0	0.02	0.05	0.14
8	0.0	0.78	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
9	0.0	0.16	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.10	0.0	0.24
10	0.03	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.05
11	0.07	0.0	0.21	0.30	0.0	0.0	0.0	0.30	0.0	0.02	0.0	0.09
12	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.09	0.19	0.0
13	0.0	0.51	0.0	0.0	0.30	0.0	0.35	0.0	0.06	0.01	0.0	0.04
14	0.16	0.09	0.0	0.04	0.0	0.0	0.34	0.0	0.11	0.0	0.0	0.0
15	0.04	0.01	0.09	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.39
16	0.0	0.0	0.03	0.11	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.04
17	0.0	0.05	0.0	0.0	0.45	0.0	0.28	0.0	0.11	0.0	0.0	0.01
18	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.06
19	0.0	0.0	0.35	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.06	0.04
20	0.0	0.54	0.25	0.01	0.03	0.0	0.0	0.76	0.04	0.0	0.0	0.06
21	0.30	0.07	0.07	0.24	0.36	0.54	0.0	0.13	0.20	0.0	0.04	0.01
22	0.10	0.02	0.11	0.0	0.13	0.0	0.26	0.0	0.0	0.0	0.0	0.04
23	0.16	0.62	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0
24	0.0	0.07	0.0	0.0	0.01	0.0	0.07	0.0	0.0	0.0	0.0	0.44
25	0.01	0.02	0.0	0.05	0.25	0.66	0.01	0.0	0.0	0.46	1.17	0.06
26	0.72	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	6.01	0.08	0.02
27	0.11	0.14	0.0	0.06	0.11	0.0	0.33	0.0	0.0	0.02	0.12	0.12
28	0.02	0.0	0.0	0.06	0.0	0.0	0.0	2.17	0.0	0.02	0.0	0.17
29	0.03	0.04	0.09	0.0	0.0	0.0	0.31	0.02	0.06	0.0	0.40	0.03
30	0.27	0.06	0.11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.55	0.50
31	0.03	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.08
TOTAL	2.28	3.53	2.95	2.58	3.00	2.61	3.46	8.21	1.36	2.14	2.85	3.16
STA AV	1.91	2.31	2.31	2.96	3.11	3.33	3.19	4.23	2.48	3.28	3.54	3.11

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed #7001. Daily precipitation values from rain gauge T-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 13 yr (1959-71) record period.

1968		MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED #2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.208	0.157	0.124	1.158	0.340	0.289	0.269	0.138	0.086	0.052	0.072	0.130
2	0.208	0.258	0.121	0.763	0.317	0.282	0.193	0.100	0.073	0.050	0.091	0.135
3	0.208	0.537	0.114	0.719	0.312	0.258	0.169	0.085	0.070	0.059	0.080	0.134
4	0.208	0.232	0.114	0.802	0.406	0.246	0.144	0.076	0.070	0.059	0.070	0.200
5	0.208	0.205	0.114	0.782	0.315	0.231	0.141	0.072	0.065	0.103	0.060	0.431
6	0.208	0.194	0.114	0.579	0.286	0.210	0.251	0.077	0.106	0.068	0.060	0.210
7	0.208	0.181	0.111	0.552	0.265	0.197	0.201	0.087	0.090	0.228	0.070	0.173
8	0.208	0.167	0.113	0.552	0.256	0.190	0.150	0.069	0.066	0.115	0.214	0.144
9	0.208	0.164	0.114	0.520	0.299	0.556	0.149	0.097	0.050	0.083	0.127	0.166
10	0.197	0.165	0.119	0.497	0.304	0.840	0.541	0.083	0.060	0.073	0.135	0.135
11	0.181	0.156	0.119	0.441	0.260	0.306	0.218	0.054	0.889	0.083	0.127	0.122
12	0.181	0.145	0.114	0.417	0.297	0.322	0.177	0.052	0.258	0.072	0.096	0.122
13	0.181	0.145	0.114	0.394	0.263	0.268	0.169	0.058	0.121	0.067	0.106	0.122
14	0.181	0.145	0.114	0.379	0.228	0.296	0.150	0.055	0.095	0.061	0.096	0.198
15	0.181	0.145	0.114	0.607	0.216	0.379	0.150	0.044	0.066	0.057	0.087	0.172
16	0.175	0.142	0.191	0.449	0.209	0.265	0.150	0.046	0.070	0.057	0.087	0.127
17	0.169	0.134	1.050	0.362	1.556	0.351	0.390	0.148	0.062	0.055	0.088	0.122
18	0.169	0.134	1.328	0.340	0.475	0.266	0.235	0.082	0.057	0.049	0.255	0.108
19	0.169	0.134	2.640	0.332	0.614	0.411	0.322	0.056	0.057	0.118	0.412	0.103
20	0.169	0.134	1.703	0.309	0.966	0.371	0.207	0.275	0.049	0.131	0.135	0.130
21	0.169	0.129	1.521	0.308	0.425	0.255	0.148	0.184	0.045	0.071	0.108	0.169
22	0.169	0.114	2.588	0.307	0.604	0.284	0.128	0.075	0.049	0.069	0.103	0.169
23	0.169	0.114	3.716	0.281	0.372	0.275	0.122	0.061	0.038	0.064	0.103	0.181
24	0.164	0.114	1.517	1.048	0.323	0.426	0.144	0.062	0.040	0.061	0.123	0.181
25	0.157	0.114	0.854	1.145	0.297	0.341	0.142	0.127	0.093	0.150	0.172	0.172
26	0.157	0.114	0.919	0.434	0.278	0.252	0.099	0.082	0.083	0.087	0.102	0.161
27	0.157	0.114	1.333	0.607	0.275	0.209	0.114	0.067	0.064	0.066	0.097	0.157
28	0.157	0.114	1.143	0.411	0.253	0.284	0.393	0.070	0.058	0.194	0.197	0.212
29	0.157	0.130	1.199	0.364	0.305	0.480	0.141	0.077	0.057	0.129	0.557	0.228
30	0.157	0.104	1.062	0.356	0.327	0.364	0.108	0.086	0.054	0.089	0.185	0.181
31	0.157	0.095	1.011	0.355	0.355	0.106	0.086	0.075	0.075	0.075	0.181	0.181
MEAN	0.1805	0.1631	0.8209	0.5405	0.3871	0.3235	0.1943	0.0918	0.1033	0.0863	0.1397	0.1686
INCHES	0.912	0.771	4.148	2.643	1.956	1.582	0.982	0.464	0.505	0.436	0.683	0.852
STA AV	0.775	0.707	2.152	3.558	1.987	1.031	0.611	0.293	0.366	0.692	1.076	1.174

NOTES: To convert mean daily discharge in CFS to IVDAT, multiply by 0.1630250. Snowoff values are revised and supercede values previously published for 1968. STA AV based on 10 yr (1959-1968) record period.

1969		MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED W-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.169	0.204	0.157	0.237	0.904	0.367	0.180	0.165	0.098	0.075	0.087	0.230
2	0.169	0.194	0.157	0.276	0.789	0.361	0.164	0.578	0.108	0.087	0.128	0.237
3	0.169	0.194	0.157	0.241	0.750	0.515	0.199	0.085	0.100	0.262	0.196	0.223
4	0.169	0.189	0.157	0.359	0.668	0.358	0.184	0.201	0.092	0.107	0.079	0.234
5	0.169	0.170	0.157	0.513	0.611	0.333	0.176	0.676	0.088	0.092	0.743	0.224
6	0.169	0.169	0.157	0.732	0.574	0.438	0.146	0.236	0.272	0.088	0.420	0.222
7	0.169	0.169	0.155	0.746	0.616	0.365	0.143	0.174	0.368	0.087	0.285	0.222
8	0.169	0.169	0.145	0.746	0.643	0.313	0.138	0.266	0.275	0.088	0.367	0.276
9	0.169	0.169	0.145	0.822	0.981	0.277	0.145	0.215	0.216	0.076	0.234	0.430
10	0.169	0.169	0.142	1.855	0.611	0.256	0.156	0.365	0.136	0.071	0.216	0.325
11	0.169	0.169	0.134	1.887	0.960	0.244	0.164	0.213	0.120	0.071	0.272	1.260
12	0.169	0.169	0.134	1.647	0.640	0.235	0.275	0.154	0.113	0.071	0.236	0.425
13	0.169	0.169	0.134	2.685	0.647	1.526	0.182	0.136	0.098	0.071	0.265	0.316
14	0.169	0.160	0.134	3.544	0.653	0.392	0.136	0.135E	0.096	0.083	0.296	0.294
15	0.169	0.157	0.134	3.617	0.557	1.102	0.129	0.103	0.094	0.071	0.333	0.303
16	0.169	0.157	0.134	3.209	0.507	0.655	0.114	0.093	0.092	0.071	0.229	0.285
17	0.169	0.154	0.142	3.519	0.884	0.351	0.101	0.346	0.234	0.072	0.217	0.264
18	0.169	0.145	0.158	4.186	0.562	0.313	0.100B	0.191	0.124	0.083	0.222	0.268
19	0.169	0.145	0.205	4.859	0.866	0.083	0.090	0.218	0.101	0.071	0.228	0.283
20	0.169	0.154	0.255	2.598	2.462	0.424	0.093	0.142	0.093	0.228	0.709	0.278
21	0.169	0.161	0.260	2.329	0.697	0.283	0.094	0.122	0.092	0.173	0.258	0.279
22	0.169	0.160	0.228	2.064	0.589	0.250	1.213	0.118	0.090	0.124	0.230	0.207
23	0.169	0.157	0.230	2.338	0.569	0.353	0.135	0.094	0.087	0.107	0.230	0.522
24	0.169	0.157	0.219	1.979	0.588	0.378	0.112	0.118	0.085	0.105	0.262	0.368
25	0.169	0.166	0.524	1.558	0.610	0.308	0.099	0.097	0.122	0.139	0.221	0.285
26	0.229	0.158	0.429	1.386	0.511	0.264	0.186	0.159	0.102	0.131	0.217E	0.307
27	0.195	0.157	0.333	1.383	0.491	0.244	0.128	0.129E	0.101	0.126	0.222E	1.234
28	0.175	0.157	0.288	1.819	0.527	0.333	0.401	0.104	0.089	0.098	0.222E	0.408
29	0.169	0.328	1.499	0.461	0.207	0.103	0.096	0.078	0.078	0.086	0.222E	0.361
30	0.2994	0.294	1.052	0.887	0.202	0.380	0.125	0.092	0.084	0.086	0.222E	0.356
31	0.421	0.255	0.255	0.386	0.386	0.256	0.097	0.097	0.086	0.086	0.339	
MEAN	0.1934	0.1660	0.2110	1.8464	0.6964	0.3979	0.2261	0.1993	0.1262	0.1031	0.2947	0.3673
INCREAS	0.977	0.758	1.067	9.030	3.519	1.946	1.143	1.007	0.617	0.521	1.441	1.856
STA AV	0.794	0.712	2.053	4.056	2.126	1.114	0.660	0.477	0.388	0.676	1.110	1.236

NOTES: To convert mean daily discharge in CFS to M³/DAY, multiply by 0.1630250. Baseflow values are revised and spaced values previously published for 1969. STA AV based on 11 yr (1959-1969) record period.

1970		MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED W-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.320	0.208	0.222	0.269	0.640	0.301	0.225E	0.122	0.058	0.055	0.045	NR
2	0.314	0.688E	0.222	0.614	0.626	0.256	0.163E	0.157	0.041	0.051	0.045	NR
3	0.305	2.705E	0.222	0.632	0.622	0.229	0.160E	0.079	0.055	0.132	0.045	NR
4	0.263	0.809E	0.210	0.392	0.602	0.204	0.256E	0.071	0.122	0.090	0.045	NR
5	0.286	0.423E	0.208	0.350	0.547	0.600	0.217E	0.052	0.120	0.065	0.045	NR
6	0.285	0.361	0.208	0.346E	0.577	0.576	0.119E	0.043	0.086	0.054	0.041	NR
7	0.285	0.334	0.207	0.424	0.493	0.279	0.096E	0.034	0.065	0.049	0.040	NR
8	0.285	0.315	0.194	0.539	0.465	0.225	0.080E	0.030	0.056	0.048	0.040	NR
9	0.269	0.303	0.194	1.536	0.448	0.199	0.080E	0.025	0.049	0.044	0.037	NR
10	0.269	0.309	0.194	0.847	0.544	0.189	0.077E	0.025	0.037	0.039	0.049	NR
11	0.269	0.703	0.194	0.715	0.555	0.167E	0.107E	0.032	0.022	0.060	0.100	NR
12	0.261	0.460	0.194	1.256	0.466	0.181	0.077E	0.037	0.011	0.054	0.069	NR
13	0.267	0.373	0.192	1.282	0.413	0.154	0.063E	0.030	0.007	0.056	0.062	NR
14	0.253	0.317	0.181	1.785	0.373	0.144	0.072E	0.027	0.010	0.089	0.057	NR
15	0.253	0.303	0.181	1.934	0.386	0.135E	0.073E	0.024	0.019	0.148	0.135	NR
16	0.241	0.303	0.181	1.706	0.385	0.111E	0.109E	0.021	0.056	0.100	0.134	NR
17	0.237	0.293	0.181	1.317	0.216	0.020	0.080E	0.020	0.020	0.077	0.091	NR
18	0.237	0.285	0.181	1.864	0.490	0.149E	0.093E	0.018	0.050	0.066	0.079	NR
19	0.237	0.285	0.191	1.198	0.394	0.129	0.079E	0.021	0.047	0.059	0.088	NR
20	0.237	0.281	0.205	1.250	0.348	0.124	0.053E	0.024	0.035	0.052	0.082	NR
21	0.225	0.269	0.243	1.294	0.308	0.115	0.054E	0.120	0.034	0.051	0.167	NR
22	0.222	0.269E	0.280	1.038	0.392	0.126E	0.062E	0.036	0.063	0.059	0.086	NR
23	0.221	0.269E	0.270	0.918	0.330	0.103E	0.052	0.113	0.038	0.176	0.111	NR
24	0.208	0.251	0.308E	2.811	0.282	0.079E	0.049	0.096	0.032	0.089	0.070	NR
25	0.208	0.237	0.375	1.172	0.299	0.080E	0.045	0.060	0.054	0.073	0.064	NR
26	0.208	0.237	0.241	0.891	0.509	0.084E	0.043	0.046	0.049	0.066	0.064	NR
27	0.208	0.223	0.368	0.835	0.378	0.567E	0.037	0.057	0.084	0.061	0.032	NR
28	0.208	0.222	0.287	0.777	0.316	0.169E	0.035	0.089	0.063	0.041	NR	NR
29	0.214	0.275E	0.707	0.311	0.122E	0.036	0.138	0.088	0.0	NR	NR	NR
30	0.378	0.249	0.669	0.298	0.298	0.635E	0.034	0.070	0.068	0.110	NR	NR
31	0.222	0.239	0.239	0.267	0.267	0.034	0.067	0.034	0.034	0.034	0.034	NR
MEAN	0.2557	0.4291	0.2257	1.0756	0.4645	0.2191	0.0886	0.0705	0.0559	0.0698	0.086	0.237
INCREAS	1.292	1.959	1.811	5.216	2.387	1.071	0.448	0.354	0.273	0.353	0.353	0.353
STA AV	0.835	0.816	1.977	4.156	2.144	1.111	0.642	0.467	0.379	0.649	1.110	1.236

NOTES: To convert mean daily discharge in CFS to M³/DAY, multiply by 0.1630250. Baseflow values are revised and spaced values previously published for 1970. t-2 closed for water operation beginning Nov. 28, 1970 thru March 15, 1971. Daily values for this period are denoted by "NR". STA AV based on 12 yr (1959-70) record period (winter closed down months not included).

1971 BEAN DAILY DISCHARGE (cfs)												NORTH DANVILLE, VERMONT WATERSHED #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	NR	NR	NR	NR	1.395	0.313	0.684	0.104	0.109	0.075	0.095	NR	1	NR	NR	NR	NR	1.395	0.313	0.684	0.104	0.109	0.075	0.095	NR		
2	NR	NR	NR	NR	0.173	1.513	0.307	0.415	0.187	0.097	0.088	0.136	ER	2	NR	NR	NR	NR	0.173	1.513	0.307	0.415	0.187	0.097	0.088	0.136	ER
3	NR	NR	NR	NR	0.476	2.673	0.400	0.137	1.579	0.096	0.090	0.125	NR	3	NR	NR	NR	NR	0.476	2.673	0.400	0.137	1.579	0.096	0.090	0.125	NR
4	NR	NR	NR	NR	0.279	1.685	0.315	0.117	0.265	0.096	0.075	0.114	NR	4	NR	NR	NR	NR	0.279	1.685	0.315	0.117	0.265	0.096	0.075	0.114	NR
5	NR	NR	NR	NR	0.245	1.352	0.276	0.106	0.139	0.096	0.075E	0.107	NR	5	NR	NR	NR	NR	0.245	1.352	0.276	0.106	0.139	0.096	0.075E	0.107	NR
6	NR	NR	NR	NR	0.269	1.133	0.268	0.117	0.111	0.092	0.114	0.105	NR	6	NR	NR	NR	NR	0.269	1.133	0.268	0.117	0.111	0.092	0.114	0.105	NR
7	NR	NR	NR	NR	0.244	1.001	0.332	0.104	0.089	0.088	0.110	0.244	NR	7	NR	NR	NR	NR	0.244	1.001	0.332	0.104	0.089	0.088	0.110	0.244	NR
8	NR	NR	NR	NR	0.202	0.931	0.699	0.075	0.087	0.080	0.092	0.137	NR	8	NR	NR	NR	NR	0.202	0.931	0.699	0.075	0.087	0.080	0.092	0.137	NR
9	NR	NR	NR	NR	0.252	0.949	0.317	0.084	0.064	0.075	0.109	0.109	NR	9	NR	NR	NR	NR	0.252	0.949	0.317	0.084	0.064	0.075	0.109	0.109	NR
10	NR	NR	NR	NR	0.455	0.842	0.249	0.071	0.058	0.069	0.612	0.106	NR	10	NR	NR	NR	NR	0.455	0.842	0.249	0.071	0.058	0.069	0.612	0.106	NR
11	ER	NR	NR	NR	0.965	0.777	0.229	0.063	0.110	0.074	0.245	0.131	NR	11	ER	NR	NR	NR	0.965	0.777	0.229	0.063	0.110	0.074	0.245	0.131	NR
12	NR	ER	NR	NR	0.822	0.758	0.222	0.060	0.071	0.164	0.144	0.129	NR	12	NR	ER	NR	NR	0.822	0.758	0.222	0.060	0.071	0.164	0.144	0.129	NR
13	NR	ER	NR	NR	0.635	0.871	0.207	0.087	0.052	0.128	0.134	0.132	NR	13	NR	ER	NR	NR	0.635	0.871	0.207	0.087	0.052	0.128	0.134	0.132	NR
14	ER	NR	NR	NR	0.573	0.748	0.188	0.211	0.043	0.185	0.122	0.112	NR	14	ER	NR	NR	NR	0.573	0.748	0.188	0.211	0.043	0.185	0.122	0.112	NR
15	NR	NR	NR	NR	0.522	0.655	0.188	0.110	0.044	0.153	0.119	0.105	NR	15	NR	NR	NR	NR	0.522	0.655	0.188	0.110	0.044	0.153	0.119	0.105	NR
16	NR	NR	NR	NR	0.136	0.498	0.639	0.185	0.091	0.049	0.103	0.110	NR	16	NR	NR	NR	NR	0.136	0.498	0.639	0.185	0.091	0.049	0.103	0.110	NR
17	NR	NR	NR	NR	0.192	0.724	0.757	0.168	0.132	0.045	0.184	0.109	NR	17	NR	NR	NR	NR	0.192	0.724	0.757	0.168	0.132	0.045	0.184	0.109	NR
18	NR	NR	NR	NR	0.158	1.277	0.607	0.159	0.113	0.035	0.154	0.101	NR	18	NR	NR	NR	NR	0.158	1.277	0.607	0.159	0.113	0.035	0.154	0.101	NR
19	NR	NR	NR	NR	0.146	2.562	0.552	0.148	0.166	0.032	0.108	0.095	NR	19	NR	NR	NR	NR	0.146	2.562	0.552	0.148	0.166	0.032	0.108	0.095	NR
20	NR	NR	NR	NR	0.137	1.012	0.513	0.140	0.162	0.098	0.101	0.101	NR	20	NR	NR	NR	NR	0.137	1.012	0.513	0.140	0.162	0.098	0.101	0.101	NR
21	NR	ER	NR	NR	0.134	2.451	0.661	0.274	0.090	0.094	0.153	0.102	NR	21	NR	ER	NR	NR	0.134	2.451	0.661	0.274	0.090	0.094	0.153	0.102	NR
22	NR	NR	NR	NR	0.134	2.651	0.683	0.197	0.075	0.107	0.107	0.118	NR	22	NR	NR	NR	NR	0.134	2.651	0.683	0.197	0.075	0.107	0.107	0.118	NR
23	NR	ER	NR	NR	0.134	2.033	0.504	0.150	0.063	0.054	0.094	0.095	NR	23	NR	ER	NR	NR	0.134	2.033	0.504	0.150	0.063	0.054	0.094	0.095	NR
24	NR	NR	NR	NR	0.134	2.401	0.457	0.138	0.068	0.110	0.088	0.092	NR	24	NR	NR	NR	NR	0.134	2.401	0.457	0.138	0.068	0.110	0.088	0.092	NR
25	NR	ER	NR	NR	0.137	2.226	0.503	0.253	0.073	0.081	0.084	0.124E	NR	25	NR	ER	NR	NR	0.137	2.226	0.503	0.253	0.073	0.081	0.084	0.124E	NR
26	ER	NR	NR	NR	0.134	1.990	0.584	0.222	0.057	0.070	0.079	0.167	NR	26	ER	NR	NR	NR	0.134	1.990	0.584	0.222	0.057	0.070	0.079	0.167	NR
27	ER	NR	NR	NR	0.134	1.930	0.485	0.170	0.074	0.105	0.074	0.125	NR	27	ER	NR	NR	NR	0.134	1.930	0.485	0.170	0.074	0.105	0.074	0.125	NR
28	NR	ER	NR	NR	0.134	1.797	0.473	0.163	0.056	0.178	0.078	0.111	NR	28	NR	ER	NR	NR	0.134	1.797	0.473	0.163	0.056	0.178	0.078	0.111	NR
29	NR	ER	NR	NR	0.137	1.841	0.394	0.162	0.095	0.241	0.092	0.104	NR	29	NR	ER	NR	NR	0.137	1.841	0.394	0.162	0.095	0.241	0.092	0.104	NR
30	NR	ER	NR	NR	0.137	1.833	0.366	0.158E	0.093	0.177	0.081	0.104	NR	30	NR	ER	NR	NR	0.137	1.833	0.366	0.158E	0.093	0.177	0.081	0.104	NR
31	NR	ER	NR	NR	0.134	0.337	0.337	0.142	0.134	0.101	0.101	0.101	NR	31	NR	ER	NR	NR	0.134	0.337	0.337	0.142	0.134	0.101	0.101	0.101	NR
MEAN				1.1824	0.8323	0.2369	0.1292	0.2132	0.1061	0.1297	0.1197																
INCHES				5.783	4.206	1.158	0.653	1.078	0.519	0.655	0.585																
STA AV				0.835	0.816	1.977	4.281	2.303	1.114	0.643	0.514	0.390	0.650	1.066	1.236												

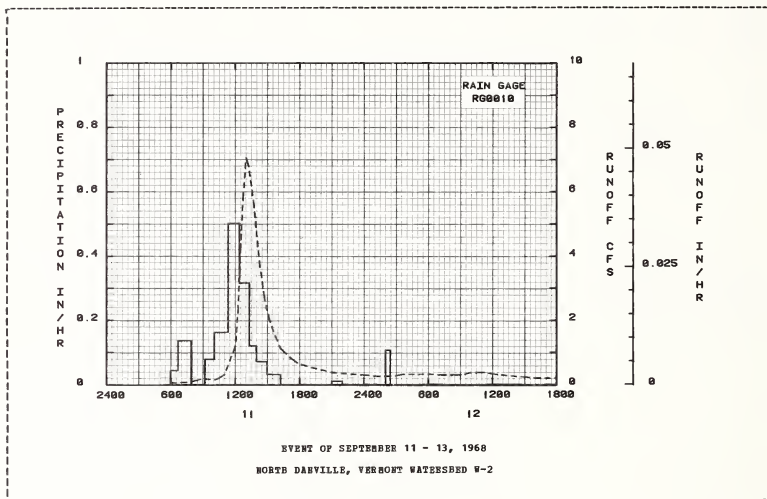
NOTES: To convert mean daily discharge in CFS to IN/HR, multiply by 0.1630250. #2 closed for winter operations beginning Nov. 28, 1970 thru March 15, 1971. Daily values for this period are denoted by "NR". STA AV based on 13 yr (1959-1971) record period (winter closed down months not included).

1968 SELECTED RUNOFF EVENT												NORTH DANVILLE, VERMONT WATERSHED #2											
ANTECEDENT CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	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)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF SEPTEMBER 11 - 13, 1968																							
EG RG0010																							
9-11	0.0	0.002	9-11		558	0.0	0.0	9-11	600	0.057	0.0												
					639	0.0439	0.03		700	0.070	0.0004												
					753	0.1378	0.20		800	0.103	0.0010												
					910	0.0	0.20		845	0.168	0.0017												
					1003	0.0792	0.27		1015	0.168	0.0034												
WATERSHED CONDITIONS:																							
Pasture or mostly bluegrass					1120	0.1636	0.48		1100	0.325	0.0047												
30% cultivated land entirely					1222	0.5032	1.00		1200	1.198	0.0099												
in clover and orchard grass					1319	0.3158	1.30		1215	2.325	0.0129												
hay, 37%; and forest stand,					1359	0.1200	1.38		1230	4.379	0.0186												
predominantly hardwoods, 25%.					1458	0.0712	1.45		1245	5.990	0.0274												
					1614	0.0316	1.49		1300	7.061	0.0385												
					2059	0.0	1.49		1315	6.782	0.0503												
					2159	0.0100	1.50		1345	5.496	0.0712												
			9-12		200	0.0	1.50		1415	3.786	0.0870												
					228	0.1071	1.55		1445	2.610	0.0979												
									1515	1.936	0.1056												
									1545	1.486	0.1114												
									1615	1.111	0.1158												
									1645	0.949	0.1193												
									1715	0.803	0.1223												
									1745	0.672	0.1248												
									1815	0.613	0.1270												
									2100	0.365	0.1361												
									2400	0.288	0.1428												
								9-12	130	0.254	0.1473												
									345	0.325	0.1498												
									600	0.325	0.1548												
									715	0.288	0.1574												
									900	0.288	0.1608												

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.006793. Runoff values are revised and supersede values previously published for 1968. For 30-day antecedent rainfall and runoff, see tables of daily amounts.

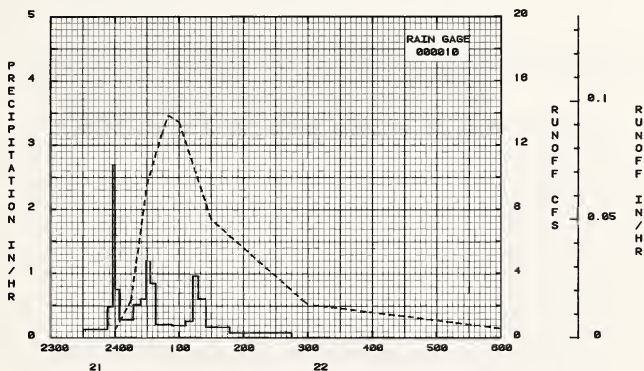
1968 SELECTED RUNOFF EVENT				NORTH DAVILLE, VERMONT WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNCFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 11 - 13, 1968 (CONTINUED)											
							9-12	1000	0.365	0.1630	
								1115	0.365	0.1661	
								1200	0.325	0.1679	
								1500	0.223	0.1735	
								1630	0.194	0.1756	
								1815	0.194	0.1779	
								2400	0.168	0.1850	
			9-13					600	0.144	0.1914	
								1200	0.103	0.1964	
								1800	0.103	0.2006	
								2400	0.103	0.2048	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.006793. Runoff values are revised and supersede values previously published for 1968. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



1969 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED #2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 21 - 22, 1969										
RG 000010			RG 000010							
7-21	0.0	0.015	7-21	2330	0.0	0.0	7-21	2400	0.508	0.0
				2353	0.1308	0.05	7-22	15	2.325	0.0028
				2358	0.4799	0.09		30	9.560	0.0125
				2400	2.6998	0.18		45	12.988	0.0316
			7-22	4	0.7498	0.23		50	13.839	0.0391
WATERSHED CONDITIONS:										
Pasture or mostly bluegrass			17	0.2770	0.29		100	13.407	0.0586	
38% cultivated land entirely			26	0.5183	0.35		130	7.387	0.0898	
in clover and orchard grass			29	0.6000	0.80		300	2.060	0.1377	
hay, 37% and forest stand,			33	1.1998	0.48		600	0.556	0.1644	
predominantly hardwoods, 25%.			38	0.8401	0.55		1200	0.325	0.1824	
			53	0.2000	0.60		1245	0.253	0.1839	
			106	0.1886	0.64					
			113	0.2571	0.67					
			118	0.9600	0.75					
			125	0.6001	0.82					
			147	0.1636	0.88					
			212	0.0720	0.91					
			245	0.0727	0.95					

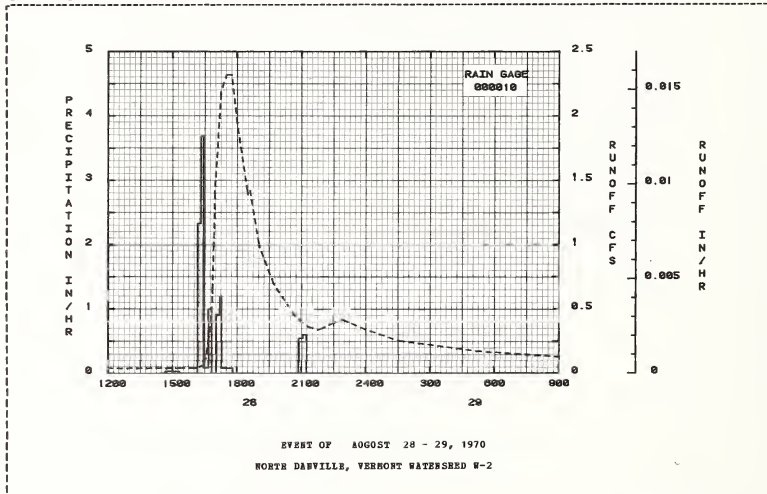
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.006793. Runoff values are revised and supersede values previously published for 1969. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



EVENT OF JULY 21 - 22, 1969
NORTH DANVILLE, VERMONT WATERSHED #2

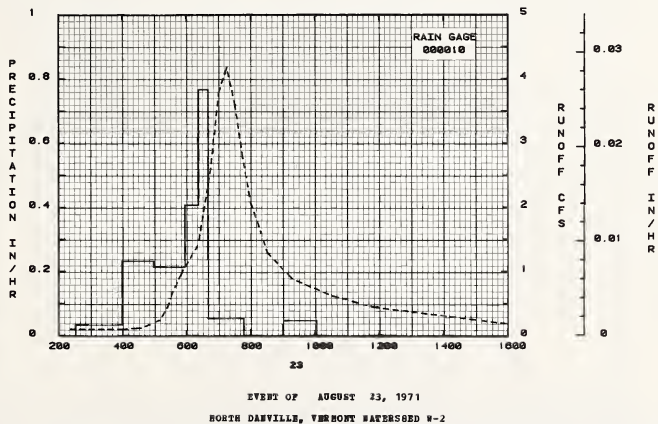
1970 SELECTED RENOFF EVENT			NORTH DAVVILLE, VERMONT WATERSHED W-2								
ANTECEDENT CONDITIONS			RAINFALL			RNOFF			RNOFF		
Date No-Day	Rainfall (inches)	Rnsoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 28 - 29, 1970											
NG 000010			NG 000010								
8-28	0.0	0.003	8-28	1440	0.0	0.0	8-28	1200	0.040	0.0	
				1520	0.0300	0.02		1520	0.035	0.0008	
				1610	0.0	0.02		1610	0.035	0.0010	
				1619	2.3332	0.37		1616	0.045	0.0010	
				1626	3.6861	0.80		1621	0.057	0.0010	
WATERSHED CONDITIONS:											
Pasture or mostly bluegrass			1641	0.0800	0.82		1626	0.095	0.0010		
30%; cultivated land entirely			1650	0.9999	0.97		1633	0.124	0.0011		
in clover and orchard grass			1702	0.0	0.97		1640	0.253	0.0013		
hay, 37%; and forest stand,			1712	0.9000	1.12		1649	0.440	0.0017		
predominantly hardwoods, 25%.			1717	1.2000	1.22		1652	0.693	0.0019		
			1749	0.0750	1.26		1655	1.017	0.0022		
			2052	0.0	1.26		1658	1.418	0.0026		
			2103	0.5455	1.36		1715	2.190	0.0061		
			2114	0.5999	1.47		1730	2.325	0.0099		
							1745	2.325	0.0138		
							1800	1.936	0.0174		
							1830	1.386	0.0230		
							1836	1.418	0.0239		
							1903	0.982	0.0276		
							1943	0.693	0.0314		
							2043	0.440	0.0352		
							2119	0.358	0.0368		
							2147	0.339	0.0379		
							2205	0.358	0.0386		
							2219	0.378	0.0392		
							2239	0.398	0.0401		
							2253	0.419	0.0408		
							2309	0.398	0.0415		
							2400	0.339	0.0426		
							8-29	134	0.253	0.0467	
							510	0.169	0.0519		
							754	0.145	0.0548		
							1139	0.134	0.0584		
							1530	0.095	0.0614		
							1850	0.078	0.0634		
							2400	0.078	0.0661		

NOTES: To convert renoff in CFS to IN/HR, multiply by 0.006793. Rnsoff values are revised and supersede values previously published for 1970. For 30-day antecedent rainfall and rnsoff, see tables of daily amounts.



1971 SELECTED RUNOFF EVENT				ROTHS DAVILLE, VERMONT WATERSHED #2						
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 23, 1971										
RG 000010			RG 000010							
8-23	0.0	0.002	8-23	232	0.0	0.0	8-23	221	0.108	0.0
				359	0.0305	0.05		359	0.108	0.0012
				458	0.2339	0.28		438	0.124	0.0017
				557	0.2136	0.49		509	0.237	0.0028
				622	0.4080	0.66		524	0.440	0.0030
WATERSHED CONDITIONS:										
Pasture or mostly bluegrass				640	0.7667	0.89		534	0.693	0.0036
36%; cultivated land entirely				747	0.6537	0.95		553	1.017	0.0054
in clover and orchard grass				900	0.0	0.95		622	1.418	0.0094
hay, 37%; and forest stand,				1003	0.0476	1.00		685	2.610	0.0166
predominantly hardwoods, 25%.								700	3.786	0.0200
								715	4.175	0.0268
								730	3.601	0.0338
								745	2.761	0.0388
								800	2.060	0.0429
								815	1.701	0.0461
								831	1.290	0.0488
								918	0.879	0.0546
								1035	0.610	0.0611
								1150	0.440	0.0656
								1453	0.253	0.0728
								1859	0.181	0.0788
								2142	0.157	0.0819
								2215	0.157	0.0825
								2226	0.169	0.0827
								2400	0.185	0.0844

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.



NOTICE DAVILLE, 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)													NOTICE DAVILLE, VERMONT WATERSHED W-3													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1971	P	3.09	4.88	4.91	3.82	4.29	2.83	5.03	10.72	1.85	3.06	4.55	3.95	52.98												
	Q	0.691	0.741	0.947	4.829	7.193	1.290	0.672	1.641	0.967	1.035	0.920	1.271	22.196												
STA AV	P	2.77	3.46	3.41	3.71	3.82	4.03	3.82	5.03	3.16	4.06	4.65	3.99	45.90												
	Q	1.003	0.915	1.092	6.562	4.073	1.519	0.901	0.875	0.720	1.156	1.466	1.338	22.020												

ANNUAL MAXIMUM DISCHARGE (10/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1971	Discharge		1 Hour		2 Hours		6 Hours		1 Day		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1971	8-3	0.051	8-3	0.048	8-28	0.089	8-28	0.209	8-28	0.368	5-3	0.564	5-2	1.039	5-2	3.429

MAXIMUMS FOR PERIOD OF RECORD															
1969	1963	1963	1963	1964	1964	1964	1964	1964	1964	1964	1964	1964			
5-20	0.076	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 areas 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, USDA 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 National Weather Service records at St. Johnsbury, Vt.

1971 DAILY PRECIPITATION (inches)													NOTICE DAVILLE, VERMONT WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.01	0.03	0.02	0.0	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
2	0.02	0.07	0.0	0.28	0.43	0.11	0.0	0.56	0.0	0.25	0.30	0.02													
3	0.13	0.0	0.37	0.10	1.01	0.09	0.0	2.74	0.0	0.0	0.0	0.25													
4	0.0	0.01	1.15	0.04	0.24	0.01	0.0	0.01	0.0	0.0	0.06	0.0													
5	0.11	0.47	0.25	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.10	0.0													
6	0.0	0.03	0.05	0.0	0.0	0.0	0.19	0.0	0.0	0.15	0.0	0.10													
7	0.19	0.08	0.95	0.28	0.0	0.49	0.0	0.08	0.0	0.08	0.16	0.15													
8	0.0	0.92	0.17	0.0	0.01	0.77	0.0	0.0	0.0	0.08	0.20	0.01													
9	0.0	0.39	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.10	0.0	0.31													
10	0.04	0.04	0.0	0.70	0.0	0.0	0.0	0.0	0.0	1.55	0.06	0.06													
11	0.07	0.01	0.31	0.55	0.0	0.0	0.0	0.41	0.0	0.08	0.13	0.08													
12	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.0	0.58	0.16	0.06	0.0													
13	0.0	0.51	0.0	0.0	0.35	0.0	0.37	0.0	0.07	0.0	0.0	0.09													
14	0.0	0.28	0.0	0.13	0.01	0.0	0.99	0.0	0.33	0.0	0.0	0.03													
15	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.27													
16	0.0	0.0	0.07	0.43	0.0	0.0	0.17	0.0	0.01	0.0	0.0	0.25													
17	0.0	0.02	0.0	0.0	0.10	0.0	0.56	0.0	0.04	0.0	0.0	0.03													
18	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.08													
19	0.0	0.0	0.48	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.15	0.05													
20	0.0	0.58	0.38	0.0	0.02	0.0	0.0	0.83	0.10	0.0	0.06	0.05													
21	0.32	0.08	0.30	0.23	0.43	0.50	0.0	0.19	0.40	0.0	0.06	0.07													
22	0.14	0.0	0.01	0.47	0.14	0.0	0.0	0.14	0.0	0.0	0.0	0.07													
23	0.21	0.83	0.0	0.05	0.0	0.0	0.0	1.47	0.0	0.0	0.0	0.0													
24	0.02	0.05	0.0	0.0	0.02	0.01	0.09	0.0	0.0	0.0	0.0	0.62													
25	0.0	0.0	0.0	0.09	0.76	0.65	0.02	0.0	0.0	0.59	1.53	0.19													
26	1.15	0.0	0.0	0.02	0.20	0.0	0.0	0.0	0.0	0.02	0.15	0.05													
27	0.27	0.11	0.0	0.04	0.27	0.0	0.39	0.43	0.0	0.0	0.04	0.14													
28	0.05	0.10	0.0	0.06	0.0	0.0	0.0	3.66	0.0	0.0	0.04	0.20													
29	0.05	0.02	0.0	0.0	0.0	0.0	0.30	0.07	0.10	0.0	0.57	0.07													
30	0.29	0.17	0.23	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.68	0.62													
31	0.03	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.09													
TOTAL	3.09	4.88	4.91	3.82	4.29	2.83	5.03	10.72	1.85	3.06	4.55	3.95													
STA AV	2.77	3.46	3.41	3.71	3.82	4.03	3.82	5.03	3.16	4.06	4.65	3.99													

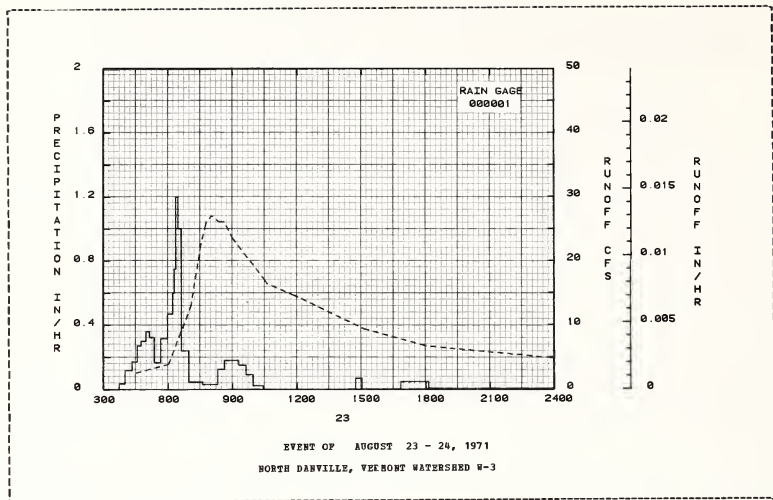
NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 13 yr (1959-71) record period.

1971 MEAN DAILY DISCHARGE (cfs)												NORTH DAVILLE, VERMONT WATERSHED #3											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	2.126	1.719	2.808	2.377	29.983	5.131	8.428	1.893	3.667	1.830													
2	2.126	1.719	2.348	2.718	29.281	4.794	3.534	3.246	3.256	1.929	2.893	2.622											
3	2.040	1.719	2.340	6.652	48.892	5.430	2.019	20.498	3.154	2.166	2.827	2.629											
4	2.020	1.719	2.442	5.198	41.300	4.722	1.803	7.411	2.955	1.929	2.622	2.636											
5	2.250	1.719	2.925	4.086	36.064		4.302	3.172	2.810	1.981	2.613	4.261											
6	2.249	1.684	2.140	3.942	36.622	4.038	1.713	2.265	2.770	2.109	2.362	2.620											
7	2.146	1.737	2.146	3.570	37.053		1.776	1.869	2.704	2.341	4.020	2.582											
8	2.126	1.826	2.235	3.387	33.150	11.056	1.475	1.595	2.495	2.174	3.223	2.828											
9	2.126	2.226	2.235	3.789	33.040	6.830	1.318	1.468	2.286	2.190	2.462	2.612											
10	2.126	1.932	2.196	5.530	30.984	4.518	1.175	1.389	2.069	9.480	2.492	2.803											
11	2.046	1.916	2.126	12.375	29.206	3.902	1.168	1.990	2.041	7.984	2.538	6.053											
12	1.994	1.916	2.126	11.891	24.449	3.639	1.216	1.635	5.013	4.001	2.371	4.377											
13	1.916	2.461	2.086	11.852	23.907	3.377	1.643	1.284	3.915	3.615	2.348	3.631											
14	1.994	4.988	2.330	11.392	17.028	3.111	3.104	1.027	4.859	3.090	2.290	3.399											
15	1.994	4.068	3.177	8.402	14.676	3.049	2.121	1.414	3.871	2.798	2.352	3.449											
16	1.916	2.690	5.233	7.632	13.198	2.806	1.962	1.210	2.717	2.553	2.314	6.666											
17	1.916	2.663	3.825	7.873	13.297	2.621	2.550	0.907	2.579	2.320	2.106	4.754											
18	1.860	2.464	3.174	12.052	11.396	2.471	2.240	1.430	3.215	2.238	2.423	3.730											
19	1.743	2.236	2.974	24.504	9.903	2.277	2.098	1.109	2.497	2.377	3.062	5.530											
20	1.719	2.181	2.938	30.644	8.860	2.159	2.946	1.385	2.242	2.306	4.477	3.569											
21	1.719	2.235	2.782	26.946	10.653	3.574	1.788	2.432	3.668	2.181	3.092	3.157											
22	1.719	2.235	2.703	24.406	11.289	3.363	1.525	2.018	2.740	2.277	2.661	2.990											
23	1.719	2.284	2.584	16.140	8.610	3.541	1.818	0.127	2.337	2.167	2.208	2.957											
24	1.719	2.184	2.676	19.711	7.545	2.299	1.388	3.130	2.192	2.086	2.339	3.786											
25	1.719	1.126	2.596	22.501	8.734	3.251	1.445	2.010	2.153	3.428	2.183	5.202											
26	1.768	2.126	2.433	20.796	13.764	3.703	1.291	1.678	2.086	3.638	2.659	3.616											
27	1.916	2.634	2.636	22.624	9.420	2.337	1.603	1.887	1.981	2.914	2.479	3.258											
28	1.916	2.958	2.587	26.607	9.300	1.975	1.337	40.374	1.981	2.658	2.552	3.224											
29	1.681		2.689	27.779	7.800	1.823	1.615	10.282	2.126	2.435	2.582	3.190											
30	1.792		2.567	29.653	6.428	1.719	1.698	5.751	2.029	2.334	2.947	2.990											
31	1.719		2.464		5.741		1.778	4.724		2.339		2.861											
MEAN	1.935	2.299	2.652	13.977	20.151	3.734	1.882	4.598	2.800	2.899	2.663	3.561											
INCREAS	0.691	0.741	0.947	4.829	7.193	1.290	0.672	1.641	0.967	1.035	0.920	1.271											
STA AV	1.003	0.915	1.492	6.562	4.073	1.519	0.901	0.875	0.720	1.156	1.466	1.338											

NOTES: To convert mean daily discharge in CFS to I³/DAY, multiply by 0.015155. STA AV based on 13 yr (1960-71) record period.

1971 SELECTED BUROFF EVENTS						NORTH DAVILLE, VERMONT WATERSHED #3					
ANTECEDENT CONDITIONS			RAINFALL			BUROFF					
Date	Rainfall	Rnoff	Date	Time	Intensity	Date	Time	Rate	Acc.		
Ro-Day	(inches)	(inches)	Ro-Day	of Day	(in/hr)	Ro-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 23 - 24, 1971											
BG 000001											
8-23	0.0	0.006	8-23	BG 000001	343	0.0	0.0	430	2.582	0.0	
					359	0.0375	0.01	601	3.946	0.0024	
					419	0.1200	0.05	703	12.860	0.0066	
					433	0.1715	0.09	732	22.767	0.0107	
					444	0.2727	0.14	787	26.104	0.0136	
WATERSHED CONDITIONS:											
	67% forest land; 19% pastured			458	0.3000	0.21		800	26.995	0.0164	
	land; 11% hay and 1% idle			508	0.3600	0.27		805	26.995	0.0175	
	land with dense grass and			521	0.3231	0.34		821	26.104	0.0209	
	brush growth.			539	0.1666	0.39		836	26.104	0.0240	
				558	0.3158	0.49		900	23.531	0.0288	
				612	0.4714	0.60		1037	16.356	0.0482	
				617	0.6000	0.65		1200	14.391	0.0584	
				621	0.7498	0.70		1507	9.326	0.0721	
				628	1.2001	0.84		1800	6.617	0.0831	
				637	1.0000	0.99		2400	4.751	0.0995	
				657	0.2400	1.07	8-24	559	3.647	0.1115	
				736	0.0462	1.10		2300	3.089	0.1212	
				818	0.0286	1.12		2348	2.348	0.1250	
				837	0.1263	1.16		2400	2.126	0.1354	
				917	0.1800	1.28					
				937	0.1500	1.33					
				957	0.0900	1.36					
				1025	0.0214	1.37					
				1443	0.0	1.37					
				1501	0.0666	1.39					
				1649	0.0	1.39					
				1807	0.0462	1.45					
				2400	0.0034	1.47					

NOTES: To convert rnoff in CFS to I³/HR, multiply by 0.0004798. For 30-day antecedent rainfall and rnoff, see tables of daily 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																			
1971	P	2.28	3.53	2.95	2.58	3.00	2.61	3.46	8.21	1.36	2.14	2.85	3.16	38.13																		
	Q	0.466	0.570	0.804	4.934	6.725	1.085	0.464	1.441	0.712	0.789	0.693	1.015	19.698																		
STA AV	P	1.91	2.30	2.31	2.95	3.11	3.33	3.19	4.24	2.48	3.28	3.54	3.10	35.75																		
	Q	0.840	0.779	1.560	5.765	3.823	1.364	0.701	0.660	0.524	0.978	1.353	1.180	19.527																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																
Station																																
Discharge																																
1 Hour																																
2 Hours																																
6 Hours																																
12 Hours																																
1 Day																																
2 Days																																
8 Days																																
1971	8-28		0.039		8-28		0.038		8-28		0.076		8-28		0.200		8-28		0.323		5-3		0.550		5-3		0.992		5-2		3.120	
MAXIMUMS FOR PERIOD OF RECORD																																
	5-20		0.061		5-20		0.061		5-20		0.118		5-20		0.310		4-19		0.522		4-18		0.900		4-17		1.485		4-14		4.323	
	1969		1969		1969		1969		1969		1969		1969		1969		1969		1969		1969		1969		1969		1969		1969			

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, OSDI Misc. Pub. 1262, p. 67, 4-19. Precipitation records began 1959. Runoff records began January 1, 1960. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1971 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	0.0	0.0	0.0	0.0	0.77	0.09	0.0	0.0	0.0	0.0												
2	0.01	0.01	0.0	0.27	0.35	0.13	0.0	0.41	0.0	0.05	0.20	0.0												
3	0.04	0.0	0.25	0.14	0.69	0.12	0.0	2.50	0.0	0.0	0.0	0.15												
4	0.09	0.0	0.61	0.0	0.08	0.0	0.0	0.01	0.0	0.0	0.05	0.0												
5	0.0	0.30	0.14	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	0.0	0.02	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.18	0.0	0.35												
7	0.05	0.05	0.79	0.24	0.0	0.65	0.0	0.0	0.0	0.02	0.05	0.14												
8	0.0	0.78	0.04	0.01	0.01	0.51	0.0	0.0	0.0	0.0	0.0	0.02												
9	0.0	0.16	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.10	0.0	0.24												
10	0.03	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.05												
11	0.07	0.0	0.21	0.30	0.0	0.0	0.0	0.30	0.0	0.02	0.0	0.09												
12	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.09	0.19	0.0												
13	0.0	0.51	0.0	0.0	0.30	0.0	0.35	0.0	0.06	0.01	0.0	0.04												
14	0.16	0.09	0.0	0.04	0.0	0.0	0.34	0.0	0.31	0.0	0.0	0.01												
15	0.04	0.01	0.09	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.39												
16	0.0	0.0	0.03	0.11	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.04												
17	0.0	0.05	0.0	0.0	0.45	0.0	0.28	0.0	0.11	0.0	0.0	0.01												
18	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.06												
19	0.0	0.0	0.35	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.06	0.04												
20	0.0	0.54	0.25	0.01	0.03	0.0	0.0	0.76	0.04	0.0	0.02	0.06												
21	0.30	0.07	0.07	0.24	0.36	0.54	0.0	0.13	0.20	0.0	0.04	0.01												
22	0.10	0.0	0.02	0.11	0.13	0.0	0.0	0.26	0.0	0.0	0.0	0.04												
23	0.16	0.62	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0												
24	0.0	0.07	0.0	0.0	0.01	0.0	0.07	0.0	0.0	0.0	0.44	0.0												
25	0.01	0.02	0.0	0.05	0.25	0.66	0.01	0.0	0.0	0.46	1.17	0.06												
26	0.72	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.01	0.08	0.02												
27	0.11	0.14	0.0	0.06	0.11	0.0	0.16	0.33	0.0	0.0	0.02	0.12												
28	0.02	0.0	0.0	0.06	0.0	0.0	0.0	2.17	0.0	0.0	0.02	0.17												
29	0.03	0.08	0.09	0.0	0.0	0.0	0.31	0.02	0.06	0.0	0.40	0.03												
30	0.27	0.06	0.11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.55	0.50												
31	0.03	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.08	0.08												
TOTAL	2.28	3.53	2.95	2.58	3.00	2.61	3.46	8.21	1.36	2.14	2.85	3.16												
STA AV	1.91	2.30	2.31	2.95	3.11	3.33	3.19	4.24	2.48	3.28	3.54	3.10												

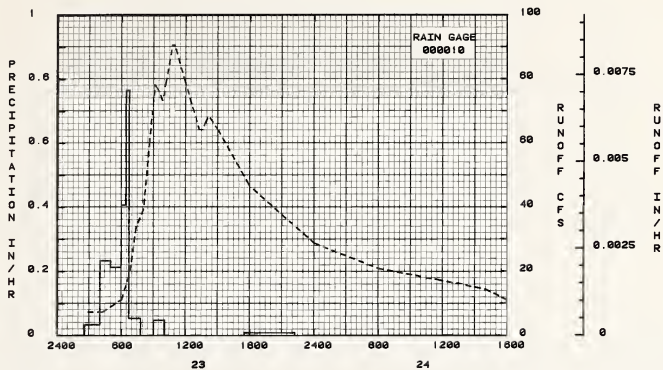
NOTES: For temperature data see table of daily maximums and minimums values included with information for Watershed 67.001. Daily precipitation values from rain gage H-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 13 yr (1959-1971) record period.

1971 SEAN DAILY DISCHARGE (cfs)												NORTH DAVVILLE, VERMONT WATERSHED #--									
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec									
1	7.67	6.06				24.54	26.28	6.62	18.73	6.20	8.32	10.61									
2	7.67	5.85	11.06	11.74	141.61	22.53	21.73	9.81	11.97	5.81	10.03	10.13									
3	7.67	5.69	10.40	21.42	240.41	27.13	6.01E	111.98	10.85	5.85	12.51	10.12									
4	7.67	5.64	10.67	35.15	205.21	23.62	4.69E	55.15	10.38	5.52	10.10	10.05									
5	8.11	5.79	10.23	21.68	171.66	19.98	5.54	16.72		5.40											
6	9.10	5.85	9.65	19.68	171.71	18.02	5.18	11.24	10.79	6.08	8.99	9.23E									
7	8.79	5.85	9.87	16.70	172.71	17.29	5.77	6.18	9.48	7.72	16.49	9.51									
8	8.24	5.90	9.81	15.35E	155.54	48.32	4.55	6.31	8.55	6.86	16.06	9.28									
9	7.19	6.64	9.39	15.48E	157.71	38.12	3.91	5.49	7.55	6.85	11.74E	10.32									
10	6.95	7.52	9.23	21.75	145.99	22.10	3.53	4.59	6.64	33.15	10.93E	11.42									
11	6.95	8.07	9.23	68.72	141.69	18.27	2.98	5.27	6.21	46.36	10.56	24.51									
12	6.95	7.42	9.23	72.45E	155.77	2.58	6.47	2.62	12.32	9.75	8.26	25.75									
13	6.78	7.61	9.22	62.74	118.91	14.23	2.53	8.29	5.07	14.50	10.38	18.35									
14	6.72	9.76	9.68	59.40	90.27	12.62	11.72	3.57	17.28	12.70	9.88E	14.27									
15	6.72	12.88	12.85	48.46	73.84	11.99	10.84	3.14	17.74	11.33	8.40	14.46									
16	6.72	18.01	17.19	43.41	67.41	11.29	6.00	3.14	12.44	10.48	8.29	31.05									
17	6.38	17.71	23.50	45.79E	69.80	10.76	6.47	2.62	12.32	9.75	8.26	25.75									
18	6.08	13.71	18.44	57.39	58.42	9.39	11.67	2.51	14.56	9.15	9.32	16.37									
19	5.90	10.68	13.81	130.17	50.63	8.67	7.12	2.20	12.23	8.56	11.17	11.16									
20	5.69	9.90	13.22	166.32	44.29	7.85	13.13	3.65	10.41	8.53	16.68	14.67									
21	5.49	9.94	12.37	146.09	49.82	10.81	7.26	8.66	14.16	8.63	13.00E	14.53									
22	5.64	9.51	11.72	136.43	61.37	14.63	4.90	6.65	12.03	8.20	10.76	12.08									
23	5.85	9.34	11.05	105.33	43.77	9.37	3.97	41.50	9.52	8.17	7.23	20.86									
24	5.85	9.51	11.07	108.01	36.51	9.53	3.39	17.71	8.25	8.17	5.53	12.36									
25	5.85	9.27	10.72	126.08	35.94	11.16	3.73	8.83	7.42	13.28	6.68	22.46									
26	6.11	9.23	10.55	114.76	71.63	21.94	3.30	6.32	7.03	17.68	8.23	19.61E									
27	6.49	9.92	10.70	122.88	47.73	10.46	3.41	5.86	6.66	13.43	10.50	15.05									
28	6.49	14.01	11.27	135.47	49.10	7.54	3.46	177.15	6.61	11.02	10.30	14.08									
29	6.33	11.64	147.66	36.38	6.33	3.08	55.91	6.89	9.58	13.08											
30	6.27	11.13	141.29	30.68	5.97E	5.20	26.35	7.27	8.96	10.52	12.36										
31	6.27		10.98		27.82	5.94	21.36		9.51			12.08									
SEAN	6.792	9.168	11.722	74.302	97.993	16.380	6.768	20.999	10.715	11.492	10.432	14.791									
ICHES	0.466	0.570	0.804	4.934	6.725	1.085	0.464	1.441	0.712	0.789	0.693	1.015									
STA AV	0.840	0.779	1.560	5.765	3.823	1.364	0.701	0.660	0.524	0.978	1.353	1.180									

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002213695. STA AV based on 12 yr (1960-1971) record period.

1971 SELECTED HOFFOFF EVENT												NORTH DAVVILLE, VERMONT WATERSHED #--					
ANTECEDENT CONDITIONS				RAINFALL				HOFFOFF									
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 23 - 24, 1971																	
8-23	8G 000010	0.002	8-23	8G 000010	0.0	0.0	8-23	252	7.423	0.0							
	0.0			232	0.0	0.0		412	7.423	0.0009							
				315	0.0345	0.05		601	11.285	0.0025							
				458	0.2339	0.28		648	20.296	0.0036							
				557	0.2136	0.49		721	33.836	0.0050							
				1729	0.0	1.00		1012	80.276	0.0209							
				2212	0.0065	1.04		1044	90.778	0.0251							
								1057	90.778	0.0269							
								1200	78.269	0.0351							
								1315	64.172	0.0433							
								1331	64.172	0.0449							
								1400	67.767	0.0478							
								1416	67.767	0.0495							
								1459	64.172	0.0538							
								1759	46.456	0.0691							
								2400	28.678	0.0900							
								601	20.742	0.1037							
								1200	16.339	0.1141							
								1600	14.296	0.1199							
								2400	10.977	0.1292							

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For 30-day antecedent rainfall and runoff see tables of daily amounts.



HYDROGRAPH OF AUGUST 23 - 24, 1971
NORTH DANVILLE, VERMONT WATERSHED W-4

NORTH DAVVILLE, 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 DAVVILLE, VERMONT WATERSHED W-5														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1971	P	2.28	3.53	2.95	2.58	3.00	2.61	3.46	8.21	1.36	2.14	2.85	3.16	38.13												
	Q	0.768	1.038	1.554	6.807	7.679	1.343	0.675	2.101	1.007	1.133	1.037	1.179	26.323												
STA AV	P	1.91	2.30	2.31	2.95	3.11	3.33	3.19	4.24	2.48	3.28	3.54	3.10	35.75												
	Q	1.280	1.178	2.27	6.111	3.338	1.116	0.602	0.621	0.479	0.954	1.389	1.333	20.676												
ANNUAL MAXIMUM DISCHARGE (In/hr) AND MAXIMUM VOLUMES OF RUNOFF (Inches) FOR SELECTED TIME INTERVALS																										
1971	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.										
	R-28	0.072	R-28	0.071	8-28	0.138	8-28	0.341	5-20	0.574	4-18	0.861	4-17	1.368	4-13	3.928										
MAXIMUMS FOR PERIOD OF RECORD																										
	5-20	0.080	5-20	0.077	5-20	0.146	5-20	0.351	5-20	0.574	4-18	0.861	4-17	1.368	4-13	3.928										
	1969		1969		1969		1969		1969		1969		1969		1969											

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 National Weather Service records at St. Johnsbury, Vt.

1971 DAILY PRECIPITATION (Inches)												NORTH DAVVILLE, VERMONT 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	0.77	0.09	0.0	0.0	0.0	0.0												
2	0.01	0.01	0.0	0.27	0.35	0.13	0.0	0.41	0.0	0.05	0.20	0.0												
3	0.04	0.0	0.25	0.14	0.69	0.12	0.0	2.50	0.0	0.0	0.0	0.15												
4	0.09	0.0	0.61	0.0	0.08	0.0	0.0	0.01	0.0	0.0	0.05	0.0												
5	0.0	0.30	0.14	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	0.0	0.02	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.18	0.0	0.35												
7	0.05	0.05	0.79	0.24	0.0	0.65	0.0	0.0	0.0	0.02	0.05	0.14												
8	0.0	0.78	0.04	0.01	0.01	0.51	0.0	0.0	0.0	0.0	0.0	0.24												
9	0.0	0.16	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.10	0.0	0.08												
10	0.03	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.05												
11	0.07	0.0	0.21	0.30	0.0	0.0	0.0	0.30	0.0	0.02	0.0	0.09												
12	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.09	0.19	0.0												
13	0.0	0.51	0.0	0.0	0.30	0.0	0.35	0.0	0.06	0.01	0.0	0.08												
14	0.16	0.09	0.0	0.04	0.0	0.0	0.34	0.0	0.31	0.0	0.0	0.01												
15	0.04	0.01	0.09	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.39												
16	0.0	0.0	0.03	0.11	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.04												
17	0.0	0.05	0.0	0.0	0.45	0.0	0.28	0.0	0.11	0.0	0.0	0.01												
18	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.06												
19	0.0	0.0	0.35	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.06	0.04												
20	0.0	0.54	0.25	0.01	0.03	0.0	0.0	0.76	0.04	0.0	0.02	0.06												
21	0.30	0.07	0.07	0.24	0.36	0.54	0.0	0.13	0.20	0.0	0.04	0.01												
22	0.10	0.0	0.02	0.11	0.13	0.0	0.0	0.26	0.0	0.0	0.0	0.04												
23	0.16	0.62	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0												
24	0.07	0.06	0.0	0.01	0.0	0.0	0.07	0.0	0.0	0.0	0.55	0.44												
25	0.01	0.02	0.0	0.05	0.25	0.66	0.01	0.0	0.06	1.17	0.06													
26	0.72	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.01	0.08	0.02												
27	0.11	0.14	0.0	0.06	0.11	0.0	0.16	0.33	0.0	0.0	0.02	0.12												
28	0.02	0.0	0.0	0.06	0.0	0.0	0.0	2.17	0.0	0.0	0.02	0.17												
29	0.03	0.04	0.09	0.0	0.0	0.0	0.31	0.02	0.06	0.0	0.40	0.03												
30	0.27	0.06	0.11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.50	0.0												
31	0.03	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.08	0.08												
TOTAL	2.28	3.53	2.95	2.58	3.00	2.61	3.46	8.21	1.36	2.14	2.85	3.16												
STA AV	1.91	2.30	2.31	2.95	3.11	3.33	3.19	4.24	2.48	3.28	3.54	3.10												

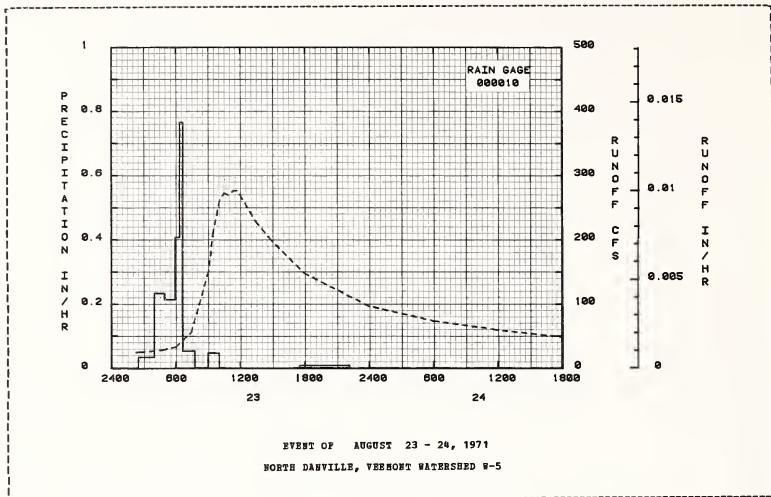
NOTES: For temperature data see table of maxima and minima values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 13 yr (1959-1971) record period.

1971 NEAR DAILY DISCHARGE (cfs)						NORTS DANVILLE, VERMONT WATERSHED W-5						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	32.15	26.91	62.31	51.71	440.02	72.15	66.17	26.49	53.32	23.12	32.91	23.12
2	32.15	25.90	50.43	55.08	426.89	65.24	82.98	41.81	44.10	21.66	38.53	26.25
3	32.15	25.02	47.35	108.78	892.62	69.83	36.68	370.38	80.12	23.88	48.01	26.13
4	32.15	24.70	48.20	162.37	674.96	72.04	25.72	191.61	37.93	21.69	40.18	26.16
5	32.73	24.89	47.53	104.58	524.63	61.49	21.14	67.40	37.42	21.40	37.84	36.33
6	36.74	24.70	43.33	95.61	499.68	55.50	20.28	41.51	37.01	23.16	36.19	28.35
7	36.33	24.70	43.18	94.34	504.87	52.70	22.58	30.84	34.52	30.79	68.16	26.45
8	34.72	24.94	44.31	77.85	482.21	164.89	18.61	25.24	31.90	26.06	63.07	26.45
9	30.98	28.26	43.18	75.61	451.83	136.15	17.08	21.17	28.33	24.43	42.34	28.10
10	30.62	32.24	41.32	103.79	408.84	71.61	15.95	18.73	29.56	116.92	41.47	33.52
11	30.18	34.79	41.25	259.82	379.58	56.54	13.54	21.91	28.61	151.67	43.18	93.45
12	30.36	34.07	41.99	290.91	325.03	48.71	12.27	26.43	45.17	65.67	42.85	90.70
13	28.55	34.35	41.80	269.05	322.55	42.74	12.15	18.65	56.17	52.08	43.14	59.41
14	27.35	47.01	44.54	241.63	247.54	39.52	34.04	16.04	58.71	65.75	32.96	42.85
15	27.35	56.80	64.83	186.02	202.47	38.60	34.19	14.75	62.01	41.26	37.37	43.94
16	27.35	83.13	110.72	158.74	182.55	35.80	21.36	14.59	44.31	37.56	34.97	101.51
17	27.35	92.62	144.91	164.88	192.37	33.79	23.56	12.93	46.92	35.52	36.43	83.01
18	26.86	79.37	102.55	226.32	163.18	29.49	37.47	12.19	52.89	34.73	40.41	49.35
19	28.22	59.00	70.43	475.75	141.16	26.60	24.69	11.05	43.33	33.40	46.90	35.22
20	23.35	48.15	67.03	591.21	126.39	23.25	48.14	13.04	36.49	32.15	69.99	44.08
21	23.43	46.05	62.02	500.44	138.39	35.75	27.82	34.78	50.50	32.15	52.68	42.13
22	23.07	43.29	57.16	454.05	178.63	50.64	19.38	26.33	43.76	32.15	45.18	35.61
23	24.48	41.99	55.21	336.92	132.26	32.69	15.88	127.74	35.08	32.15	31.60	29.48
24	24.70	42.89	55.52	338.72	109.60	27.23	14.57	62.21	30.79	31.28	23.57	34.29
25	25.27	41.11	52.38	393.37	103.77	31.33	15.72	33.96	27.41	49.23	28.31	59.06
26	25.65	40.53	49.58	259.70	185.48	62.63	14.61	25.76	27.07	65.46	30.94	53.19
27	27.24	43.14	49.27	371.23	132.03	33.80	14.14	23.81	25.68	50.92	33.17	41.52
28	27.35	65.93	51.77	410.86	143.44	25.58	14.18	719.55	24.75	42.88	27.13	39.49
29	27.35	55.51	459.71	109.32	22.79	13.28	203.40	25.61	38.05	26.68	36.88	36.88
30	27.35	52.76	439.97	92.17	20.27	20.71	95.16	26.76	35.52	21.97	34.24	34.24
31	27.35	51.31	81.82	81.82	81.82	19.99	76.45	34.76	34.76	34.76	33.17	33.17
MEAN	28.61	42.80	57.86	261.86	285.88	51.68	25.12	78.22	36.76	42.16	39.90	43.88
STDEV	0.768	1.038	1.554	6.407	7.679	1.343	0.675	2.101	1.007	1.133	1.037	1.179
STA AV	1.280	1.178	2.275	6.111	3.338	1.116	0.602	0.621	0.479	0.958	1.389	1.333

NOTES: To convert mean daily discharge in CFS to M³/DAY, multiply by 0.0008665. STA AV based on 12 yr (1960-1971) record period.

1971 SELECTED SNOWFALL EVENT						NORTS DANVILLE, VERMONT WATERSHED W-5					
ANTECEDENT CONDITIONS			RAINFALL			SNOWFALL					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 23 - 24, 1971											
RG 000010											
8-23	0.0	0.002	8-23	RG 000010	100	0.0	0.0	8-23	217	24.696	0.0
					232	0.0	0.0		307	25.564	0.0008
					359	0.0345	0.05		445	28.276	0.0024
					458	0.2339	0.28		600	33.166	0.0038
					557	0.2136	0.49		727	56.208	0.0061
WATERSHED CONDITIONS:											
	67% forest;	17% hay;	13%	622	0.4080	0.66	905	152.535	0.0123		
	pastured land;	2% idle land		640	0.7667	0.89	928	209.080	0.0148		
	with dense brush and grass			747	0.0537	0.95	1007	262.217	0.0203		
	growth;	1% homesites and		900	0.0	0.95	1030	272.992	0.0240		
	roads.			1003	0.0476	1.00	1054	269.372	0.0279		
				1729	0.0	1.00	1123	276.643	0.0329		
				2212	0.0085	1.04	1143	276.643	0.0360		
							1200	269.372	0.0388		
							1327	238.162	0.0518		
							1500	196.910	0.0637		
							1758	147.461	0.0821		
							2400	96.312	0.1087		
							602	72.990	0.1271		
							1200	59.065	0.1413		
							1759	44.182	0.1529		
							2400	40.814	0.1626		

NOTES: To convert CFS to M³/HR, multiply by 0.000036104. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south ofampa; north flowing tributary to the Snake River.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND BOROFF (inches)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1971 P	3.24	1.24	3.53	1.27	1.17	2.74	0.53	0.63	2.24	1.61	2.70	2.76	23.66												
Q	0.950	0.384	0.869	0.919	0.915	0.299	0.074	0.025	0.021	0.068	0.117	0.193	0.832												
STA AV P	3.99	1.30	1.73	1.36	1.04	1.92	0.33	1.15	0.93	1.45	2.35	2.29	19.85												
Q	0.522	0.289	0.311	0.539	0.587	0.293	0.039	0.028	0.018	0.023	0.049	0.230	2.917												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF BOROFF (inches) FOR SELECTED TIME INTERVALS																									
Maximum Discharge	1 Hour			2 Hours			6 Hours			12 Hours			1 Day			2 Days			8 Days						
Date	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Date	Date	Vol.	Date	Date	Date	Date	Vol.	Date	Date	Date	Vol.					
1971	1-18	0.009	1-18	0.009	1-18	0.018	1-18	0.053	1-17	0.059	1-17	0.184	1-17	0.306	1-16	0.631									
MAXIMUMS 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%. For extended map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 68-1-6. Records began 1963. Precipitation data are Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. Station average precipitation amounts are based on 1968-71 data. Station average runoff amounts are based on the 1963-71 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1971 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO 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	28	19	51	30	29	16	51	20	76	39	53	43	84	46	98	62	82	40	54	38	43	31	36	20	
2	25	16	40	30	36	15	58	30	76	44	58	41	74	54	94	73	63	50	58	36	41	28	30	26	
3	21	10	40	24	49	11	53	28	74	49	63	37	72	42	98	72	66	47	66	39	50	23	34	27	
4	20	8	41	25	37	22	59	28	67	46	63	42	84	42	95	64	74	39	70	39	55	28	32	27	
5	22	3	36	16	33	13	63	26	64	48	70	43	76	50	96	71	89	46	73	45	37	20	46	31	
6	20	6	42	18	40	11	65	36	63	44	76	42	73	50	92	64	73	57	76	44	41	14	42	25	
7	20	14	44	22	48	22	51	31	68	41	81	47	76	42	92	66	69	43	74	51	43	20	22	14	
8	43	16	44	20	47	24	57	24	66	43	70	47	86	50	95	62	79	36	75	45	46	21	23	13	
9	44	40	43	19	52	20	65	40	68	47	73	45	88	64	96	62	79	52	76	44	51	32	39	23	
10	44	35	61	34	51	30	54	29	70	40	63	49	70	46	95	64	91	46	77	44	55	34	33	28	
11	42	32	54	30	49	33	47	28	72	42	71	42	71	45	93	63	78	53	72	46	52	39	28	24	
12	34	16	54	28	47	33	50	29	76	47	79	41	80	46	96	57	81	41	66	44	43	39	30	25	
13	29	18	53	30	38	28	62	37	64	40	80	52	84	48	100	60	78	47	75	40	42	37	31	25	
14	38	21	54	27	43	25	68	38	68	36	69	44	88	52	90	55	88	46	40	36	38	31	36	28	
15	44	36	51	28	40	25	55	43	76	39	76	50	94	56	91	58	68	40	44	26	39	29	30	26	
16	51	37	43	21	34	20	59	31	47	35	73	45	97	62	87	60	62	40	41	34	41	23	35	27	
17	51	36	39	31	33	18	46	37	53	32	74	43	93	65	84	54	58	36	47	32	40	27	39	20	
18	44	35	45	31	39	13	49	33	61	32	71	50	86	67	87	51	61	29	50	34	37	28	32	14	
19	60	32	31	25	45	15	60	32	65	33	75	47	87	63	93	52	73	32	53	45	46	32	34	10	
20	52	25	41	24	53	23	58	35	47	30	87	48	88	61	90	65	65	43	53	40	45	27	41	22	
21	38	24	43	21	54	36	58	35	56	40	91	50	90	58	88	58	63	37	50	29	42	32	46	34	
22	34	22	39	26	54	38	58	39	67	44	94	48	88	64	86	54	70	33	58	40	45	26	47	36	
23	40	34	42	26	50	41	49	37	69	40	87	56	91	56	75	39	77	34	53	38	44	23	40	33	
24	42	35	50	32	50	37	40	36	77	40	87	49	91	59	84	40	77	48	48	35	49	34	40	29	
25	46	40	32	24	47	25	59	32	71	44	77	56	89	58	88	40	54	28	49	40	42	32	42	25	
26	57	36	33	20	55	33	55	35	77	51	58	51	88	59	91	50	52	34	53	40	44	32	31	16	
27	50	28	33	21	45	30	58	33	79	53	60	45	91	60	90	60	51	32	36	28	40	33	28	8	
28	48	27	26	17	49	25	64	39	68	47	62	41	91	58	89	55	56	28	29	20	43	34	26	9	
29	53	24	46	30	60	32	64	38	73	40	67	38	94	61	90	57	47	32	36	18	39	34	30	10	
30	58	44	58	33	70	38	58	44	76	42	94	67	83	52	41	36	40	30	39	28	31	15	11	5	
31	58	42	44	27	44	27	60	40	60	40	95	64	75	52	88	40	35	29	35	29	35	15	11	5	
AV.	41	26	43	25	45	26	56	33	67	42	73	46	86	55	90	58	68	41	56	37	44	29	34	22	
DEAM	33.4	34.1	35.7	34.8	34.8	34.4	35.3	34.4	35.3	34.5	35.3	34.5	35.3	34.5	35.3	34.5	35.3	34.5	35.3	34.5	35.3	34.5	35.3	34.5	28.3
STA AV	37	21	45	26	47	26	55	29	67	39	74	47	86	52	95	51	74	43	61	33	48	27	38	21	

NOTES: Temperature data taken from hygrothermograph record at station 074659. STA AV is average for 9 yr (1963-71) record period.

1971		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO WATERSHED W-1 (036068)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.0	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.11	0.16	0.01
2	0.00	0.00	0.00	0.0	0.00	0.08	0.00	0.01	0.00	0.0	0.00	0.03
3	0.00	0.00	0.05	0.00	0.23	0.03	0.00	0.01	0.01	0.0	0.00	0.08
4	0.0	0.12	0.07	0.00	0.01	0.15	0.00	0.00	0.00	0.0	0.02	0.09
5	0.01	0.03	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.0	0.00	0.46
6	0.01	0.00	0.01	0.01	0.86	0.00	0.00	0.15	0.23	0.0	0.00	0.25
7	0.08	0.00	0.01	0.16	0.00	0.51	0.00	0.01	0.00	0.0	0.0	0.01
8	0.88	0.00	0.0	0.0	0.06	0.00	0.00	0.0	0.0	0.0	0.18	0.18
9	0.04	0.01	0.03	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.13
10	0.03	0.13	0.08	0.23	0.0	0.10	0.00	0.0	0.0	0.0	0.00	0.07
11	0.15	0.00	0.09	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.01	0.01
12	0.07	0.0	1.05	0.00	0.02	0.00	0.0	0.00	0.0	0.00	0.29	0.21
13	0.07	0.0	0.01	0.00	0.01	0.00	0.00	0.0	0.0	0.08	0.18	0.18
14	0.09	0.00	0.03	0.03	0.00	0.00	0.00	0.0	0.0	0.03	0.01	0.12
15	0.21	0.15	0.06	0.02	0.09	0.0	0.00	0.0	0.0	0.00	0.00	0.05
16	0.18	0.01	0.59	0.12	0.10	0.00	0.00	0.0	0.00	0.51	0.0	0.00
17	1.03	0.15	0.01	0.01	0.00	0.0	0.00	0.0	0.0	0.19	0.00	0.00
18	0.36	0.25	0.0	0.08	0.00	0.00	0.00	0.0	0.0	0.01	0.08	0.00
19	0.02	0.10	0.00	0.00	0.00	0.00	0.32	0.0	0.00	0.15	0.00	0.00
20	0.06	0.00	0.00	0.21	0.00	0.00	0.01	0.00	0.01	0.06	0.00	0.00
21	0.01	0.00	0.01	0.04	0.01	0.00	0.02	0.0	0.0	0.00	0.00	0.00
22	0.09	0.00	0.27	0.01	0.00	0.0	0.14	0.00	0.0	0.00	0.00	0.31
23	0.08	0.00	0.52	0.21	0.00	0.00	0.02	0.00	0.0	0.00	0.00	0.06
24	0.01	0.12	0.04	0.07	0.00	0.0	0.00	0.0	0.00	0.11	0.00	0.00
25	0.17	0.02	0.27	0.06	0.01	0.52	0.00	0.0	0.02	0.00	0.06	0.42
26	0.01	0.00	0.22	0.01	0.03	0.86	0.00	0.0	0.10	0.14	1.25	0.03
27	0.00	0.06	0.02	0.00	0.00	0.22	0.00	0.00	0.03	0.08	0.06	0.00
28	0.0	0.08	0.0	0.0	0.01	0.20	0.00	0.0	0.05	0.00	0.18	0.00
29	0.00	0.00	0.00	0.00	0.04	0.00	0.0	0.37	0.57	0.00	0.27	0.07
30	0.08	0.00	0.00	0.00	0.00	0.00	0.0	0.00	1.22	0.21	0.05	0.01
31	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.0	0.0	0.03	0.00	0.00
TOTAL	1.21	1.24	3.53	1.27	1.17	2.74	0.53	0.63	2.24	1.61	2.70	2.76
STA AV	3.99	1.30	1.73	1.36	1.04	1.92	0.33	1.15	0.93	1.45	2.35	2.29

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. Hanson, "Computing Actual Precipitation", Proceedings of WMO-108S Symposium, Oslo, Norway, August, 1972. The equation used is: $\text{loge } (R/A) = \text{loge } (U/S) \times 1.60$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on a 1966-71 record period.

1971		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO WATERSHED W-1 (036068)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.0	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.06	0.09	0.00
2	0.00	0.00	0.00	0.0	0.00	0.39	0.00	0.01	0.00	0.0	0.00	0.02
3	0.00	0.00	0.03	0.00	0.19	0.03	0.00	0.01	0.01	0.0	0.00	0.05
4	0.0	0.07	0.03	0.00	0.00	0.14	0.00	0.00	0.00	0.0	0.02	0.05
5	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.0	0.00	0.29
6	0.01	0.00	0.00	0.00	0.39	0.00	0.00	0.14	0.19	0.0	0.00	0.16
7	0.03	0.00	0.00	0.09	0.00	0.01	0.00	0.01	0.00	0.0	0.0	0.00
8	0.35	0.00	0.00	0.0	0.05	0.00	0.00	0.0	0.0	0.0	0.0	0.08
9	0.03	0.01	0.02	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.06
10	0.02	0.09	0.05	0.12	0.0	0.09	0.00	0.0	0.0	0.0	0.00	0.03
11	0.10	0.00	0.07	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.00
12	0.05	0.0	0.77	0.00	0.01	0.00	0.0	0.00	0.0	0.00	0.21	0.07
13	0.05	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.05	0.09	0.05
14	0.07	0.00	0.02	0.02	0.00	0.00	0.00	0.0	0.0	0.02	0.00	0.05
15	0.14	0.09	0.04	0.01	0.05	0.0	0.00	0.0	0.0	0.00	0.00	0.02
16	0.12	0.00	0.31	0.07	0.07	0.00	0.00	0.0	0.00	0.39	0.0	0.00
17	0.81	0.07	0.01	0.01	0.00	0.0	0.00	0.0	0.0	0.18	0.00	0.00
18	0.27	0.11	0.0	0.04	0.00	0.00	0.00	0.0	0.0	0.00	0.06	0.00
19	0.08	0.00	0.00	0.0	0.00	0.0	0.0	0.0	0.0	0.11	0.00	0.00
20	0.04	0.00	0.00	0.14	0.00	0.00	0.01	0.00	0.01	0.04	0.00	0.00
21	0.01	0.00	0.01	0.02	0.01	0.00	0.02	0.0	0.0	0.00	0.00	0.00
22	0.06	0.0	0.21	0.00	0.00	0.0	0.13	0.00	0.0	0.00	0.00	0.23
23	0.05	0.00	0.41	0.12	0.00	0.00	0.02	0.00	0.0	0.00	0.00	0.04
24	0.01	0.06	0.03	0.04	0.00	0.0	0.00	0.0	0.00	0.00	0.08	0.00
25	0.12	0.01	0.22	0.04	0.01	0.88	0.00	0.0	0.01	0.00	0.00	0.29
26	0.01	0.00	0.16	0.01	0.02	0.80	0.00	0.0	0.08	0.09	0.98	0.02
27	0.00	0.03	0.01	0.00	0.00	0.20	0.00	0.00	0.02	0.04	0.05	0.00
28	0.0	0.04	0.0	0.0	0.00	0.19	0.00	0.0	0.03	0.00	0.11	0.00
29	0.00	0.00	0.00	0.00	0.03	0.00	0.0	0.34	0.38	0.00	0.18	0.04
30	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.81	0.11	0.03	0.01
31	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.0	0.01	0.00	0.00
TOTAL	2.40	0.62	2.46	0.74	0.94	2.52	0.40	0.58	1.54	1.08	1.97	1.60
STA AV												

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1971		DAILY PRECIPITATION (inches)					ETHNOLOS, IDAHO WATERSHED W-1 (036068)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.0	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.08	0.13	0.01
2	0.00	0.00	0.00	0.0	0.00	0.42	0.00	0.01	0.00	0.0	0.00	0.02
3	0.00	0.00	0.04	0.00	0.21	0.03	0.00	0.01	0.01	0.0	0.00	0.07
4	0.0	0.09	0.05	0.00	0.00	0.15	0.00	0.00	0.00	0.0	0.02	0.07
5	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.0	0.00	0.37
6	0.01	0.00	0.00	0.01	0.43	0.00	0.00	0.15	0.21	0.0	0.00	0.21
7	0.04	0.00	0.00	0.12	0.00	0.01	0.00	0.01	0.00	0.0	0.0	0.00
8	0.42	0.00	0.00	0.0	0.06	0.00	0.00	0.0	0.0	0.0	0.0	0.13
9	0.08	0.01	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.09
10	0.03	0.11	0.07	0.17	0.0	0.09	0.00	0.0	0.0	0.0	0.00	0.05
11	0.12	0.00	0.08	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.01	0.01
12	0.06	0.0	0.91	0.00	0.01	0.00	0.0	0.00	0.0	0.00	0.25	0.14
13	0.06	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.06	0.12	0.09
14	0.08	0.00	0.03	0.03	0.00	0.00	0.00	0.0	0.0	0.02	0.00	0.09
15	0.17	0.11	0.05	0.01	0.06	0.0	0.0	0.0	0.0	0.00	0.00	0.04
16	0.15	0.00	0.44	0.10	0.08	0.00	0.00	0.0	0.00	0.46	0.0	0.00
17	0.92	0.11	0.01	0.01	0.00	0.0	0.00	0.0	0.0	0.17	0.00	0.00
18	0.32	0.17	0.0	0.06	0.00	0.00	0.00	0.0	0.0	0.00	0.07	0.00
19	0.02	0.07	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.13	0.00	0.00
20	0.05	0.00	0.00	0.17	0.00	0.00	0.01	0.00	0.01	0.05	0.00	0.00
21	0.01	0.00	0.01	0.03	0.01	0.00	0.02	0.0	0.0	0.00	0.00	0.00
22	0.07	0.00	0.25	0.01	0.00	0.0	0.13	0.00	0.00	0.00	0.00	0.27
23	0.07	0.16	0.46	0.16	0.00	0.00	0.02	0.00	0.0	0.00	0.00	0.05
24	0.01	0.09	0.04	0.05	0.00	0.0	0.00	0.0	0.00	0.00	0.10	0.00
25	0.15	0.02	0.25	0.05	0.01	0.51	0.00	0.0	0.01	0.00	0.06	0.36
26	0.01	0.00	0.19	0.01	0.03	0.83	0.00	0.0	0.09	0.12	1.12	0.02
27	0.00	0.04	0.01	0.00	0.00	0.21	0.00	0.00	0.03	0.06	0.06	0.00
28	0.0	0.06	0.0	0.00	0.00	0.20	0.00	0.08	0.0	0.14	0.00	0.00
29	0.00	0.00	0.00	0.00	0.03	0.00	0.0	0.36	0.00	0.48	0.00	0.23
30	0.00	0.07	0.00	0.00	0.00	0.0	0.00	0.00	1.00	0.16	0.04	0.01
31	0.00	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.0	0.02	0.00	0.00
TOTAL	2.82	0.90	3.30	0.99	1.05	2.65	0.51	0.60	1.89	1.35	2.34	2.16
STA AV												

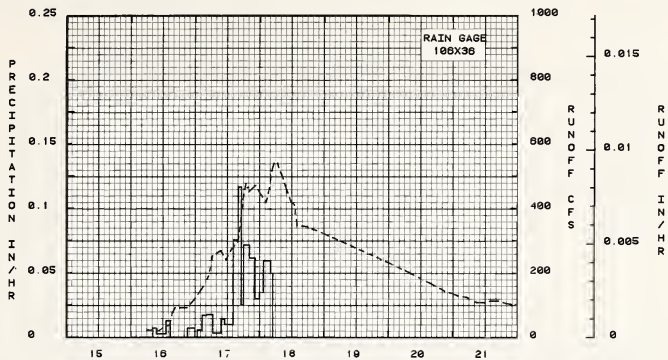
NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV do not apply to shielded rain gage records.

1971		MEAN DAILY DISCHARGE (cfs)					ETHNOLOS, IDAHO WATERSHED W-1 (036068)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.30	61.33	19.67	84.51	85.31	32.11	19.55	1.86	1.71	5.31	2.94	11.27
2	7.51	57.60	15.77	81.08	104.38	41.71	19.11	2.01	1.65	4.91	2.72	12.54
3	6.91	41.39	22.89	75.90	115.58	34.75	14.39	2.06	1.63	5.24	2.69	11.88
4	6.48	40.49	21.36	74.16	122.91	34.30	10.48	2.13	1.57	6.26	2.77	11.75
5	6.27	35.01	17.18	77.01	122.97	33.26	10.32	2.00	1.46	7.01	2.69	29.13
6	6.23	27.65	16.94	82.29	131.12	29.32	9.43	2.01	1.55	7.25	3.19	77.58
7	6.33	30.87	17.23	95.16	133.11	27.95	6.59	1.81	1.54	6.78	6.34	78.00
8	17.96	28.68	17.62	81.31	127.35	26.20	5.15	1.67	1.41	5.85	7.00	14.70
9	80.92	26.70	16.61	81.47	119.25	24.15	5.33	1.57	1.43	5.28	6.27	16.21
10	34.88	47.03	18.60	87.88	111.70	24.52	5.05	1.56	1.43	4.92	6.13	15.75
11	20.38	45.46	26.24	75.18	107.02	25.71	4.63	1.44	1.38	4.73	6.48	15.41
12	13.27	36.45	72.75	67.04	104.20	22.85	4.59	1.75	1.47	4.61	8.11	15.19
13	9.77	36.86	73.50	64.40	97.44	19.29	4.59	1.82	1.43	4.46	8.37	14.96
14	18.66	35.91	39.93	68.75	83.50	16.31	4.89	1.78	1.36	4.70	7.93	14.85
15	25.27	38.87	35.01	78.33	74.43	17.11	4.78	1.59	1.43	4.89	7.51	14.63
16	52.82	33.47	30.42	76.81	74.20	16.94	4.27	1.37	1.41	5.38	6.42	14.20
17	297.26	34.18	30.23	79.42	58.97	22.45	4.11	1.57	1.49	7.12	6.60	13.77
18	411.01	30.85	31.51	71.84	46.10	22.27	4.38	1.81	1.58	6.45	7.28	13.35
19	276.00	29.46	30.88	68.65	39.60	22.15	4.04	1.76	1.59	6.74	7.06	12.94
20	182.16	27.20	35.29	74.09	31.70	19.39	4.73	1.87	1.59	7.35	7.23	12.54
21	113.98	27.90	50.82	73.85	25.66	17.21	3.31	2.22	1.76	7.08	7.30	12.14
22	93.63	27.42	97.78	66.63	19.99	15.23	2.52	1.90	1.79	6.51	7.28	11.94
23	80.45	24.93	240.49	71.56	21.83	13.39	2.34	1.69	1.60	6.46	7.02	11.65
24	70.88	27.14	111.88	69.82	21.67	12.30	2.22	1.93	1.31	6.21	7.55	10.99
25	73.03	22.58	128.12	67.65	24.96	14.15	2.05	1.98	1.30	5.78	7.82	10.34
26	77.32	18.81	241.11	65.05	32.78	30.20	2.60	2.15	1.50	5.15	26.01	9.72
27	70.17	18.16	143.24	61.43	39.49	32.09	3.10	2.23	1.53	3.15	47.41	9.12
28	62.70	19.37	112.34	63.34	38.00	32.55	2.98	2.14	1.62	1.96	22.06	8.62
29	55.34		116.35	68.60	35.23	24.35	3.18	4.09	2.68	2.33	19.98	8.13
30	56.68		111.88	76.74	36.66	20.79	2.64	2.34	2.62	2.56	16.13	7.66
31	63.17		96.43		32.51		1.76	2.31		2.76		7.21
MEAN	74.378	33.277	66.028	74.330	71.620	24.185	5.776	1.949	1.715	6.328	9.476	15.102
INCHES	0.950	0.384	0.869	0.919	0.915	0.299	0.074	0.025	0.021	0.068	0.107	0.193
STA AV	0.522	0.289	0.311	0.539	0.587	0.291	0.039	0.024	0.014	0.023	0.049	0.230

NOTES: To convert CFS to I/R/DAT, multiply by 0.000413. STA AV based on 9 yr (1963-71) record period.

1971 SELECTED RUNOFF EVENT			BETHOLDS, IDAHO WATERSHED W-1 (036068)								
AVERAGE CONDITIONS			RAINFALL						RUNOFF		
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JANUARY 15 - 21, 1971											
RG 106X36			RG 106X36								
1-16	0.02	0.003	1-16	813	0.0	0.0	1-16	600	22.280	0.0	
				936	0.0072	0.01		1030	20.926	0.0017	
				1313	0.0028	0.02		1200	30.438	0.0024	
				1445	0.0130	0.04		1430	38.580	0.0039	
				2112	0.0	0.04		1530	75.721	0.0049	
WATERSHED CONDITIONS:											
Runoff event was caused by a											
sustained winter rain fol-											
lowing about 10 days of in-											
termittent rain and snow-											
melt.											
			1-17	2400	0.0071	0.06		1630	92.570	0.0063	
				48	0.0	0.06		2100	92.570	0.0134	
				234	0.0057	0.07		2400	121.118	0.0189	
				418	0.0173	0.10	1-17	300	157.945	0.0261	
				634	0.0176	0.14		500	190.568	0.0321	
				940	0.0032	0.15		630	253.962	0.0378	
				1105	0.0181	0.17		930	260.676	0.0513	
				1407	0.0099	0.20		1130	239.799	0.0600	
				1558	0.0757	0.34		1330	274.167	0.0668	
				1710	0.1167	0.48		1600	298.370	0.0811	
				1758	0.0250	0.50		1700	368.106	0.0868	
				2012	0.0716	0.66		1800	445.032	0.0938	
				2219	0.0614	0.79		1845	477.363	0.0997	
				2400	0.0297	0.84		1915	464.658	0.1037	
			1-18	127	0.0345	0.89		1950	464.658	0.1084	
				409	0.0593	1.05		1955	452.293	0.1091	
				457	0.0500	1.09		2225	470.968	0.1289	
								2400	447.439	0.1414	
							1-18	340	464.658	0.1688	
								400	502.464	0.1716	
								515	540.420	0.1828	
								630	540.420	0.1944	
								800	506.545	0.2079	
								845	491.738	0.2143	
								930	470.968	0.2205	
								1030	447.439	0.2284	
								1155	411.549	0.2388	
								1215	417.136	0.2412	
								1300	409.334	0.2465	
								1400	346.354	0.2530	
								1800	341.479	0.2766	
								2400	320.937	0.3107	
							1-19	2400	231.068	0.4244	
							1-20	800	199.371	0.4540	
								1600	165.719	0.4791	
								2100	143.136	0.4924	
								2400	135.233	0.4996	
							1-21	200	128.459	0.5081	
								500	124.345	0.5106	
								900	108.035	0.5186	
								1200	108.035	0.5242	

NOTES: To convert CFS to IS/HR, multiply by 0.00001719.



EVENT OF JANUARY 15 - 21, 1971
REYNOLDS, IDAHO WATERSHED V-1 (036068)

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 RONOFF (inches)												REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1971	P	3.23	1.30	3.69	1.61	1.18	3.09	0.26	0.55	2.94	1.44	3.53	2.69	25.51												
	Q	1.072	0.289	0.878	0.544	0.233	0.097	0.038	0.004	0.019	0.099	0.193	0.404	3.872												
STA AV	P	4.22	1.50	2.02	1.83	1.37	2.26	0.24	1.05	1.24	1.73	2.66	2.29	22.42												
	Q	0.816	0.358	0.399	0.431	0.301	0.134	0.027	0.041	0.022	0.045	0.088	0.161	2.820												
ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RONOFF (inches) FOR SELECTED TIME INTERVALS														BASIN VOLUME FOR SELECTED TIME INTERVALS												
1971	Date	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.												
	1-18	0.015	1-18	0.014	1-18	0.027	1-18	0.074	1-17	0.141	1-17	0.259	1-17	0.412	1-16	0.771										
RAINFALLS FOR PERIOD OF RECORD																										
	8-23	0.073	8-23	0.044	8-23	0.056	1-20	0.115	1-28	0.208	1-28	0.379	1-28	0.766	1-28	1.495										
	1965		1965		1965		1969		1965		1965		1965		1965											

NOTES: Watershed conditions: Predominately sagebrush rangeland, 99% irrigated pasture and hay crops, 1% for rap of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69, 7-7. Records began 1963. Precipitation: Thiessen weighted average "Computed Actual" amounts from 9 rain gages. Station average precipitation amounts are based on 1968-71 data. Station average runoff amounts are based on record period (1963-71). For long-time precipitation records, see National Weather Service records at Boise, Idaho; 59 miles S.E. of watershed.

1971 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.00	0.0	0.0	0.14	0.00	0.0	0.0	0.06	0.25	0.01													
2	0.0	0.00	0.01	0.0	0.0	0.62	0.0	0.00	0.0	0.0	0.0	0.0													
3	0.0	0.00	0.03	0.0	0.19	0.03	0.00	0.00	0.01	0.0	0.00	0.11													
4	0.0	0.06	0.05	0.0	0.00	0.14	0.0	0.0	0.0	0.0	0.08	0.10													
5	0.0	0.13	0.0	0.0	0.0	0.02	0.00	0.07	0.00	0.0	0.01	0.52													
6	0.01	0.0	0.00	0.00	0.64	0.00	0.0	0.12	0.29	0.0	0.0	0.13													
7	0.09	0.0	0.0	0.17	0.01	0.01	0.00	0.00	0.0	0.0	0.0	0.0													
8	0.53	0.0	0.0	0.0	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.19													
9	0.05	0.02	0.03	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.09													
10	0.04	0.10	0.03	0.16	0.0	0.08	0.00	0.0	0.0	0.0	0.0	0.08													
11	0.16	0.0	0.06	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.02													
12	0.14	0.0	1.39	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.31	0.21													
13	0.04	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.05	0.20													
14	0.08	0.0	0.05	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.12													
15	0.07	0.24	0.04	0.06	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.04													
16	0.19	0.0	0.44	0.30	0.05	0.0	0.0	0.0	0.0	0.39	0.0	0.0													
17	1.04	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0													
18	0.27	0.18	0.0	0.18	0.0	0.0	0.00	0.0	0.0	0.00	0.07	0.00													
19	0.62	0.16	0.02	0.0	0.01	0.0	0.08	0.0	0.0	0.24	0.01	0.0													
20	0.14	0.0	0.0	0.19	0.00	0.0	0.0	0.00	0.00	0.01	0.0	0.0													
21	0.0	0.0	0.0	0.03	0.01	0.0	0.05	0.0	0.0	0.0	0.0	0.0													
22	0.03	0.0	0.26	0.01	0.00	0.0	0.09	0.0	0.0	0.0	0.0	0.27													
23	0.05	0.0	0.54	0.31	0.0	0.0	0.03	0.00	0.0	0.0	0.0	0.12													
24	0.01	0.08	0.09	0.06	0.00	0.0	0.0	0.00	0.0	0.09	0.01	0.0													
25	0.27	0.01	0.29	0.00	0.01	0.63	0.0	0.0	0.0	0.0	0.06	0.38													
26	0.00	0.0	0.20	0.01	0.03	0.90	0.0	0.0	0.22	0.14	1.00	0.03													
27	0.00	0.05	0.03	0.0	0.01	0.31	0.0	0.0	0.00	0.12	0.10	0.0													
28	0.0	0.13	0.0	0.0	0.00	0.21	0.0	0.0	0.07	0.0	0.15	0.00													
29	0.00	0.0	0.00	0.01	0.00	0.0	0.35	0.55	0.0	0.32	0.07	0.0													
30	0.0	0.13	0.00	0.0	0.0	0.0	0.00	1.79	0.26	0.08	0.01	0.0													
31	0.00	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.02	0.0	0.01	0.0													
TOTAL	3.23	1.30	3.69	1.61	1.18	3.09	0.26	0.55	2.94	1.44	3.53	2.69													
STA AV	4.22	1.50	2.02	1.83	1.37	2.26	0.24	1.05	1.24	1.73	2.66	2.29													

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. Eason, "Computing Actual Precipitation", Proceedings WMO-IBES Symposium, Guello, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (0.2) + 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on a yr (1968-71) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1971		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (0466017)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.00	0.0	0.0	0.11	0.00	0.0	0.0	0.04	0.14	0.00
2	0.0	0.00	0.01	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.03
3	0.0	0.00	0.02	0.0	0.14	0.02	0.00	0.00	0.01	0.0	0.00	0.08
4	0.0	0.04	0.03	0.0	0.00	0.13	0.0	0.0	0.0	0.0	0.06	0.07
5	0.0	0.02	0.0	0.0	0.0	0.02	0.00	0.07	0.00	0.0	0.00	0.39
6	0.01	0.0	0.00	0.00	0.52	0.00	0.0	0.11	0.24	0.0	0.0	0.09
7	0.06	0.0	0.0	0.13	0.00	0.01	0.00	0.00	0.0	0.0	0.0	0.13
8	0.36	0.0	0.0	0.0	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.0
9	0.03	0.01	0.02	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.07
10	0.02	0.05	0.02	0.11	0.0	0.08	0.00	0.0	0.0	0.0	0.0	0.04
11	0.09	0.0	0.05	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.01
12	0.08	0.0	1.05	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.25	0.09
13	0.03	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.04	0.16	0.05
14	0.05	0.0	0.03	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.05
15	0.05	0.14	0.03	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01
16	0.16	0.0	0.26	0.18	0.04	0.0	0.0	0.0	0.0	0.28	0.0	0.0
17	0.91	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0
18	0.24	0.05	0.0	0.11	0.00	0.0	0.00	0.0	0.0	0.00	0.05	0.00
19	0.02	0.05	0.01	0.0	0.01	0.0	0.08	0.0	0.0	0.18	0.00	0.0
20	0.09	0.0	0.0	0.12	0.00	0.0	0.00	0.00	0.00	0.01	0.0	0.0
21	0.0	0.0	0.0	0.01	0.01	0.0	0.05	0.0	0.0	0.0	0.0	0.0
22	0.03	0.0	0.20	0.00	0.00	0.0	0.08	0.0	0.0	0.0	0.0	0.19
23	0.03	0.0	0.41	0.17	0.0	0.0	0.02	0.00	0.0	0.0	0.0	0.08
24	0.01	0.03	0.07	0.03	0.00	0.0	0.0	0.0	0.0	0.07	0.0	0.0
25	0.18	0.00	0.21	0.00	0.01	0.56	0.0	0.0	0.0	0.0	0.04	0.25
26	0.00	0.0	0.14	0.01	0.03	0.01	0.0	0.0	0.16	0.08	1.37	0.02
27	0.00	0.02	0.02	0.0	0.01	0.27	0.0	0.0	0.00	0.07	0.07	0.0
28	0.0	0.05	0.0	0.0	0.00	0.19	0.0	0.0	0.05	0.0	0.11	0.00
29	0.00	0.0	0.0	0.00	0.01	0.00	0.0	0.0	0.38	0.24	0.0	0.05
30	0.0	0.09	0.00	0.00	0.00	0.0	0.0	0.00	1.18	0.15	0.05	0.00
31	0.00	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.00
TOTAL	2.46	0.54	2.69	1.01	0.89	2.72	0.24	0.53	2.02	0.97	2.63	1.70
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1971		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (0466017)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.00	0.0	0.0	0.12	0.00	0.0	0.05	0.20	0.01	0.0
2	0.0	0.00	0.01	0.0	0.0	0.57	0.0	0.00	0.0	0.0	0.0	0.03
3	0.0	0.00	0.03	0.0	0.17	0.02	0.00	0.00	0.01	0.0	0.00	0.10
4	0.0	0.05	0.04	0.0	0.00	0.13	0.0	0.0	0.0	0.0	0.07	0.08
5	0.0	0.06	0.0	0.0	0.0	0.02	0.00	0.07	0.00	0.0	0.01	0.46
6	0.01	0.0	0.00	0.00	0.59	0.00	0.0	0.12	0.26	0.0	0.0	0.11
7	0.08	0.0	0.0	0.15	0.00	0.01	0.00	0.00	0.0	0.0	0.0	0.0
8	0.44	0.0	0.0	0.0	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.16
9	0.04	0.01	0.03	0.01	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.08
10	0.03	0.07	0.03	0.13	0.0	0.08	0.00	0.0	0.0	0.0	0.0	0.06
11	0.13	0.0	0.06	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.02
12	0.12	0.0	1.22	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.28	0.15
13	0.03	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.05	0.18	0.09
14	0.07	0.0	0.04	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.09
15	0.06	0.19	0.04	0.05	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.18	0.0	0.35	0.24	0.04	0.0	0.0	0.0	0.0	0.34	0.0	0.0
17	0.08	0.08	0.0	0.0	0.0	0.02	0.00	0.0	0.0	0.13	0.0	0.0
18	0.26	0.10	0.0	0.15	0.0	0.0	0.00	0.0	0.0	0.00	0.06	0.00
19	0.02	0.09	0.01	0.0	0.01	0.0	0.08	0.0	0.0	0.21	0.00	0.0
20	0.11	0.0	0.0	0.15	0.00	0.0	0.0	0.00	0.00	0.01	0.0	0.0
21	0.0	0.0	0.0	0.02	0.01	0.0	0.05	0.0	0.0	0.0	0.0	0.0
22	0.03	0.0	0.23	0.00	0.00	0.0	0.09	0.0	0.0	0.0	0.0	0.23
23	0.04	0.0	0.48	0.23	0.0	0.0	0.02	0.00	0.00	0.0	0.0	0.10
24	0.01	0.05	0.08	0.05	0.00	0.0	0.0	0.0	0.0	0.0	0.08	0.00
25	0.22	0.01	0.25	0.00	0.01	0.59	0.0	0.0	0.0	0.0	0.05	0.32
26	0.00	0.0	0.17	0.01	0.03	0.85	0.0	0.0	0.19	0.11	1.60	0.03
27	0.00	0.03	0.03	0.0	0.01	0.29	0.0	0.0	0.00	0.09	0.08	0.0
28	0.0	0.08	0.0	0.0	0.00	0.20	0.0	0.0	0.06	0.0	0.13	0.00
29	0.00	0.0	0.0	0.00	0.01	0.00	0.0	0.34	0.47	0.0	0.28	0.06
30	0.0	0.11	0.00	0.00	0.00	0.0	0.0	0.00	1.48	0.20	0.07	0.01
31	0.00	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01
TOTAL	2.86	0.84	3.21	1.30	1.03	2.91	0.25	0.54	2.47	1.21	3.09	2.20
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 shielded recording gages. STA AV do not apply to shielded rain gage records.

1971					REYNOLDS, IDAHO SALMON CREEK WATERSHED (0466017)							
Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec
1	1.537		2.727	12.757	4.501	2.026	1.268	0.109	0.093	1.235	1.127	4.214
2	1.275	6.014	2.695	11.515	4.435	2.572	1.145	0.063	0.111	1.021	1.052	3.899
3	1.652	5.029	2.643	10.294	4.529	2.096	1.031	0.054	0.141	1.366	1.063	3.659
4	1.488	5.242	2.486	9.228	4.846	2.110	0.918	0.045	0.096	1.596	1.067	3.467
5	1.460	4.634	2.633	8.751	4.223	1.838	0.737	0.041	0.059	1.682	1.055	3.236
6	1.788	4.409	2.541	8.437	4.868	1.666	0.947	0.058	0.122	1.597	0.991	24.126
7	1.737	5.616	2.350	8.694	4.882	1.553	0.790	0.036	0.141	1.451	1.111	7.771
8	4.126	4.428	2.295	7.778	4.071	1.466	0.398	0.031	0.148	1.328	1.177	7.091
9	12.037	3.680	2.247	7.374	3.724	1.411	0.398	0.029	0.124	1.264	1.121	7.050
10	7.072	4.353	2.335	7.670	3.519	1.474	0.386	0.024	0.149	1.216	1.143	5.414
11	5.277	3.911	2.508	6.962	3.335	1.408	0.472	0.016	0.149	1.172	1.165	4.585
12	4.279	3.728	5.453	6.315	3.248	1.272	0.754	0.016	0.154	1.166	1.210	4.215
13	3.393	3.663	7.747	5.885	3.104	1.184	0.439	0.016	0.176	1.126	1.233	3.859
14	3.721	3.649	5.318	5.809	2.371	1.016	0.388	0.019	0.148	1.141	1.255	3.630
15	3.914	3.799	4.897	5.718	1.740	0.845	0.366	0.023	0.195	1.147	1.301	3.272
16	12.339	3.433	4.737	5.704	2.234	0.668	0.337	0.019	0.190	1.252	1.324	3.024
17	66.236	3.608	4.720	5.985	1.971	0.650	0.269	0.019	0.183	1.466	1.324	2.824
18	85.064	3.550	4.933	6.232	1.861	0.658	0.360	0.023	0.286	1.251	1.324	2.633
19	47.614	3.373	4.973	5.649	2.054	0.679	0.429	0.023	0.198	1.378	1.324	3.058
20	33.926	3.195	5.922	5.761	2.223	0.618	0.336	0.023	0.217	1.371	1.324	3.024
21	20.056	3.252	7.055	5.690	2.257	0.430	0.240	0.023	0.228	1.277	1.324	2.906
22	13.349	3.058	13.197	5.249	2.028	0.483	0.249	0.023	0.218	1.196	1.324	3.404
23	10.979	2.894	36.607	5.479	1.918	0.448	0.313	0.027	0.206	1.181	1.228	4.624
24	8.661	2.931	34.125	5.727	1.918	0.432	0.275	0.035	0.178	1.179	1.296	3.730
25	8.472	2.956	26.683	5.647	1.860	0.635	0.261	0.051	0.217	1.127	1.371	3.734
26	9.365	2.889	35.864	5.454	1.857	1.451	0.258	0.062	0.324	1.121	1.688	3.493
27	7.954	2.791	28.893	5.292	1.816	1.467	0.233	0.062	0.355	1.137	13.391	3.493
28	7.040	2.727	22.856	4.957	1.814	1.402	0.194	0.062	0.346	0.540	6.935	3.493
29	6.374		19.209	4.784	1.836	1.309	0.146	0.272	0.561	0.695	6.357	3.418
30	6.232		16.726	4.603	1.772	1.377	0.133	0.132	0.388	0.869	5.951	3.270
31	6.648		14.416		1.929		0.119	0.080		1.034		3.128
MEAN	13.066	3.903	10.703	6.853	2.837	1.221	0.461	0.049	0.237	1.212	2.424	4.927
INCSES	1.072	0.289	0.878	0.544	0.233	0.097	0.038	0.004	0.019	0.099	0.193	0.404
STA AV	0.816	0.358	0.399	0.431	0.301	0.134	0.027	0.041	0.022	0.045	0.088	0.161

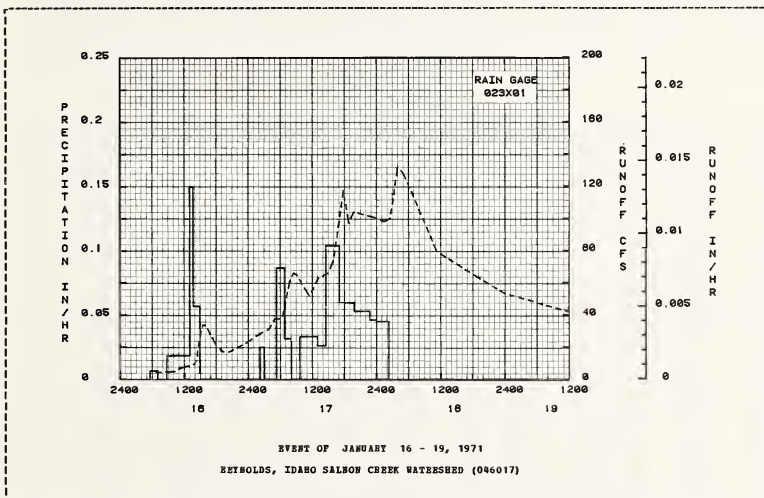
NOTES: To convert CFS to IN/DAY, multiply by 0.002648. STA AV amounts are based on 1963-71 record period.

1971				REYNOLDS, IDAHO SALMON CREEK WATERSHED (0466017)							
SELECTED RHOFF EVENT				RAINFALL							
DATE	RAINFALL	RHOFF	DATE	TIME	INTENSITY	ACC.	DATE	TIME	RHOFF	ACC.	
MO-DA	(INCHES)	(INCHES)	MO-DA	OF DAY	(IN/HR)	(INCHES)	MO-DA	OF DAY	(CFS)	(INCHES)	
EVENT OF JANUARY 16 - 19, 1971											
1-16	RG 023X01	0.01	0.003	1-16	533	0.0	0.0	1-16	640	4.418	0.0
					701	0.0068	0.01		1010	5.103	0.0018
					843	0.0	0.01		1122	7.512	0.0026
					1301	0.0186	0.09		1248	8.518	0.0039
					1341	0.1500	0.19		1346	9.453	0.0049
					1455	0.0568	0.26		1418	11.949	0.0055
					212	0.0	0.26		1454	26.919	0.0068
					300	0.0250	0.28		1528	33.848	0.0087
					516	0.0	0.28		1556	33.848	0.0104
					646	0.0867	0.41		1756	21.262	0.0165
					802	0.0316	0.45		1922	16.992	0.0195
					940	0.0	0.45		2022	16.992	0.0214
					1258	0.0333	0.56		2400	23.508	0.0255
					1430	0.0261	0.60	1-17	154	28.097	0.0349
					1700	0.1040	0.86		346	31.105	0.0410
					1952	0.0593	1.03		456	37.750	0.0454
					2242	0.0529	1.18		556	37.750	0.0496
					2480	0.0462	1.24		626	39.288	0.0517
					1-18	214	0.0448	1.34	746	61.800	0.0591
									826	66.110	0.0638
									908	64.652	0.0689
									1122	51.853	0.0833
									1308	63.215	0.0945
									1456	66.110	0.1073
									1554	73.731	0.1148
									1654	95.297	0.1241
									1748	117.441	0.1347
									1848	97.184	0.1465
									1946	103.908	0.1572
									2400	100.061	0.2046

NOTES: To convert CFS to IN/HR, multiply by .0001103.

1971 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)							
PRECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JANUARY 16 - 19, 1971 (CONTINUED)										
							1-18	128	98.136	0.2208
								234	100.061	0.2328
								358	132.012	0.2507
								506	127.408	0.2669
								1114	79.401	0.3369
								1834	63.931	0.3949
								2400	53.113	0.4300
							1-19	1148	41.943	0.4519
								1622	53.113	0.5158
								2400	42.486	0.5561

NOTES: To convert CFS to IN/HR, multiply by .0001103.



REYNOLDS, IDAHO BACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Hampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUOFF (inches)												REYNOLDS, IDAHO BACKS CREEK WATERSHED (046084)																							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																					
1971	P	3.08	1.09	3.30	1.23	1.01	2.67	0.30	0.60	1.90	1.83	2.78	2.77	22.12																					
	Q	1.358	0.330	1.074	0.598	0.129	0.070	0.020	0.006	0.004	0.016	0.082	0.222	3.909																					
STA AV	P	3.72	1.25	1.71	1.43	1.05	2.03	0.21	1.08	0.98	1.42	2.25	2.00	19.09																					
	Q	0.665	0.218	0.404	0.338	0.121	0.061	0.011	0.003	0.002	0.004	0.022	0.076	1.925																					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS																																			
		Basin				1 Hour				2 Hours				6 Hours				12 Hours				1 Day				2 Days				8 Days					
		Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date							
1971		1-18	0.036	1-18	0.033	1-18	0.064	1-18	0.162	1-18	0.265	1-17	0.436	1-17	0.632	1-16	1.013																		
MAXIMUMS FOR PERIOD OF RECORD																																			
		1-21	0.039	1-21	0.037	1-20	0.069	1-20	0.183	1-20	0.294	1-20	0.457	1-20	0.649	1-16	1.013																		
		1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1971																				

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 hay crops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSDA Misc. Pub. 1226, p. 66-3-4. Records began 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. Station average precipitation amounts are based on 1968-71 record period. Station average streamflow amounts are based on 1963-71. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles E.W. of watershed.

1971	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO BACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.00	0.0	0.00	0.14	0.00	0.0	0.00	0.01	0.14	0.0													
2	0.00	0.00	0.00	0.0	0.0	0.40	0.00	0.03	0.01	0.0	0.0	0.03													
3	0.0	0.0	0.03	0.0	0.27	0.01	0.00	0.02	0.02	0.0	0.00	0.10													
4	0.0	0.07	0.04	0.0	0.01	0.13	0.00	0.00	0.0	0.0	0.03	0.15													
5	0.00	0.02	0.0	0.0	0.00	0.0	0.00	0.07	0.00	0.0	0.01	0.57													
6	0.01	0.0	0.0	0.00	0.40	0.0	0.00	0.11	0.12	0.0	0.0	0.25													
7	0.05	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.00													
8	0.75	0.00	0.0	0.0	0.02	0.01	0.00	0.0	0.0	0.0	0.0	0.22													
9	0.05	0.01	0.03	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.11													
10	0.03	0.16	0.10	0.21	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.04													
11	0.10	0.0	0.07	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.01	0.01													
12	0.09	0.0	1.20	0.02	0.00	0.01	0.0	0.01	0.0	0.01	0.0	0.32	0.15												
13	0.03	0.0	0.01	0.00	0.01	0.0	0.0	0.0	0.0	0.08	0.13	0.09													
14	0.03	0.00	0.01	0.04	0.00	0.00	0.0	0.0	0.0	0.02	0.01	0.13													
15	0.07	0.18	0.02	0.02	0.03	0.0	0.00	0.0	0.0	0.0	0.00	0.02													
16	0.10	0.0	0.36	0.22	0.07	0.00	0.00	0.0	0.00	0.43	0.0	0.0													
17	0.94	0.17	0.00	0.02	0.00	0.0	0.0	0.0	0.0	0.16	0.0	0.0													
18	0.31	0.19	0.0	0.09	0.00	0.00	0.0	0.0	0.0	0.01	0.10	0.00													
19	0.04	0.06	0.00	0.01	0.01	0.0	0.12	0.0	0.00	0.19	0.00	0.00													
20	0.09	0.00	0.01	0.04	0.00	0.00	0.0	0.05	0.00	0.02	0.03	0.00	0.0												
21	0.00	0.00	0.0	0.03	0.00	0.0	0.03	0.0	0.0	0.0	0.0	0.0													
22	0.05	0.0	0.32	0.01	0.0	0.01	0.03	0.00	0.0	0.01	0.0	0.31													
23	0.07	0.02	0.55	0.11	0.00	0.0	0.02	0.00	0.0	0.00	0.0	0.08													
24	0.01	0.04	0.04	0.03	0.0	0.0	0.00	0.0	0.00	0.0	0.11	0.00													
25	0.21	0.01	0.23	0.02	0.01	0.58	0.00	0.0	0.02	0.0	0.03	0.39													
26	0.02	0.00	0.14	0.01	0.03	0.81	0.0	0.0	0.0	0.23	0.15	1.27	0.04												
27	0.05	0.0	0.02	0.01	0.0	0.29	0.01	0.00	0.03	0.00	0.05	0.01													
28	0.0	0.09	0.0	0.0	0.00	0.17	0.00	0.0	0.06	0.0	0.13	0.00													
29	0.00	0.0	0.00	0.01	0.01	0.0	0.35	0.55	0.0	0.38	0.03	0.0													
30	0.0	0.09	0.0	0.01	0.00	0.0	0.01	0.84	0.22	0.05	0.02	0.0													
31	0.00	0.0	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0													
TOTAL		3.04	1.09	3.30	1.23	1.01	2.67	0.30	0.60	1.90	1.83	2.78	2.77												
STA AV		3.72	1.25	1.71	1.43	1.05	2.03	0.21	1.08	0.98	1.42	2.25	2.00												

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 H. H. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IMES Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (D/A) = \log_e (U/S) + 1.80$, where 0 = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 8 yr (1968-71) record period. For temperature information, see table of daily maximum and minimum values included for watershed 046084.

1971 DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO RACKS 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	0.0	0.0	0.0	0.0	0.00	0.13	0.00	0.0	0.00	0.01	0.10	0.0	1	0.0	0.0	0.0	0.00	0.13	0.00	0.0	0.00	0.01	0.10	0.0	
2	0.00	0.00	0.00	0.0	0.0	0.37	0.00	0.03	0.01	0.0	0.0	0.02	2	0.00	0.00	0.00	0.0	0.37	0.00	0.03	0.01	0.0	0.0	0.02	
3	0.0	0.0	0.02	0.0	0.24	0.01	0.00	0.02	0.02	0.0	0.00	0.06	3	0.0	0.0	0.02	0.0	0.24	0.01	0.00	0.02	0.02	0.0	0.00	
4	0.0	0.05	0.02	0.0	0.01	0.12	0.00	0.00	0.0	0.0	0.02	0.08	4	0.0	0.05	0.02	0.0	0.01	0.12	0.00	0.00	0.0	0.02	0.08	
5	0.00	0.01	0.0	0.0	0.00	0.0	0.00	0.07	0.00	0.0	0.01	0.32	5	0.00	0.01	0.0	0.0	0.00	0.0	0.00	0.07	0.00	0.0	0.01	
6	0.00	0.0	0.0	0.00	0.33	0.0	0.00	0.10	0.11	0.0	0.0	0.14	6	0.00	0.0	0.0	0.00	0.33	0.0	0.00	0.10	0.11	0.0	0.0	
7	0.04	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.00	7	0.04	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.0	0.0	0.00	
8	0.50	0.00	0.0	0.0	0.01	0.00	0.00	0.00	0.0	0.0	0.0	0.12	8	0.50	0.00	0.0	0.0	0.01	0.00	0.00	0.00	0.0	0.0	0.12	
9	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.06	9	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.06	
10	0.02	0.10	0.08	0.11	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.02	10	0.02	0.10	0.08	0.11	0.0	0.10	0.01	0.0	0.0	0.0	0.02	
11	0.07	0.0	0.05	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.01	0.00	11	0.07	0.0	0.05	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.01	
12	0.06	0.0	0.01	0.01	0.00	0.01	0.0	0.01	0.0	0.01	0.24	0.06	12	0.06	0.0	0.01	0.01	0.00	0.01	0.0	0.01	0.24	0.0	0.01	
13	0.02	0.0	0.01	0.00	0.01	0.0	0.0	0.0	0.0	0.0	0.06	0.09	13	0.02	0.0	0.01	0.00	0.01	0.0	0.0	0.0	0.06	0.09	0.04	
14	0.03	0.00	0.01	0.03	0.00	0.00	0.0	0.0	0.0	0.0	0.01	0.07	14	0.03	0.00	0.01	0.03	0.00	0.00	0.0	0.0	0.01	0.01	0.07	
15	0.06	0.12	0.02	0.01	0.03	0.0	0.00	0.0	0.0	0.0	0.0	0.01	15	0.06	0.12	0.02	0.01	0.03	0.0	0.00	0.0	0.0	0.01	0.01	
16	0.08	0.0	0.25	0.15	0.06	0.00	0.00	0.0	0.00	0.33	0.0	0.0	16	0.08	0.0	0.25	0.15	0.06	0.00	0.00	0.33	0.0	0.0	0.0	
17	0.79	0.09	0.00	0.01	0.00	0.0	0.0	0.0	0.0	0.13	0.0	0.0	17	0.79	0.09	0.00	0.01	0.00	0.0	0.0	0.13	0.0	0.0	0.0	
18	0.25	0.09	0.0	0.04	0.00	0.00	0.0	0.0	0.0	0.01	0.08	0.00	18	0.25	0.09	0.0	0.04	0.00	0.00	0.0	0.0	0.01	0.08	0.00	
19	0.03	0.03	0.00	0.0	0.01	0.0	0.10	0.0	0.0	0.14	0.00	0.00	19	0.03	0.03	0.00	0.0	0.01	0.0	0.10	0.0	0.0	0.14	0.00	
20	0.07	0.0	0.01	0.16	0.00	0.0	0.04	0.00	0.01	0.02	0.00	0.0	20	0.07	0.0	0.01	0.16	0.00	0.0	0.04	0.00	0.01	0.02	0.00	
21	0.00	0.0	0.0	0.02	0.00	0.0	0.02	0.0	0.0	0.00	0.0	0.0	21	0.00	0.0	0.0	0.02	0.00	0.0	0.02	0.0	0.00	0.0	0.0	
22	0.04	0.0	0.25	0.01	0.0	0.0	0.03	0.00	0.0	0.00	0.0	0.24	22	0.04	0.0	0.25	0.01	0.0	0.0	0.03	0.00	0.0	0.00	0.24	
23	0.06	0.00	0.03	0.07	0.00	0.0	0.02	0.00	0.0	0.00	0.0	0.06	23	0.06	0.00	0.03	0.07	0.00	0.0	0.02	0.00	0.0	0.00	0.06	
24	0.01	0.02	0.04	0.01	0.0	0.0	0.00	0.0	0.00	0.0	0.08	0.00	24	0.01	0.02	0.04	0.01	0.0	0.0	0.00	0.0	0.0	0.08	0.00	
25	0.17	0.00	0.18	0.01	0.01	0.58	0.00	0.0	0.00	0.0	0.02	0.30	25	0.17	0.00	0.18	0.01	0.01	0.58	0.00	0.0	0.0	0.02	0.30	
26	0.01	0.0	0.10	0.00	0.03	0.80	0.0	0.0	0.15	0.10	0.99	0.03	26	0.01	0.0	0.10	0.00	0.03	0.80	0.0	0.0	0.15	0.10	0.99	
27	0.00	0.02	0.01	0.0	0.01	0.29	0.01	0.00	0.02	0.04	0.04	0.00	27	0.00	0.02	0.01	0.0	0.01	0.29	0.01	0.00	0.02	0.04	0.04	
28	0.0	0.04	0.0	0.07	0.00	0.0	0.00	0.0	0.04	0.0	0.07	0.00	28	0.0	0.04	0.0	0.07	0.00	0.0	0.00	0.0	0.0	0.07	0.00	
29	0.00	0.0	0.0	0.00	0.01	0.01	0.0	0.33	0.37	0.19	0.03	0.19	29	0.00	0.0	0.0	0.00	0.01	0.01	0.0	0.33	0.37	0.19	0.03	
30	0.0	0.06	0.0	0.0	0.01	0.00	0.0	0.0	0.56	0.15	0.02	0.02	30	0.0	0.06	0.0	0.0	0.01	0.00	0.0	0.0	0.56	0.15	0.02	
31	0.00	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.03	0.03	0.01	0.01	31	0.00	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.03	0.03	0.01	
TOTAL	2.35	0.57	2.46	0.76	0.87	2.60	0.26	0.59	1.30	1.04	1.97	1.65	TOTAL	2.35	0.57	2.46	0.76	0.87	2.60	0.26	0.59	1.30	1.04	1.97	1.65
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.

1971 DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO RACKS 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	0.0	0.0	0.00	0.0	0.00	0.13	0.00	0.0	0.00	0.01	0.12	0.0	1	0.0	0.0	0.00	0.0	0.00	0.13	0.00	0.0	0.00	0.01	0.12	0.0
2	0.00	0.00	0.00	0.0	0.0	0.40	0.00	0.03	0.01	0.0	0.0	0.03	2	0.00	0.00	0.00	0.0	0.40	0.00	0.03	0.01	0.0	0.0	0.03	
3	0.0	0.0	0.02	0.0	0.26	0.01	0.00	0.02	0.02	0.0	0.00	0.07	3	0.0	0.0	0.02	0.0	0.26	0.01	0.00	0.02	0.02	0.0	0.00	
4	0.0	0.06	0.03	0.0	0.01	0.13	0.00	0.00	0.0	0.0	0.03	0.11	4	0.0	0.06	0.03	0.0	0.01	0.13	0.00	0.00	0.0	0.0	0.03	
5	0.00	0.01	0.0	0.0	0.00	0.0	0.00	0.07	0.00	0.0	0.01	0.44	5	0.00	0.01	0.0	0.0	0.00	0.0	0.00	0.07	0.00	0.0	0.01	
6	0.01	0.0	0.0	0.00	0.37	0.0	0.00	0.10	0.12	0.0	0.0	0.19	6	0.01	0.0	0.0	0.00	0.37	0.0	0.00	0.10	0.12	0.0	0.0	
7	0.04	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.00	7	0.04	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.0	0.0	0.00	
8	0.52	0.00	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.0	0.17	8	0.52	0.00	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.17	
9	0.01	0.00	0.03	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.08	9	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.08	
10	0.02	0.13	0.09	0.15	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.03	10	0.02	0.13	0.09	0.15	0.0	0.10	0.01	0.0	0.0	0.0	0.03	
11	0.08	0.0	0.06	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.01	0.00	11	0.08	0.0	0.06	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.01	
12	0.07	0.0	1.06	0.01	0.00	0.01	0.0	0.01	0.0	0.01	0.28	0.11	12	0.07	0.0	1.06	0.01	0.00	0.01	0.0	0.01	0.28	0.11	0.06	
13	0.03	0.0	0.01	0.00	0.01	0.0	0.0	0.0	0.0	0.07	0.11	0.06	13	0.03	0.0	0.01	0.00	0.01	0.0	0.0	0.0	0.07	0.11	0.06	
14	0.03	0.00	0.01	0.03	0.00	0.00	0.0	0.0	0.0	0.01	0.01	0.10	14	0.03	0.00	0.01	0.03	0.00	0.00	0.0	0.0	0.01	0.01	0.10	
15	0.07	0.15	0.02	0.02	0.03	0.0	0.00	0.0	0.0	0.0	0.00	0.01	15	0.07	0.15	0.02	0.02	0.03	0.0	0.00	0.0	0.0	0.0	0.00	
16	0.09	0.0	0.30	0.18	0.06	0.00	0.00	0.0	0.00	0.39	0.0	0.0	16	0.09	0.0	0.30	0.18	0.06	0.00	0.00	0.0	0.00	0.39	0.0	
17	0.87	0.13	0.00	0.01	0.00	0.0	0.0	0.0	0.0	0.15	0.0	0.0	17	0.87	0.13	0.00	0.01	0.00	0.0	0.0	0.0	0.15	0.0	0.0	
18	0.28	0.13	0.0	0.06	0.00	0.00	0.0	0.0	0.0	0.01	0.09	0.00	18	0.28	0.13	0.0	0.06	0.00	0.00	0.0	0.0	0.01	0.09	0.00	
19	0.04	0.05	0.00	0.00	0.01	0.0	0.11	0.00	0.0	0.17	0.00	0.00	19	0.04	0.05	0.00	0.00	0.01	0.0	0.11	0.00	0.0	0.17	0.00	
20	0.08	0.00	0.01	0.20	0.00	0.0	0.04	0.00	0.01	0.02	0.00	0.0	20	0.08	0.00	0.01	0.20	0.00	0.0	0.04	0.00	0.01	0.02	0.00	
21	0.00	0.00	0.0	0.03	0.00	0.0	0.03	0.0	0.0	0.00	0.0	0.0	21	0.00	0.00	0.0	0.03	0.00	0.0						

1971		MEAN DAILY DISCHARGE (cfs)										SEYMOUR, IDAHO BACKS CREEK WATERSHED (046088)														
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	0.76	6.94	2.34	12.69	3.07	0.90	0.44	0.09	0.05	0.05	0.37	1.19	2	0.49	6.21	2.12	11.57	2.80	1.11	0.39	0.10	0.06	0.05	0.31	1.34	
3	0.81	6.75	2.24	10.87	2.19	0.38	0.07	0.06	0.06	0.05	0.31	1.24	4	0.30	5.13	2.03	9.72	3.20	1.68	0.33	0.06	0.06	0.04	0.40	1.34	
5	0.23	4.16	1.85	8.80	2.61	1.34	0.31	0.06	0.06	0.04	0.36	5.85	6	0.33	3.69	1.94	8.10	3.12	1.09	0.28	0.07	0.06	0.04	0.27	15.22	
7	0.52	3.84	1.85	9.24	2.94	1.06	0.28	0.07	0.05	0.04	0.36	2.16	8	5.84	3.67	1.86	8.03	2.54	0.94	0.27	0.06	0.04	0.05	0.42	2.17	
9	16.87	3.47	1.88	7.48	2.24	0.84	0.24	0.05	0.04	0.05	0.47	3.02	10	8.72	5.49	2.23	8.22	1.97	0.81	0.25	0.05	0.05	0.05	0.50	2.52	
11	3.77	4.03	3.79	7.24	1.66	0.84	0.27	0.05	0.05	0.05	0.06	5.54	12	2.23	3.84	13.12	6.04	1.14	0.69	0.25	0.05	0.05	0.09	0.85	2.09	
13	1.81	3.82	10.30	5.62	1.01	0.73	0.24	0.06	0.05	0.05	0.12	0.97	14	2.05	3.84	6.02	5.50	0.96	0.62	0.20	0.07	0.05	0.13	0.90	1.52	
15	4.55	4.32	5.42	5.49	0.81	0.55	0.20	0.08	0.05	0.05	0.18	0.83	16	11.89	3.73	4.63	5.28	0.95	0.34	0.17	0.06	0.06	0.17	0.60	1.59	
17	84.68	3.84	5.22	5.67	0.89	0.54	0.17	0.05	0.06	0.27	0.53	1.57	18	123.47	3.72	4.61	5.99	0.90	0.55	0.17	0.05	0.05	0.30	0.65	1.47	
19	45.49	3.85	4.62	5.02	0.93	0.49	0.21	0.06	0.05	0.05	0.30	0.60	1.39	20	28.86	3.73	7.09	5.15	0.69	0.46	0.21	0.05	0.04	0.34	0.64	1.38
21	16.77	3.47	11.00	5.31	0.82	0.46	0.16	0.06	0.04	0.04	0.28	0.64	1.39	22	10.75	3.13	21.16	4.79	0.37	0.40	0.16	0.06	0.04	0.25	0.63	2.14
23	10.42	3.00	55.12	5.16	0.31	0.34	0.15	0.07	0.03	0.25	0.60	3.22	24	9.10	2.86	33.82	4.97	0.29	0.33	0.14	0.06	0.02	0.26	0.69	1.99	
25	8.64	2.75	21.52	4.79	0.30	0.33	0.14	0.04	0.02	0.25	0.71	1.99	26	11.78	2.61	32.13	4.85	0.36	0.87	0.14	0.04	0.03	0.28	3.09	1.57	
27	9.18	2.54	23.82	4.52	0.48	0.93	0.12	0.05	0.05	0.29	4.32	1.21	28	7.67	2.50	20.98	3.96	0.53	1.22	0.11	0.05	0.05	0.16	2.01	1.59	
29	6.78	19.22	3.64	0.60	0.71	0.09	0.06	0.03	0.16	1.87	1.53	30	6.71	15.60	3.39	0.72	0.49	0.10	0.07	0.03	0.25	1.63	1.49	1.51		
31	7.29	14.50	0.78	0.78	0.78	0.09	0.06	0.03	0.33	1.51			MEAN	14.436	3.890	11.420	6.569	1.371	0.768	0.214	0.060	0.046	0.165	0.903	2.365	
													INCHES	1.358	0.330	1.074	0.598	0.129	0.070	0.020	0.006	0.016	0.082	0.222	0.222	
													STA AV	0.665	0.218	0.404	0.338	0.121	0.061	0.011	0.003	0.002	0.008	0.022	0.076	

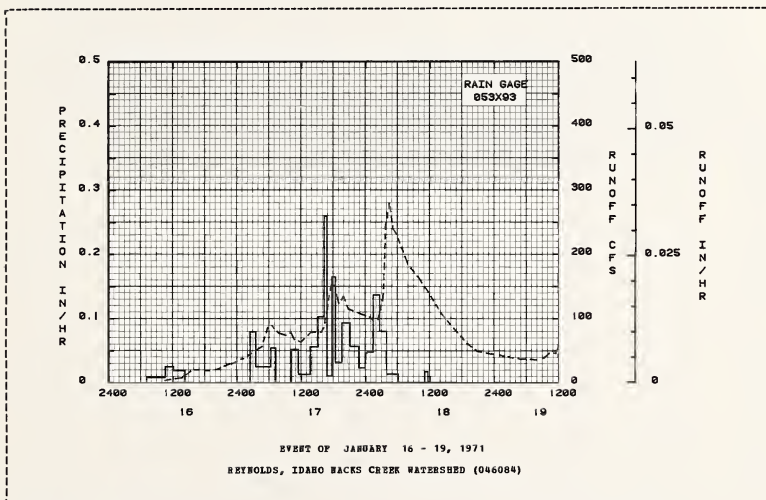
NOTES: To convert CFS to IZ/DAY, multiply by 0.003034. STA AV amounts based on 1963-71 record period.

1971		SELECTED RUNOFF EVENT										SEYMOUR, IDAHO BACKS CREEK WATERSHED (046088)												
PRECEDENT CONDITIONS		Runoff		Date		TIME		RAINFALL		Intensity		Acc.		Date		TIME		RUNOFF		Intensity		Acc.		
So-Day	(inches)	So-Day	(inches)	So-Day	of Day	of Day	of Day	of Day	(in/hr)	(inches)	(inches)	So-Day	of Day	of Day	of Day	of Day	(cfs)	(cfs)	(inches)	(inches)	(inches)	(inches)		
EVENT OF JARDAST 16 - 19, 1971																								
RG 053X93																								
1-16	0.0	0.005	1-16	86 053X93	706	0.0	0.0	1-16	1026	3.727	0.0													
					1032	0.0087	0.03		1134	5.757	0.0007													
					1207	0.0253	0.07		1344	8.230	0.0026													
					1412	0.0192	0.11		1518	18.063	0.0052													
					1-17	227	0.0	0.11	1604	20.081	0.0070													
WATERSHED CONDITIONS:																								
					327	0.0800	0.19		1654	20.081	0.0091													
					617	0.0247	0.26		1846	18.390	0.0136													
					712	0.0545	0.31		2002	20.081	0.0167													
					1007	0.0	0.31		2238	29.651	0.0249													
					1127	0.0525	0.38		2258	29.651	0.0261													
					1342	0.0133	0.41		2400	33.904	0.0303													
					1507	0.0565	0.49		44	37.479	0.0336													
					1617	0.1028	0.61		112	38.009	0.0358													
					1647	0.2600	0.74		440	57.036	0.0566													
					1743	0.0107	0.75		542	86.053	0.0659													
					1823	0.1650	0.86		620	90.729	0.0730													
					1938	0.0320	0.90		740	78.047	0.0872													
					2108	0.0933	1.04		808	73.821	0.1013													
					2243	0.0568	1.13		1000	78.911	0.1097													
					2400	0.0234	1.16		1042	67.382	0.1162													
					1-18	13	0.0462	1.17	1154	63.555	0.1261													
					128	0.0880	1.23		1346	78.911	0.1429													
					238	0.1371	1.39		1544	78.911	0.1625													
					353	0.0800	1.49		1612	86.053	0.1674													
					608	0.0133	1.52		1650	114.425	0.1754													
					1103	0.0	1.52		1728	148.435	0.1859													
					1138	0.0171	1.53		1754	159.259	0.1943													
									1900	123.545	0.2140													
									1952	134.369	0.2281													
									2048	114.425	0.2428													

NOTES: To convert CFS to IZ/EE, multiply by .00012640.

1971 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO BACKS CREEK WATERSHED (046084)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JANUARY 16 - 19, 1971 (CONTINUED)										
			1-17				2400		104.715	0.2871
			1-18				42		102.635	0.2963
							128		96.360	0.3060
							220		98.557	0.3167
							316		131.911	0.3303
							332		179.445	0.3355
							342		242.671	0.3399
							430		281.225	0.3664
							504		240.882	0.3851
							544		231.834	0.4050
							756		183.981	0.4628
							1000		162.045	0.5080
							1164		140.687	0.5412
							1406		107.889	0.5768
							1634		83.326	0.6082
							1902		60.599	0.6306
							2046		49.059	0.6426
							2400		44.177	0.6617
							456		36.953	0.6670
			1-19				758		35.917	0.7010
							926		39.630	0.7080
							1016		46.575	0.7125
							1128		46.575	0.7196
							1300		55.650	0.7295
							1606		55.650	0.7313
							2400		41.297	0.7997

NOTES: To convert CFS to I/R/RB, multiply by .00012640.



REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Rampa; 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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P	5.85	2.37	5.33	1.91	1.61	3.26	1.00	0.59	2.95	2.44	4.18	4.58	36.06														
	Q	1.592	0.819	1.736	2.763	4.955	1.736	0.362	0.072	0.074	0.160	0.204	0.279	14.752														
STA	AV	P	6.56	2.23	2.53	1.99	1.34	2.33	0.56	1.40	1.18	2.10	3.83	4.14	30.19													
	Q	0.949	0.569	0.818	1.643	3.493	1.553	0.244	0.082	0.032	0.082	0.175	0.223	9.623														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (Inches) FOR SELECTED TIME INTERVALS																
1971	Maximum Discharge			Maximum Volume for Selected Time Interval												
	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.				
1971	1-18	0.014	1-18	0.014	1-18	0.029	1-18	0.083	1-18	0.152	1-18	0.276	1-18	0.507	5-4	1.856
	1-21	0.030	1-21	0.029	1-21	0.057	1-21	0.157	1-21	0.283	1-20	0.454	1-20	0.612	5-4	1.856
	1969		1969		1969		1969		1969		1969		1969			

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 predominantly 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. Records began: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average 'Computed actual' amounts from 16 rain gages. Station average precipitation amounts are based on 1968-71 record period. Station average runoff amounts are based on 1967-71 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.W. of watershed.

Course#	SLOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)											
	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
184062	011371	9.40	021071	14.00	022471	15.10	031071	14.50	032371	17.10	040771	11.90
155054	010871	7.55	011371	8.70	012771	10.50	022471	12.20	031071	13.75	032271	13.70
155054	040671	10.10										
163020	021071	12.80	022471	26.60	031071	28.80	032371	32.90	040771	38.60	042171	34.70
163020	050571	30.10	051171	26.80	051971	21.20						
163098	012771	25.10	021071	20.90	022471	28.80	031071	29.20	032371	33.10	040771	35.60
163098	042171	34.20	050571	30.10	051171	23.90	051971	17.20				
167007	011371	9.30	012771	8.00	021071	7.60	032271	10.80				
174026	021071	23.20	022471	28.70	031071	28.90	032371	32.50	040671	9.60	042171	35.90
174026	050571	31.00	051171	18.60	051971	15.00						

NOTES: For slow course location information, see map on p. 68-001-6 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330.

1971 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	0.00	0.0	0.00	0.00	0.00	0.21	0.01	0.01	0.00	0.33	0.26	0.00	1	0.00	0.01	0.00	0.0	0.24	0.00	0.03	0.00	0.0	0.00	0.07	
2	0.0	0.01	0.00	0.0	0.01	0.19	0.08	0.0	0.01	0.01	0.00	0.14	2	0.0	0.00	0.15	0.00	0.19	0.08	0.0	0.01	0.01	0.0	0.00	0.14
3	0.0	0.00	0.15	0.00	0.00	0.01	0.21	0.01	0.00	0.00	0.0	0.01	0.16	0.0	0.31	0.15	0.00	0.01	0.21	0.01	0.00	0.00	0.0	0.01	0.16
4	0.0	0.0	0.00	0.00	0.00	0.00	0.02	0.00	0.13	0.00	0.0	0.00	17	0.03	0.0	0.00	0.00	0.00	0.02	0.00	0.13	0.00	0.0	0.00	0.75
5	0.03	0.0	0.00	0.02	0.02	0.47	0.0	0.0	0.30	0.34	0.0	0.00	6	0.02	0.00	0.02	0.02	0.47	0.0	0.0	0.30	0.34	0.0	0.00	0.43
6	0.02	0.00	0.02	0.02	0.23	0.01	0.02	0.0	0.01	0.0	0.0	0.0	7	0.04	0.00	0.02	0.23	0.01	0.02	0.0	0.01	0.0	0.0	0.0	0.02
7	0.04	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	8	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.16
8	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	9	0.13	0.02	0.06	0.01	0.00	0.04	0.0	0.00	0.00	0.0	0.0	0.19
9	0.13	0.02	0.06	0.01	0.00	0.04	0.0	0.00	0.00	0.00	0.0	0.00	10	0.07	0.28	0.19	0.39	0.0	0.23	0.00	0.0	0.0	0.0	0.00	0.13
10	0.07	0.28	0.19	0.39	0.0	0.23	0.00	0.00	0.00	0.00	0.0	0.00	11	0.25	0.00	0.23	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.04
11	0.25	0.00	0.23	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	12	0.10	0.0	1.11	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.34	0.37
12	0.10	0.0	1.11	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.0	0.00	13	0.17	0.0	0.02	0.03	0.00	0.0	0.0	0.0	0.13	0.0	0.28	0.29
13	0.17	0.0	0.02	0.03	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	14	0.28	0.00	0.09	0.01	0.01	0.0	0.00	0.0	0.0	0.07	0.00	0.22
14	0.28	0.00	0.09	0.01	0.01	0.0	0.0	0.00	0.0	0.0	0.00	0.00	15	0.64	0.21	0.15	0.02	0.12	0.0	0.00	0.0	0.0	0.00	0.00	0.16
15	0.64	0.21	0.15	0.02	0.12	0.0	0.0	0.00	0.0	0.0	0.00	0.00	16	0.41	0.03	0.75	0.10	0.27	0.0	0.0	0.0	0.00	0.60	0.0	0.02
16	0.41	0.03	0.75	0.10	0.27	0.0	0.0	0.0	0.0	0.00	0.60	0.0	17	1.49	0.17	0.01	0.03	0.00	0.0	0.00	0.0	0.24	0.00	0.00	0.00
17	1.49	0.17	0.01	0.03	0.00	0.0	0.00	0.0	0.00	0.0	0.24	0.00	18	0.67	0.54	0.0	0.06	0.00	0.00	0.01	0.0	0.0	0.00	0.11	0.0
18	0.67	0.54	0.0	0.06	0.00	0.00	0.00	0.01	0.0	0.0	0.00	0.11	19	0.03	0.13	0.0	0.00	0.00	0.00	0.60	0.0	0.13	0.00	0.00	0.00
19	0.03	0.13	0.0	0.00	0.00	0.00	0.60	0.0	0.0	0.13	0.00	0.00	20	0.07	0.00	0.0	0.28	0.01	0.00	0.00	0.0	0.02	0.13	0.00	0.0
20	0.07	0.00	0.0	0.28	0.01	0.00	0.00	0.00	0.0	0.02	0.13	0.00	21	0.03	0.00	0.05	0.09	0.04	0.00	0.01	0.0	0.0	0.02	0.00	0.00
21	0.03	0.00	0.05	0.09	0.04	0.00	0.01	0.0	0.0	0.0	0.02	0.00	22	0.25	0.00	0.46	0.02	0.01	0.0	0.34	0.0	0.0	0.0	0.00	0.44
22	0.25	0.00	0.46	0.02	0.01	0.0	0.0	0.34	0.0	0.0	0.0	0.00	23	0.18	0.0	0.73	0.24	0.00	0.00	0.02	0.0	0.0	0.00	0.01	0.05
23	0.18	0.0	0.73	0.24	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.01	24	0.60	0.29	0.04	0.18	0.00	0.0	0.00	0.0	0.00	0.00	0.18	0.02
24	0.60	0.29	0.04	0.18	0.00	0.0	0.00	0.0	0.00	0.00	0.00	0.18	25	0.26	0.07	0.52	0.18	0.00	0.91	0.0	0.0	0.04	0.00	0.15	0.69
25	0.26	0.07	0.52	0.18	0.00	0.91	0.0	0.0	0.0	0.04	0.00	0.15	26	0.03	0.00	0.40	0.02	0.02	0.95	0.00	0.0	0.08	0.25	1.42	0.01
26	0.03	0.00	0.40	0.02	0.02	0.95	0.00	0.0	0.08	0.25	1.42	0.01	27	0.00	0.13	0.01	0.00	0.00	0.15	0.00	0.0	0.09	0.12	0.09	0.00
27	0.00	0.13	0.01	0.00	0.00	0.15	0.00	0.0	0.09	0.12	0.09	0.00	28	0.0	0.16	0.0	0.0	0.00	0.19	0.0	0.0	0.07	0.01	0.42	0.0
28	0.0	0.16	0.0	0.0	0.00	0.19	0.0	0.0	0.07	0.01	0.42	0.0	29	0.00	0.00	0.00	0.0	0.11	0.0	0.0	0.10	0.87	0.00	0.49	0.19
29	0.00	0.00	0.00	0.0	0.11	0.0	0.0	0.10	0.87	0.00	0.49	0.19	30	0.00	0.14	0.0	0.01	0.00	0.00	0.0	1.43	0.36	0.05	0.02	0.05
30	0.00	0.14	0.0	0.01	0.00	0.00	0.00	0.0	1.43	0.36	0.05	0.02	31	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
31	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	TOTAL	6.45	2.37	5.33	1.91	1.61	3.26	1.00	0.59	2.48	2.95	4.18	4.58
													STA AV	6.56	2.23	2.53	1.99	1.34	2.33	0.56	1.40	1.18	2.10	3.83	4.14

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. E. Hanson, "Computing Actual Precipitation", Proceedings of WHO-IMB Symposium, Oslo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (R/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on a 7 yr (1964-71) record period. For temperature information, see table of daily average and minimum values included for Watersheds 68.004 and 68.014.

1971 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	0.00	0.0	0.00	0.00	0.00	0.00	0.19	0.01	0.01	0.00	0.18	0.11	0.00	1	0.00	0.0	0.00	0.00	0.00	0.19	0.01	0.01	0.00	0.18	0.11	0.00
2	0.0	0.01	0.00	0.0	0.00	0.22	0.00	0.03	0.00	0.0	0.00	0.04	2	0.0	0.01	0.00	0.0	0.00	0.22	0.00	0.03	0.00	0.0	0.00	0.04	
3	0.0	0.00	0.07	0.00	0.14	0.07	0.0	0.01	0.01	0.0	0.00	0.07	3	0.0	0.00	0.07	0.00	0.14	0.07	0.0	0.01	0.01	0.0	0.00	0.07	
4	0.0	0.16	0.06	0.00	0.00	0.19	0.01	0.00	0.00	0.0	0.01	0.09	4	0.0	0.16	0.06	0.00	0.00	0.19	0.01	0.00	0.00	0.0	0.01	0.09	
5	0.02	0.0	0.00	0.00	0.00	0.02	0.00	0.11	0.00	0.0	0.00	0.43	5	0.02	0.0	0.00	0.00	0.00	0.02	0.00	0.11	0.00	0.0	0.00	0.43	
6	0.01	0.00	0.01	0.01	0.40	0.0	0.0	0.26	0.30	0.0	0.00	0.26	6	0.01	0.00	0.01	0.01	0.40	0.0	0.0	0.26	0.30	0.0	0.00	0.26	
7	0.03	0.00	0.01	0.12	0.01	0.02	0.0	0.01	0.0	0.0	0.0	0.01	7	0.03	0.00	0.01	0.12	0.01	0.02	0.0	0.01	0.0	0.0	0.0	0.01	
8	0.50	0.0	0.00	0.0	0.18	0.00	0.0	0.0	0.0	0.0	0.0	0.08	8	0.50	0.0	0.00	0.0	0.18	0.00	0.00	0.0	0.0	0.0	0.0	0.08	
9	0.11	0.02	0.03	0.01	0.00	0.03	0.0	0.00	0.0	0.00	0.00	0.09	9	0.11	0.02	0.03	0.01	0.00	0.03	0.0	0.00	0.00	0.0	0.00	0.09	
10	0.05	0.19	0.10	0.21	0.0	0.18	0.00	0.0	0.0	0.0	0.00	0.06	10	0.05	0.19	0.10	0.21	0.0	0.18	0.00	0.00	0.0	0.0	0.00	0.06	
11	0.17	0.00	0.15	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	11	0.17	0.00	0.15	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.01	
12	0.07	0.0	0.68	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.0	0.16	12	0.07	0.0	0.68	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.00	0.16	
13	0.11	0.01	0.01	0.00	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.06	13	0.11	0.01	0.01	0.00	0.02	0.00	0.00	0.0	0.0	0.0	0.0	0.06	
14	0.19	0.00	0.05	0.00	0.00	0.0	0.00	0.0	0.0	0.0	0.04	0.00	14	0.19	0.00	0.05	0.00	0.00	0.00	0.00	0.0	0.0	0.04	0.00	0.00	
15	0.39	0.08	0.08	0.01	0.08	0.0	0.00	0.0	0.00	0.0	0.00	0.07	15	0.39	0.08	0.08	0.01	0.08	0.00	0.00	0.00	0.0	0.00	0.00	0.07	
16	0.23	0.01	0.41	0.05	0.17	0.0	0.0	0.0	0.00	0.45	0.0	0.00	16	0.23	0.01	0.41	0.05	0.17	0.00	0.0	0.0	0.00	0.45	0.00	0.00	
17	0.95	0.07	0.01	0.01	0.00	0.0	0.00	0.0	0.0	0.17	0.00	0.00	17	0.95	0.07	0.01	0.01	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	
18	0.43	0.26	0.0	0.0	0.00	0.13	0.00	0.01	0.00	0.0	0.08	0.00	18	0.43	0.26	0.0	0.0	0.00	0.13	0.00	0.01	0.00	0.08	0.00	0.00	
19	0.02	0.06	0.0	0.00	0.00	0.0	0.56	0.0	0.08	0.00	0.00	0.0	19	0.02	0.06	0.0	0.00	0.00	0.00							

1971 DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.0	0.00	0.00	0.00	0.20	0.01	0.01	0.00	0.25	0.18	0.00
2	0.0	0.01	0.00	0.18	0.11	0.24	0.00	0.03	0.00	0.00	0.00	0.05
3	0.0	0.00	0.11	0.00	0.17	0.07	0.0	0.01	0.01	0.00	0.00	0.10
4	0.0	0.22	0.10	0.00	0.00	0.20	0.01	0.00	0.00	0.0	0.01	0.13
5	0.03	0.0	0.00	0.00	0.00	0.02	0.00	0.12	0.00	0.0	0.00	0.58
6	0.01	0.00	0.02	0.01	0.44	0.0	0.0	0.28	0.32	0.0	0.00	0.34
7	0.13	0.00	0.01	0.08	0.11	0.02	0.0	0.01	0.0	0.0	0.0	0.02
8	0.58	0.0	0.00	0.0	0.19	0.00	0.0	0.0	0.0	0.0	0.0	0.0
9	0.12	0.02	0.05	0.01	0.00	0.04	0.0	0.00	0.0	0.0	0.00	0.14
10	0.07	0.24	0.14	0.29	0.0	0.21	0.00	0.0	0.0	0.0	0.00	0.09
11	0.20	0.00	0.19	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.02
12	0.08	0.0	0.88	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.27	0.25
13	0.15	0.0	0.01	0.00	0.13	0.00	0.0	0.00	0.0	0.29	0.29	0.11
14	0.23	0.00	0.67	0.01	0.00	0.0	0.00	0.0	0.0	0.06	0.00	0.15
15	0.50	0.13	0.11	0.01	0.10	0.0	0.00	0.0	0.0	0.00	0.00	0.11
16	0.31	0.01	0.56	0.07	0.22	0.0	0.0	0.0	0.00	0.53	0.0	0.01
17	1.20	0.11	0.01	0.02	0.00	0.0	0.00	0.0	0.0	0.20	0.00	0.00
18	0.54	0.39	0.0	0.05	0.00	0.00	0.01	0.0	0.0	0.00	0.10	0.0
19	0.02	0.09	0.0	0.00	0.00	0.00	0.58	0.0	0.0	0.10	0.00	0.00
20	0.06	0.00	0.0	0.21	0.01	0.00	0.00	0.0	0.02	0.09	0.00	0.0
21	0.03	0.00	0.04	0.07	0.03	0.00	0.01	0.0	0.0	0.01	0.00	0.00
22	0.21	0.00	0.41	0.01	0.01	0.0	0.33	0.0	0.0	0.0	0.00	0.36
23	0.16	0.0	0.66	0.18	0.00	0.00	0.02	0.0	0.0	0.00	0.01	0.04
24	0.00	0.22	0.04	0.14	0.00	0.0	0.00	0.0	0.0	0.00	0.12	0.01
25	0.23	0.05	0.48	0.14	0.00	0.88	0.0	0.0	0.03	0.00	0.13	0.53
26	0.02	0.00	0.35	0.01	0.02	0.91	0.00	0.0	0.07	0.19	1.64	0.01
27	0.00	0.09	0.01	0.00	0.00	0.15	0.00	0.0	0.07	0.09	0.08	0.00
28	0.0	0.11	0.0	0.0	0.00	0.18	0.0	0.0	0.06	0.01	0.34	0.0
29	0.00	0.00	0.00	0.0	0.10	0.0	0.0	0.09	0.68	0.00	0.40	0.14
30	0.00	0.00	0.10	0.00	0.00	0.00	0.0	0.0	1.02	0.25	0.04	0.01
31	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00	0.63	0.00	0.00
TOTAL	4.80	1.71	4.38	1.44	1.42	3.13	0.97	0.56	2.29	1.92	3.56	3.43
STA AV												

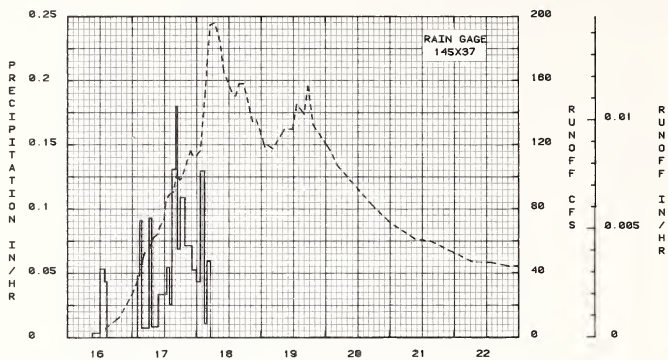
NOTES: Values are thimless weighted average amounts from 16 shielded recording gages. STA AV do not apply to shielded rain gage records.

1971 RAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.85	26.06	10.13	43.56	75.26	53.30	15.97	2.05	0.96	3.47	2.69	3.95
2	3.61	22.82	9.07	49.04	90.71	52.54	14.33	2.05	1.04	3.49	2.65	4.47
3	3.38	18.75	8.83	42.97	105.13	46.95	12.91	1.97	1.27	3.51	2.58	4.23
4	3.34	18.24	8.37	48.58	128.12	45.79	11.67	1.87	1.13	3.33	2.83	3.85
5	3.27	16.18	8.08	46.88	131.55	42.08	10.82	1.97	1.11	3.86	2.61	6.61
6	3.20	14.96	7.93	53.04	135.18	39.87	10.27	2.63	1.20	3.80	2.10	19.08
7	3.16	14.47	8.15	62.99	138.85	40.12	9.49	2.01	1.78	3.27	2.56	8.53
8	3.69	13.87	8.48	56.13	135.66	39.98	8.67	1.97	1.39	2.87	2.59	7.51
9	9.89	13.22	8.63	58.40	131.93	39.72	7.88	1.68	1.12	2.56	2.46	6.24
10	7.89	27.98	9.25	57.71	127.98	42.83	7.49	1.44	0.97	2.49	2.61	5.62
11	6.12	21.00	13.25	51.41	130.00	40.10	7.38	1.36	0.81	2.38	2.73	4.45
12	5.42	18.90	29.93	46.93	128.41	36.97	7.06	1.27	0.90	2.27	3.25	4.15
13	5.42	20.47	24.17	48.57	120.06	35.17	6.48	1.11	0.88	2.20	3.17	4.19
14	5.53	19.79	18.15	52.14	105.48	33.66	5.96	1.09	0.91	2.46	2.95	4.23
15	4.77	19.98	14.04	58.86	100.94	31.64	5.43	1.09	0.99	3.02	2.76	4.10
16	8.67	17.34	13.64	59.40	94.52	29.89	5.02	0.96	1.08	2.57	2.44	3.93
17	76.43	16.46	13.64	57.97	79.49	28.83	4.81	1.10	1.13	3.02	2.47	3.85
18	155.69	15.46	13.76	51.86	69.75	27.04	5.18	1.05	1.19	2.89	2.49	3.85
19	130.51	15.48	13.70	51.94	63.75	25.26	6.40	0.97	1.27	3.35	2.63	3.81
20	93.31	13.51	13.65	55.67	58.95	23.86	5.51	0.86	1.31	3.47	2.66	3.69
21	61.16	13.53	15.69	54.31	54.40	20.92	4.29	0.83	1.60	3.35	2.65	3.61
22	46.78	13.29	27.99	52.16	51.48	19.49	4.03	0.85	1.59	3.22	2.70	4.49
23	39.99	12.88	88.42	53.13	53.58	18.43	4.52	1.03	1.55	3.24	2.61	5.16
24	34.43	11.94	70.93	49.43	54.23	17.24	3.66	1.09	1.38	2.99	2.86	4.75
25	28.71	11.95	61.23	48.71	56.32	23.34	3.22	1.03	1.51	2.65	2.90	4.33
26	20.65	11.85	133.63	45.93	63.99	36.66	3.03	0.91	1.82	3.04	16.77	4.24
27	25.88	11.56	76.76	44.88	68.03	26.58	2.83	0.78	1.97	2.78	14.31	4.43
28	23.73	11.00	62.51	46.60	65.15	26.11	2.56	0.81	2.02	2.08	6.71	4.50
29	22.02	68.76	53.45	64.32	20.45	2.32	0.87	2.73	1.91	5.66	4.27	4.27
30	23.87	68.78	61.02	60.92	17.09	2.32	1.18	3.25	2.29	4.91	5.66	3.89
31	27.86	50.91		56.37		2.23	0.98		2.51			3.81
REAM	29.023	16.534	31.653	52.054	90.337	32.703	6.605	1.318	1.402	2.915	3.844	5.091
1 INCHES	1.592	0.819	1.736	2.763	4.955	1.736	0.362	0.072	0.160	0.204	0.279	0.279
STA AV	0.949	0.569	0.818	1.643	3.493	1.553	0.244	0.042	0.032	0.082	0.175	0.223

NOTES: To convert CFS to IS/DAT, multiply by 0.001769. STA AV amounts based on 1967-71 record period.

1971 SELECTED SNOWOFF EVENT			SEYMOUR, IDAHO TOLLGATE WATERSHED (116083)								
PRECEDENT CONDITIONS			RAINFALL			SNOWOFF					
Date Mo-Day	Rainfall (Inches)	Snowoff (Inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (Inches)	Date Mo-Day	Time of Day	Rate (in/hr)	Acc. (Inches)	
EVENT OF JANUARY 16 - 23, 1971											
1-16	RG 145X37 0.04	0.005	1-16	RG 145X37	915	0.0	0.0	1-16	1406	5.642	0.0
					1204	0.0036	0.01		1656	9.453	0.0016
					1345	0.0535	0.10		1924	12.979	0.0036
					1440	0.0436	0.14		2202	20.592	0.0065
			1-17		201	0.0	0.14		2400	26.919	0.0104
WATERSHED CONDITIONS:											
Snowoff event was caused by a											
sustained winter rain fol-											
lowing about 10 days of inter-											
mittent rain and snowmelt.											
					251	0.0480	0.18	1-17	140	33.848	0.0141
					337	0.0913	0.25		356	48.194	0.0210
					620	0.0074	0.27		448	53.113	0.0242
					718	0.0931	0.36		620	55.040	0.0303
					941	0.0084	0.38		746	61.600	0.0365
					1258	0.0335	0.49		932	64.652	0.0447
					1404	0.0545	0.55		1008	68.339	0.0476
					1451	0.0255	0.57		1156	73.731	0.0570
					1627	0.1312	0.78		1236	84.485	0.0609
					1657	0.1800	0.87		1336	88.885	0.0673
					1758	0.0689	0.94		1524	90.686	0.0792
					1937	0.1091	1.12		1652	102.958	0.0897
					2217	0.0712	1.31		1738	98.136	0.0954
					2400	0.0524	1.40		1824	99.095	0.1010
			1-18		123	0.0434	1.46		2010	108.009	0.1145
					300	0.1299	1.67		2144	116.367	0.1275
					356	0.0107	1.68		2242	113.184	0.1357
					517	0.0593	1.76		2400	113.184	0.1465
								1-18	126	116.367	0.1586
									318	154.108	0.1772
									354	170.131	0.1844
									504	194.675	0.2001
									638	196.188	0.2227
									844	184.301	0.2521
									1012	164.672	0.2710
									1306	152.821	0.3089
									1428	150.267	0.3202
									1552	158.016	0.3361
									1728	158.016	0.3547
									2048	134.356	0.3906
									2212	135.538	0.4045
									2400	126.273	0.4219
								1-19	126	118.522	0.4348
									226	119.610	0.4436
									424	117.441	0.4608
									840	129.696	0.4997
									1140	129.696	0.5284
									1316	145.244	0.5446
									1602	139.125	0.5736
									1732	156.706	0.5900
									1932	132.012	0.6113
									2400	120.703	0.6529
								1-20	148	116.367	0.6686
									424	106.993	0.6900
									1702	82.767	0.7784
									2400	71.387	0.8180
								1-21	926	61.101	0.8641
									1524	59.717	0.8997
									2400	52.481	0.9263
								1-22	638	47.014	0.9506
									1346	46.431	0.9752
									2026	44.148	0.9975
									2400	44.148	1.0091
								1-23	400	42.486	1.0219
									1140	35.288	1.0450
									1538	39.609	1.0566
									2400	35.768	1.0799

NOTES: To convert CFS to in/hr, multiply by 0.00007372.



EVENT OF JANUARY 16 - 23, 1971
REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

REYNOLDS, IDAHO RUMFEE 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 RUNOFF (inches)											REYNOLDS, IDAHO RUMFEE CREEK WATERSHED (043004)																
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1971	P	3.55	1.57	3.55	1.46	1.15	2.74	0.39	0.56	2.06	1.25	3.14	2.71	24.14													
	Q	2.839	0.997	2.432	2.480	1.119	0.287	0.072	0.002	0.002	0.094	0.293	0.842	11.458													
STA AV	P	4.42	1.59	2.04	1.75	1.36	2.81	0.26	0.94	1.03	1.76	2.62	2.33	22.92													
	Q	1.853	0.772	1.094	1.466	0.847	0.264	0.054	0.002	0.001	0.027	0.144	0.372	6.897													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Series														Basins Volume for Selected Time Interval													
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.												
1971	1-18	0.032	1-18	0.027	1-18	0.053	1-18	0.142	1-17	0.259	1-17	0.456	1-16	0.748	1-16	1.580											
MAXIMUMS FOR PERIOD OF RECORD																											
	1-27	0.060	1-21	0.050	1-20	0.096	1-20	0.261	1-20	0.445	1-20	0.720	1-20	1.050	1-19	1.734											
	1970	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969												

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. Records started: Precipitation - 1961; Runoff - 1967. Precipitation: Thiessen weighted average ("Computed Actual" amounts from 3 rain gauges). Station average precipitation amounts based on 1968-71 record period. Station average runoff amounts based on 1967-71 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1971 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO RUMFEE CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.0	0.16	0.00	0.0	0.0	0.01	0.22	0.0													
2	0.0	0.01	0.00	0.0	0.0	0.44	0.0	0.00	0.0	0.0	0.0	0.05													
3	0.0	0.0	0.04	0.0	0.20	0.02	0.00	0.00	0.03	0.0	0.01	0.15													
4	0.0	0.05	0.09	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.09													
5	0.0	0.03	0.0	0.0	0.0	0.0	0.01	0.06	0.01	0.0	0.05	0.69													
6	0.00	0.0	0.0	0.01	0.61	0.0	0.0	0.14	0.24	0.0	0.0	0.27													
7	0.09	0.0	0.0	0.24	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.0													
8	1.01	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.19													
9	0.02	0.01	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14													
10	0.05	0.22	0.10	0.11	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.06													
11	0.17	0.0	0.09	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0													
12	0.20	0.0	1.26	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.40													
13	0.05	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.07	0.28	0.08													
14	0.07	0.0	0.02	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02													
15	0.04	0.35	0.02	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
16	0.09	0.0	0.33	0.28	0.07	0.0	0.0	0.0	0.0	0.0	0.35	0.0													
17	0.90	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0													
18	0.26	0.23	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.00													
19	0.02	0.12	0.00	0.0	0.01	0.0	0.05	0.0	0.0	0.11	0.02	0.0													
20	0.17	0.0	0.0	0.18	0.00	0.0	0.0	0.01	0.0	0.02	0.0	0.0													
21	0.0	0.0	0.0	0.02	0.00	0.0	0.03	0.0	0.0	0.0	0.0	0.0													
22	0.04	0.0	0.35	0.01	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.26													
23	0.07	0.0	0.51	0.19	0.0	0.0	0.08	0.01	0.0	0.0	0.0	0.08													
24	0.00	0.05	0.11	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.02													
25	0.22	0.02	0.33	0.01	0.01	0.69	0.0	0.0	0.0	0.0	0.05	0.36													
26	0.01	0.0	0.16	0.01	0.05	0.76	0.0	0.0	0.25	0.17	1.43	0.03													
27	0.01	0.06	0.02	0.0	0.0	0.23	0.0	0.0	0.0	0.08	0.08	0.0													
28	0.0	0.21	0.0	0.0	0.0	0.19	0.0	0.05	0.0	0.0	0.0	0.0													
29	0.01	0.0	0.01	0.02	0.00	0.0	0.32	0.49	0.0	0.26	0.06	0.0													
30	0.0	0.06	0.0	0.01	0.0	0.0	0.01	0.99	0.25	0.05	0.0	0.0													
31	0.01	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.01													
TOTAL	3.55	1.57	3.55	1.46	1.15	2.74	0.39	0.56	2.06	1.25	3.14	2.71													
STA AV	4.42	1.59	2.04	1.75	1.36	2.81	0.26	0.94	1.03	1.76	2.62	2.33													

NOTES: Values are Thiessen weighted average "Actual" amounts from 3 recording pairs of gauges (shielded and unshielded). "Actual" amounts were computed as per relationship developed by E. R. Hanson, "Computing Actual Precipitation", Proceedings of WRO-IBS Symposium, Gellie, Norway, August, 1972. The equation used is: $loss (U/A) = loss (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 8 yr (1968-71) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1971 DAILY PRECIPITATION (inches)				REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)								
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.16	0.00	0.0	0.0	0.01	0.14	0.0
2	0.0	0.01	0.00	0.0	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.03
3	0.0	0.0	0.01	0.0	0.17	0.02	0.00	0.00	0.03	0.0	0.00	0.09
4	0.0	0.05	0.03	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.02	0.06
5	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.06	0.01	0.0	0.04	0.06
6	0.00	0.0	0.0	0.01	0.57	0.0	0.0	0.14	0.24	0.0	0.0	0.17
7	0.05	0.0	0.0	0.23	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.0
8	0.04	0.0	0.0	0.02	0.03	0.01	0.0	0.0	0.0	0.0	0.11	0.0
9	0.01	0.00	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
10	0.03	0.10	0.07	0.11	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.05
11	0.08	0.0	0.06	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.00
12	0.10	0.0	0.91	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.26	0.09
13	0.02	0.0	0.0	0.01	0.01	0.0	0.0	0.18	0.06	0.0	0.14	0.06
14	0.05	0.0	0.01	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.05
15	0.03	0.16	0.01	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01
16	0.08	0.0	0.21	0.21	0.07	0.0	0.0	0.0	0.0	0.28	0.0	0.0
17	0.83	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0
18	0.23	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.01	0.04	0.00
19	0.02	0.02	0.00	0.0	0.01	0.0	0.05	0.0	0.0	0.09	0.00	0.0
20	0.15	0.0	0.0	0.14	0.00	0.0	0.0	0.01	0.0	0.01	0.0	0.0
21	0.0	0.0	0.0	0.01	0.00	0.0	0.03	0.0	0.0	0.0	0.0	0.0
22	0.04	0.0	0.28	0.00	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.26
23	0.07	0.0	0.39	0.13	0.0	0.0	0.08	0.01	0.0	0.0	0.0	0.08
24	0.00	0.01	0.08	0.02	0.0	0.0	0.0	0.0	0.0	0.08	0.01	0.0
25	0.19	0.0	0.26	0.01	0.01	0.67	0.0	0.0	0.0	0.0	1.08	0.11
26	0.01	0.0	0.10	0.01	0.05	0.75	0.0	0.0	0.20	0.12	1.26	0.02
27	0.01	0.01	0.01	0.0	0.0	0.22	0.0	0.0	0.0	0.05	0.07	0.0
28	0.0	0.04	0.0	0.0	0.0	0.18	0.0	0.0	0.03	0.0	0.10	0.0
29	0.01	0.0	0.0	0.01	0.02	0.00	0.0	0.32	0.37	0.0	0.23	0.05
30	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.01	0.65	0.18	0.04	0.0
31	0.01	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.01
TOTAL	2.58	0.53	2.54	1.16	1.07	2.69	0.39	0.56	1.52	0.96	2.47	2.04
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1971 DAILY PRECIPITATION (inches)				REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)								
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.16	0.00	0.0	0.0	0.01	0.16	0.0
2	0.0	0.01	0.00	0.0	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.03
3	0.0	0.0	0.03	0.0	0.19	0.02	0.00	0.00	0.03	0.0	0.01	0.11
4	0.05	0.05	0.07	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.03	0.06
5	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.06	0.01	0.0	0.05	0.57
6	0.00	0.0	0.0	0.01	0.60	0.0	0.0	0.14	0.24	0.0	0.0	0.23
7	0.07	0.0	0.0	0.23	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.0
8	0.77	0.0	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.15
9	0.02	0.01	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
10	0.03	0.16	0.09	0.11	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.06
11	0.13	0.0	0.08	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.00
12	0.16	0.0	1.09	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.32	0.11
13	0.03	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.07	0.18	0.08
14	0.07	0.0	0.01	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.05
15	0.04	0.25	0.01	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01
16	0.09	0.0	0.27	0.25	0.07	0.0	0.0	0.0	0.0	0.31	0.0	0.0
17	0.86	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0
18	0.25	0.10	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.01	0.06	0.00
19	0.02	0.06	0.00	0.0	0.01	0.0	0.05	0.0	0.0	0.10	0.01	0.0
20	0.16	0.0	0.0	0.16	0.00	0.0	0.0	0.01	0.0	0.01	0.0	0.0
21	0.0	0.0	0.0	0.02	0.00	0.0	0.03	0.0	0.0	0.0	0.0	0.0
22	0.04	0.0	0.32	0.00	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.26
23	0.07	0.0	0.45	0.16	0.0	0.08	0.01	0.0	0.0	0.0	0.08	0.0
24	0.00	0.03	0.10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.01
25	0.20	0.01	0.30	0.01	0.01	0.68	0.0	0.0	0.0	0.0	0.04	0.34
26	0.01	0.0	0.14	0.01	0.05	0.76	0.0	0.0	0.22	0.15	1.34	0.02
27	0.01	0.03	0.02	0.0	0.0	0.22	0.0	0.0	0.0	0.06	0.07	0.0
28	0.0	0.11	0.0	0.0	0.0	0.18	0.0	0.0	0.08	0.0	0.11	0.0
29	0.01	0.0	0.0	0.01	0.02	0.00	0.0	0.32	0.42	0.0	0.24	0.06
30	0.0	0.0	0.06	0.0	0.01	0.0	0.0	0.01	0.80	0.22	0.05	0.0
31	0.01	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.01
TOTAL	3.07	0.96	3.07	1.29	1.12	2.72	0.39	0.56	1.77	1.10	2.78	2.36
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

1971 NEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDABO HORPHT CREEK WATERSHED (043004)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.133	0.831	0.214	1.582	0.731	0.183	0.063	0.002	0.0	0.018	0.066	0.173
2	0.121	0.805	0.218	1.503	0.755	0.252	0.055	0.003	0.0	0.010	0.066	0.166
3	0.121	0.710	0.214	1.465	0.816	0.205	0.056	0.008	0.0	0.010	0.062	0.167
4	0.154	0.652	0.197	1.828	0.888	0.198	0.048	0.003	0.0	0.017	0.078	0.166
5	0.197	0.609	0.181	1.355	0.857	0.166	0.040	0.002	0.0	0.032	0.071	1.255
6	0.233	0.604	0.188	1.251	0.909	0.152	0.048	0.003	0.0	0.025	0.053	2.037
7	0.263	0.576	0.181	1.323	0.835	0.182	0.043	0.005	0.0	0.025	0.050	0.626
8	0.438	0.522	0.173	1.289	0.780	0.181	0.048	0.005	0.0	0.025	0.050	0.858
9	2.236	0.458	0.166	1.216	0.755	0.126	0.031	0.003	0.0	0.023	0.050	0.403
10	1.520	0.539	0.193	1.183	0.664	0.145	0.035	0.001	0.0	0.021	0.050	0.356
11	0.826	0.454	0.240	1.150	0.576	0.137	0.048	0.0	0.0	0.021	0.050	0.312
12	0.563	0.420	0.688	1.118	0.522	0.132	0.037	0.0	0.0	0.021	0.086	0.286
13	0.821	0.403	0.903	1.057	0.471	0.128	0.030	0.0	0.0	0.021	0.105	0.263
14	0.340	0.387	0.582	0.955	0.425	0.117	0.031	0.0	0.0	0.021	0.055	0.252
15	0.326	0.438	0.454	0.913	0.420	0.111	0.027	0.0	0.0	0.023	0.078	0.284
16	0.853	0.420	0.498	0.864	0.403	0.097	0.025	0.0	0.0	0.034	0.066	0.223
17	4.801	0.420	0.575	0.970	0.371	0.087	0.023	0.0	0.0	0.047	0.062	0.205
18	4.623	0.420	0.574	1.047	0.320	0.095	0.025	0.0	0.0	0.047	0.062	0.189
19	2.733	0.403	0.666	0.940	0.299	0.102	0.027	0.0	0.0	0.047	0.062	0.181
20	2.228	0.392	1.039	0.933	0.286	0.091	0.031	0.0	0.0	0.056	0.066	0.173
21	1.671	0.382	1.226	0.940	0.274	0.093	0.031	0.0	0.0	0.062	0.066	0.166
22	1.428	0.356	1.861	0.857	0.263	0.060	0.028	0.0	0.0	0.062	0.062	0.315
23	1.355	0.312	3.247	0.849	0.242	0.040	0.023	0.0	0.0	0.062	0.066	0.353
24	1.218	0.312	2.317	0.808	0.232	0.083	0.018	0.0	0.0	0.062	0.072	0.286
25	1.246	0.275	2.191	0.920	0.223	0.068	0.018	0.0	0.0	0.062	0.086	0.274
26	1.415	0.253	2.474	0.857	0.207	0.130	0.014	0.0	0.0	0.062	0.851	0.263
27	1.226	0.287	2.284	0.805	0.197	0.115	0.010	0.0	0.0	0.059	0.555	0.239
28	0.985	0.223	2.049	0.755	0.181	0.141	0.007	0.0	0.0	0.056	0.256	0.214
29	0.888		1.923	0.755	0.164	0.085	0.008	0.0	0.006	0.056	0.223	0.205
30	0.888		1.878	0.755	0.154	0.072	0.003	0.0	0.018	0.056	0.197	0.189
31	0.857		1.750		0.166		0.002	0.0	0.0	0.059		0.181
MEAN	1.1774	0.4578	1.0088	1.0627	0.4641	0.1230	0.0299	0.0010	0.0008	0.0388	1.253	0.3850
INCREAS	2.839	0.997	2.432	2.480	1.119	0.287	0.072	0.002	0.002	0.094	0.293	0.842
STA AV	1.853	0.772	1.094	1.466	0.847	0.264	0.054	0.002	0.001	0.027	0.144	0.372

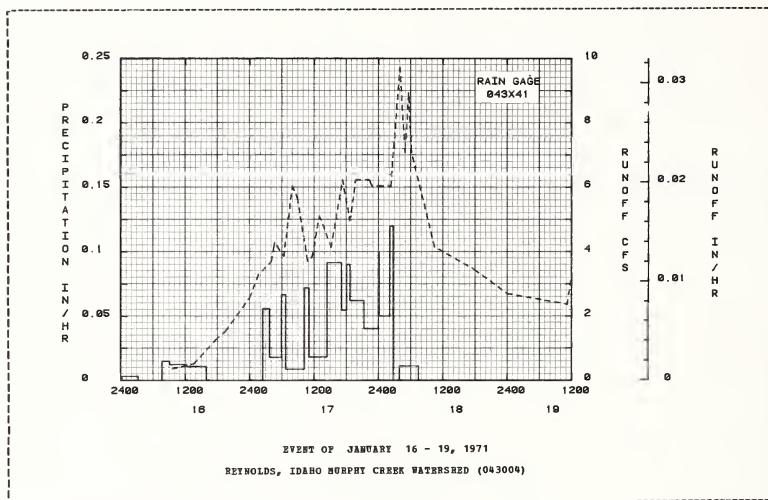
NOTES: To convert CFS to IN/DAI, multiply by 0.077783. STA AV based on 1968-71 record period.

1971 SELECTED ROROFF EVENT					REYNOLDS, IDABO HORPHT CREEK WATERSHED (043004)							
PRECIPITATION CONDITIONS					RAINFALL				ROROFF			
Date	Rainfall	Ennoff	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 JANUARY 16 - 19, 1971												
RG 043X41												
1-16	C.0	0.011	1-16	13	0.0	0.0	1-16	936	0.355	0.0		
				313	0.0033	0.01		1336	0.518	0.0057		
				782	0.0	0.01		1736	1.289	0.0172		
				902	0.0150	0.03		1930	1.542	0.0258		
				1217	0.0092	0.06		2400	2.576	0.0558		
WATERSHED CONDITIONS:												
Ennoff event was caused by a												
sustained winter rain fol-												
lowing about 10 days of inter-												
mittent rain and snowmelt.												
			1-17	1557	0.0109	0.10	1-17	140	3.297	0.0717		
				227	0.0	0.10		402	3.703	0.0985		
				382	0.056	0.17		436	4.294	0.1058		
				557	0.0178	0.21		620	3.845	0.1287		
				642	0.0533	0.25		754	6.041	0.1538		
				1012	0.0086	0.28		852	5.660	0.1721		
				1102	0.0840	0.35		1044	3.703	0.2004		
				1822	0.0150	0.40		1138	3.845	0.2114		
				1706	0.0915	0.65		1258	5.118	0.2308		
				1801	0.0836	0.69		1508	4.141	0.2633		
				1841	0.1050	0.76		1716	6.238	0.2992		
				2116	0.0581	0.91		1840	4.946	0.3246		
				2400	0.0402	1.02		1944	6.238	0.3839		
				6	0.1001	1.03		2216	6.238	0.3951		
			1-18	206	0.0500	1.13		2246	6.041	0.4050		
				286	0.1350	1.22		2800	6.041	0.4291		
				351	0.0	1.22	1-18	218	6.041	0.4791		
				726	0.0084	1.25		356	9.726	0.5158		
								456	7.069	0.5430		
								534	8.945	0.5594		
								608	7.069	0.5741		
								1024	4.141	0.6516		
								1756	3.429	0.7440		
								2400	2.688	0.8041		
							1-19	1112	2.361	0.8957		

NOTES: To convert CFS to IN/DAI, multiply by .003241

1971 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
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 JANUARY 16 - 19, 1971 (CONTINUED)										
							1-19	1336	3.297	0.9177
								2400	2.576	1.0167

NOTES: To convert CFS to I²/HR, multiply by .003241



REYNOLDS, IDAHO SORBIT WATERSHED (048077)

LOCATION: Owyhee County, Idaho; 30 miles south of Hampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO SORBIT WATERSHED (048077)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
P	1.07	0.35	2.06	0.43	0.99	2.20	0.05	0.67	1.76	0.95	1.10	1.46	13.09													
1971 Q	0.0	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	1.93	0.49	0.88	0.59	0.85	1.64	0.09	1.12	0.62	0.89	1.09	1.00	11.18													
Q	0.002	0.0	0.0	0.0	0.0	0.014	0.0	0.017	0.0	0.0	0.0	0.0	0.033													
ANNUAL MAXIMUM DISCHARGE (cfs/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																										
Maximum Volume for Selected Time Interval																										
Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days												
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.											
1971	0-0	0.0	0-0	0.0	0-0	0.0	0-0	0.0	0-0	0.0	0-0	0.0	0-0	0.0	0-0	0.0										
MAXIMUMS FOR PERIOD OF RECORD																										
	6-19	0.258	6-19	0.059	6-19	0.059	6-19	0.070	6-20	0.070	6-20	0.070	6-19	0.070	8-9	0.083										
	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	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, chestgrass, 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. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: *Computed Actual* amounts from 1 rain gage. Station average precipitation amounts are based on 1968-71 period of record. Station average runoff amounts are based on 1967-71 period of record. No runoff occurred during 1971. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1971 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SORBIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.05	0.05	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.11	0.01	0.0	0.0	0.0	0.0	0.0	0.04													
4	0.0	0.0	0.02	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.05													
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.14													
6	0.02	0.0	0.0	0.0	0.61	0.0	0.0	0.05	0.23	0.0	0.0	0.12													
7	0.02	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	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.26													
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11													
10	0.0	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07													
11	0.02	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0													
12	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.12													
13	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.09	0.11													
14	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
15	0.02	0.0	0.01	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
16	0.05	0.0	0.83	0.03	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0													
17	0.68	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0													
18	0.20	0.11	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0													
19	0.0	0.05	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02													
21	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12													
23	0.0	0.0	0.13	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
24	0.0	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0													
25	0.0	0.0	0.07	0.0	0.0	0.04	0.0	0.0	0.01	0.0	0.02	0.22													
26	0.0	0.0	0.04	0.0	0.0	0.72	0.0	0.0	0.04	0.0	0.43	0.04													
27	0.0	0.0	0.01	0.0	0.0	0.19	0.0	0.0	0.0	0.15	0.03	0.0													
28	0.0	0.02	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.04	0.0													
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.27	0.0	0.0	0.0													
30	0.0	0.13	0.0	0.0	0.0	0.0	0.0	1.21	0.19	0.12	0.02	0.0													
31	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	1.07	0.35	2.06	0.43	0.99	2.20	0.05	0.67	1.76	0.95	1.10	1.46													
STA AV	1.93	0.49	0.88	0.59	0.85	1.64	0.09	1.12	0.62	0.89	1.09	1.00													

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049161. *Actual* amounts were computed as per relationship developed by W. E. Basor, "Computing Actual Precipitation", Proceedings of WHO-IBES Symposium, Guelo, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (0/2) \times 1.80$, where 0 = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 4 yr (1968-71) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1971 DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO SUMMIT WATERSHED (048077)				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.04	0.05	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.11	0.01	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.02	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0				
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.05				
6	0.02	0.0	0.0	0.0	0.61	0.0	0.0	0.05	0.17	0.0	0.0	0.0				
7	0.02	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	0.03	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	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01				
11	0.02	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.03	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0				
13	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.0				
14	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
15	0.02	0.0	0.01	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.05	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0				
17	0.68	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0				
18	0.19	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0				
19	0.0	0.02	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02				
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	0.0	0.0	0.0	0.0	0.0	0.11				
23	0.0	0.0	0.31	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01				
24	0.0	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0				
25	0.0	0.0	0.06	0.0	0.0	0.04	0.0	0.0	0.01	0.0	0.02	0.20				
26	0.0	0.0	0.03	0.0	0.0	0.69	0.0	0.0	0.04	0.0	0.34	0.03				
27	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.04	0.02	0.0				
28	0.0	0.02	0.0	0.0	0.0	0.16	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	0.25	0.58	0.0	0.0	0.04	0.0				
30	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	1.10	0.05	0.05	0.02				
31	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	1.06	0.19	1.33	0.24	0.88	2.02	0.05	0.64	1.57	0.59	0.89	0.57				
STA AV																

NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

1971 DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO SUMMIT WATERSHED (048077)				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.05	0.05	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.11	0.02	0.0	0.0	0.0	0.0	0.0	0.03				
4	0.0	0.0	0.02	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.03				
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.11				
6	0.02	0.0	0.0	0.0	0.61	0.0	0.0	0.05	0.20	0.0	0.0	0.07				
7	0.02	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	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.11				
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05				
10	0.0	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03				
11	0.02	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.03	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.05				
13	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.05				
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01				
15	0.02	0.0	0.01	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.05	0.0	0.52	0.02	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0				
17	0.68	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0				
18	0.20	0.08	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0				
19	0.0	0.04	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02				
21	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12				
23	0.0	0.0	0.32	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01				
24	0.0	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0				
25	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.0	0.01	0.0	0.02	0.21				
26	0.0	0.0	0.04	0.0	0.0	0.70	0.0	0.0	0.04	0.0	0.39	0.03				
27	0.0	0.0	0.01	0.0	0.0	0.20	0.0	0.0	0.0	0.08	0.02	0.0				
28	0.0	0.02	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.04	0.0				
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.26	0.0	0.04	0.0				
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	1.16	0.11	0.08	0.02				
31	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	1.07	0.27	1.66	0.33	0.93	2.12	0.05	0.66	1.67	0.76	0.99	0.95				
STA AV																

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

1971		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.01	0.0	1.62	0.37	0.0
2	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.01	0.0	0.0	0.0	0.14
3	0.0	0.0	0.38	0.0	0.22	0.09	0.0	0.0	0.0	0.0	0.0	0.21
4	0.0	0.68	0.64	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.36
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	1.17
6	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.40	0.38	0.0	0.0	0.51
7	0.02	0.0	0.0	0.35	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.15	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.25
9	0.17	0.01	0.03	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.24
10	0.14	0.44	0.15	0.40	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.12
11	0.35	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
12	0.11	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40
13	0.11	0.0	0.0	0.05	0.0	0.0	0.0	0.13	0.0	0.13	0.46	0.60
14	0.19	0.0	0.13	0.02	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.48
15	0.33	0.04	0.09	0.0	0.27	0.0	0.0	0.0	0.0	0.01	0.0	0.30
16	0.38	0.03	0.56	0.01	0.26	0.0	0.0	0.0	0.0	0.84	0.0	0.06
17	1.94	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0
18	0.81	0.66	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0
19	0.04	0.13	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.09	0.02	0.0
20	0.07	0.0	0.0	0.33	0.05	0.0	0.0	0.0	0.0	0.08	0.0	0.0
21	0.0	0.0	0.02	0.28	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0
22	0.32	0.0	0.61	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.70
23	0.25	0.0	0.91	0.55	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.02
24	0.0	0.35	0.04	0.25	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0
25	0.28	0.15	0.43	0.26	0.0	1.05	0.0	0.0	0.02	0.0	0.18	0.89
26	0.02	0.0	0.51	0.0	0.0	0.79	0.0	0.0	0.12	0.22	2.00	0.0
27	0.0	0.18	0.0	0.0	0.0	0.15	0.0	0.0	0.22	0.23	0.57	0.0
28	0.0	0.30	0.0	0.0	0.0	0.18	0.0	0.0	0.04	0.0	0.97	0.0
29	0.0	0.0	0.0	0.05	0.18	0.0	0.13	1.31	0.0	0.0	0.42	0.47
30	0.0	0.0	0.10	0.0	0.0	0.0	0.0	1.19	0.76	0.06	0.0	0.0
31	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.68	3.10	5.88	2.47	2.16	3.13	0.64	0.65	3.28	4.31	5.64	7.23
STA AV	8.65	3.13	3.26	2.63	1.67	2.39	0.47	1.37	1.25	3.03	4.84	6.69

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 166794. 'Actual' amounts were computed as per relationship developed by W. E. Hanson, "Computing Actual Precipitation", Proceedings of WHO-IBDS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (U/S) \pm 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on a 4 yr (1968-71) record period.

1971		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.01	0.0	0.37	0.16	0.0
2	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.01	0.0	0.0	0.0	0.04
3	0.0	0.0	0.03	0.0	0.21	0.08	0.0	0.0	0.0	0.0	0.0	0.08
4	0.0	0.19	0.05	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.17
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.58
6	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.38	0.35	0.0	0.0	0.25
7	0.01	0.0	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.57	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.08
9	0.08	0.01	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.07
10	0.07	0.41	0.09	0.16	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.03
11	0.17	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
12	0.05	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.19
13	0.09	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.07	0.20	0.17
14	0.16	0.0	0.08	0.02	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.14
15	0.27	0.04	0.06	0.0	0.17	0.0	0.0	0.0	0.0	0.01	0.0	0.08
16	0.35	0.03	0.34	0.01	0.16	0.0	0.0	0.0	0.0	0.48	0.0	0.0
17	1.93	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0
18	0.80	0.17	0.0	0.02	0.0	0.0	0.0	0.02	0.0	0.0	0.06	0.0
19	0.03	0.03	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.07	0.0	0.0
20	0.06	0.0	0.0	0.12	0.01	0.0	0.0	0.0	0.0	0.06	0.0	0.0
21	0.0	0.0	0.01	0.07	0.03	0.0	0.0	0.0	0.0	0.02	0.0	0.0
22	0.25	0.0	0.56	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.33
23	0.20	0.0	0.90	0.16	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.01
24	0.0	0.10	0.08	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0
25	0.23	0.04	0.43	0.08	0.0	0.98	0.0	0.0	0.01	0.0	0.10	0.38
26	0.01	0.0	0.30	0.0	0.0	0.73	0.0	0.0	0.09	0.17	1.36	0.0
27	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.16	0.10	0.35	0.0
28	0.0	0.01	0.0	0.0	0.0	0.16	0.0	0.0	0.02	0.0	0.73	0.0
29	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.07	0.66	0.0	0.22	0.12
30	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.60	0.33	0.06	0.0	0.0
31	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.33	1.06	3.72	0.82	1.62	2.82	0.62	0.56	1.89	1.86	3.57	2.73
STA AV												

NOTES: Values are amounts from unshielded recording gage 166494. STA AV do not apply to unshielded rain gage records.

1971 DAILY PRECIPITATION (inches)				REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.01	0.0	0.84	0.25	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.01	0.0	0.0	0.0	0.10			
3	0.0	0.0	0.13	0.0	0.21	0.09	0.0	0.0	0.0	0.0	0.0	0.17			
4	0.0	0.0	0.21	0.0	0.0	0.14	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	0.10	0.0	0.0	0.0	0.89			
6	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.39	0.37	0.0	0.0	0.39			
7	0.02	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.84	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.19			
9	0.13	0.01	0.03	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.15			
10	0.10	0.43	0.11	0.27	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.26	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04			
12	0.08	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0			
13	0.10	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.10	0.35	0.39			
14	0.18	0.0	0.10	0.02	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.11			
15	0.31	0.04	0.08	0.0	0.22	0.0	0.0	0.0	0.0	0.02	0.0	0.19			
16	0.37	0.03	0.45	0.01	0.20	0.0	0.0	0.0	0.0	0.66	0.0	0.04			
17	1.93	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0			
18	0.82	0.39	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0			
19	0.03	0.08	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.08	0.01	0.0			
20	0.07	0.0	0.0	0.23	0.03	0.0	0.0	0.0	0.0	0.06	0.0	0.0			
21	0.0	0.0	0.01	0.19	0.07	0.0	0.0	0.0	0.0	0.03	0.0	0.0			
22	0.28	0.0	0.59	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.51			
23	0.23	0.0	0.91	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.23	0.04	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0			
25	0.26	0.10	0.43	0.17	0.0	1.04	0.0	0.0	0.01	0.0	0.15	0.65			
26	0.01	0.0	0.40	0.0	0.0	0.78	0.0	0.0	0.11	0.19	1.71	0.0			
27	0.0	0.08	0.0	0.0	0.0	0.16	0.0	0.0	0.19	0.16	0.88	0.0			
28	0.0	0.15	0.0	0.0	0.0	0.17	0.0	0.0	0.03	0.0	0.87	0.0			
29	0.0	0.04	0.0	0.0	0.11	0.0	0.0	0.07	0.10	0.0	0.22	0.26			
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.88	0.53	0.06	0.0			
31	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	6.02	2.01	4.59	1.69	1.86	3.04	0.63	0.61	2.56	2.92	4.74	5.02			
STA AV															

NOTES: Values are amounts from shielded recording gage 166594. STA AV do not apply to shielded rain gage records.

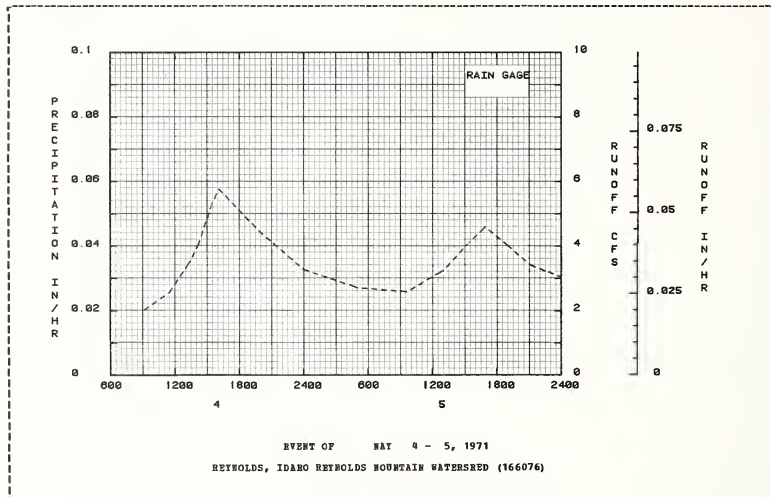
1971 MEAN DAILY DISCHARGE (cfs)				REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.039	0.156	0.103	0.146	1.873	1.088	0.286	0.027	0.008	0.013	0.035	0.034			
2	0.039	0.150	0.101	0.137	2.356	1.080	0.264	0.029	0.010	0.017	0.035	0.035			
3	0.039	0.142	0.093	0.133	2.516	0.950	0.229	0.022	0.011	0.022	0.035	0.035			
4	0.039	0.137	0.085	0.144	3.405	0.989	0.190	0.023	0.010	0.043	0.035	0.036			
5	0.039	0.132	0.086	0.203	3.275	0.942	0.161	0.024	0.007	0.070	0.032	0.036			
6	0.041	0.128	0.085	0.327	3.368	0.949	0.154	0.040	0.018	0.082	0.031	0.034			
7	0.040	0.123	0.084	0.396	3.743	1.039	0.134	0.027	0.012	0.075	0.031	0.034			
8	0.036	0.120	0.084	0.279	3.442	1.067	0.123	0.023	0.010	0.063	0.030	0.034			
9	0.033	0.119	0.085	0.338	3.549	1.005	0.110	0.019	0.009	0.058	0.030	0.034			
10	0.030	0.193	0.086	0.371	3.494	1.046	0.103	0.020	0.009	0.051	0.033	0.034			
11	0.031	0.213	0.085	0.281	3.653	0.977	0.098	0.027	0.008	0.047	0.035	0.034			
12	0.034	0.181	0.084	0.245	3.570	0.931	0.088	0.028	0.009	0.040	0.033	0.034			
13	0.034	0.174	0.083	0.224	3.157	0.941	0.078	0.026	0.009	0.036	0.032	0.034			
14	0.034	0.164	0.082	0.340	2.804	0.840	0.072	0.028	0.007	0.037	0.032	0.034			
15	0.034	0.154	0.081	0.572	2.859	0.790	0.067	0.027	0.010	0.031	0.031	0.034			
16	0.034	0.147	0.081	0.592	2.291	0.738	0.063	0.019	0.011	0.027	0.031	0.034			
17	0.074	0.141	0.079	0.516	1.781	0.672	0.063	0.014	0.012	0.029	0.031	0.034			
18	1.084	0.138	0.078	0.397	1.578	0.647	0.061	0.014	0.013	0.033	0.030	0.034			
19	1.493	0.137	0.076	0.491	1.461	0.622	0.065	0.013	0.013	0.034	0.030	0.034			
20	1.047	0.131	0.072	0.614	1.225	0.593	0.059	0.010	0.015	0.039	0.031	0.034			
21	0.528	0.127	0.071	0.536	1.060	0.598	0.053	0.010	0.014	0.042	0.031	0.034			
22	0.365	0.124	0.074	0.537	1.221	0.561	0.078	0.010	0.013	0.040	0.030	0.031			
23	0.296	0.121	0.190	0.540	1.386	0.515	0.061	0.010	0.012	0.059	0.027	0.028			
24	0.250	0.119	0.210	0.467	1.361	0.458	0.048	0.008	0.012	0.053	0.027	0.028			
25	0.215	0.119	0.161	0.416	1.562	0.679	0.042	0.007	0.013	0.045	0.029	0.028			
26	0.193	0.116	0.181	0.388	1.951	0.887	0.038	0.008	0.017	0.047	0.028	0.027			
27	0.184	0.111	0.189	0.427	1.974	0.549	0.036	0.008	0.020	0.037	0.029	0.027			
28	0.174	0.106	0.154	0.646	1.647	0.493	0.033	0.008	0.020	0.036	0.032	0.027			
29	0.164	0.109	0.139	0.866	1.605	0.378	0.030	0.011	0.013	0.036	0.034	0.028			
30	0.158	0.165	0.184	1.443	1.443	0.325	0.030	0.009	0.014	0.036	0.034	0.028			
31	0.156	0.165	0.165	1.239	1.239	0.272	0.027	0.008	0.010	0.035	0.031	0.028			
MEAN	0.2245	0.1403	0.1096	0.4259	2.3176	0.7782	0.0950	0.0180	0.0119	0.0431	0.0316	0.0324			
TRECHES	1.657	0.935	0.899	3.041	17.101	5.57	0.701	0.133	0.010	0.310	0.225	0.239			
STA AV	0.457	0.365	0.467	2.264	9.882	3.983	0.373	0.078	0.054	0.121	0.243	0.180			

NOTES: To convert CFS to IR/DAY, multiply by 0.238017. STA AV based on 6 yr (1966-71) record period.

1971 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF MAY 4 - 5, 1971											
RG											
5- 5	0.0		5- 5	RG	2400	0.0	0.0	5- 4	910	2.041	0.0
5- 4		0.226							1130	2.538	0.0535
									1325	3.544	0.1117
									1410	4.036	0.1399
									1530	5.348	0.2020
									1605	5.766	0.2341
									1950	4.469	0.4244
									2400	3.269	0.5843
								5- 5	500	2.712	0.7326
									935	2.584	0.8530

WATERSHED CONDITIONS:
For Watershed W-13(166076)
runoff event occurred as the
result of warmer temperatures
and winds. This is a strictly
snowmelt event with no
precipitation.

NOTES: To convert CFS to IN/HR, multiply by 0.009917.



REYNOLDS, IDAHO LOWER SREEP CREEK WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa, Idaho; a tributary to Reynolds Creek, a tributary to the Snake River.

AREA: 33.00 acres

MONTHLY PRECIPITATION AND RUNOFF (Inches)													REYNOLDS, IDAHO LOWER SREEP CREEK WATERSHED (117066)														
	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
P	1.79	0.83	2.85	1.27	0.82	2.37	0.59	0.39	2.53	1.38	1.54	2.21	18.57		1.79	0.83	2.85	1.27	0.82	2.37	0.59	0.39	2.53	1.38	1.54	2.21	18.57
Q	0.164	0.009	0.138	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.314		0.164	0.009	0.138	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.314	
STA AV P	2.50	0.72	1.34	0.99	0.96	1.60	0.34	0.86	0.93	1.07	1.50	1.40	14.25		2.50	0.72	1.34	0.99	0.96	1.60	0.34	0.86	0.93	1.07	1.50	1.40	14.25
Q	0.111	0.009	0.120	0.006	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001	0.249		0.111	0.009	0.120	0.006	0.0	0.002	0.0	0.0	0.0	0.0	0.001	0.249	

ANNUAL MAXIMUM DISCHARGE (In/hr) AND MAXIMUM VOLUMES OF RUNOFF (Inches) FOR SELECTED TIME INTERVALS																						
Station	1 Hour			2 Hours			6 Hours			12 Hours			1 Day			2 Days			8 Days			
	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	
1971	3-12	0.006	3-12	0.005	3-12	0.009	1-17	0.022	1-17	0.042	1-17	0.066	1-16	0.110	1-16	0.148						

MAXIMUMS FOR PERIOD OF RECORD													
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1-21 1967	0.042	1-21 1967	0.029	1-21 1967	0.048	1-21 1967	0.065	1-20 1969	0.106	1-20 1969	0.160	1-20 1969	0.192
1-19 1969	0.229												

NOTES: Watershed conditions: Watershed is entirely sagebrush rangeland used almost exclusively for cattle grazing. Vegetation consists of bluebunch wheatgrass, Sandberg bluegrass, cheatgrass, yellow, and little sagebrush. 90% of the area has a vegetative cover of 0-25% and 10% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1977, USDA Misc. Pub. 1262, p. 68.014-6. Records began: Precipitation-1963; Runoff-1967. Precipitation: *Computed actual* amounts from one rain gauge. Station average precipitation amounts are based on 1967-71 record period. Station average runoff amounts are based on 1967-71 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1971 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO LOWER SREEP CREEK WATERSHED (117066)												
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	19	9	46	34	24	11	46	29	72	50	48	39	78	57	94	71	78	46	44	34	34	28	28	20	
2	18	5	35	20	34	17	51	34	71	54	52	37	70	54	89	75	60	45	52	40	37	25	29	21	
3	11	3	24	14	42	28	48	28	68	46	58	42	68	45	92	69	62	44	59	47	45	30	26	20	
4	11	1	31	18	28	19	52	35	60	46	57	45	76	53	90	73	72	48	67	52	48	26	27	23	
5	14	3	26	14	26	17	58	41	57	43	66	48	75	53	87	65	84	58	70	54	31	19	39	27	
6	21	8	27	12	35	17	63	41	56	41	71	50	68	50	87	63	72	49	71	58	36	23	37	15	
7	34	20	36	18	44	23	46	33	62	44	77	59	71	47	86	68	64	41	70	55	46	26	16	8	
8	35	32	37	27	41	27	53	31	58	48	65	47	82	65	91	69	76	50	71	56	46	30	31	10	
9	36	33	42	28	46	23	62	40	65	42	49	67	53	82	57	92	72	86	62	71	58	49	38	12	
10	35	29	55	36	45	31	47	24	63	49	60	48	66	46	91	71	88	63	73	61	56	48	25	20	
11	32	24	48	32	43	35	44	31	66	46	66	42	66	47	91	66	75	49	67	59	51	43	22	19	
12	26	12	54	41	43	30	45	27	68	52	75	54	74	52	93	72	78	57	63	49	48	35	25	20	
13	18	13	51	38	33	25	56	37	58	42	74	57	79	65	96	76	77	60	71	46	36	32	22	17	
14	29	16	52	36	37	25	63	45	69	36	65	48	83	63	85	71	65	41	46	36	32	26	27	20	
15	34	26	46	30	33	23	50	33	69	33	72	51	91	68	90	70	65	45	40	31	32	27	22	19	
16	42	31	38	26	31	20	54	33	41	29	70	52	91	73	83	68	58	42	36	33	35	22	30	22	
17	41	30	34	29	27	17	41	32	46	27	69	59	89	73	84	65	55	40	43	29	34	24	37	26	
18	45	37	40	28	33	23	43	29	54	30	68	53	82	72	82	64	59	38	42	32	30	24	28	20	
19	51	42	29	21	40	21	56	30	58	34	72	55	79	64	90	66	70	45	44	40	41	30	33	26	
20	32	19	33	22	48	32	53	34	42	30	81	60	80	65	86	68	60	46	47	36	40	33	34	28	
21	27	16	39	23	48	39	47	31	50	33	88	61	87	65	83	64	60	39	44	34	38	29	35	32	
22	23	14	33	25	49	37	52	34	60	39	89	63	83	60	81	48	67	46	57	44	41	41	35		
23	31	24	36	26	44	38	41	30	63	41	82	60	85	65	70	44	75	54	48	34	43	33	37	27	
24	33	25	44	26	45	35	34	29	69	51	82	57	89	67	78	54	73	50	41	32	43	41	30		
25	36	31	27	19	43	35	47	31	72	54	69	54	85	66	83	65	54	41	47	29	34	28	34	28	
26	48	35	26	15	50	31	47	34	71	50	54	47	85	66	88	66	49	38	48	32	39	29	41	31	
27	44	34	26	17	39	26	54	34	73	51	57	48	87	66	86	70	46	36	31	20	32	28	31	27	
28	45	35	19	13	46	28	59	42	61	48	57	42	87	69	84	68	52	36	32	15	35	29	30	16	
29	47	36	58	42	60	41	65	42	62	41	89	71	84	63	40	34	30	12	32	30	24	20	20		
30	48	41	53	28	65	48	65	48	52	39	71	50	91	73	82	59	37	34	28	31	21	24	20		
31	51	40	41	25	60	48	52	36	60	40	90	72	70	51	80	72	70	51	28	25	25	32	22		
AV	33	23	37	25	40	27	51	34	61	42	68	51	81	62	86	66	65	46	51	39	39	29	30	22	
MEAN	28.1	30.8	33.6	42.7	51.7	59.4	71.3	75.5	85.7	85.0	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
STA AV	33	23	39	27	42	28	47	30	60	40	67	49	81	60	80	59	66	48	51	36	41	29	32	21	

NOTES: Temperature data taken from hygrothermograph record at Station 127149. STA AV based on 5 yr (1967-71) record period.

1971	DAILY PRECIPITATION (inches)				REYNOLDS, IDAHO LOWEE SHEEP CREEK WATERSEED (117066)								
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.12	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.16	0.08	0.0	0.02	0.08	0.0	0.0	0.02	0.0
4	0.0	0.03	0.04	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.02	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.25	
6	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.17	0.27	0.0	0.0	0.16	
7	0.02	0.0	0.0	0.15	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	
9	0.02	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.13	
10	0.0	0.05	0.05	0.27	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	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
12	0.09	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.28	
13	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.02	0.28	
14	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.20	
15	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.06	0.03	0.90	0.0	0.02	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0
17	0.75	0.17	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0
18	0.22	0.25	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.0	0.0
19	0.02	0.10	0.0	0.0	0.0	0.27	0.0	0.0	0.13	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0
21	0.05	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	0.15	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.31	
23	0.0	0.0	0.35	0.27	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.03	
24	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0
25	0.0	0.0	0.25	0.18	0.0	0.32	0.0	0.0	0.0	0.0	0.02	0.80	
26	0.0	0.0	0.35	0.0	0.0	0.88	0.0	0.0	0.06	0.05	0.58	0.02	
27	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.08	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.06	0.20	0.0	0.0	0.06	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.50	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	1.56	0.17	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	1.79	0.83	2.05	1.27	0.82	2.37	0.59	0.39	2.53	1.38	1.58	2.21	
STA AV	2.50	0.72	1.34	0.99	0.96	1.60	0.38	0.86	0.93	1.07	1.58	1.80	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) 127407. 'Actual' amounts were computed as per relationship developed by R. E. Hanson, "Computing Actual Precipitation", Proceedings of W80-IDRS Symposium, Gellio, Norway, August, 1972. The equation used is: $\log_e (O/S) = \log_e (0/5) \times 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 4 yr (1968-71) record period.

1971	DAILY PRECIPITATION (inches)				REYNOLDS, IDAHO LOWEE SHEEP CREEK WATERSEED (117066)								
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.03	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.13	0.06	0.0	0.02	0.08	0.0	0.0	0.01	0.0
4	0.0	0.03	0.04	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.02	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.17	
6	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.15	0.26	0.0	0.0	0.10	
7	0.01	0.0	0.0	0.06	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
9	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0
10	0.0	0.05	0.05	0.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.18	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.05	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.01	
13	0.09	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.02	0.01	
14	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0
15	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.06	0.0	0.33	0.0	0.02	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0
17	0.72	0.06	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0
18	0.21	0.07	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.0	0.0
19	0.02	0.03	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.12	0.0	0.0	0.0
20	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
21	0.05	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	0.11	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.25	
23	0.0	0.0	0.26	0.17	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.02	
24	0.0	0.06	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0
25	0.0	0.0	0.0	0.11	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.33	
26	0.0	0.0	0.10	0.0	0.0	0.79	0.0	0.0	0.06	0.05	0.55	0.01	
27	0.0	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.05	0.19	0.0	0.0	0.03	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.29	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	0.91	0.08	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	1.87	0.32	1.73	0.66	0.65	2.18	0.55	0.32	1.63	1.08	0.96	0.98	
STA AV													

NOTES: Values are amounts from unshielded recording gage 127407. STA AV do not apply to unshielded rain gage records.

1971		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SREEP CREEK WATERSHED (117066)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.07	0.0
2	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.14	0.07	0.0	0.02	0.08	0.0	0.0	0.01
4	0.0	0.03	0.04	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.02	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.21
6	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.16	0.27	0.0	0.0	0.14
7	0.0	0.0	0.0	0.0	0.10	0.0	0.01	0.0	0.0	0.0	0.0	0.0
8	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
9	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.05
10	0.0	0.05	0.05	0.13	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
11	0.19	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.07	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.11
13	0.12	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.08	0.03	0.10
14	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.08
15	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.06	0.02	0.58	0.0	0.02	0.0	0.0	0.0	0.0	0.72	0.0	0.0
17	0.74	0.14	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0
18	0.22	0.16	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.0
19	0.02	0.07	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.13	0.0	0.0
20	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0
21	0.05	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	0.06	0.0	0.0	0.0	0.0	0.28
23	0.0	0.0	0.32	0.22	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.02
24	0.0	0.10	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0
25	0.0	0.0	0.22	0.15	0.0	0.31	0.0	0.0	0.0	0.0	0.02	0.37
26	0.0	0.0	0.19	0.0	0.0	0.82	0.0	0.0	0.06	0.05	0.74	0.01
27	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.02	0.0	0.0
28	0.0	0.0	0.0	0.0	0.05	0.20	0.0	0.0	0.04	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.39	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	1.23	0.09	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	1.64	0.59	2.26	0.93	0.73	2.29	0.57	0.37	2.07	1.23	1.24	1.45
STA AV												

NOTES: Values are amounts from shielded recording gage 127507. STA AV do not apply to shielded rain gage records.

1971		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO LOWER SREEP CREEK WATERSHED (117066)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.003	0.0	0.0 T	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	0.001
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.001	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0 T	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.002	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.001	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.001	0.003	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	0.012	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.003	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.066	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.026	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.009	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.002	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.001	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.003	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.004	0.001	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.002	0.0 T	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.004	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.002	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.001	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.002	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.003	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.004	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0073	0.0005	0.0062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0001
INCHES	0.164	0.009	0.138	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
STA AV	0.111	0.009	0.120	0.006	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001

NOTES: To convert CFS to IN/DAY, multiply by 0.71262. STA AV based on 5 yr (1967-71) record period.

CHICKASAW, OKLAHOMA WATERSHED 100 AT ANADARKO

LOCATION: Washita River above Anadarko, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Caddo, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Beckham, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--WV/4 sec. 15, T. 7 N., R. 10 W., lat. 35 deg. 05 min., long. 98 deg. 14 min.; North edge of Anadarko, Okla., 35 feet upstream from U.S. Highway 281 bridge over Washita River; at river mile 305.2, approximately 8.1 miles upstream from confluence of Sugar Creek.

AREA: 2339800.00 acres 3656.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASAW, OKLAHOMA WATERSHED 100 AT ANADARKO													
1971	Q	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
		0.016	0.016	0.016	0.016	0.003	0.031	0.041	0.016	0.092	0.058	0.056	0.061	0.411												
	Q	0.041	0.039	0.045	0.055	0.133	0.133	0.053	0.041	0.102	0.084	0.087	0.050	0.863												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																										
1971	Date	Maximum Discharge			Maximum Volume for Selected Time Interval			2 Days			8 Days															
		1 Hour	2 Hours	6 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.	Date	Vol.													
	10-31	0.001	10-31	0.001	10-31	0.002	10-31	0.005	10-31	0.010	10-31	0.020	10-31	0.033	9-20	0.058										
MAXIMUMS FOR PERIOD OF RECORD																										
	9-22	0.004	9-23	0.004	9-23	0.009	9-23	0.026	9-23	0.052	9-23	0.100	5-23	0.188	9-23	0.384										
	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965	1965										

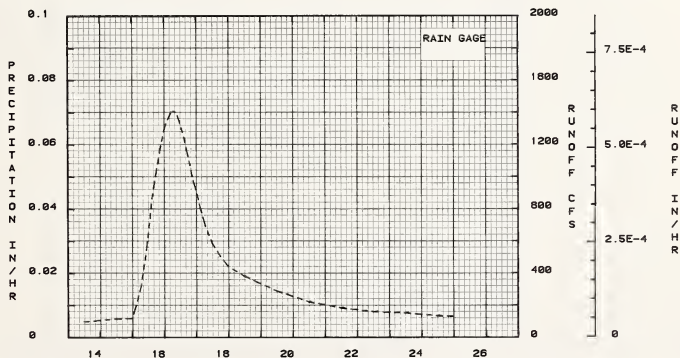
NOTES: Watershed conditions not applicable. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69-7-21. Since this is the inflow station to a study reach, precipitation data are not applicable. Runoff records began Oct. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971	BEAN DAILY DISCHARGE (cfs)												CHICKASAW, OKLAHOMA WATERSHED 100 AT ANADARKO											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	36.1	55.4	72.1	33.8	12.0	297.7	12.8	72.1	100.6	171.0	1600.5	70.4												
2	37.8	54.9	79.5	30.0	11.2	239.8	205.6	60.8	67.2	137.1	682.7	75.5												
3	48.0	52.5	76.0	25.4	11.1	52.2	1198.2	47.1	45.0	121.3	375.0	77.9												
4	49.7	54.4	67.7	24.9	11.1	32.0	596.9	38.7	34.1	961.3	282.8	78.2												
5	49.0	52.3	59.9	25.9	11.1	29.6	715.1	28.1	31.7	587.5	245.4	76.0												
6	45.0	53.2	55.6	25.7	10.5	49.5	203.9	21.2	39.4	240.7	197.6	84.4												
7	44.1	52.5	53.2	23.4	9.9	39.7	104.3	16.7	24.9	164.5	161.7	87.6												
8	42.8	46.8	50.4	20.1	9.9	23.7	75.9	19.7	307.7	127.8	143.7	91.2												
9	43.1	45.7	51.1	17.7	10.4	21.8	57.6	22.0	156.6	107.9	129.0	90.3												
10	47.8	52.3	49.9	15.6	10.5	49.6	43.8	21.3	119.2	94.6	115.8	91.5												
11	61.0	53.0	49.7	14.0	10.4	248.5	36.9	15.8	110.9	83.1	107.2	90.0												
12	60.6	50.9	50.2	14.4	9.8	358.5	26.9	15.5	99.7	73.9	99.5	85.7												
13	55.2	54.6	53.2	13.8	9.2	388.9	21.3	16.8	91.2	66.2	93.0	90.9												
14	58.8	55.8	54.9	13.9	8.8	394.7	17.6	162.6	70.0	62.7	91.5	100.5												
15	60.8	58.3	53.4	13.8	9.7	278.4	13.1	127.9	49.3	56.6	87.3	116.2												
16	59.1	55.8	51.5	12.6	9.8	124.1	11.6	89.7	39.2	55.6	83.3	664.0												
17	56.1	55.6	49.9	11.8	9.8	82.4	9.3	73.2	41.1	56.1	82.1	1249.7												
18	57.3	57.1	49.7	11.2	9.7	61.3	7.3	144.8	53.3	58.0	78.5	622.4												
19	58.8	57.1	49.0	11.1	9.2	43.1	5.8	64.5	305.8	52.7	75.7	384.0												
20	57.1	56.3	45.0	10.6	8.5	36.8	5.1	48.0	1054.3	50.4	72.2	291.9												
21	54.4	60.8	43.9	10.5	7.4	28.0	4.7	38.8	836.3	52.6	71.9	224.6												
22	56.6	62.9	41.4	10.5	6.8	22.6	5.0	34.9	313.1	71.2	73.5	183.9												
23	55.4	62.1	40.9	10.6	6.7	21.9	5.0	26.0	198.6	95.0	73.8	166.7												
24	53.7	63.5	40.9	11.1	6.3	31.2	4.6	24.0	155.7	79.6	73.8	148.6												
25	52.7	55.4	40.7	11.6	6.2	30.2	75.9	25.9	435.6	66.3	74.1	133.3												
26	49.0	56.8	39.7	14.3	6.2	19.9	88.0	26.9	1477.3	60.4	76.0	126.1												
27	51.3	58.1	40.9	15.2	6.3	15.4	78.0	24.2	1335.2	60.7	77.9	120.5												
28	53.2	63.7	42.2	13.6	6.7	12.1	78.0	18.7	616.9	57.8	77.6	115.4												
29	53.7	59.9	43.8	13.8	10.7	12.1	17.5	12.5	355.3	57.3	73.8	112.4												
30	55.1	38.7	13.6	6.6	11.3	86.1	41.3	243.2	147.4	70.1	105.7													
31	55.4	34.0	27.0			77.1	227.3			1582.3	53.9													
MEAN	52.21	55.63	50.53	16.47	9.53	100.49	128.82	52.00	301.75	182.57	184.90	194.02												
INCREAS	0.016	0.016	0.016	0.005	0.003	0.031	0.041	0.016	0.092	0.058	0.056	0.061												
STA AV	0.041	0.039	0.045	0.055	0.133	0.133	0.053	0.041	0.102	0.084	0.087	0.050												

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69-007) of this publication. To convert discharge in cfs to IN/DAY, multiply by 0.00001017. To convert discharge in inches to AC-FT, multiply by 194,983. STA AV based on 11 yr (1961-71) record period.

1971 SELECTED RUNOFF EVENT			CRICKASSA, OKLAHOMA WATERSHED 100 AT ANADARKO							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)
			EVENT OF DECEMBER 14 - 25, 1971							
12-14	0.001						12-14	1200	99.470	0.0
								2400	108.620	0.0005
							12-15	1200	117.770	0.0011
								2400	120.510	0.0017
							12-16	306	201.250	0.0019
WATERSHED CONDITIONS: Not applicable.								706	336.990	0.0024
								1106	566.060	0.0032
								1506	867.338	0.0044
								1630	984.238	0.0049
								1806	1022.800	0.0056
								1930	1091.248	0.0062
								2106	1165.049	0.0070
								2400	1290.049	0.0085
							12-17	136	1329.928	0.0094
								306	1357.698	0.0103
								536	1407.678	0.0118
								706	1410.329	0.0127
								836	1402.378	0.0136
								1006	1380.398	0.0145
								1200	1333.668	0.0156
								1506	1242.808	0.0173
								1806	1129.029	0.0188
								2106	1006.519	0.0202
								2211	966.428	0.0207
								2400	919.518	0.0214
							12-18	306	807.598	0.0225
								706	692.708	0.0238
								1206	586.298	0.0252
								1806	505.110	0.0266
								2400	440.740	0.0278
							12-19	1200	380.330	0.0299
								2400	334.620	0.0317
							12-20	1200	288.908	0.0333
								2400	254.970	0.0347
							12-21	1200	221.030	0.0359
								2400	201.475	0.0370
								1200	181.920	0.0380
								2400	170.460	0.0389
							12-23	1200	159.000	0.0397
								2400	154.325	0.0405

NOTES: To convert runoff in CFS to I³/S², multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.



EVENT OF DECEMBER 14 - 25, 1971
CRICKASSA, OKLAHOMA WATERSHED 100 AT ANADARKO

CHICKASAW, OKLAHOMA WATERSHED 200 AT VERDEN

LOCATION: Washita River above Verden, Okla.; Southwest Central Okla. and Texas Panhandle; in Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Nowell, Wheeler, and Gray Counties, Tex.; Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 7, T. 7 N., 8. 8 W., lat. 35 deg. 05 min., long. 98 deg. 05 min.; North edge of Verden, Okla. at county road bridge over Washita River; at river mile 283.4, approximately 8.4 miles upstream from confluence with Ionia Creek.

AREA: 2612500.00 acres 4082.00 sq. miles

MONTHLY PRECIPITATION AND ROBOFF (inches)		CHICKASAW, OKLAHOMA WATERSHED 200 AT VERDEN												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971	P	0.99	1.34	0.03	0.54	4.03	3.79	2.29	4.19	4.52	3.41	0.72	2.42	28.27
	O	0.016	0.014	0.016	0.005	0.003	0.038	0.037	0.015	0.079	0.049	0.059	0.059	0.390
STA AV	P	0.60	0.97	1.33	2.62	3.76	3.57	1.83	2.81	4.66	1.68	1.67	1.06	26.56
	O	0.045	0.041	0.045	0.055	0.128	0.134	0.050	0.037	0.096	0.083	0.085	0.052	0.852

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF ROBOFF (inches) FOR SELECTED TIME INTERVALS																
1971	Maximum Discharge				Maximum Volume for Selected Time Interval											
	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1971	11-1	0.001	11-1	0.001	11-1	0.001	11-1	0.004	11-1	0.008	10-31	0.016	10-31	0.027	9-20	0.050

MAXIMUMS FOR PERIOD OF RECORD															
5-6	0.002	5-7	0.002	9-24	0.005	9-24	0.014	9-24	0.028	9-23	0.055	9-23	0.108	9-24	0.344
	1969		1965	1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey, (p. 69, 007-1, this publication); sowed crop - 26%; row crop - 4%; alfalfa - 9%; pasture and range - 46%; and miscellaneous - 13%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, OSDA Misc. Pub. 1216, p. 69, 7-21. Precipitation data obtained from a Thiessen weighted average of 66 rain gages for the reach between stations at Anadarko and Verden. Precipitation records began Oct. 1961; runoff records began Sept. 1961. For long-time precipitation records, see National Weather Service records, at Chickasaw, Okla.

1971	DAILY PRECIPITATION (inches)												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.54	0.0	0.0	0.0	0.01	0.05
2	0.81	0.0	0.03	0.0	0.0	0.16	0.03	0.0	0.0	1.07	0.0	0.0	0.49
3	0.58	0.0	0.0	0.0	0.0	0.01	0.57	0.0	0.0	0.0	0.0	0.0	0.15
4	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.07	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	0.09
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.01	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.01	0.14	0.0	1.04	0.0	0.01	0.01	0.12
9	0.0	0.0	0.0	0.0	0.0	0.53	0.69	0.0	0.0	0.01	0.0	0.0	0.05
10	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.01	0.0	0.0	0.0	0.07
11	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.02	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.06	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	0.29	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.04	0.0	0.0	0.0	0.0	1.16
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01
16	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.0	1.44	0.02	0.04	0.0
18	0.0	0.30	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.96	0.59	0.0	0.0
19	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.01	0.0	0.01	0.23	0.0	0.0
20	0.0	0.0	0.0	0.01	0.0	0.0	0.33	0.0	0.0	0.0	0.04	0.0	0.0
21	0.0	1.00	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.54	0.0
23	0.0	0.0	0.0	0.0	0.37	0.0	0.42	0.01	0.13	0.0	0.05	0.0	0.0
24	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.89	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	0.01	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.11	0.79	0.0	0.0	0.0	0.0	0.86	0.0	0.0
27	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
28	0.0	0.02	0.0	0.02	0.0	0.0	0.95	0.11	0.0	0.02	0.0	0.0	0.0
29	0.0	0.0	0.0	0.04	0.0	0.0	0.11	0.55	0.0	0.06	0.0	0.23	0.0
30	0.0	0.0	0.0	0.0	0.36	0.22	0.0	0.0	0.0	0.11	0.07	0.0	0.0
31	0.0	0.0	0.0	0.0	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.99	1.34	0.03	0.54	4.03	3.79	2.29	4.19	4.52	3.41	0.72	2.42	
STA AV	0.60	0.97	1.33	2.62	3.76	3.57	1.83	2.81	4.66	1.68	1.67	1.06	

NOTES: For daily temperatures in the vicinity, see table for Watershed W-700, (69,007) of this publication. Daily precipitation values Thiessen weighted average of 66 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)				CHICKASHA, OKLAHOMA				WATERSHED 200 AT VERDEN			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	47.6	53.2	66.5	30.4	12.7	526.2	15.6	76.8	161.9	221.4	1776.1	75.6	
2	46.6	53.9	77.7	27.6	10.6	324.5	20.2	57.6	102.1	206.1	963.0	76.6	
3	56.1	53.6	85.6	26.6	8.5	168.0	908.7	48.7	59.8	299.9	494.0	85.8	
4	60.9	51.1	84.3	24.6	8.0	103.7	733.4	36.6	46.5	479.4	348.1	89.1	
5	48.3	51.8	78.6	23.9	7.6	64.2	896.1	29.6	36.9	881.4	284.1	89.0	
6	44.9	51.1	74.1	24.4	7.3	46.0	374.7	23.1	29.3	329.5	240.6	90.7	
7	44.7	52.9	70.3	24.8	7.3	60.6	144.6	19.2	50.6	222.8	201.0	92.2	
8	48.7	49.1	67.6	23.6	7.8	44.7	103.3	32.1	372.0	168.7	162.4	95.4	
9	45.8	47.0	63.6	21.0	11.3	110.7	73.8	30.0	203.7	141.0	147.8	99.3	
10	55.7	49.6	61.4	19.0	16.2	107.8	58.1	24.3	130.4	120.6	136.5	99.2	
11	77.6	52.6	60.2	18.1	13.0	200.5	46.3	21.1	107.1	104.9	124.4	94.6	
12	73.1	51.9	59.1	15.8	10.6	402.1	35.0	17.3	102.2	92.5	112.1	92.3	
13	68.9	50.0	60.9	13.6	9.2	323.7	25.4	16.6	92.0	68.8	102.0	92.6	
14	61.3	54.4	60.9	12.3	9.0	437.4	19.4	75.9	81.3	81.1	97.5	96.9	
15	64.0	56.7	58.7	11.4	9.0	396.3	16.6	212.3	58.1	78.9	92.3	144.5	
16	67.0	58.5	57.5	11.3	8.9	222.0	11.4	135.0	43.1	76.8	89.8	284.2	
17	64.2	55.6	55.5	13.5	8.2	126.9	8.8	84.4	40.7	74.9	89.6	1175.3	
18	62.0	56.4	53.0	13.3	7.0	81.2	7.4	112.3	59.5	73.6	87.4	864.1	
19	63.4	60.9	54.3	11.7	6.1	57.9	6.9	110.4	88.4	71.1	85.3	486.2	
20	61.5	59.4	53.2	12.6	6.0	42.4	3.9	59.9	689.5	65.1	83.1	359.8	
21	59.8	63.0	51.9	13.6	6.0	57.3	3.3	47.3	973.4	61.0	80.5	278.3	
22	55.7	69.9	48.4	14.4	6.4	36.8	2.3	40.7	486.3	54.4	81.7	216.2	
23	55.6	66.0	43.0	12.8	8.7	26.8	7.7	34.5	257.1	98.6	86.1	203.2	
24	55.8	65.5	41.6	11.7	9.0	23.9	9.6	27.0	216.5	100.0	83.3	187.1	
25	56.1	66.3	41.6	10.7	6.6	30.5	8.9	24.2	243.8	84.6	80.3	167.4	
26	53.2	59.4	42.2	9.0	6.1	29.4	75.1	24.4	938.9	71.9	79.2	152.3	
27	51.0	61.1	42.3	11.4	6.6	23.6	84.9	24.6	1393.0	90.3	79.9	183.7	
28	52.2	63.2	42.0	14.1	8.6	19.2	85.2	22.6	900.3	76.2	80.1	138.1	
29	53.7	40.0	12.9	6.7	14.7	82.6	23.8	443.0	70.3	80.5	133.6		
30	53.2	37.7	10.9	6.7	12.9	124.0	27.2	377.2	80.2	77.9	132.3		
31	53.1	35.1		42.4		68.4	115.0		728.1		64.5		
MEAN	56.70	56.57	57.06	16.69	9.62	137.80	130.95	52.72	290.2	174.25	217.60	207.94	
INCHES	0.016	0.014	0.016	0.005	0.003	0.038	0.037	0.015	0.079	0.049	0.059	0.059	
STA AV	0.045	0.041	0.045	0.055	0.128	0.134	0.050	0.037	0.096	0.083	0.085	0.052	

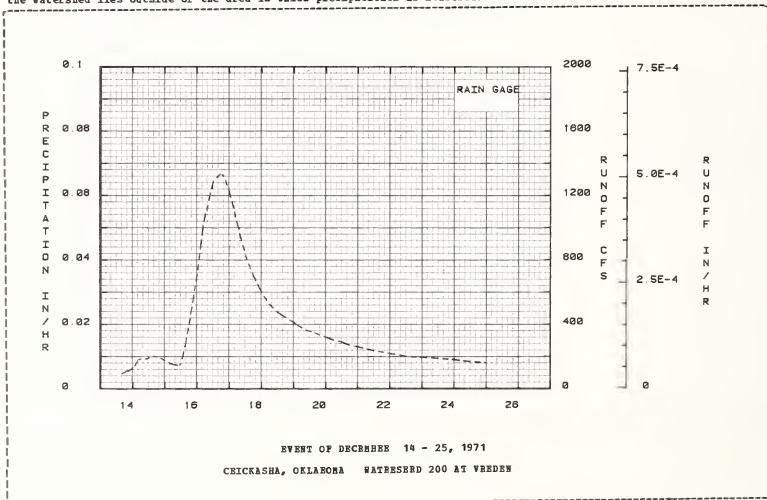
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0000091111. To convert discharge in inches to AC-FE, multiply by 217,708. STA AV based on 11 yr (1961-71) record period.

1971		SELECTED RAINOFF EVENT				CHICKASHA, OKLAHOMA				WATERSHED 200 AT VERDEN			
ANTICIPATED CONDITIONS		RAINFALL				RAINOFF							
Date	Rainfall	Ennoff	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 DECEMBER 14 - 25, 1971													
12-14		0.001					12-14	1600	93.100	0.0			
								1711	101.400	0.0			
								1818	101.500	0.0			
								1900	111.500	0.0			
								1948	114.200	0.0			
								2100	113.000	0.0001			
								2200	117.300	0.0001			
								2400	132.600	0.0002			
							12-15	130	144.800	0.0003			
								330	172.800	0.0004			
								430	181.800	0.0005			
								600	185.500	0.0006			
								1030	187.100	0.0009			
								1230	197.800	0.0010			
								1500	201.800	0.0012			
								1800	198.400	0.0014			
								2100	189.100	0.0016			
								2400	174.400	0.0018			
							12-16	400	155.000	0.0021			
								900	185.900	0.0024			
								1100	147.900	0.0025			
								1200	159.600	0.0026			
								1330	202.600	0.0027			
								1530	286.300	0.0029			
								1730	376.100	0.0032			
								1930	479.198	0.0035			
								2130	581.698	0.0039			
								2400	713.100	0.0045			
							12-17	130	809.999	0.0049			
								300	926.099	0.0054			

NOTES: To convert rrainoff in CFS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1971 SELECTED SUBOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 200 AT VEEDEN							
WATERSHED CONDITIONS			RAINFALL			SUBOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF DECEMBER 14 - 25, 1971 (CONTINUED)										
							12-17	430	1011.898	0.0060
								600	1088.799	0.0066
								711	1111.898	0.0071
								900	1189.100	0.0079
								1200	1290.500	0.0093
								1500	1318.300	0.0108
								1700	1334.598	0.0118
								1830	1330.398	0.0126
								1930	1320.099	0.0131
								2100	1295.498	0.0138
							12-18	2800	1217.898	0.0152
								300	1125.100	0.0165
								600	1019.799	0.0177
								900	920.500	0.0188
								1300	803.198	0.0201
								1800	699.398	0.0215
								2400	598.100	0.0230
							12-19	600	522.800	0.0243
								1200	474.198	0.0254
								1800	443.300	0.0264
								2400	410.800	0.0274
							12-20	600	379.300	0.0283
								930	362.398	0.0288
								1300	355.000	0.0293
								1600	345.398	0.0297
								2400	319.698	0.0307
							12-21	600	301.800	0.0318
								1200	289.500	0.0321
								1800	270.799	0.0327
								2400	260.000	0.0333
								1200	236.200	0.0344
							12-22	2400	218.200	0.0354
								1200	200.200	0.0364
								2400	194.250	0.0373
							12-23	1200	188.300	0.0382
								2400	177.450	0.0390
							12-24	1200	166.600	0.0398
								2400	159.000	0.0405

NOTES: To convert runoff in CFS to I8/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA

LOCATION: Washita River Watershed above Chickasha, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Carter, Heckman, and Roger Mills Counties, Okla.; and Washita, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--SB1/4 sec. 23, T. 7 N., R. 7 W., lat. 35 deg. 05 min.; long. 97 deg. 54 min., 1 mile Northeast of Chickasha, Okla., at E.E. Bailey Turnpike bridge over Washita River; at river mile 256.5, approximately 1.3 miles downstream from confluence of Line Creek.

AREA: 2768000.00 acres 4325.00 sq. miles

	CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
HOFFBYL PRECIPITATION (inches)																		
P	0.91	1.67	0.05	0.73	4.68	5.13	2.55	3.17	4.49	3.88	0.61	2.63	30.50					
Q	0.015	0.015	0.015	0.004	0.005	0.077	0.032	0.016	0.077	0.061	0.062	0.059	0.439					
STA AV P	0.71	1.11	1.37	2.81	3.71	3.30	1.77	2.91	3.95	1.73	0.91	0.99	26.28					
Q	0.036	0.033	0.039	0.061	0.141	0.097	0.043	0.037	0.080	0.075	0.069	0.046	0.757					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF HOFFBYL (inches) FOR SELECTED TIME INTERVALS																		
Maximum Volume for Selected Time Interval																		
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.
1971	10-3	0.001	10-3	0.001	10-3	0.002	10-2	0.006	10-2	0.011	10-2	0.017	11-1	0.024	9-26	0.056		
MAXIMUMS FOR PERIOD OF RECORD																		
	4-12	0.003	5-29	0.002	4-12	0.005	4-12	0.015	5-7	0.029	5-6	0.055	5-6	0.102	5-5	0.329		
	1967		1970		1967		1967		1969		1969		1969		1969			

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey (p. 69, 007-1, this publication); sowed crop - 36%; row crop - 2%; alfalfa - 7%; pasture and range - 44%; and mixed-lansons - 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, OSDA Misc. Pub. 1216, p. 69, 7-21, (Composite). The station at Chickasha (8th St.) Watershed #00 was discontinued in 1967, therefore, causing a new Thiessen weighted average for this watershed. Precipitation data obtained from a Thiessen weighted average of 42 gages for the reach between Verden (200) and Chickasha (500). Precipitation records began Oct. 1961; runoff records began Jan. 1964. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971	CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA												
	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	0.33	0.0	0.0	0.0	0.0	0.02	0.04
2	0.12	0.0	0.04	0.0	0.0	0.62	0.0	0.0	0.0	2.17	0.0	0.0	0.49
3	0.79	0.0	0.0	0.0	0.02	0.75	0.0	0.0	0.0	0.01	0.0	0.0	0.08
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	0.10
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.01	0.0	0.0	0.0	0.0
7	0.0	0.01	0.0	0.0	0.0	1.06	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	0.02	0.0	1.06	0.0	0.02	0.01	0.38	0.0
9	0.0	0.0	0.0	0.0	0.68	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.10
10	0.0	0.0	0.0	0.0	0.01	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.12
11	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
12	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.06	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.22	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	1.42	0.0	0.0	0.0	0.0	1.05
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.01
16	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.11	0.03	0.06	0.0	0.0
18	0.0	0.48	0.0	0.0	0.08	0.0	0.0	0.0	1.13	0.45	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.04	0.39	0.0	0.0	0.0
20	0.0	0.0	0.0	0.03	0.0	0.47	0.0	0.0	0.0	0.08	0.0	0.0	0.0
21	0.0	1.12	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.01	0.0	0.12	0.0	0.13	0.0	0.0	0.0	0.44	0.0
23	0.0	0.0	0.0	0.0	0.48	0.0	1.13	0.0	0.24	0.0	0.03	0.0	0.0
24	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.95	0.0	0.0	0.0	0.0
25	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.20	1.29	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0
27	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
28	0.0	0.01	0.0	0.05	0.0	0.0	0.94	0.07	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.02	0.01	0.0	0.01	0.24	0.0	0.11	0.0	0.26	0.0
30	0.0	0.0	0.0	0.0	0.31	0.08	0.0	0.0	0.0	0.03	0.05	0.0	0.0
31	0.0	0.0	0.0	1.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.91	1.67	0.05	0.73	4.68	5.13	2.55	3.17	4.49	3.88	0.61	2.63	30.50
STA AV	0.71	1.11	1.37	2.81	3.71	3.30	1.77	2.91	3.95	1.73	0.91	0.99	26.28

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69,007) of this publication. Daily precipitation values Thiessen weighted average of 42 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971 MEAN DAILY DISCHARGE (cfs)												CHICKASSA, OKLAHOMA			WATERSHED 500 NEAR CHICKASSA					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec								
1	52.6	53.4	66.4	38.6	10.9	928.7	16.9	60.8	138.0	279.0	1829.7	88.7								
2	52.3	54.7	69.2	35.8	11.4	373.2	17.4	72.0	128.3	466.0	1415.8	86.7								
3	57.0	56.3	80.1	29.5	12.1	1763.6	212.4	58.5	88.0	1785.0	680.1	94.3								
4	72.5	56.9	88.7	23.1	8.5	379.5	95.2	52.1	52.5	382.8	420.9	95.8								
5	57.6	55.8	88.9	20.4	7.4	114.9	487.6	39.3	38.1	826.6	307.2	97.4								
6	49.8	54.9	75.9	17.8	6.2	80.8	651.2	33.3	33.0	557.2	259.0	96.8								
7	42.6	50.8	69.4	17.8	4.7	64.6	247.7	27.9	25.8	292.8	217.2	96.7								
8	41.5	47.2	66.6	19.8	3.4	1185.7	131.3	72.3	94.5	211.1	187.5	111.3								
9	42.2	46.7	62.7	17.8	16.3	210.4	95.2	68.9	301.4	168.9	165.9	112.7								
10	46.7	48.9	59.7	16.4	10.9	212.4	67.8	42.6	170.5	145.4	150.5	112.4								
11	48.7	61.4	56.8	13.5	12.6	234.1	55.6	30.0	120.5	126.9	137.9	107.8								
12	57.6	59.4	56.1	13.5	12.2	360.7	40.9	23.7	100.4	111.1	125.0	100.4								
13	68.4	57.0	54.5	11.0	10.0	439.1	29.7	32.3	94.1	98.5	116.8	101.3								
14	70.4	54.7	56.3	6.7	6.7	357.8	23.5	39.4	80.9	90.3	110.0	118.4								
15	65.1	56.9	57.5	5.6	5.6	415.1	13.3	210.2	74.6	84.4	105.7	361.5								
16	68.5	58.1	54.9	6.6	4.2	330.3	10.6	237.5	55.6	78.2	100.3	238.6								
17	70.7	58.9	52.7	9.5	4.0	169.3	7.6	135.7	59.2	73.8	96.1	686.2								
18	66.9	74.0	48.6	11.2	3.9	109.8	2.7	85.7	95.1	74.4	95.1	1055.2								
19	62.6	65.7	46.8	11.9	1.9	79.7	1.2	122.4	70.9	81.5	92.3	606.1								
20	63.9	65.5	50.0	12.2	1.2	65.0	0.9	98.1	207.9	102.6	89.8	428.4								
21	64.5	109.8	50.0	9.2	0.7	581.7	0.9	62.2	850.7	78.8	87.2	324.8								
22	64.8	105.8	49.9	10.3	1.1	211.1	1.0	47.4	747.6	69.7	88.2	267.2								
23	59.1	84.5	45.5	12.2	7.2	64.7	3.7	40.1	359.4	67.1	91.6	228.6								
24	58.1	73.6	42.4	12.5	1.6	40.8	38.8	36.4	395.7	109.5	91.6	202.2								
25	57.9	75.1	40.9	10.6	1.3	33.5	13.8	29.3	548.4	108.2	88.0	189.7								
26	56.6	74.6	41.0	10.5	3.5	33.2	5.0	24.7	507.4	99.2	85.8	174.1								
27	55.9	64.8	42.4	14.9	260.0	32.4	48.4	22.5	1231.2	105.8	85.4	161.2								
28	53.0	66.3	40.9	14.4	60.2	26.9	95.9	24.4	1205.0	110.2	84.6	150.6								
29	53.8	40.0	11.4	19.1	22.1	88.8	26.1	682.5	52.3	98.6	144.4									
30	54.5	39.2	11.3	15.9	18.9	77.5	28.2	403.4	84.9	85.3	144.1									
31	53.9	38.2		46.6		103.7	27.3		154.9		70.9									
MEAN	57.67	63.99	55.75	15.19	18.42	297.98	120.09	61.66	298.69	229.28	239.17	220.98								
INCHES	0.015	0.015	0.015	0.004	0.005	0.077	0.032	0.016	0.077	0.061	0.062	0.059								
STA AV	0.036	0.033	0.039	0.061	0.141	0.097	0.043	0.037	0.080	0.075	0.069	0.046								

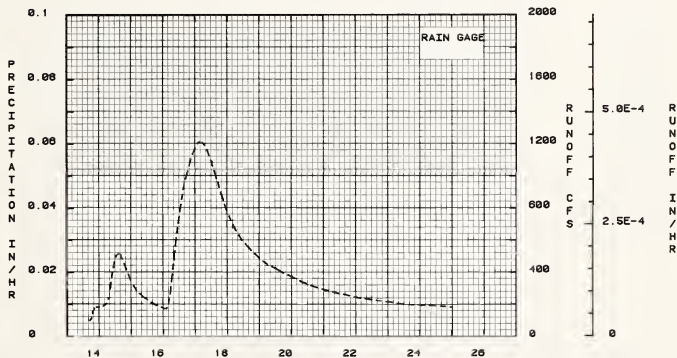
NOTES: To convert mean daily discharge in CFS to I/R/DAY, multiply by 0.000008599. To convert discharge in inches to AC-YR, multiply by 230,667. STA AV based on 8 yr (1964-71) record period.

1971 SELECTED SUBOFF EVENTS												CHICKASSA, OKLAHOMA			WATERSHED 500 NEAR CHICKASSA						
AFTERCAST CONDITIONS						SAINFALL						SUBOFF									
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 DECEMBER 14 - 25, 1971																					
12-14		0.001					12-14	1700	101,350	0.0											
								1830	115,550	0.0001											
								1918	155,810	0.0001											
								2030	176,770	0.0002											
								2200	183,900	0.0003											
WATERSHED CONDITIONS:																					
For area not included above																					
subwatersheds as determined																					
from a revised 1971 survey																					
(p. 69.007-1, this publication); sowed crop - 36%;																					
row crop - 2% alfalfa -																					
7% pasture and range -																					
44%; and miscellaneous -																					
11%.																					
							12-15	2400	183,740	0.0004											
								300	191,390	0.0006											
								530	205,840	0.0008											
								700	237,390	0.0009											
								830	308,820	0.0010											
								1000	400,378	0.0012											
								1130	466,550	0.0014											
								1300	507,208	0.0017											
								1430	517,240	0.0020											
								1600	511,050	0.0023											
								1730	482,520	0.0026											
								2030	416,040	0.0031											
								2400	343,628	0.0036											
								400	287,030	0.0041											
								900	246,510	0.0046											
								1600	207,870	0.0052											
								2400	177,170	0.0058											
								100	173,180	0.0059											
								200	173,830	0.0060											
								300	179,750	0.0061											
								400	205,650	0.0062											
								530	283,908	0.0063											
								700	391,020	0.0065											
								830	505,858	0.0067											
								1000	617,408	0.0070											

NOTES: To convert runoff in CFS to I/R/HR, multiply by 0.000000358. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1971 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED 500 NB&B CHICKASAW							
PRECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF DECEMBER 14 - 25, 1971 (CONTINUED)										
							12-17	1130	717.378	0.0074
								1330	826.148	0.0080
								1600	952.698	0.0088
								1830	1038.878	0.0097
								2100	1110.068	0.0107
								2400	1175.110	0.0119
							12-18	218	1206.698	0.0129
								330	1213.490	0.0134
								518	1209.308	0.0142
								700	1190.809	0.0149
								911	1155.599	0.0158
								1200	1090.559	0.0169
								1600	985.550	0.0184
								2000	877.778	0.0197
								2400	776.378	0.0209
							12-19	500	682.469	0.0222
								1100	599.458	0.0236
								1800	536.760	0.0250
								2400	488.550	0.0261
							12-20	600	448.290	0.0271
								1200	424.658	0.0280
								1800	395.520	0.0289
								2400	372.810	0.0297
							12-21	800	339.648	0.0307
								1600	313.020	0.0316
								2400	292.270	0.0325
							12-22	800	273.719	0.0333
								1600	260.448	0.0341
								2400	282.790	0.0348
							12-23	1200	228.710	0.0358
								2400	214.180	0.0368
							12-24	1200	199.650	0.0377
								2400	195.215	0.0385
							12-25	1200	190.780	0.0393
								2400	182.140	0.0401

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000003583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



EVENT OF DECEMBER 14 - 25, 1971

CHICKASAW, OKLAHOMA WATERSHED 500 NB&B CHICKASAW

CHICKASAW, OKLAHOMA WATERSHED 700 NEAR ALEX

LOCATION: Washita River Watershed above Alex, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Carter, Beckham and Roger Mills Counties, Okla.; and Bepphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION—381/2 sec. 7, T. 5 N., R. 5 W., lat. 38 deg. 55 min., long. 97 deg. 46 min., 1 mile north of Alex, Okla.; at county road bridge over Washita River at river mile 226.5 approximately 3.8 miles downstream from confluence of Winter Creek.

AREA: 3061120.00 acres 4783.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)												CHICKASAW, OKLAHOMA		WATERSHED 700 NEAR ALEX		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1971	0	0.019	0.020	0.018	0.006	0.006	0.096	0.026	0.022	0.079	0.105	0.060	0.069	0.525		
STA AV	P	1.21	1.88	1.55	2.52	4.39	2.28	3.06	4.22	5.28	5.07	0.58	2.97	31.70		
	O	0.047	0.043	0.050	0.073	0.138	0.196	0.048	0.039	0.091	0.083	0.085	0.054	0.898		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maxims Discharge				Maxims Volume for Selected time Interval											
	Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days							
1971	10-3	0.003	10-3	0.003	10-3	0.005	10-3	0.015	10-3	0.029	10-3	0.046	10-2	0.056	9-27	0.087
MAXIMIMS FOR PERIOD OF RECORD																
	5-7	0.003	5-7	0.003	5-7	0.006	9-20	0.019	9-20	0.035	5-7	0.064	5-6	0.114	5-5	0.336
	1969	1969	1969	1969	1962	1962	1962	1969	1969	1969	1969	1969	1969	1969	1969	1969

NOTES: For the revised watershed conditions, see table below. 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 records began Oct. 1961; Runoff records began Sept. 1961. STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-69 and for 77 gages for 1970-71 on the reach from Tabor to Alex., Okla., for a total period of record (1963-71). For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

Revised Watershed Conditions
Land Use Inventory
1971 Survey

Watershed Number	Percent Cultivation In			Percent Pasture and Range	Percent Miscellaneous 1/
	Sowed Crop	Row Crop	Alfalfa		
110	30	5	11	29	25
111	16	3	2	73	6
121	10	12	4	56	18
131	15	5	2	67	11
141	7	6	5	65	17
100-200 2/	26	4	9	48	13
311	36	1	3	49	11
411	30	2	9	48	11
200-500 2/	36	2	7	48	11
511	22	3	5	61	9
512	8	0	3	81	8
513	4	0	1	90	5
522	15	1	3	65	16
500-600 2/	23	4	10	51	12
611	3	--	2	95	--
612	--	--	3	97	--
621	9	1	2	77	11
600-700 2/	14	5	9	65	7

1/ Miscellaneous category includes dense timber with little or no forage growth, farmsteads, stomp lots, farm ponds, detention reservoirs, creeks, farm roads, private roads, highways, urban developments, and rocks.

2/ Ungrazed area between river gaging stations.

1971	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLABORA			WATERSHED 700 BEAR ALEX			
	Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov
1	64.1	71.6	91.7	38.4	23.9	1227.8	33.8	98.3	24.1	336.2	698.6	105.6
2	64.9	69.8	90.3	38.7	17.8	728.3	35.0	66.7	149.9	260.0	1577.4	111.9
3	102.3	71.6	93.0	33.0	16.8	1937.8	44.9	66.5	113.3	5857.5	886.1	126.5
4	85.5	74.4	106.2	29.3	21.0	1268.5	473.3	54.4	58.4	84.6	999.1	135.4
5	67.3	75.1	110.4	28.7	17.6	398.5	617.6	44.8	55.3	809.6	351.4	136.9
6	60.6	71.8	103.7	28.4	13.9	204.4	674.4	44.8	43.1	931.6	293.8	136.7
7	59.4	68.4	95.1	28.0	12.3	116.6	389.1	34.4	35.3	486.4	262.9	136.7
8	60.1	55.9	89.4	23.3	11.7	1253.6	189.0	33.1	26.5	336.6	230.7	137.0
9	61.0	51.9	88.1	22.5	16.4	598.7	125.5	96.3	146.6	262.2	204.0	179.5
10	62.9	55.4	84.9	22.4	26.0	281.7	92.2	77.8	229.3	219.7	186.5	194.9
11	75.1	80.0	80.7	22.3	27.4	212.6	70.7	45.2	140.3	188.4	172.2	169.4
12	111.0	89.8	78.4	20.9	20.3	523.0	58.0	35.7	105.5	169.9	159.1	146.6
13	111.6	82.6	77.8	18.5	15.9	485.4	39.1	37.3	93.7	151.0	148.9	130.7
14	97.6	78.5	75.9	18.2	12.5	409.3	26.6	388.9	84.1	137.5	139.9	293.1
15	90.7	72.6	75.0	16.9	10.0	393.9	18.4	392.3	70.5	126.4	133.8	749.6
16	83.8	73.3	75.1	15.8	6.9	382.8	10.4	298.9	61.8	119.6	130.4	551.3
17	82.7	74.0	71.3	19.3	5.0	265.0	4.2	205.9	51.4	111.2	127.1	414.2
18	82.3	77.4	66.1	21.4	4.6	155.7	2.0	126.6	56.3	114.3	122.2	1116.0
19	78.9	100.7	61.4	21.5	3.3	117.1	2.3	88.0	246.2	115.0	119.9	816.9
20	74.6	92.8	59.7	23.2	2.9	96.7	2.1	130.2	106.1	173.1	116.2	538.7
21	75.5	169.7	61.5	25.9	2.5	252.3	1.7	90.8	508.6	127.9	113.4	411.5
22	75.7	277.7	61.3	23.4	2.4	508.0	1.7	64.5	830.0	98.0	112.9	331.6
23	74.6	156.6	61.6	19.0	7.6	157.9	6.9	53.0	488.7	89.3	116.5	279.7
24	73.1	123.2	60.1	20.6	21.3	48.4	11.7	45.5	595.6	88.4	122.2	489.8
25	74.3	111.6	58.1	20.9	12.6	58.9	29.6	43.5	1369.9	113.7	119.8	221.9
26	73.5	107.3	56.2	20.1	5.4	47.0	21.7	36.8	502.5	126.7	113.4	204.2
27	72.5	100.6	54.5	22.3	6.4	42.2	7.7	30.3	944.2	152.4	108.5	187.2
28	77.0	91.5	53.9	27.2	210.8	39.7	50.2	23.0	1250.9	142.5	107.5	176.3
29	75.9	51.6	27.2	55.4	37.9	108.3	22.6	818.2	125.7	105.4	173.2	
30	74.8	49.3	23.0	21.6	35.7	91.6	24.8	473.8	107.1	105.1	184.7	
31	74.3	44.3	20.0	20.0	20.0	86.1	26.5		99.6			90.7
MEAN	77.33	93.89	73.77	23.84	22.92	412.04	107.29	91.21	340.30	435.00	256.26	285.25
INCHES	0.019	0.020	0.018	0.006	0.006	0.096	0.026	0.022	0.079	0.105	0.060	0.069
STA AV	0.047	0.043	0.050	0.073	0.138	0.146	0.048	0.039	0.091	0.083	0.085	0.054

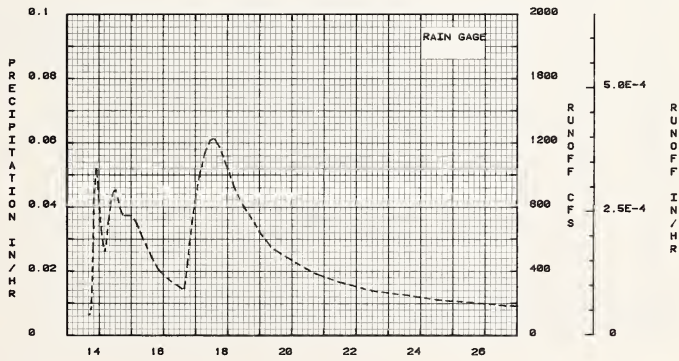
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000007776. To convert discharge in inches to AC-FT, multiply by 255,093. STA AV based on 11 yr (1961-71) record period.

1971	SELECTED #B00FF EVENTS					CHICKASAW, OKLABORA			WATERSHED 700 BEAR ALEX				
	ANTECEDENT CONDITIONS					RAINFALL			#B00FF				
Date	Rainfall	Rmoff	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 DECEMBER 14 - 27, 1971													
12-14		0.001					12-14	1600	130.500	0.0			
								1730	161.100	0.0			
								1800	177.200	0.0			
								1830	279.398	0.0			
WATERSHED CONDITIONS:									1853	399.698	0.0		
The land use of this 4,783									1918	549.100	0.0001		
sq. mi. watershed is not									1941	694.998	0.0002		
monitored seasonally. For									2000	823.398	0.0003		
revised watershed conditions,									2100	945.098	0.0006		
see p. 69.7-1 this									2130	1022.600	0.0008		
publication.									2148	1041.198	0.0009		
								2211	1026.498	0.0010			
								2230	985.598	0.0011			
								2311	909.898	0.0013			
								2400	825.198	0.0015			
								12-15	130	656.000	0.0019		
								300	554.100	0.0022			
								400	524.100	0.0024			
								430	540.000	0.0025			
								530	601.398	0.0027			
								700	720.300	0.0030			
								900	833.698	0.0035			
								1100	901.300	0.0041			
								1200	905.898	0.0044			
								1300	885.498	0.0047			
								1530	797.698	0.0054			
								1730	751.800	0.0059			
								1900	748.000	0.0063			
								2400	787.100	0.0075			
								12-16	400	700.000	0.0084		
								900	595.500	0.0094			
								1500	491.800	0.0105			
								2000	412.398	0.0112			
								2400	375.698	0.0117			

NOTES: To convert rmoff in CFS to TB/SS, multiply by 0.000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1971 SELECTED RUNOFF EVENT			CRICKKASEA, OKLAHOMA WATERSHED 700 NEAR ALEX							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF DECEMBER 14 - 27, 1971 (CONTINUED)										
			12-17					600	333.398	0.0124
								1200	300.300	0.0130
								1400	289.198	0.0132
								1530	292.000	0.0133
								1630	336.198	0.0134
								1800	445.898	0.0136
								1930	573.300	0.0138
								2130	704.500	0.0142
								2400	856.898	0.0148
			12-18					300	993.898	0.0157
								700	1138.799	0.0171
								1100	1215.598	0.0186
								1300	1226.398	0.0194
								1430	1222.099	0.0200
								1800	1170.998	0.0214
								2400	1036.798	0.0235
			12-19					600	900.498	0.0254
								1200	801.799	0.0271
								1800	726.398	0.0286
								2400	641.100	0.0299
			12-20					800	555.600	0.0315
								1600	506.198	0.0329
								2400	467.600	0.0342
			12-21					1030	416.698	0.0357
								1800	381.898	0.0367
								2400	368.198	0.0374
			12-22					1200	329.600	0.0387
								2400	302.998	0.0399
			12-23					1200	276.300	0.0410
								2400	263.350	0.0420
			12-24					1200	250.400	0.0430
								2400	235.200	0.0439
			12-25					1200	220.000	0.0448
								2400	212.300	0.0456
			12-26					1200	204.600	0.0464
								2400	195.400	0.0472
			12-27					1200	186.200	0.0479
								2400	180.900	0.0486

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



EVENT OF DECEMBER 14 - 27, 1971
CRICKKASEA, OKLAHOMA WATERSHED 700 NEAR ALEX

CHICKASHA, OKLAHOMA WATERSHED 611 NEAR ALEX

LOCATIONS: Big Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Washita River; Red River Basin.

AREA: 4845.00 acres 7.57 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA				WATERSHED 611 NEAR ALEX						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1971	P	0.50	1.86	0.10	0.46	4.10	3.80	1.56	5.25	5.14	4.37	0.53	3.24	30.91									
	Q	0.050	0.082	0.064	0.050	0.052	0.068	0.003	0.135	0.144	0.372	0.057	0.276	1.351									
STA AV	P	1.00	1.28	1.54	2.27	3.87	2.75	1.84	2.74	4.51	1.92	1.94	1.13	26.77									
	Q	0.072	0.087	0.097	0.138	0.256	0.190	0.061	0.039	0.244	0.088	0.079	0.081	1.432									

ANNUAL MAXIMUM DISCHARGE (1a/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.	
1971	9-24	0.036	9-24	0.033	9-24	0.056	10- 2	0.091	10- 2	0.114	10- 2	0.136	10- 2	0.171	10- 2	0.268

MAXIMUMS FOR PERIOD OF RECORD														
Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Rate	1 Hour	2 Hours		
5- 9	0.501	5- 9	0.423	5- 9	0.557	5- 9	0.649	5- 9	0.667	5- 9	0.880	5- 9	0.988	
1964		1964		1964		1964		1964		1964		1964	5- 6	1.154

NOTES: Watershed conditions: From a revised 1971 survey (p. 69,007-1, this publication); sowed crop - 35; alfalfa 24; pasture and range - 95%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, pp. 69-8-5 (topography), 69-7-9 (geologic) and 1965, p. 69-7-21 (composite). Precipitation data obtained from Thiessen weighted average of 7 gages. Precipitation records began Oct. 1961; runoff records began Dec. 1961. For long-time precipitation records, see National Weather Service at Chickasha, Okla.

Day	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA				WATERSHED 611 NEAR ALEX					
	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	0.11	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	0.0	0.05
2	0.08	0.0	0.06	0.0	0.0	0.15	0.0	0.0	0.0	2.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62
3	0.42	0.0	0.0	0.0	0.0	0.0	0.54	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	0.15
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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.0	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	0.03	0.0	0.0	0.0	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	0.01	0.0	0.0	0.57	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38
9	0.0	0.0	0.0	0.0	0.60	0.49	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	0.0	0.0	0.18
10	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21
11	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	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	0.68	0.0	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	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.77	0.0	0.0	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	2.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.14
15	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0
16	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	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.99	0.02	0.03	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	0.21	0.0	0.0	0.10	0.0	0.0	0.0	1.62	0.33	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	0.04	0.0	0.0	0.0	0.0	0.10	0.99	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	0.09	0.0	0.32	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	0.0	0.0
21	0.0	1.60	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.05	0.0	0.0	0.13	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
23	0.0	0.0	0.0	0.0	0.82	0.0	0.73	0.0	0.33	0.0	0.41	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	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35
25	0.0	0.01	0.04	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
26	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	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
27	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	0.0	0.0	0.0
28	0.0	0.02	0.0	0.01	0.0	0.0	0.59	0.0	0.0	0.0	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	0.11	0.03	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	0.0
30	0.0	0.0	0.0	0.0	0.33	0.53	0.0	0.0	0.0	0.02	0.06	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	1.24	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	0.0	0.0	0.0	0.0
TOTAL	0.50	1.86	0.10	0.46	4.10	3.80	1.56	5.25	5.14	4.37	0.53	3.24	30.91									
STA AV	1.00	1.28	1.54	2.27	3.87	2.75	1.84	2.74	4.51	1.92	1.94	1.13	26.77									

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69,007) of this publication. Daily precipitation values Thiessen weighted average of 7 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971 MEAN DAILY DISCHARGE (cfs)				CRICKASBA, OKLAHOMA				WATERSHED 611 NEAR ALEX				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.305	0.274	0.480	0.345	0.296	3.466	0.326	0.0	0.031	0.204	0.474	0.357
2	0.380	0.278	0.480	0.340	0.269	0.987	0.081	0.0	0.030	10.780	0.410	0.475
3	0.605	0.301	0.480	0.340	0.235	3.026	0.051	0.0	0.029	18.423	0.392	0.561
4	0.346	0.330	0.480	0.340	0.230	0.257	0.031	0.0	0.021	7.095	0.417	0.536
5	0.274	0.305	0.474	0.340	0.226	0.156	0.022	0.0	0.020	5.680	0.386	0.517
6	0.274	0.291	0.430	0.345	0.200	0.121	0.026	0.746	0.020	4.327	0.380	0.431
7	0.296	0.239	0.392	0.375	0.174	0.100	0.011	0.142	0.020	3.314	0.380	0.351
8	0.305	0.239	0.424	0.375	0.191	0.082	0.001	0.338	0.020	2.635	0.380	0.576
9	0.335	0.296	0.430	0.345	0.319	0.567	0.0	0.296	0.020	1.859	0.386	0.736
10	0.340	0.340	0.430	0.340	0.335	0.185	0.0	0.022	0.019	1.416	0.424	1.756
11	0.340	0.370	0.430	0.340	0.296	0.237	0.0	0.019	0.011	1.144	0.430	0.734
12	0.340	0.340	0.430	0.335	0.235	2.389	0.0	0.011	0.009	0.972	0.424	0.457
13	0.340	0.310	0.430	0.305	0.200	0.258	0.0	0.110	0.002	0.811	0.386	0.386
14	0.335	0.335	0.430	0.305	0.171	0.197	0.0	13.990	0.007	0.709	0.380	15.516
15	0.310	0.340	0.430	0.340	0.149	0.152	0.0	10.179	0.001	0.640	0.380	7.564
16	0.335	0.340	0.430	0.381	0.121	0.121	0.0	0.479	0.002	0.581	0.380	4.497
17	0.340	0.345	0.424	0.417	0.102	0.099	0.0	0.281	0.050	0.557	0.380	3.559
18	0.335	0.375	0.381	0.386	0.100	0.074	0.0	0.156	2.681	0.649	0.380	2.557
19	0.305	0.375	0.350	0.380	0.097	0.071	0.0	0.087	0.156	1.421	0.380	1.754
20	0.300	0.345	0.381	0.375	0.081	0.096	0.0	0.069	0.059	3.743	0.380	1.329
21	0.300	5.244	0.417	0.345	0.072	1.236	0.0	0.052	0.050	1.169	0.380	1.141
22	0.300	1.124	0.386	0.340	0.079	0.176	0.0	0.049	0.050	0.920	0.386	1.050
23	0.300	0.796	0.380	0.335	0.552	0.109	0.0	0.042	0.062	0.822	0.412	0.980
24	0.300	0.752	0.386	0.305	0.257	0.096	0.0	0.049	19.310	0.709	0.351	0.970
25	0.300	0.700	0.424	0.300	0.115	0.074	0.0	0.050	3.515	0.632	0.345	0.970
26	0.300	0.634	0.430	0.300	0.162	0.067	0.0	0.049	1.597	0.755	0.370	0.970
27	0.305	0.637	0.430	0.296	0.396	0.052	0.0	0.041	0.626	1.261	0.350	0.961
28	0.335	0.486	0.424	0.277	0.206	0.052	0.0	0.040	0.359	0.707	0.370	0.926
29	0.340		0.386	0.296	0.162	0.065	0.0	0.040	0.296	0.640	0.345	1.260
30	0.335		0.380	0.300	0.257	0.057	0.0	0.040	0.235	0.575	0.340	1.556
31	0.301		0.375		4.250		0.0	0.039		0.492		0.587

REAR 0.3276 0.5942 0.4205 0.3382 0.3800 0.4629 0.0178 0.8883 0.971 2.4808 0.3867 1.8104
 IBCBS 0.050 0.082 0.064 0.050 0.052 0.068 0.003 0.135 0.144 0.372 0.057 0.276
 STA AT 0.072 0.087 0.097 0.138 0.256 0.190 0.061 0.039 0.244 0.088 0.079 0.081

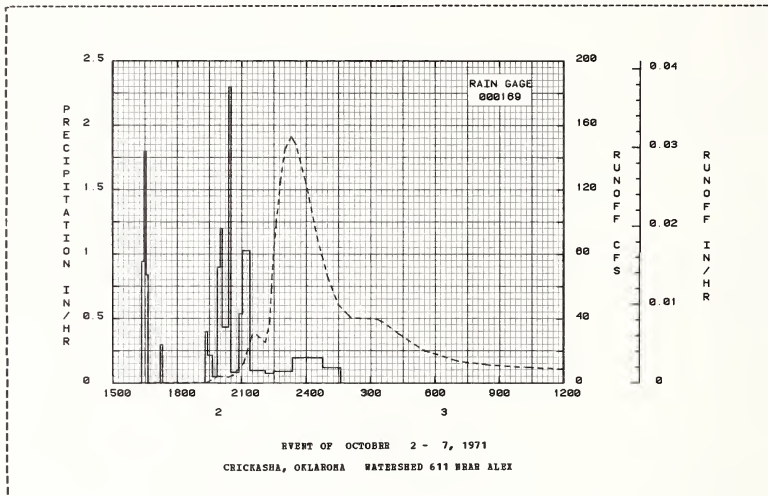
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.004913. STA AT based on 11 yr (1961-1971) record period.

1971 SELECTED BOROFP EVENT				CRICKASBA, OKLAHOMA				WATERSHED 611 NEAR ALEX			
BOROFP CONDITIONS				RAINFALL				BOROFP			
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 2 - 7, 1971											
10-2	RG 000169	0.0	0.001	10-2	1620	0.0	0.0	10-2	1630	0.200	0.0
					1627	0.9428	0.11		1641	0.340	0.0
					1633	1.8002	0.29		1736	0.430	0.0001
					1638	0.8399	0.36		1923	0.380	0.0002
					1713	0.0	0.36		1953	4.090	0.0004
WATERSHED CONDITIONS:											
From a revised 1971 survey											
(p. 69.007-1, this publication); moved crop -											
35; alfalfa - 24; pasture											
and range - 95%.											
					1719	0.3000	0.39		2023	3.580	0.0008
					1919	0.0	0.39		2036	5.050	0.0010
					1925	0.4000	0.43		2106	12.420	0.0019
					1939	0.2143	0.48		2118	21.530	0.0026
					1952	0.0462	0.49		2100	30.100	0.0037
					2000	0.8999	0.61		2141	30.100	0.0048
					2006	1.2001	0.73		2206	25.070	0.0072
					2024	0.4333	0.86		2218	37.690	0.0085
					2030	2.2999	1.09		2223	58.640	0.0093
					2052	0.0818	1.12		2230	84.240	0.0110
					2102	0.5400	1.21		2236	99.170	0.0128
					2123	1.0286	1.57		2248	125.040	0.0174
					2206	0.0977	1.64		2300	145.320	0.0230
					2230	0.0750	1.67		2318	153.010	0.0321
					2322	0.0923	1.75		2330	146.360	0.0348
				10-3	47	0.1976	2.03		2400	123.660	0.0523
					137	0.1200	2.13	10-3	30	98.950	0.0633
									100	65.930	0.0713
									130	48.640	0.0772
									206	40.450	0.0826
									318	39.750	0.0924
									336	37.690	0.0948
									430	28.930	0.1010
									530	20.110	0.1060
									706	13.490	0.1115

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047.

1971 SELECTED RUNOFF EVENT			CICKASHA, OKLAHOMA WATERSHED 611 NEAR ALEX								
ATMOSPHERIC 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 2 - 7, 1971 (CONTINUED)											
			10- 3				10- 3	836	11.080	0.1153	
							1036	9.520	0.1195		
							1336	8.660	0.1251		
							1900	8.380	0.1345		
							2400	7.880	0.1428		
			10- 4	1200			10- 4	1200	7.080	0.1611	
							2400	6.380	0.1776		
			10- 5	1200			10- 5	1200	5.480	0.1924	
							2400	4.980	0.2055		
			10- 6	1200			10- 6	1200	4.280	0.2169	
							2400	3.770	0.2268		
			10- 7	1200			10- 7	1200	3.260	0.2354	
							2400	2.965	0.2430		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047.



CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX

LOCATION: Little Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.: tributary to Big Dry Creek, Washita River; Red River Basin. GAIGIE STATION--NR1/4 sec. 33, T. 6 N., R. 6 W., lat. 35 deg. 57 min., long. 97 deg. 51 min., 5 miles northwest of Alex, Okla.: on state road 19 bridge over little Dry Creek.

AREA: 563.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
P	0.38	1.73	0.08	0.50	4.33	3.39	1.57	6.02	5.20	4.56	0.51	3.20	31.47												
Q	0.0	0.040	0.000	0.0	0.073	0.051	0.001	0.476	0.228	0.239	0.0	0.123	1.227												
STA AV P	0.97	1.24	1.48	2.53	3.78	2.76	2.03	2.80	4.53	1.92	1.86	1.10	27.00												
Q	0.087	0.064	0.061	0.163	0.123	0.203	0.082	0.056	0.198	0.044	0.027	0.113	1.222												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Station	Discharge			1 Hour			2 Hours			Maximum Volume for Selected Time Interval							
	Date	Rate	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	1 Day	2 Days	8 Days					
1971	8-14	0.163		8-14	0.116	10-2	0.158	8-14	0.206	8-14	0.228	8-14	0.410	8-13	0.411	8-7	0.425

MAXIMUMS FOR PERIOD OF RECORD												
Station	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.
1968	7-1	0.493		6-23	0.345		6-23	0.549		6-23	0.733	
1963				1963			1963			1963		
1963				1963			1963			1963		
1963				1963			1963			1963		

NOTES: Watershed conditions: From a revised 1971 survey (p. 69.007-1, this publication); alfalfa - 35; pasture and range - 97%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.8-5 (Topography) and p. 69.7-9 (Geologic); 1969, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 2 gauges on the watershed. Precipitation records began Oct. 1961; runoff records began Nov. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX											
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	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05									
2	0.08	0.0	0.05	0.0	0.0	0.13	0.0	0.0	0.0	2.38	0.0	0.0	0.0	0.0	0.56									
3	0.30	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.27	0.0	0.18	0.0	0.0	0.18									
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	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	0.0	0.16									
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
7	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	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	0.58	0.0	0.08	0.01	0.35	0.0	0.0	0.0									
9	0.0	0.0	0.0	0.0	0.65	0.49	0.03	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0									
10	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.01	0.0	0.0	0.0	0.21	0.0	0.0	0.0									
11	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	0.0	0.0									
12	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.01	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	0.02	0.0	0.50	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	3.51	0.0	0.0	0.0	1.18	0.0	0.0	0.0									
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.0									
16	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									
17	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	1.00	0.01	0.02	0.0	0.0	0.0	0.0									
18	0.0	0.18	0.0	0.0	0.11	0.0	0.0	0.0	1.60	0.40	0.0	0.0	0.0	0.0	0.0									
19	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.10	0.86	0.0	0.0	0.0	0.0	0.0									
20	0.0	0.0	0.0	0.11	0.0	0.28	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0									
21	0.0	1.48	0.0	0.0	0.0	0.83	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	0.03	0.0	0.11	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	0.89	0.0	0.63	0.0	0.31	0.0	0.0	0.02	0.0	0.0	0.0									
24	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	2.04	0.0	0.0	0.0	0.0	0.0	0.0									
25	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0									
26	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0									
27	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									
28	0.0	0.02	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
29	0.0	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38									
30	0.0	0.0	0.0	0.0	0.33	0.06	0.0	0.0	0.0	0.02	0.06	0.0	0.0	0.0	0.0									
31	0.0	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
TOTAL	0.38	1.73	0.08	0.50	4.33	3.39	1.57	6.02	5.20	4.56	0.51	3.20												
STA AV	0.97	1.24	1.48	2.53	3.78	2.76	2.03	2.80	4.53	1.92	1.86	1.10												

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 2 rain gauges on the watershed. STA AV based on 11 yr (1961-71) record period.

1971		BEAN DAILY DISCHARGE (cfs)				CRICKASSA, OKLAHOMA				WATERSHED 612 BEAN ALEX			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.020	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	4.412	0.0	0.0	
3	0.0	0.0	0.001	0.0	0.0	0.808	0.0	0.0	0.0	0.690	0.0	0.0	
4	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.001	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	1.224	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	0.322	0.0	0.0	0.0	0.055	
9	0.0	0.0	0.0	0.0	0.0	0.007	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	0.295	
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	0.320	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	5.272	0.0	0.0	0.0	2.478	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.451	0.0	0.0	0.0	0.004	
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	1.036	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	0.480	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	
21	0.0	0.724	0.0	0.0	0.0	0.046	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.079	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.057	0.0	0.0	0.0	0.0	0.0	0.0	4.259	0.0	0.0	0.0	
25	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.001	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.019	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.902	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	0.08	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	0.060	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	
31	0.0	0.0	0.0	0.0	1.483	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BEAN	0.0	0.0334	0.0003	0.0	0.0553	0.0401	0.0006	0.3635	0.1765	0.1625	0.0	0.0941	
INCHES	0.0	0.040	0.000	0.0	0.073	0.051	0.001	0.476	0.224	0.239	0.0	0.123	
STA AV	0.087	0.064	0.061	0.163	0.123	0.203	0.082	0.056	0.198	0.094	0.027	0.113	

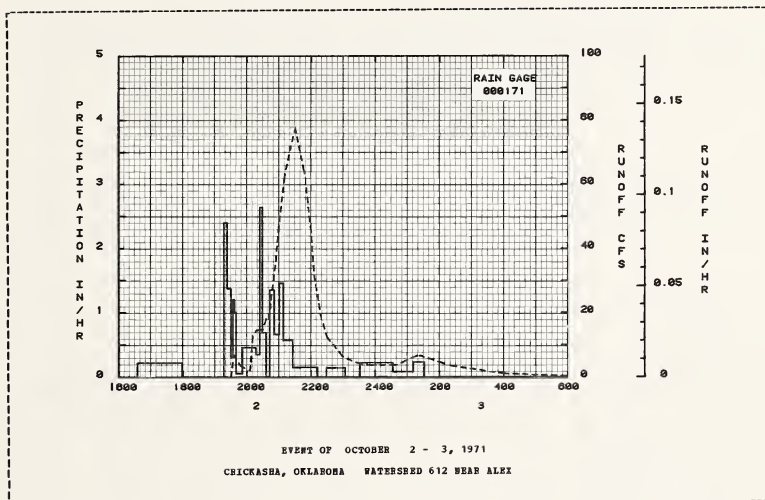
NOTES: To convert bean daily discharge in CFS to I/R/DAY, multiply by 0.04228. To convert discharge in inches to AC-FE, multiply by 46.32. STA AV based on 11 yr (1961-71) record period.

1971		SELECTED RUNOFF EVENT				CRICKASSA, OKLAHOMA				WATERSHED 612 BEAN ALEX			
WATERSHED CONDITIONS		RAINFALL		SNOWFALL		RAINFALL		SNOWFALL					
Date Mo-Day	Rainfall (inches)	Snoff (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 2 - 3, 1971													
10- 2	RG 000171	0.0	0.0	10- 2	1635	0.0	10- 2	1930	0.0	0.0			
					1758	0.2169		1936	6.830	0.0006			
					1917	0.0		1948	3.370	0.0024			
					1923	2.3999	0.54	2006	1.850	0.0038			
					1930	1.3714	0.70	2011	12.650	0.0048			
WATERSHED CONDITIONS:													
From a revised 1971 survey (p. 69.007-1, this publication): alfalfa - 35; and pasture and range - 97%.													
					1934	0.3000	0.72	2018	14.470	0.0076			
					1937	1.2003	0.78	2030	14.850	0.0128			
					1940	0.9999	0.83	2036	18.120	0.0156			
					1952	0.0500	0.84	2041	18.120	0.0182			
					2017	0.4560	1.03	2053	34.670	0.0276			
					2024	0.3429	1.07	2100	47.060	0.0360			
					2029	2.6402	1.29	2111	63.200	0.0534			
					2036	6.6857	1.37	2130	77.610	0.0931			
					2043	0.0	1.37	2148	63.200	0.1299			
					2051	1.3500	1.55	2200	44.970	0.1493			
					2101	0.6600	1.66	2206	31.370	0.1559			
					2108	1.4571	1.83	2218	19.220	0.1648			
					2126	0.5667	2.00	2230	12.300	0.1704			
					2212	0.1435	2.11	2300	6.150	0.1785			
					2229	0.0	2.11	2336	3.680	0.1837			
					2204	0.1371	2.19	2400	3.680	0.1863			
					2332	0.0	2.19	41	3.680	0.1907			
			10- 3		33	0.2164	2.41	100	5.300	0.1932			
					111	0.0789	2.46	118	6.600	0.1963			
					132	0.2286	2.54	123	6.600	0.1973			
								200	4.540	0.2034			
								223	3.370	0.2061			
								400	0.930	0.2122			
								636	0.210	0.2148			
								900	0.050	0.2154			

NOTES: To convert snoff in CFS to I/R/HR, multiply by 0.001762.

1971 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 612 BEAR ALKI				
PRECEDING 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 2 - 3, 1971 (CONTINUED)							
						1123 0.0 0.2155				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001762.



1971		MEAN DAILY DISCHARGE (cfs)					CRICKASHA, OKLAHOMA			WATERSHED 111 BEAR ARADARKO			
Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.140	0.216	0.320	0.215	0.144	11.570	0.0	0.0	0.002	0.100	0.460	0.380	
2	0.236	0.224	0.320	0.194	0.096	1.925	0.0	0.0	0.0	1.324	0.367	0.579	
3	0.780	0.250	0.320	0.190	0.075	0.678	0.0	0.0	0.0	1.854	0.325	0.464	
4	0.381	0.272	0.320	0.190	0.085	0.409	0.0	0.0	0.0	0.842	0.320	0.949	
5	0.232	0.254	0.315	0.194	0.069	0.259	0.0	0.0	0.0	0.266	0.315	1.210	
6	0.220	0.254	0.285	0.216	0.044	0.164	0.0	0.0	0.0	0.224	0.281	1.376	
7	0.220	0.269	0.276	0.220	0.040	0.106	0.0	0.0	0.0	0.216	0.262	1.112	
8	0.220	0.227	0.250	0.220	0.056	0.107	0.0	0.0	0.0	0.194	0.311	0.944	
9	0.224	0.220	0.224	0.216	0.216	0.194	0.0	0.0	0.0	0.186	0.320	1.026	
10	0.246	0.227	0.220	0.194	0.186	0.167	0.0	0.0	0.0	0.164	0.320	1.252	
11	0.254	0.272	0.220	0.190	0.107	0.251	0.0	0.0	0.0	0.157	0.320	1.202	
12	0.276	0.280	0.224	0.179	0.072	0.190	0.0	0.0	0.0	0.136	0.320	1.006	
13	0.280	0.276	0.246	0.110	0.060	0.110	0.0	0.0	0.0	0.097	0.320	0.851	
14	0.280	0.254	0.242	0.092	0.049	0.089	0.0	0.897	0.0	0.099	0.325	1.567	
15	0.276	0.259	0.191	0.104	0.031	0.071	0.0	0.849	0.0	0.102	0.361	5.301	
16	0.250	0.302	0.149	0.141	0.019	0.057	0.0	0.172	0.0	0.130	0.410	2.025	
17	0.224	0.267	0.157	0.184	0.002	0.032	0.0	0.081	0.0	0.257	0.447	1.499	
18	0.237	0.322	0.160	0.190	0.0	0.019	0.0	0.019	1.143	0.524	0.410	1.319	
19	0.332	0.382	0.160	0.194	0.0	0.001	0.172	0.305	0.361	1.250	1.0	1.250	
20	0.286	0.386	0.160	0.212	0.0	0.020	0.0	0.067	0.306	1.325	1.221	1.221	
21	0.254	0.862	0.160	0.187	0.0	1.185	0.0	0.0	0.060	0.277	0.337	1.129	
22	0.250	0.447	0.164	0.146	0.0	0.175	0.0	0.0	0.060	0.231	0.471	0.351	
23	0.250	0.517	0.194	0.140	0.0	0.065	0.0	0.0	0.075	0.246	0.661	1.000	
24	0.250	0.697	0.242	0.140	0.0	0.022	0.0	0.0	1.352	0.246	0.681	1.079	
25	0.242	0.579	0.250	0.137	0.0	0.082	0.0	0.0	1.142	0.239	0.621	1.890	
26	0.194	0.497	0.246	0.120	0.002	0.0	0.0	0.0	0.407	1.146	0.561	1.097	
27	0.164	0.374	0.224	0.101	0.022	0.0	0.0	0.0	0.209	1.016	0.510	1.112	
28	0.160	0.325	0.220	0.091	0.050	0.0	0.0	0.0	0.126	0.647	0.454	0.962	
29	0.160	0.220	0.220	0.091	0.040	0.0	0.0	1.267	0.102	0.576	0.367	1.102	
30	0.164	0.220	0.106	0.145	0.0	0.0	0.895	0.100	0.657	0.330	1.325	1.325	
31	0.190	0.220	0.106	0.145	0.0	0.0	0.022	0.0	0.568	0.330	1.325	1.325	
MEAN	0.257	0.354	0.229	0.163	0.173	0.593	0.0	0.400	0.167	0.442	0.395	1.306	
1 INCHES	0.011	0.014	0.010	0.007	0.003	0.025	0.0	0.018	0.007	0.020	0.017	0.058	
STA AV	0.072	0.077	0.089	0.134	0.165	0.064	0.032	0.016	0.047	0.028	0.063	0.062	

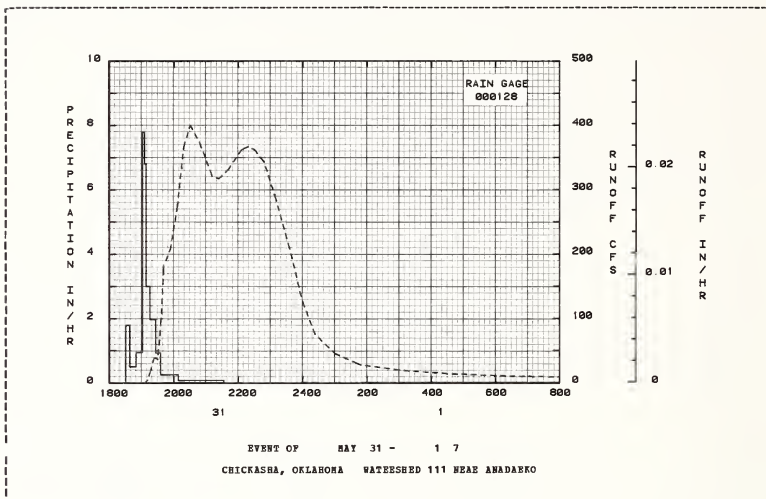
NOTES: To convert mean daily discharge in CFS to I8/DAY, multiply by 0.001431. To convert discharge in inches to AC-F8, multiply by 1.386. STA AV based on 10 yr (1962-71) record period.

1971		SELECTED RUNOFF EVENT					CRICKASHA, OKLAHOMA			WATERSHED 111 BEAR ARADARKO				
ANTICIPATED CONDITIONS		RAINFALL					RUNOFF		ANTICIPATED CONDITIONS		RAINFALL		RUNOFF	
Date	Rainfall	Ennoff	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 MAY 31 - 1 7														
RG 000128														
5-31	0.0	0.000	5-31	1830	0.0	0.0	5-31	1848	0.060	0.0				
				1837	1.8002	0.21		1906	0.410	0.0				
				1840	0.5000	0.31		1911	4.710	0.0				
				1901	0.9500	0.50		1918	24.810	0.0001				
				1905	7.8001	1.02		1923	39.040	0.0003				
WATERSHED CONDITIONS:														
From a revised 1971 survey														
(p. 63, 007-1, this publication); mowed crop - 16%;														
row crop - 3%; alfalfa - 2%; pasture and range - 73%; and miscellaneous - 5%.														
				1908	6.7596	1.36		1930	36.660	0.0006				
				1915	3.0000	1.71		1936	100.930	0.0010				
				1926	1.9538	2.07		1941	183.210	0.0017				
				1935	0.9333	2.21		1953	207.410	0.0040				
				2008	0.2545	2.35		2006	273.428	0.0071				
				2133	0.0706	2.45		2018	367.168	0.0109				
								2030	400.219	0.0155				
								2048	372.148	0.0224				
								2111	321.770	0.0303				
								2123	317.188	0.0341				
								2141	331.050	0.0399				
								2206	362.229	0.0485				
								2218	367.168	0.0528				
								2230	362.229	0.0572				
								2248	342.049	0.0635				
								2311	281.888	0.0706				
								2336	207.410	0.0767				
								2400	124.690	0.0807				
								6- 1 23	75.290	0.0830				
								100	45.000	0.0852				
								148	27.520	0.0869				
								300	19.450	0.0886				
								430	13.890	0.0901				
								600	10.700	0.0912				
								800	8.450	0.0923				

NOTES: To convert runoff in CFS to I8/HR, multiply by 0.00605962.

1971 SELECTED EUNOFF EVENT			CHICKASHA, OKLABORA			WATERSHED 111 NEAR ANADARKO				
ANTECEDENT CONDITIONS			RAINFALL			EUNOFF				
Date	Rainfall	Eunoff	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	-	1	7			
							6- 1	1030	6.520	0.0934
								1300	5.750	0.0983
								1530	4.870	0.0951
								2100	3.930	0.0965
								2400	3.370	0.0972

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00005962.



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--HW1/4 sec. 29, T. 7 N., R. 9 E., 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				
P	1.04	1.56	0.13	0.37	5.14	2.37	2.26	4.51	5.31	4.63	0.75	2.85	30.52				
1971	0	0.015	0.022	0.021	0.011	0.078	0.094	0.002	0.016	0.018	0.153	0.016	0.122	0.586			
STA AV	0.78	1.16	1.40	2.64	4.02	2.76	1.93	2.67	4.17	2.00	2.02	1.01	26.56				
0	0.047	0.058	0.073	0.103	0.146	0.039	0.004	0.004	0.014	0.023	0.028	0.043	0.582				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Rate	Maximum Discharge			Maximum Volume for Selected Time Interval											
		1 Hour	2 Hours	6 Hours	Date	Vol.	Date	Vol.	Date	Vol.	2 Days	8 Days				
1971	6-1	0.023	5-31	0.023	5-31	0.045	5-31	0.112	5-31	0.138	5-31	0.147	5-31	0.153	5-30	0.160

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	1 Hour	2 Hours	6 Hours	5-31	5-6	5-6	5-6	5-6	5-4	5-4	5-4			
1968	0.028	5-9	0.028	5-9	0.054	5-31	0.112	5-6	0.147	5-6	0.173	5-4	0.234	5-4	0.333
1968	1968	1968	1968	1968	1971	1969	1969	1969	1969	1969	1969	1969			

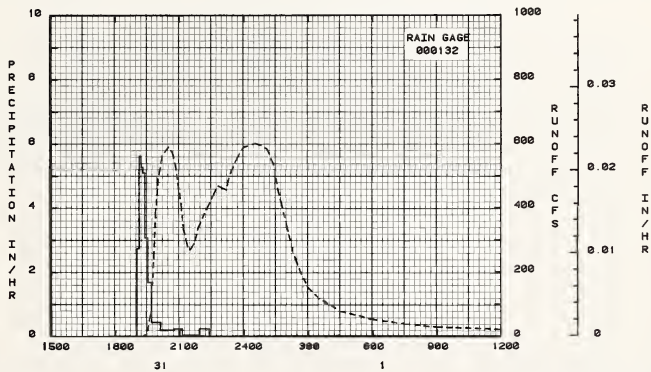
NOTES: Watershed conditions: From a revised 1971 survey (p. 69.007-1, this publication); sowed crop - 15%; row crop - 5%; alfalfa - 2%; pasture and range - 67%; and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.11-9 (topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (composites). 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 National Weather Service records at Chickasha, Okla.

1971 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	0.0	0.0	0.0	0.01	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.07			
2	0.09	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	2.78	0.0	0.63				
3	0.95	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.13				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	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	0.14				
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	0.06	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.08	0.0	0.0	1.50	0.0	0.05	0.0	0.29				
9	0.0	0.0	0.0	0.0	0.73	0.49	0.0	0.0	0.0	0.0	0.0	0.14				
10	0.0	0.0	0.0	0.0	0.01	0.29	0.0	0.02	0.0	0.0	0.0	0.13				
11	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.11	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.22	0.0	0.0	0.0	1.11				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.01				
16	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.07	0.0	0.0	0.06	0.0	1.16	0.01	0.11	0.0				
18	0.0	0.32	0.0	0.0	0.10	0.0	0.0	0.0	1.68	0.46	0.0	0.0				
19	0.0	0.0	0.0	0.11	0.0	0.0	0.05	0.0	0.05	0.33	0.0	0.0				
20	0.0	0.01	0.0	0.04	0.0	0.45	0.0	0.0	0.0	0.06	0.0	0.0				
21	0.0	1.17	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.03	0.0	0.0	0.18	0.0	0.0	0.0	0.56	0.0				
23	0.0	0.0	0.0	0.0	0.94	0.0	0.86	0.0	0.27	0.0	0.02	0.0				
24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.0	0.0	0.0				
25	0.0	0.0	0.02	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	0.70	0.0	0.0	0.0	0.0	0.70	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.01	0.0	0.02	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.01	0.02	0.0	0.0	0.42	0.0	0.18	0.0	0.20				
30	0.0	0.0	0.0	0.0	0.47	0.14	0.0	0.0	0.0	0.05	0.06	0.0				
31	0.0	0.0	0.0	0.0	2.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	1.08	1.56	0.13	0.37	5.14	2.37	2.26	4.51	5.31	4.63	0.75	2.85				
STA AV	0.78	1.16	1.40	2.64	4.02	2.76	1.93	2.67	4.17	2.00	2.02	1.01				

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ABADABEO							
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 - 5 7										
			6-	1	11	594.340			0.0787	
					30	661.510			0.0860	
					48	595.770			0.0929	
					106	581.469			0.0997	
					123	534.840			0.1058	
					136	456.240			0.1099	
					148	395.219			0.1132	
					200	382.198			0.1161	
					218	261.219			0.1196	
					230	223.160			0.1215	
					241	192.490			0.1230	
					300	150.220			0.1251	
					330	117.070			0.1277	
					430	77.300			0.1315	
					600	51.280			0.1352	
					730	37.130			0.1378	
					900	27.670			0.1397	
					1200	20.200			0.1425	
					1500	15.640			0.1446	
					1900	11.200			0.1467	
					2400	8.250			0.1486	
			6-	2	1200	5.280			0.1517	
					2400	4.100			0.1539	
			6-	3	1200	2.920			0.1555	
					2400	2.400			0.1567	
					6- 4	1200	1.880		0.1577	
					2400	1.555			0.1585	
			6-	5	1200	1.230			0.1591	
					2400	1.025			0.1596	

NOTES: To convert runoff in cfs to in/hr, multiply by 0.00003865.



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 River; Red River Basin. GAGING STATION—RE1/4 sec. 29, T. 7 N., E. 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
1971	P 0.69	1.78	0.09	0.41	4.70	2.98	2.49	3.65	5.00	4.18	0.56	2.85	29.38
	Q 0.000	0.005	0.000	0.000	0.014	0.170	0.026	0.022	0.034	0.601	0.013	0.020	0.904
STA AV	P 0.68	1.12	1.35	2.56	3.60	2.78	1.84	2.70	4.05	1.73	1.91	1.00	25.33
	Q 0.003	0.004	0.005	0.056	0.077	0.040	0.012	0.042	0.030	0.066	0.027	0.006	0.368

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
	Rate	Vol.	Rate	Vol.	Rate	Vol.	Rate	Vol.	Rate	Vol.	Rate	Vol.	Rate	Vol.		
1971	10-3	0.036	10-3	0.035	10-3	0.068	10-3	0.170	10-3	0.301	10-3	0.463	10-2	0.552	10-2	0.575

MAXIMUMS FOR PERIOD OF RECORD															
8-28	0.060	8-28	0.053	8-28	0.096	8-28	0.204	10-3	0.301	10-3	0.463	10-2	0.552	10-2	0.575
1965		1965		1965		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: From a revised 1971 survey (p. 69.007-1, this publication); sowed crop - 30%; row crop - 24; alfalfa - 9%; pasture and range - 48%; and miscellaneous - 11%. For maps of watersheds, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.12-4 (Topography) and 1965, USDA Misc. Pub. 1216, P. 69.7-21 (Composite). 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 National Weather Service records at Chickasha, Okla.

1971 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	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.02	0.05
2	0.07	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.72	0.0	0.60
3	0.62	0.0	0.0	0.0	0.01	0.37	0.0	0.0	0.0	0.0	0.03	0.0	0.08
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.09
6	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
7	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
8	0.0	0.0	0.0	0.0	0.02	0.0	0.0	1.18	0.0	0.04	0.0	0.0	0.48
9	0.0	0.0	0.0	0.0	0.67	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.14
10	0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.01	0.0	0.0	0.0	0.0	0.15
11	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
12	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.12	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	0.19	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	1.74	0.0	0.0	0.0	0.0	1.04
15	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
16	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
17	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.25	0.01	0.03	0.0	0.0
18	0.0	0.52	0.0	0.0	0.07	0.0	0.0	0.0	1.56	0.35	0.0	0.0	0.0
19	0.0	0.0	0.0	0.13	0.0	0.0	0.03	0.0	0.06	0.37	0.0	0.0	0.0
20	0.0	0.01	0.0	0.03	0.0	0.67	0.0	0.0	0.0	0.07	0.0	0.0	0.0
21	0.0	1.20	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.02	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.44	0.0
23	0.0	0.0	0.0	0.0	0.52	0.0	1.08	0.0	0.35	0.0	0.02	0.0	0.0
24	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.77	0.0	0.0	0.0	0.0
25	0.0	0.01	0.04	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	0.01	0.59	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0
27	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
28	0.0	0.02	0.0	0.02	0.0	0.0	0.96	0.06	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.02	0.03	0.0	0.0	0.27	0.0	0.06	0.0	0.22	0.0
30	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.02	0.05	0.0	0.0
31	0.0	0.0	0.0	0.0	2.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.69	1.78	0.09	0.41	4.70	2.98	2.49	3.65	5.00	4.18	0.56	2.85	
STA AV	0.68	1.12	1.35	2.56	3.60	2.78	1.84	2.70	4.05	1.73	1.91	1.00	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 13 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971		SEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA		WATERSHED #11 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	82.88	2.91	0.0	0.0	0.94	0.87	0.26
2	0.0	0.0	0.02	0.0	0.0	28.95	2.49	0.0	0.0	9.89	0.79	0.44
3	0.49	0.0	0.0	0.0	0.0	33.82	2.41	0.0	0.0	646.85	0.78	0.92
4	0.0	0.0	0.0	0.0	0.0	17.82	2.31	0.0	0.0	123.70	0.78	0.44
5	0.0	0.0	0.0	0.0	0.0	3.12	2.19	0.0	0.0	13.66	0.77	0.39
6	0.0	0.0	0.0	0.0	0.0	3.77	2.01	0.01	0.0	5.34	0.73	0.27
7	0.0	0.0	0.0	0.0	0.0	5.45	1.89	0.0	0.0	2.52	0.69	0.25
8	0.0	0.0	0.0	0.0	0.0	3.67	1.73	6.19	0.0	2.17	0.69	2.32
9	0.0	0.0	0.0	0.0	1.41	3.81	1.61	2.15	0.0	1.91	0.72	1.56
10	0.0	0.0	0.0	0.0	0.18	3.17	1.39	0.92	0.0	1.88	0.68	1.95
11	0.0	0.0	0.0	0.0	0.12	3.18	1.23	0.37	0.0	1.89	0.64	0.78
12	0.0	0.0	0.0	0.0	0.10	3.24	2.84	0.16	0.0	1.91	0.64	0.50
13	0.0	0.0	0.0	0.0	0.17	2.88	3.73	1.01	0.0	1.77	0.63	0.36
14	0.0	0.0	0.0	0.0	0.94	1.70	1.81	2.88	0.0	1.61	0.60	2.49
15	0.0	0.0	0.0	0.0	0.46	1.82	0.81	8.28	0.0	1.52	0.56	1.95
16	0.0	0.0	0.0	0.07	0.23	1.47	0.33	4.55	0.0	1.45	0.56	1.06
17	0.0	0.0	0.0	0.0 T	0.10	1.38	0.14	2.04	1.98	1.38	0.56	0.94
18	0.0	1.62	0.0	0.0	0.05	1.30	0.03	0.90	5.39	2.01	0.56	0.92
19	0.0	0.00	0.0	0.44	0.01	1.16	0.01	0.39	3.23	2.39	0.52	0.87
20	0.0	0.0	0.0	0.04	0.00	4.22	0.00	0.16	2.09	1.93	0.51	0.79
21	0.0	5.10	0.0	0.0	0.0	11.84	0.0	0.07	1.10	1.36	0.54	0.78
22	0.0	0.17	0.0	0.0	0.0	1.99	0.0	0.03	0.57	1.30	0.82	0.78
23	0.0	0.01	0.0	0.0	0.80	1.90	1.30	0.01	0.37	1.25	0.53	0.77
24	0.0	0.00	0.0	0.0	0.0	1.82	0.00	0.01	9.25	1.24	0.43	0.73
25	0.0	0.0	0.03	0.0	0.0	1.81	0.0	0.00	13.92	1.22	0.42	0.68
26	0.0	0.0	0.0	0.0	2.02	1.80	0.0	0.0	5.23	2.25	0.39	0.64
27	0.0	0.0	0.0	0.0	1.93	1.72	0.0	0.0	1.53	1.31	0.33	0.61
28	0.0	0.0	0.0	0.0	0.16	1.70	3.57	0.0	1.04	1.05	0.30	0.60
29	0.0	0.0	0.0	0.0	0.08	2.13	0.02	0.0	1.03	0.99	0.26	1.02
30	0.0	0.0	0.0	0.0	0.43	2.72	0.01	0.0	1.03	0.94	0.25	0.56
31	0.0	0.0	0.0	0.0	11.02	0.00	0.0	0.0	0.92	0.92	0.25	0.25
SEAN	0.016	0.247	0.002	0.019	0.623	7.911	1.419	0.573	1.592	27.726	0.585	0.883
INCHES	0.000	0.005	0.000	0.000	0.014	0.170	0.026	0.022	0.034	0.113	0.020	0.020
STA #1	0.003	0.004	0.005	0.056	0.077	0.040	0.012	0.042	0.030	0.066	0.027	0.006

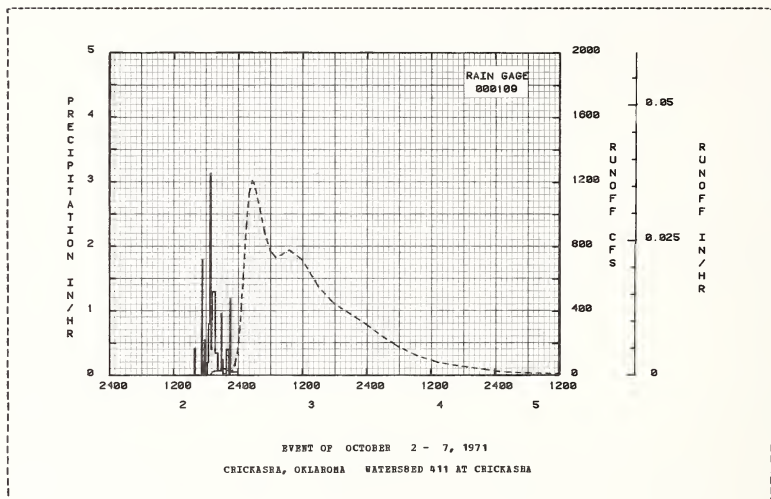
NOTES: To convert sean daily discharge in CFS to I#/DAY, multiply by 0.0007148. To convert discharge in inches to AC-FT, multiply by 2.775. STA #1 based on 10 yr (1962-71) record period.

1971		SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA		WATERSHED #11 AT CHICKASHA				
PRECEDENT CONDITIONS		RAINFALL			RUNOFF		PRECEDENT CONDITIONS		RAINFALL			RUNOFF	
Date	Rainfall (inches)	Ensoff (inches)	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Rate	Acc.	
Mo-Day			Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 2 - 7, 1971													
10-2	RG 000109		10-2	RG 000109			10-2	1618	0.940	0.0			
	0.0	0.000		1550	0.0	0.0		1641	1.680	0.0			
				1715	0.0	0.07		1723	2.130	0.0			
				1719	0.7500	0.12		1736	5.030	0.0			
				1721	1.8004	0.18		1800	9.020	0.0001			
WATERSHED CONDITIONS:													
From a revised 1971 survey													
(p. 69,007-1, this publication); sowed crop - 30%;													
row crop - 2%; alfalfa -													
9%; pasture and range -													
48%; miscellaneous - 11%.													
				1727	0.2000	0.20		1811	9.260	0.0001			
				1743	0.0	0.20		1853	7.230	0.0003			
				1755	0.5500	0.31		1906	12.270	0.0004			
				1820	0.0	0.31		1918	23.480	0.0005			
				1829	0.2000	0.34		1941	28.080	0.0008			
				1844	0.8000	0.54		2000	28.080	0.0011			
				1853	3.1331	1.01		2041	29.750	0.0017			
				1859	0.7001	1.08		2118	42.720	0.0024			
				1905	0.4000	1.12		2400	174.800	0.0065			
				1914	0.8667	1.25		2248	25.960	0.0038			
				1945	1.2967	1.92		2300	30.900	0.0040			
				2016	0.3484	2.10		2323	62.140	0.0045			
				2053	0.0649	2.14		2341	106.880	0.0052			
				2058	0.9601	2.22		2400	174.800	0.0065			
				2115	0.2471	2.29	10-3	18	277.500	0.0085			
				2139	0.0250	2.30		36	417.178	0.0116			
				2151	0.0	2.30		100	635.560	0.0179			
				2219	0.4071	2.49		130	925.320	0.0295			
				2233	0.0	2.49		200	1130.938	0.0448			
				2237	1.2000	2.57		236	1208.630	0.0656			
				10-3	2	0.0494	2.64	300	1185.080	0.0799			
								400	1035.120	0.1130			
								500	873.658	0.1414			
								600	770.750	0.1659			
								700	731.010	0.1883			

NOTES: To convert runoff in CFS to I#/HR, multiply by 0.00002978.

1971 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED #11 AT CHICKASAW								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 2 - 7, 1971 (CONTINUED)											
							10- 3	930	776.560	0.2888	
								1200	718.438	0.2999	
								1500	549.350	0.3564	
								1800	443.898	0.4008	
								2200	360.438	0.4487	
							10- 4	2400	315.500	0.4688	
								300	282.870	0.4937	
								600	178.930	0.5125	
								930	121.690	0.5282	
								1330	81.190	0.5403	
								1800	55.670	0.5495	
								2300	35.170	0.5563	
								2400	28.080	0.5572	
							10- 5	100	23.960	0.5580	
								300	19.860	0.5593	
								600	16.290	0.5609	
								1200	12.270	0.5635	
								2400	7.430	0.5670	
							10- 6	1200	5.030	0.5692	
								2400	3.865	0.5708	
							10- 7	1200	2.700	0.5720	
								2400	2.415	0.5729	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002978.



CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLE

LOCATION: West Ritter Creek Watershed above U.S. Highway 62 bridge, East of Chickasha in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 29, T. 7 N., R. 6 W., lat. 35 deg. 03 min., long. 97 deg. 51 min., 4 miles East of Chickasha, Okla., at U.S. highway 62 bridge.

AREA: 38020.00 acres 59.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (Inches)		CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLE											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.66	2.01	0.05	0.87	4.14	5.96	2.34	2.49	4.83	5.19	0.46	2.85	31.85
Q	0.019	0.059	0.020	0.019	0.015	0.857	0.023	0.013	0.152	0.894	0.023	0.155	2.249
STA AV P	0.72	1.18	1.64	2.81	3.32	3.17	1.99	3.31	3.97	1.86	1.88	1.09	26.94
Q	0.039	0.046	0.080	0.297	0.225	0.218	0.023	0.154	0.194	0.120	0.079	0.057	1.531

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (Inches) FOR SELECTED TIME INTERVALS																		
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.	Date	Vol.	Date	Vol.
1971 10-3	0.080	10-3	0.079	10-3	0.159	10-2	0.462	10-2	0.729	10-2	0.796	10-2	0.832	10-2	0.859			

MAXIMUMS FOR PERIOD OF RECORD															
Discharge Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days								
1967 4-12	0.086	4-12	0.086	4-12	0.169	10-2	0.462	10-2	0.729	10-2	0.796	10-2	0.832	4-9	0.896
1967 1967															

NOTES: Watershed conditions: From a revised 1971 survey (69.007-1, this publication); sowed crop - 22%; row crop - 3%; alfalfa - 5%; pasture and range - 61%; and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1276, p. 69.13-11 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Oct. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971	DAILY PRECIPITATION (Inches)												CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLE										
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	0.75	0.0	0.0	0.0	0.03	0.04											
2	0.08	0.0	0.03	0.0	0.0	0.89	0.0	0.0	0.0	3.51	0.0	0.51											
3	0.58	0.0	0.0	0.0	0.02	1.76	0.0	0.0	0.0	0.04	0.0	0.09											
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	0.13											
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.11	0.0	0.0	0.0											
7	0.0	0.01	0.0	0.0	0.0	1.79	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.66	0.0	0.08	0.01	0.57											
9	0.0	0.0	0.0	0.0	0.62	0.28	0.14	0.0	0.0	0.0	0.0	0.09											
10	0.0	0.0	0.0	0.0	0.02	0.29	0.0	0.0	0.0	0.0	0.0	0.18											
11	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.15	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.25	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.97											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.01											
16	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	1.26	0.02	0.04	0.0											
18	0.0	0.53	0.0	0.0	0.08	0.0	0.0	0.0	1.49	0.29	0.0	0.0											
19	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.07	0.49	0.0	0.0	0.0											
20	0.0	0.0	0.0	0.05	0.0	0.85	0.0	0.0	0.08	0.0	0.0	0.0											
21	0.0	1.39	0.0	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.20											
23	0.0	0.0	0.0	0.0	0.59	0.0	0.39	0.0	0.22	0.0	0.04	0.0											
24	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	1.76	0.0	0.0	0.0											
25	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.42	1.08	0.0	0.0	0.0	0.62	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.0	0.0	0.04	0.0	0.0	0.94	0.03	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.0	0.07	0.0	0.05	0.0	0.01	0.0	0.02	0.0	0.26											
30	0.0	0.0	0.0	0.0	0.24	0.17	0.0	0.0	0.04	0.04	0.0	0.0											
31	0.0	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
TOTAL	0.66	2.01	0.05	0.87	4.14	5.96	2.34	2.49	4.83	5.19	0.46	2.85											
STA AV	0.72	1.18	1.64	2.81	3.32	3.17	1.99	3.31	3.97	1.86	1.88	1.09											

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 15 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLE					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.94	0.76	1.41	0.59	0.81	113.01	3.02	0.02	0.0	0.18	1.16	1.28
2	1.11	0.75	1.58	0.55	0.60	5.93	25.53	0.00	0.0	328.27	1.08	1.77
3	1.74	0.78	1.50	0.58	0.47	491.05	3.47	0.0	0.0	968.32	1.06	2.77
4	1.18	0.98	1.55	0.60	0.44	36.91	1.01	0.0	0.0	42.97	1.02	2.79
5	0.79	1.06	1.48	0.63	0.38	10.53	0.48	0.0	0.0	14.11	1.06	2.46
6	0.75	1.03	1.37	0.64	0.33	4.61	0.21	0.0	0.0	7.70	1.05	2.30
7	0.77	0.79	1.16	0.64	0.27	2.62	0.10	0.0	0.0	5.14	0.96	2.08
8	0.93	0.76	1.04	0.65	0.23	516.61	0.04	0.0	0.0	3.99	1.01	4.44
9	1.07	0.86	1.13	0.69	0.52	62.65	0.02	0.0	0.0	6.61	1.13	21.77
10	1.21	0.94	1.16	0.74	1.13	22.35	0.02	0.0	0.0	3.50	1.16	6.53
11	1.23	1.04	1.21	0.66	0.78	20.08	0.00	0.0	0.0	2.82	1.23	4.60
12	1.23	0.98	1.15	0.43	0.43	23.11	0.0	0.0	0.0	2.93	1.30	2.76
13	1.23	0.78	1.05	0.28	0.28	9.45	0.0	0.0	0.0	2.27	1.31	2.23
14	1.23	0.75	0.83	0.24	0.21	6.48	0.0	14.16	0.0	2.00	1.31	9.68
15	1.22	0.75	0.70	0.30	0.17	4.12	0.0	5.19	0.0	1.92	1.34	113.31
16	1.16	0.75	0.67	0.37	0.15	2.84	0.0	0.90	0.0	1.61	1.48	12.55
17	1.14	0.76	0.79	0.59	0.13	1.77	0.0	0.38	0.0	1.53	1.19	6.64
18	1.06	0.82	0.80	0.54	0.10	0.53	0.0	0.16	56.02	1.75	1.06	4.87
19	0.88	0.81	0.75	0.46	0.08	0.84	0.0	0.05	4.71	2.29	0.96	4.10
20	0.77	2.27	0.70	0.44	0.05	1.06	0.0	0.02	0.96	4.18	1.05	3.82
21	0.80	36.64	0.72	0.38	0.03	28.07	0.0	0.00	0.41	3.00	1.07	3.39
22	0.81	13.95	0.90	0.40	0.03	1.34	0.0	0.0	0.23	1.74	1.13	2.99
23	0.81	5.86	0.93	0.39	0.06	0.83	0.0	0.0	0.15	1.62	1.52	2.84
24	0.81	3.44	0.98	0.46	0.07	0.59	0.0	0.0	123.97	1.86	1.64	2.84
25	0.81	2.92	0.98	0.40	0.02	0.36	0.0	0.0	50.07	1.54	1.57	2.95
26	0.81	2.41	0.93	0.28	0.56	0.27	0.0	0.0	3.78	2.31	1.48	3.07
27	0.80	1.80	0.88	13.01	7.05	0.22	0.0	0.0	1.21	7.50	1.38	3.06
28	0.76	1.44	0.86	2.26	1.48	0.20	2.19	0.0	0.64	3.44	1.25	2.87
29	0.76	0.80	1.24	0.39	0.25	0.31	0.0	0.42	1.88	1.23	3.37	3.37
30	0.80	0.70	1.05	0.19	0.19	0.47	0.14	0.0	0.48	1.48	1.23	6.59
31	0.80	0.64			7.18		0.07	0.0		1.31		2.31
MEAN	0.980	3.353	1.009	1.016	0.793	45.621	1.181	0.673	8.096	46.087	1.215	8.004
INCHES	0.019	0.059	0.020	0.019	0.015	0.857	0.023	0.013	0.152	0.894	0.023	0.155
STA AV	0.039	0.046	0.080	0.297	0.225	0.218	0.023	0.154	0.194	0.120	0.079	0.057

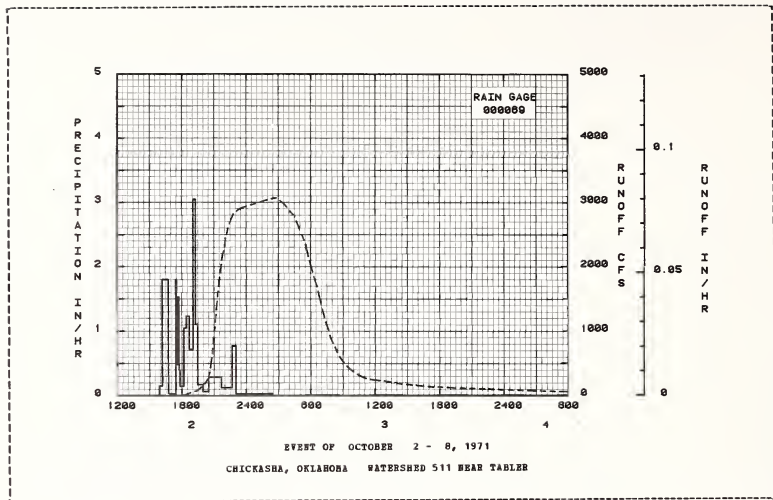
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0006260. To convert discharge in inches to AC-FE, multiply by 3,168. STA AV based on 10 yr (1962-71) record period.

1971		SELECTED RANOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLE					
ANTECEDENT CONDITIONS		SAINFALL					BUBOFF					
Date	Sainfall	Ranoff	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 2 - 8, 1971												
10-2	RG 000069 0.0	0.000	10-2	RG 000069	0.0	0.0	10-2	1600	0.170	0.0		
					1555	0.1500	0.04	1730	0.150	0.0		
					1644	1.8000	1.03	1800	0.450	0.0		
					1726	0.0286	1.05	1811	2.820	0.0		
					1730	1.7956	1.17	1823	16.870	0.0001		
WATERSHED CONDITIONS:					1735	0.4800	1.21	1888	41.170	0.0004		
From a revised 1971 survey					1744	1.5334	1.44	1930	81.400	0.0015		
(p. 69,007-1, this publi-					1750	0.4000	1.48	1988	129.900	0.0023		
cation); sowed crop - 22%;					1811	0.1429	1.53	2011	195.330	0.0039		
row crop - 3%; alfalfa -					1823	1.0499	1.74	2023	248.030	0.0051		
5%; pasture and range -												
6%; and miscellaneous -												
9%.					1842	1.2316	2.13	2030	291.500	0.0059		
					1903	0.7143	2.38	2036	357.100	0.0067		
					1915	3.0488	2.99	2041	437.070	0.0075		
					1928	1.1077	3.23	2048	580.110	0.0091		
					1957	0.1655	3.31	2053	729.898	0.0106		
					2029	0.0563	3.34	2100	905.628	0.0131		
					2141	0.2833	3.68	2106	1063.688	0.0156		
					2242	0.1180	3.80	2111	1255.178	0.0181		
					2303	0.7714	4.07	2118	1459.418	0.0222		
					10-3	228	0.0205	4.14	2123	1623.979	0.0257	
								2130	1755.408	0.0309		
								2136	1918.590	0.0356		
								2141	2030.648	0.0398		
								2148	2168.520	0.0442		
								2200	3225.030	0.0581		
								2206	2443.026	0.0642		
								2218	2597.765	0.0773		
								2230	2705.206	0.0913		
								2248	2820.887	0.1127		
								2318	2895.827	0.1500		

NOTES: To convert ranoff in CFS to IN/HR, multiply by 0.0002608.

1971 SELECTED RUNOFF EVENT			CEICKASSA, OKLAHOMA				WATERSEED 511 NEAR TARTER			
ATFECDEDEF CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Fainfall (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 2 - 8, 1971 (CONTINUED)										
							10- 2	2400	2941.837	0.2035
							10- 3	130	3018.069	0.3201
								230	3068.205	0.3995
								248	3071.559	0.4233
								330	2981.508	0.4788
								430	2778.885	0.5539
								500	2575.865	0.5888
								523	2412.539	0.6137
								536	2295.158	0.6269
								548	2159.800	0.6385
								600	2022.148	0.6496
								611	1915.820	0.6588
								623	1795.648	0.6686
								636	1689.168	0.6784
								648	1549.668	0.6868
								700	1410.229	0.6946
								706	1337.760	0.6981
								718	1208.969	0.7047
								730	1089.938	0.7108
								741	999.229	0.7157
								753	889.388	0.7207
								806	806.050	0.7255
								818	743.010	0.7295
								830	662.188	0.7332
								848	573.330	0.7380
								906	510.550	0.7423
								930	434.050	0.7473
								1000	361.250	0.7525
								1030	309.688	0.7569
								1111	260.148	0.7620
								1200	232.610	0.7673
								1300	214.200	0.7731
								1430	173.630	0.7807
								1630	139.110	0.7889
								1930	109.090	0.7986
								2400	83.360	0.8099
							10- 4	300	67.590	0.8158
								600	54.540	0.8206
								900	45.840	0.8245
								1200	39.300	0.8279
								1800	26.910	0.8331
								2400	20.470	0.8368
							10- 5	1200	13.360	0.8421
								2400	9.260	0.8456
							10- 6	1200	7.630	0.8482
								2400	6.285	0.8504
							10- 7	1200	4.940	0.8522
								2400	4.400	0.8537
							10- 8	1200	3.860	0.8550
								2400	3.860	0.8562

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.



CHICKASAW, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Toukawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--RE/4 sec. 16, 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)													CHICKASAW, OKLAHOMA		WATERSHED 110 NEAR ANADARKO			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1971	P	0.94	1.31	0.05	0.42	5.15	2.71	2.06	5.40	4.77	4.29	0.69	2.60	30.39				
	Q	0.0	0.0	0.0	0.0	0.003	0.001	0.0	0.000	0.001	0.004	0.0	0.001	0.010				
STA AV	P	0.65	1.05	1.33	2.53	3.70	2.98	1.82	2.75	4.04	1.78	1.81	0.92	25.35				
	Q	0.0	0.002	0.004	0.024	0.061	0.005	0.0	0.001	0.000	0.000	0.003	0.000	0.099				

ANNUAL MAXIMUM DISCHARGE (10/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
1971	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.
1971	5-31	0.001	5-31	0.001	5-31	0.002	5-31	0.003	5-31	0.003	5-30	0.003	5-24	0.003

MAXIMUMS FOR PERIOD OF RECORD															
1964	1968	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969			
5-11	0.004	5-11	0.004	5-11	0.007	5-11	0.021	5-11	0.038	5-6	0.070	5-6	0.127	5-8	0.278

NOTES: Watershed conditions: From a revised 1971 survey (p. 69.007-1, this publication) sowed crop - 30%; row crop - 5%; alfalfa - 11%; pasture and range - 29%; and miscellaneous - 25%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, OSDA Misc. Pub. 1070, p. 69.10-4 (topography) and 1965, OSDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasaw, Okla.

1971	DAILY PRECIPITATION (inches)												CHICKASAW, OKLAHOMA		WATERSHED 110 NEAR ANADARKO	
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	0.14	0.0	0.0	0.0	0.0	0.0	0.06			
2	0.12	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	1.68	0.0	0.0	0.54			
3	0.82	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	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	0.17			
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	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.04	0.0	0.0	1.57	0.0	0.03	0.0	0.0	0.16			
9	0.0	0.0	0.0	0.0	0.73	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.11			
10	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.02	0.0	0.0	0.0	0.0	0.13			
11	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			
12	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.10	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	0.49	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	2.08	0.0	0.0	0.0	1.11	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.01			
16	0.0	0.0	0.0	0.03	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	0.07	0.0	0.0	0.18	0.0	1.10	0.10	0.03	0.0	0.0			
18	0.0	0.26	0.0	0.0	0.10	0.0	0.0	0.0	1.41	0.66	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.22	0.0	0.0	0.01	0.0	0.04	0.22	0.0	0.0	0.0			
20	0.0	0.02	0.0	0.02	0.0	0.37	0.0	0.0	0.0	0.03	0.0	0.0	0.0			
21	0.0	0.98	0.0	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.02	0.0	0.0	0.19	0.03	0.0	0.0	0.57	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.45	0.0	0.40	0.0	0.18	0.0	0.02	0.0	0.0			
24	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.02	1.71	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	0.76	0.0	0.0	0.0	0.0	1.18	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	0.0	0.0			
28	0.0	0.02	0.0	0.04	0.0	0.0	1.12	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.02	0.03	0.0	0.0	1.02	0.0	0.0	0.0	0.20	0.0			
30	0.0	0.0	0.0	0.0	0.48	0.36	0.0	0.0	0.0	0.09	0.07	0.0	0.0			
31	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	0.94	1.31	0.05	0.42	5.15	2.71	2.06	5.40	4.77	4.29	0.69	2.60	30.39			
STA AV	0.65	1.05	1.33	2.53	3.70	2.98	1.82	2.75	4.04	1.78	1.81	0.92	25.35			

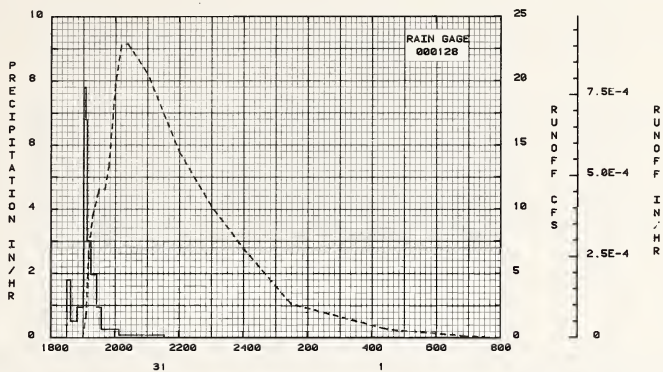
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA		WATSESED 110 NEAR ANADARKO			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.536	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	1.656	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.206	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	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	0.240	0.0	0.0	0.0	1.107
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.065
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	0.134	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	0.719	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	1.022	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.434	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	0.066	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	2.945	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0950	0.0179	0.0	0.0099	0.0240	0.1452	0.0	0.0378
INCHES	0.0	0.0	0.0	0.0	0.003	0.001	0.0	0.000	0.001	0.004	0.0	0.001
STA AV	0.0	0.002	0.004	0.024	0.061	0.005	0.0	0.001	0.000	0.000	0.003	0.000

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.009513. To convert discharge in inches to AC-FT, multiply by 2.085. STA AV based on 9 yr (1963-71) record period.

1971		SELECTED RUNOFF EVENT					CHICKASAW, OKLAHOMA		WATSESED 110 NEAR ANADARKO			
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 MAY 31 - 1 7												
RG 000128			RG 000128				RG 000128					
5-31	0.0	0.0	5-31	1830	0.0	0.0	5-31	1900	0.0	0.0		
				1837	1.8002	0.21		1906	1.650	0.0		
				1849	0.5000	0.31		1911	6.700	0.0		
				1901	0.9500	0.50		1918	9.500	0.0		
				1905	7.8001	1.02		1930	11.590	0.0001		
WATSESED CONDITIONS:			1908		6.7996	1.36		1941	11.570	0.0002		
From a revised 1971 survey			1915		3.0000	1.71		1948	13.300	0.0003		
(p. 69, 007-1, this publication); sowed crop - 30%;			1926		1.9638	2.07		2000	19.750	0.0004		
row crop - 5%; alfalfa -			1935		0.9333	2.21		2011	22.800	0.0006		
11%; pasture and range -			2008		0.2545	2.35		2023	22.900	0.0008		
25% and miscellaneous -			2133		0.0706	2.45		2100	20.570	0.0013		
								2200	14.450	0.0020		
								2300	10.240	0.0025		
								2400	6.910	0.0028		
								6- 1	130	2.590	0.0031	
								830	0.610	0.0033		
								700	0.090	0.0033		
								830	0.0	0.0033		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000039638.



EVENT OF MAY 31 - 1977
 CHEICKASBA, OKLAHOMA WATERSHED 110 NEAR ABADARKO

CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEBAH

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—SK1/4 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			WATERSHED 522 NEAR MINNEBAH		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1971	P 0.49	1.74	0.07	0.81	4.90	2.59	2.41	4.77	5.42	5.03	0.68	2.79	31.30					
	Q 0.047	0.062	0.044	0.025	0.037	0.138	0.010	0.101	0.106	0.432	0.050	0.112	1.163					
STA AV	P 0.82	1.23	1.52	2.51	3.98	2.72	1.88	2.63	4.29	2.09	1.93	1.02	26.61					
	Q 0.067	0.096	0.138	0.242	0.131	0.030	0.049	0.073	0.083	0.087	0.062	1.133						
ANNUAL MAXIMUM DISCHARGE (In/hr) AND MAXIMUM VOLUMES OF RUNOFF (Inches) FOR SELECTED TIME INTERVALS																		
1971	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.		
1971	10-3	0.029	10-3	0.029	10-3	0.057	10-3	0.149	10-2	0.250	10-2	0.299	10-2	0.333	10-2	0.378		
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	5-3	0.536		
	1964		1964		1964		1964		1964		1964		1964		1969			

NOTES: Watershed conditions: From a revised 1971 survey (p. 69.007-1, this publication); sowed crop - 15%; row crop - 1%; alfalfa - 3%; pasture and range - 65%; 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 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). 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 National Weather Service records at Chickasha, Okla.

1971	DAILY PRECIPITATION (Inches)												CHICKASHA, OKLAHOMA			WATERSHED 522 NEAR MINNEBAH		
	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	0.13	0.0	0.0	0.0	0.01	0.05					
2	0.04	0.0	0.07	0.0	0.0	0.0	0.0	0.02	0.0	0.0	3.21	0.0	0.61					
3	0.45	0.0	0.0	0.0	0.01	0.06	0.0	0.0	0.0	0.11	0.0	0.0	0.07					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	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	0.15					
6	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					
7	0.0	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0					
8	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.99	0.0	0.0	10.0	0.0	0.43					
9	0.0	0.0	0.0	0.0	0.73	0.48	0.01	0.0	0.0	0.0	0.0	0.0	0.17					
10	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.12	0.0	0.0	0.0	0.0	0.16					
11	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0					
12	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.19	0.0	0.0	0.0	0.0					
13	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.46	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	2.29	0.0	0.0	0.0	0.87					
15	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					
16	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					
17	0.0	0.0	0.0	0.04	0.0	0.0	0.01	0.0	1.38	0.04	0.06	0.0	0.0					
18	0.0	0.45	0.0	0.0	0.10	0.0	0.0	0.0	1.80	0.33	0.0	0.0	0.0					
19	0.0	0.0	0.0	0.09	0.0	0.0	0.01	0.0	0.10	0.55	0.0	0.0	0.0					
20	0.0	0.02	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	1.19	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
22	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.27	0.0	0.02	0.0	0.51	0.0					
23	0.0	0.0	0.0	0.0	0.67	0.0	1.20	0.03	0.28	0.0	0.01	0.0	0.0					
24	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.04	1.78	0.0	0.0	0.0	0.0					
25	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.03	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.01	0.58	0.0	0.01	0.0	0.0	0.53	0.0	0.0	0.0					
27	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0					
28	0.0	0.02	0.0	0.03	0.0	0.0	0.75	0.01	0.0	0.0	0.0	0.0	0.0					
29	0.0	0.0	0.0	0.02	0.03	0.0	0.0	0.26	0.0	0.06	0.0	0.0	0.28					
30	0.0	0.0	0.0	0.0	0.43	0.03	0.0	0.0	0.0	0.03	0.09	0.0	0.0					
31	0.0	0.0	0.0	0.0	2.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
TOTAL	0.49	1.74	0.07	0.81	4.90	2.59	2.41	4.77	5.42	5.03	0.68	2.79						
STA AV	0.82	1.23	1.52	2.51	3.98	2.72	1.88	2.63	4.29	2.09	1.93	1.02						

NOTES: For daily air temperatures in the vicinity, see table for watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971				CHICKASHA, OKLAHOMA				WATERSHED 522 NEAR HINNEKAS				
BRAN DAILY DISCHARGE (cfs)				CHICKASHA, OKLAHOMA				WATERSHED 522 NEAR HINNEKAS				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.6	8.0	9.2	6.1	2.2	530.4	0.7	1.7	3.3	5.0	12.8	7.8
2	7.9	7.4	8.6	5.7	4.9	34.8	0.7	1.0	3.0	304.2	14.1	9.4
3	11.3	7.7	7.6	6.0	6.3	19.2	0.4	0.5	2.3	1414.1	12.1	12.4
4	9.8	8.7	12.7	6.4	3.3	13.3	0.1	0.2	1.6	172.7	10.8	14.5
5	7.9	8.7	13.0	7.1	2.7	9.3	0.0	0.0	1.2	92.6	9.6	14.9
6	7.6	7.3	11.3	6.8	2.1	5.9	0.0	0.1	1.0	52.3	8.3	15.3
7	7.6	6.1	9.9	6.3	1.6	4.3	0.0	0.2	0.6	36.4	7.4	14.8
8	7.6	5.5	9.4	5.0	1.4	3.3	0.0	0.4	0.4	26.4	8.1	15.8
9	8.4	7.1	9.8	4.0	4.1	10.9	0.0	0.0	21.8	0.5	21.4	24.6
10	13.4	14.3	10.0	3.9	22.0	12.1	0.0	4.2	0.5	18.1	7.5	23.9
11	16.3	12.7	9.1	3.6	9.7	6.1	0.0	1.3	0.5	15.4	6.5	19.9
12	11.5	9.9	8.9	3.6	5.3	35.3	0.0	0.9	0.4	12.8	8.7	15.8
13	10.2	8.2	8.7	3.8	4.0	15.8	0.0	2.1	0.1	11.9	8.7	13.8
14	9.7	7.6	7.7	3.6	3.5	6.3	0.0	337.9	0.1	11.2	8.4	21.7
15	8.5	7.6	7.3	3.5	2.5	3.3	0.0	74.8	0.1	10.6	9.1	120.4
16	7.7	7.3	7.4	4.8	1.6	2.1	0.0	24.7	0.1	11.5	9.3	33.6
17	7.6	7.2	6.8	6.7	0.9	1.4	0.0	12.8	2.2	10.4	10.1	21.9
18	7.6	12.0	5.8	6.1	1.0	1.2	0.0	8.2	172.4	10.1	10.3	19.0
19	7.3	17.9	5.6	6.1	1.1	0.8	0.0	6.2	25.9	12.7	10.6	19.1
20	7.3	12.3	5.6	6.9	0.8	0.8	0.0	5.4	9.9	15.6	9.8	18.6
21	7.5	47.2	5.4	6.3	0.4	20.5	0.0	5.2	6.0	12.7	9.7	18.0
22	7.3	36.8	5.7	4.7	0.4	14.8	0.0	4.3	5.3	10.4	9.7	17.3
23	7.1	19.8	6.6	3.6	4.9	7.4	0.0	3.4	4.9	9.7	9.8	16.7
24	6.8	15.0	6.1	2.8	4.3	3.8	12.0	3.2	138.1	9.2	10.1	15.9
25	6.4	12.7	6.4	2.3	5.9	4.1	0.0	3.7	165.0	9.8	9.7	14.9
26	6.4	10.8	6.4	3.4	1.6	1.6	1.4	4.5	19.3	11.7	9.1	14.7
27	6.4	9.4	6.4	2.1	7.1	1.1	0.4	3.0	10.4	11.1	8.3	14.3
28	7.0	9.0	6.8	1.1	0.5	0.8	8.5	2.8	7.6	18.4	7.6	14.1
29	8.7	7.0	6.8	1.4	0.1	0.8	16.0	4.5	6.1	16.9	6.9	14.8
30	9.2	7.0	6.8	2.9	0.1	0.7	5.5	5.5	5.4	16.1	6.9	20.7
31	8.8	6.7	6.7	100.0			3.0	3.9		15.5		8.8
BRAN	8.522	12.290	7.885	4.563	6.668	25.777	1.785	18.116	19.836	77.886	9.274	20.261
INCHES	0.047	0.062	0.044	0.025	0.037	0.138	0.010	0.101	0.106	0.432	0.050	0.112
STA AV	0.067	0.075	0.096	0.138	0.242	0.131	0.030	0.049	0.073	0.083	0.087	0.062

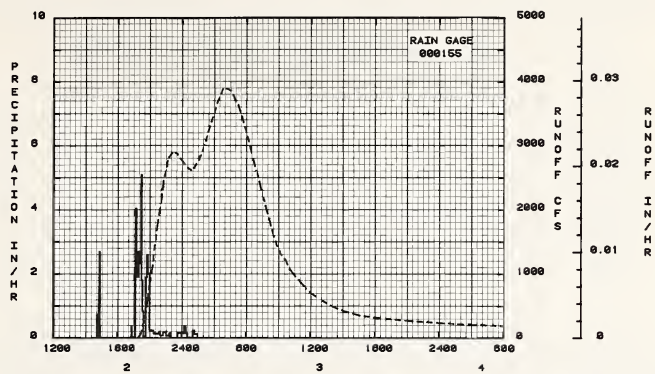
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FI, multiply by 11,083. Yearly mean discharge, 10.7 CFS. STA AV based on 9 yr (1963-71) record period.

1971				CHICKASHA, OKLAHOMA				WATERSHED 522 NEAR HINNEKAS			
SELECTED RHOFF EVENT				CHICKASHA, OKLAHOMA				WATERSHED 522 NEAR HINNEKAS			
PRECEDENT CONDITIONS				RAINFALL				RHOFF			
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 OCTOBER 2 - 10, 1971											
HG 000155											
10- 2	0.0	0.001	10- 2	1605	0.0	0.0	0.0	10- 2	1911	5,000	0.0
				1609	0.7500	0.05	0.05		1936	17,400	0.0
				1614	0.0	0.05	0.05		2000	17,500	0.0001
				1617	0.6000	0.08	0.08		2006	37,700	0.0001
				1619	1.4997	0.13	0.13		2011	63,800	0.0001
WATERSHED CONDITIONS:											
From a revised 1971 survey											
(p. 69, 007-1, this publication); sowed crop - 15%;											
row crop - 1%; alfalfa -											
3%; pasture and range -											
65%; miscellaneous -											
16%.											
	1946	4.0501	0.54	2048	545.398	0.0013					
	1958	1.9000	0.92	2053	682.898	0.0017					
	2004	2.6998	1.19	2100	815.198	0.0024					
	2012	2.3250	1.50	2106	938.198	0.0030					
	2016	5.1001	1.84	2111	1032.800	0.0036					
	2021	1.8001	1.99	2118	1133.198	0.0045					
	2026	0.8401	2.06	2123	1296.000	0.0053					
	2040	0.0429	2.07	2130	1453.100	0.0065					
	2046	1.8999	2.26	2136	1608.398	0.0074					
	2052	2.6002	2.52	2141	1717.698	0.0086					
	2101	1.9999	2.82	2148	1846.500	0.0102					
	2124	0.2348	2.91	2153	1932.600	0.0114					
	2156	0.1313	2.98	2200	2032.898	0.0131					
	2202	0.2000	3.00	2206	2171.198	0.0146					
	2217	0.0800	3.02	2211	2321.799	0.0160					
	2233	0.1875	3.07	2218	2454.999	0.0181					
	2252	0.0632	3.09	2230	2604.999	0.0219					
	2300	0.1500	3.11	2241	2768.998	0.0255					
	2339	0.0	3.11	2248	2821.499	0.0279					
	2358	0.1579	3.16	2306	2895.898	0.0343					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00007457.

1971 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED 522 BEAR HIDEBARR							
PRECEDENT CONDITIONS			RAINFALL			RUBOFF				
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 2 - 10, 1971 (CONTINUED)										
10- 3	15	0.1412			3.20		10- 2	2323	2896.698	0.0405
	25	0.3600			3.26			2336	2860.698	0.0451
	33	0.1500			3.28			2400	2768.198	0.0535
	102	0.0			3.28		10- 3	36	2642.398	0.0656
	112	0.2400			3.32			53	2619.398	0.0712
	131	0.1263			3.36			106	2654.498	0.0754
								136	2788.898	0.0855
								206	3008.098	0.0963
								236	3307.299	0.1081
								318	3680.799	0.1263
								348	3897.599	0.1404
								406	3897.198	0.1491
								430	3865.298	0.1607
								448	3770.799	0.1692
								518	3605.398	0.1830
								536	3437.599	0.1909
								600	3211.698	0.2009
								623	2955.599	0.2097
								641	2752.398	0.2160
								706	2510.898	0.2242
								723	2315.598	0.2293
								741	2133.598	0.2342
								800	1938.799	0.2391
								818	1754.298	0.2432
								836	1578.898	0.2469
								853	1429.398	0.2501
								918	1289.398	0.2543
								941	1215.498	0.2579
								1006	1068.198	0.2615
								1036	960.999	0.2653
								1106	863.800	0.2687
								1136	768.799	0.2717
								1211	685.298	0.2749
								1306	581.599	0.2792
								1406	486.300	0.2832
								1506	421.000	0.2866
								1636	349.600	0.2909
								1836	304.000	0.2958
								2106	268.999	0.3011
								2400	233.800	0.3065
							10- 4	300	206.700	0.3114
								600	188.300	0.3158
								1030	173.400	0.3219
								1400	164.600	0.3263
								1930	147.700	0.3327
								2400	131.300	0.3374
							10- 5	600	109.400	0.3428
								1200	90.200	0.3473
								1800	72.300	0.3509
								2400	65.900	0.3540
							10- 6	1200	50.100	0.3592
								2400	43.000	0.3634
							10- 7	1200	35.900	0.3669
								2400	30.750	0.3699
							10- 8	1200	25.600	0.3724
								2400	23.450	0.3746
							10- 9	1200	21.300	0.3766
								2400	19.650	0.3784
							10-10	1200	18.000	0.3801
								2400	16.700	0.3817

NOTES: To convert runoff in CPS to I#/HR, multiply by 0.000007457.



EVENT OF OCTOBER 2 - 10, 1971
CHICKASHA, OKLAHOMA WATERSHED 522 NEAR HISHERAH

1971												
SEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA				WATERSHED 512 AT TABLE			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.88	1.73	2.23	1.62	1.79	29.83	0.47	0.09	0.07	1.22	3.65	3.11
2	1.96	1.73	2.17	1.58	1.56	11.90	5.47	0.05	0.06	339.60	3.48	3.73
3	3.19	1.88	1.92	1.63	1.36	215.04	3.22	0.04	0.04	302.72	3.17	4.85
4	2.02	2.07	2.31	1.70	1.28	9.51	0.90	0.03	0.03	19.87	2.94	4.97
5	1.52	1.96	2.23	1.71	1.18	8.41	8.45	0.02	0.03	6.75	3.02	4.65
6	1.80	1.81	2.12	1.71	0.86	2.64	0.28	0.03	0.03	6.31	3.01	4.66
7	1.82	1.82	1.97	1.70	0.27	1.92	0.16	0.05	0.02	5.00	2.83	4.31
8	1.96	1.48	1.96	1.64	0.51	84.96	0.10	0.13	0.03	4.55	2.75	5.87
9	2.19	1.64	2.03	1.62	2.15	9.47	0.07	1.27	0.04	4.03	2.91	12.34
10	2.21	1.87	2.04	1.58	2.39	5.17	0.08	0.22	0.02	3.52	3.02	9.70
11	2.14	2.09	2.05	1.61	1.68	6.08	0.06	0.12	0.01	3.08	3.02	6.61
12	2.14	2.03	2.12	1.56	1.19	90.56	0.09	0.09	0.00	3.90	2.98	5.37
13	2.21	1.89	2.11	1.48	0.98	9.91	0.04	0.43	0.0	2.64	2.94	4.77
14	2.21	1.87	1.94	1.43	0.81	5.35	0.04	39.94	0.0	2.53	3.02	55.50
15	2.13	1.87	1.74	1.49	0.62	3.68	0.04	12.99	0.0	2.60	3.04	92.58
16	2.05	1.87	1.70	1.67	0.52	2.68	0.04	2.56	0.0	2.61	3.04	14.53
17	2.04	1.91	1.64	2.07	0.46	2.15	0.04	2.56	0.10	2.75	3.04	9.26
18	2.01	2.20	1.63	2.11	0.46	1.79	0.04	0.99	110.98	3.93	3.04	7.63
19	1.82	2.35	1.62	1.98	0.39	1.51	0.02	0.66	4.08	6.77	3.04	6.98
20	1.81	2.21	1.60	2.00	0.33	1.44	0.02	0.51	2.32	14.36	3.04	6.89
21	1.93	18.21	1.77	1.78	0.31	12.17	0.02	0.37	1.65	5.24	3.07	6.68
22	1.95	6.86	1.86	0.87	0.37	3.05	0.04	0.26	1.25	4.13	3.32	6.23
23	1.95	4.20	1.86	0.88	0.49	2.08	1.65	0.23	1.09	3.78	3.77	6.05
24	1.98	3.35	1.88	0.44	5.65	1.51	1.74	0.19	126.75	3.63	3.53	6.16
25	1.87	2.95	2.09	1.13	1.35	1.16	0.23	0.19	25.49	3.52	3.27	6.16
26	1.80	2.78	2.11	1.26	0.95	0.92	0.13	0.20	4.00	5.56	3.05	6.03
27	1.79	2.45	1.99	2.04	0.48	0.70	0.07	0.18	2.57	11.80	2.95	5.97
28	1.79	2.31	2.07	1.91	2.17	0.61	1.77	0.16	1.93	5.10	3.02	5.67
29	1.80	1.89	1.89	1.40	0.58	0.58	0.39	0.11	1.69	4.45	3.04	6.96
30	1.86	1.78	1.99	1.65	0.38	0.18	0.08	1.42	4.15	4.15	3.04	10.57
31	1.85	1.65	1.65	5.11		0.13	0.07		3.89			3.32
SEAN	1.988	2.893	1.937	1.603	2.069	17.436	0.577	2.188	9.524	25.645	3.101	10.906
IRCHES	0.065	0.086	0.063	0.051	0.068	0.553	0.019	0.072	0.302	0.840	0.098	0.357
STA AV	0.088	0.097	0.138	0.275	0.309	0.228	0.075	0.179	0.210	0.153	0.149	0.110

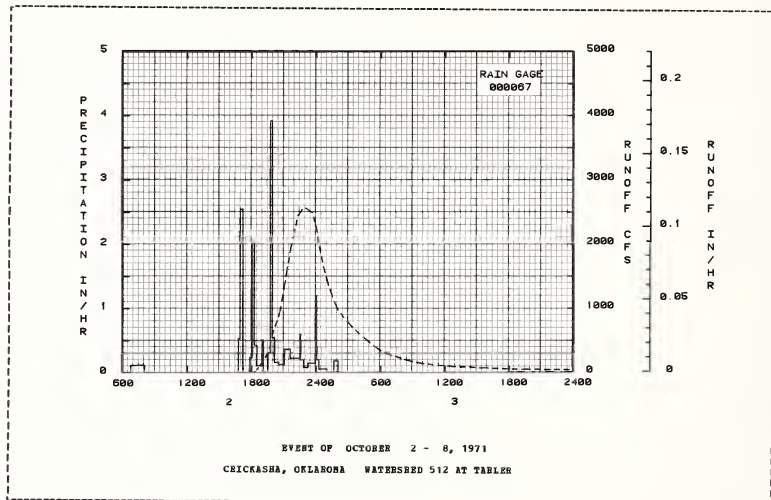
NOTES: To convert mean daily discharge in CFS to IN/DAT, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1.878. STA AV based on 9 yr (1963-71) record period.

1971												
SELECTED RONOFF EVENT					CHICKASAW, OKLAHOMA				WATERSHED 512 AT TABLE			
ANTECEDENT CONDITIONS		Date			RAINFALL		Acc.		Date		RONOFF	
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 2 - 8, 1971												
10-2	RG 000067											
	0.0	0.001	10-2	8G 000067	445	0.0	0.0	10-2	1100	1.150	0.0	
					800	0.1200	0.15		1630	1.340	0.0003	
					1645	0.0	0.15		1736	1.560	0.0004	
					1658	0.5338	0.23		1800	4.580	0.0005	
					1710	2.5500	0.91		1811	14.420	0.0006	
WATERSHED CONDITIONS:												
From a revised 1971 survey												
(p. 68-007-1, this publication)												
sowed crop - 8X;												
alfalfa - 3X; pasture and												
range - 8X; and miscellaneous - 8X.												
					1748	0.0	0.91		1818	15.360	0.0007	
					1801	0.2308	0.96		1830	46.140	0.0010	
					1813	2.0500	1.37		1836	75.480	0.0013	
					1827	0.4286	1.47		1848	125.810	0.0022	
					1855	0.1071	1.52		1900	178.340	0.0036	
					1902	0.5143	1.58		1918	251.850	0.0064	
					1930	0.0	1.58		1930	312.090	0.0089	
					1943	0.3231	1.65		1941	427.030	0.0118	
					1954	3.9273	2.37		1953	580.760	0.0163	
					2005	0.5455	2.47		2011	740.059	0.0249	
					2028	0.1565	2.53		2030	892.500	0.0364	
					2102	0.1235	2.60		2041	1036.898	0.0440	
					2133	0.3677	2.79		2053	1224.330	0.0541	
					2227	0.2222	2.99		2106	1434.118	0.0667	
					2232	0.6000	3.04		2118	1651.547	0.0802	
					2250	0.2000	3.10		2136	1946.738	0.1040	
					2313	0.0783	3.13		2200	2226.098	0.1410	
					2354	0.1463	3.23		2218	2459.137	0.1716	
					2	1.2000	3.39		2241	2542.269	0.2137	
					14	0.2000	3.43		2300	2563.307	0.2497	
					5	0.0545	3.47		2336	2493.577	0.3162	
					139	0.0	3.47		2400	2258.538	0.3583	
					202	0.1826	3.54	10-3	18	1946.738	0.3858	
									41	1635.398	0.4160	
									100	1434.118	0.4376	

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.00004402.

1971 SELECTED HOBOPP EVENT			CEICKASHA, OKLAHOMA WATERSHED 512 AT TABLER								
ATTACHED CONDITIONS			RAINFALL			HOBOPP			HOBOPP		
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 2 - 3, 1971 (CONTINUED)											
							10- 3	130	1176.610	0.8663	
								200	972.860	0.4900	
								300	769.009	0.5283	
								400	602.490	0.5585	
								500	466.030	0.5820	
								600	339.610	0.5997	
								700	262.878	0.6130	
								830	185.730	0.6278	
								1000	130.560	0.6382	
								1230	91.760	0.6504	
								1600	62.650	0.6623	
								1930	43.090	0.6704	
								2400	33.170	0.6780	
							10- 4	600	24.410	0.6856	
								1200	19.360	0.6914	
								1800	13.830	0.6958	
								2400	10.600	0.6990	
							10- 5	1200	8.520	0.7040	
								2400	7.350	0.7082	
							10- 6	1200	6.180	0.7118	
								2400	5.525	0.7149	
							10- 7	1200	4.870	0.7176	
								2400	4.725	0.7201	
							10- 8	1200	4.580	0.7226	
								2400	4.300	0.7249	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000402.



CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE

LOCATION: Winter Creek Watershed above county farm to market road bridge North of Alex in Grady County, Okla., tributary to Rabbit River; Red River Basin. GAGING STATION NE 1/4 sec. 18, T. 6 N., R. 5 W., at 35 dec. 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 TABLE													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P	0.73	1.88	0.17	0.78	3.38	4.59	2.81	3.48	5.29	0.91	0.61	3.72	32.27
Q	0.145	0.192	0.110	0.063	0.064	0.413	0.079	0.098	0.277	0.617	0.126	0.660	2.884
STA AV	1.06	1.30	1.46	2.60	3.96	3.08	2.24	3.01	4.66	2.10	1.96	1.21	28.64
Q	0.132	0.188	0.161	0.228	0.441	0.217	0.123	0.123	0.800	0.205	0.183	0.172	2.473

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.		
1971	12-14	0.041	12-14	0.037	12-14	0.071	12-14	0.141	12-14	0.174	12-14	0.215	12-14	0.275	12-14	0.433

MAXIMUMS FOR PERIOD OF RECORD														
Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.
5-10 1964	0.207	1964	5-10 1970	0.179	1970	5-10 1970	0.269	1970	9-22 1970	0.410	1970	9-22 1970	0.649	1970
9-22 1964	0.207	1964	5-10 1970	0.179	1970	5-10 1970	0.269	1970	9-22 1970	0.410	1970	9-22 1970	0.649	1970
9-22 1964	0.207	1964	5-10 1970	0.179	1970	5-10 1970	0.269	1970	9-22 1970	0.410	1970	9-22 1970	0.649	1970

NOTES: Watershed conditions: From a revised 1971 survey (p. 69.007-1, this publication); sowed crop - 9%; row crop - 15; alfalfa - 2%; pasture and range - 77%; and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.17-8 (topographic) and p. 69.7-21 (composite). 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 National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													
CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.01	0.0	1.13	0.0	0.0	0.0	0.0	0.02	0.03
2	0.11	0.0	0.07	0.0	0.0	1.13	0.0	0.0	0.0	2.46	0.0	0.55	0.55
3	0.62	0.0	0.0	0.0	0.02	0.78	0.0	0.0	0.0	0.29	0.0	0.13	0.13
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	0.16
6	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.47	0.35	0.0	0.0	0.0	0.0
7	0.0	0.01	0.0	0.0	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	0.02	0.0	0.0	0.54	0.0	0.08	0.01	0.38	0.38
9	0.0	0.0	0.0	0.0	0.70	0.22	0.04	0.0	0.10	0.0	0.0	0.38	0.38
10	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.22	0.22
11	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
12	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.24	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.40	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	1.73	0.0	0.0	0.0	1.52	1.52
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.75	0.02	0.13	0.0	0.0
18	0.0	0.29	0.0	0.0	0.10	0.0	0.0	0.0	1.88	0.64	0.0	0.0	0.0
19	0.0	0.0	0.0	0.19	0.0	0.0	0.01	0.0	0.08	0.60	0.0	0.0	0.0
20	0.0	0.0	0.0	0.10	0.0	0.70	0.0	0.0	0.0	0.06	0.0	0.0	0.0
21	0.0	1.44	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.03	0.0	0.0	0.11	0.0	0.0	0.0	0.35	0.0	0.0
23	0.0	0.0	0.0	0.0	0.83	0.0	0.69	0.0	0.29	0.0	0.05	0.0	0.0
24	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	1.59	0.0	0.0	0.0	0.0
25	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.02	0.53	0.0	0.0	0.0	0.0	0.72	0.0	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	0.0	0.0	0.0
28	0.0	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.20	0.0	0.02	0.0	0.02	0.0	0.01	0.0	0.39	0.39
30	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.03	0.05	0.0	0.0
31	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.73	1.84	0.17	0.78	3.34	4.59	2.81	3.48	5.29	4.91	0.61	3.72	32.27
STA AV	1.06	1.30	1.46	2.60	3.96	3.08	2.24	3.01	4.66	2.10	1.96	1.21	28.64

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 11 yr (1961-71) record period.

1971		NEAR DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.29	5.62	5.36	2.38	1.38	6.56	3.50	0.57	0.52	4.37	5.06	4.92
2	3.68	4.98	5.17	2.03	1.58	6.43	31.65	0.44	0.50	46.27	4.48	6.36
3	13.63	4.75	5.11	1.88	1.48	131.82	6.93	0.41	0.45	119.17	2.70	6.01
4	3.64	4.69	4.93	1.88	1.03	38.23	4.05	0.36	0.38	60.51	3.50	7.23
5	2.23	4.52	4.75	1.87	0.80	26.29	2.13	0.37	0.22	49.58	2.99	6.99
6	2.23	4.21	4.60	1.37	0.79	17.42	1.31	3.52	5.85	38.85	2.78	6.57
7	2.23	3.34	3.86	1.51	0.91	12.20	1.09	1.63	1.93	26.55	2.68	6.32
8	2.23	3.01	3.60	1.58	0.99	10.23	1.10	3.20	0.84	21.46	2.76	8.26
9	2.23	3.17	3.52	1.27	0.74	8.17	1.23	2.79	0.68	15.58	2.40	10.09
10	2.23	4.31	3.13	1.10	3.45	6.28	0.76	1.36	0.67	11.31	2.93	19.02
11	2.23	4.18	2.97	1.18	2.69	5.57	0.50	1.03	0.42	7.47	3.09	10.40
12	2.23	4.06	3.07	1.44	2.23	23.81	0.27	1.31	0.16	6.09	3.23	8.29
13	2.23	3.65	3.02	1.74	1.88	13.96	0.23	2.84	0.11	5.39	3.23	7.20
14	2.23	3.56	2.55	1.94	1.67	7.78	0.28	31.48	0.12	4.96	3.15	133.43
15	2.40	3.43	2.36	1.85	1.59	4.57	0.21	13.70	0.15	4.72	3.39	82.27
16	3.41	3.41	2.25	1.76	1.27	3.17	0.13	6.54	0.12	4.52	3.63	51.30
17	3.63	3.52	2.20	2.21	1.11	2.49	0.06	4.54	0.73	4.35	4.09	40.14
18	3.87	4.31	2.06	1.92	1.16	1.90	0.04	3.02	35.48	11.20	4.18	32.70
19	3.76	4.94	2.30	1.59	0.82	1.52	0.09	2.12	8.26	11.55	3.52	22.60
20	3.60	4.42	2.25	2.73	0.72	9.76	0.23	1.52	4.22	14.38	3.41	16.45
21	3.58	26.36	2.23	2.43	0.71	14.52	0.28	0.94	2.61	7.92	3.50	13.30
22	3.58	15.11	2.23	2.40	0.73	4.73	0.24	0.55	2.06	6.65	4.18	11.16
23	3.58	11.86	2.26	2.55	6.76	3.19	4.28	0.47	2.29	6.05	4.78	10.01
24	3.60	9.50	2.53	2.30	1.59	2.26	1.24	0.47	53.34	5.51	4.57	9.06
25	3.72	6.17	2.98	2.28	0.81	1.65	0.46	0.49	43.80	4.60	4.49	8.27
26	3.56	7.07	2.84	1.88	1.20	1.18	0.36	0.43	29.55	11.98	4.37	8.12
27	4.55	6.12	2.97	1.52	2.86	0.91	0.36	0.38	21.37	18.39	4.48	7.81
28	11.68	5.61	3.29	1.37	1.73	1.04	0.85	0.35	14.37	8.87	6.52	7.10
29	9.98		2.95	2.26	1.37	1.07	1.28	0.35	9.86	6.73	4.55	10.16
30	8.19		2.61	1.95	1.86	1.05	0.83	0.43	6.83	5.82	4.69	12.66
31	6.62		2.22		5.30		0.74		0.54	5.23		4.78
MEAN	4.188	6.146	3.166	1.885	1.844	12.325	2.282	2.844	8.261	17.807	3.757	19.062
INCHES	0.145	0.152	0.110	0.063	0.064	0.413	0.079	0.098	0.277	0.617	0.126	0.660
STA AV	0.132	0.148	0.161	0.228	0.441	0.217	0.123	0.123	0.340	0.205	0.183	0.172

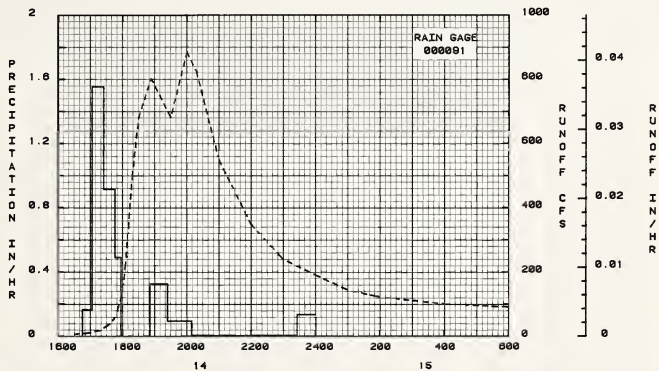
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FD, multiply by 1.76. STA AV based on 9 yr (1963-71) record period.

1971		SELECTED SUBOFF EVENT				CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE					
PRECIPITATION CONDITIONS		SUBOFF		SUBOFF		SUBOFF		SUBOFF			
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 DECEMBER 14 - 27, 1971											
RG 000091		RG 000091									
12-14	0.0	0.005	12-14	1645	0.0	0.0	12-14	1630	7.320	0.0	
				1703	0.1667	0.05		1700	12.450	0.0002	
				1725	1.5545	0.62		1718	15.800	0.0004	
				1746	0.9143	0.94		1736	38.700	0.0008	
				1757	0.4909	1.03		1748	64.270	0.0013	
WATERSHED CONDITIONS:											
From a revised 1971 survey				1851		0.0	1.03	1753	97.030	0.0016	
(p. 69.007-1, this publication); sowed crop - 5%;				1924		0.3273	1.21	1800	133.560	0.0022	
row crop - 1%; alfalfa -				2009		0.0933	1.28	1806	232.330	0.0030	
2%; pasture and range -				2326		0.0061	1.30	1811	338.688	0.0041	
77%; and miscellaneous -				12-15		1	1.38	1818	499.530	0.0064	
11%.											
								1830	681.360	0.0120	
								1853	803.908	0.0252	
								1930	681.360	0.0465	
								2000	804.469	0.0647	
								2018	823.540	0.0765	
								2100	547.469	0.0969	
								2200	347.740	0.1197	
								2300	239.420	0.1334	
								2400	190.990	0.1438	
								12-15	100	143.580	0.1512
								200	121.420	0.1578	
								400	100.180	0.1677	
								600	90.890	0.1766	
								900	83.040	0.1887	
								1100	70.240	0.1958	
								1400	68.500	0.2055	
								1500	72.480	0.2088	
								2000	60.990	0.2244	
								2400	56.250	0.2353	
								12-16	1200	51.710	0.2654

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Sainfall (inches)	Sunoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF DECEMBER 14 - 27, 1971 (CONTINUED)										
							12-16	2400	45.525	0.2926
							12-17	1200	39.340	0.3163
							12-18	2400	36.370	0.3374
								1200	33.400	0.3569
								2400	27.640	0.3739
							12-19	1200	21.080	0.3877
								2400	18.985	0.3991
							12-20	1200	16.090	0.4089
								2400	14.050	0.4175
							12-21	1200	13.210	0.4253
								2400	12.110	0.4328
							12-22	1200	11.010	0.4389
								2400	10.505	0.4449
							12-23	1200	10.000	0.4506
								2400	9.525	0.4561
							12-24	1200	9.050	0.4613
								2400	8.605	0.4662
							12-25	1200	8.160	0.4709
								2400	8.160	0.4755
							12-26	1200	8.160	0.4801
								2400	8.015	0.4846
							12-27	1200	7.870	0.4890
								2400	7.465	0.4933

NOTES: To convert runoff in CFS to I6/HR, multiply by 0.00004654.



EVENT OF DECEMBER 14 - 27, 1971
CHICKASAW, OKLAHOMA WATERSHED 621 BRAG TABLE

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—ST/A 8 sec. 9, T. 8N., R. 10 W., Int. 35 deg. 10 min. 30 sec., long. 98 deg. 15 min. 30 sec., one mile south 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												
1971	P	1.12	1.30	0.0	0.52	3.25	4.62	2.44	3.97	4.55	2.98	0.76	2.32	27.83												
	Q	0.019	0.025	0.010	0.009	0.009	0.129	0.011	0.301	0.023	0.014	0.023	0.069	0.374												
STA AV	P	0.59	0.90	1.29	2.43	3.68	3.78	1.88	2.79	5.20	1.61	1.54	1.10	26.79												
	Q	0.048	0.287	0.076	0.119	0.230	0.119	0.014	0.228	0.202	0.030	0.036	0.053	1.243												
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	Date	Date	Date	Date	Date	Date	Date											
1971		5-31	0.008	5-31	0.003	6-9	0.005	6-9	0.013	8-14	0.019	6-8	0.028	6-8	0.044	6-3	0.087									
		8-21	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										
MAXIMUMS FOR PERIOD OF RECORD																										
		8-21	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 revised 1971 survey (p. 69.007-1, this publication); sowed crop - 10%; row crop - 12%; alfalfa - 4%; pasture and range - 5%; and miscellaneous - 18%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.18-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). 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. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 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	0.0	0.12	0.0	0.76	0.0	0.0	0.0	0.01	0.05												
2	0.66	0.0	0.0	0.0	0.0	0.27	0.07	0.0	0.0	0.57	0.0	0.45												
3	0.46	0.0	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.18												
4	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.04	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	0.05												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.02	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.85	0.0	0.0	0.01	0.05												
9	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.01	0.0	0.0	0.02												
10	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.05												
11	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.03	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.06	0.0	0.0	0.0	0.0												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.82	0.0	0.0	0.0	1.20												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.02												
16	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.06	0.0	0.0	0.02	0.0	1.69	0.01	0.04	0.0												
18	0.0	0.29	0.0	0.0	0.02	0.0	0.0	0.0	0.83	0.52	0.0	0.0												
19	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.03	0.0	0.0												
21	0.0	0.99	0.0	0.0	0.0	0.27	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	0.22	0.0	0.0	0.0	0.56	0.0												
23	0.0	0.0	0.0	0.0	0.23	0.0	0.25	0.02	0.09	0.0	0.07	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.188	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.02	0.90	0.0	0.0	0.0	0.0	0.83	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.02	0.0	0.0	0.0	0.0	0.94	0.0	0.21	0.0	0.03	0.0												
29	0.0	0.0	0.0	0.06	0.0	0.0	0.18	0.58	0.0	0.64	0.0	0.25												
30	0.0	0.0	0.0	0.0	0.31	0.32	0.0	0.0	0.0	0.13	0.07	0.0												
31	0.0				1.29		0.0					0.0												
TOTAL	1.12	1.30	0.0	0.52	3.25	4.62	2.44	3.97	4.55	2.98	0.76	2.32												
STA AV	0.59	0.90	1.29	2.43	3.68	3.78	1.88	2.79	5.20	1.61	1.54	1.10												

NOTES: For daily air temperatures in the vicinity, see table for Watershed #700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 32 rain gages on the watershed. STA AV based on 11 yr. (1961-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA						WATERSHED 121 AT GRACEMONT			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	2.70	2.91	4.71	0.04	0.13	42.85	20.58	0.0	0.38	2.45	5.10	7.26				
2	3.56	3.20	5.00	0.09	0.01	13.15	15.36	0.0	0.14	3.41	4.34	11.66				
3	7.90	3.86	4.40	0.10	0.0	65.70	13.36	0.0	0.18	3.88	3.25	17.99				
4	3.71	3.61	5.00	0.14	1.65	44.06	5.96	0.0	0.11	3.02	2.50	10.75				
5	2.73	4.18	4.71	0.32	0.46	27.99	1.35	0.0	0.10	2.64	2.35	9.45				
6	2.70	3.57	4.40	0.14	0.10	16.41	0.13	0.0	0.10	2.04	2.00	8.63				
7	2.70	3.20	3.99	0.09	0.01	9.79	0.07	0.0	0.10	1.65	1.68	8.50				
8	2.80	2.98	2.91	0.05	0.0	61.28	0.01	1.72	0.10	1.60	1.77	8.50				
9	3.48	3.20	1.94	0.38	2.96	138.84	0.0	0.14	0.10	1.57	1.80	8.50				
10	4.06	3.61	1.69	0.95	0.96	82.73	0.0	0.01	0.09	1.39	1.80	8.63				
11	4.15	4.32	0.96	0.23	0.36	89.59	0.0	0.0	0.01	1.09	1.80	9.51				
12	3.05	3.10	0.57	0.01	0.11	35.25	0.0	0.0	0.0	0.75	1.82	9.86				
13	3.74	2.82	0.69	0.57	0.02	23.04	0.0	1.16	0.0	0.73	1.98	6.23				
14	4.29	3.48	0.84	0.35	0.09	16.77	0.0	43.26	0.0	0.89	2.30	13.89				
15	4.21	3.95	1.09	1.74	0.09	12.94	0.0	85.26	0.0	1.00	4.38	48.85				
16	4.59	3.54	0.79	0.93	0.01	9.10	0.0	5.49	0.16	1.06	6.50	28.93				
17	4.32	3.39	1.16	1.06	0.0	5.88	0.0	2.64	1.70	1.21	7.60	28.38				
18	3.51	4.25	2.76	1.70	0.0	3.38	0.0	1.63	4.79	2.85	6.43	24.73				
19	2.98	4.10	2.10	1.85	0.0	2.10	0.0	1.01	2.63	2.76	6.15	18.70				
20	3.93	2.00	1.34	15.60	0.0	1.65	0.0	0.52	2.11	1.70	5.68	12.32				
21	4.02	8.16	0.84	9.23	0.0	6.36	0.0	0.23	2.55	2.61	4.61	9.16				
22	3.57	9.09	0.88	6.25	0.0	2.61	0.0	0.11	2.19	2.06	4.90	7.69				
23	3.40	10.41	0.89	3.85	1.03	0.39	2.08	0.10	1.73	1.80	6.26	7.45				
24	2.82	10.48	0.75	1.99	0.03	0.09	0.29	0.10	27.22	1.63	5.85	7.15				
25	2.91	11.76	0.34	1.32	0.0	0.01	0.11	0.10	42.89	1.74	5.45	7.15				
26	3.06	9.00	0.16	0.96	0.17	0.0	0.10	0.10	15.94	3.05	5.36	7.51				
27	2.50	5.80	0.44	0.46	1.04	0.07	0.10	0.07	8.80	5.73	5.27	7.82				
28	2.32	4.57	0.82	0.30	0.15	0.0	2.06	0.10	5.26	4.23	6.18	7.21				
29	1.90	0.31	0.24	0.09	0.0	0.0	0.14	20.82	3.63	5.91	7.04	7.27				
30	2.06	0.27	0.34	0.81	0.0	0.01	7.27	2.89	6.45	7.40	8.26					
31	2.64	0.19		42.86	0.0		1.27		5.81		8.46					
MEAN	3.430	4.934	1.856	1.708	1.689	23.738	1.990	5.585	4.196	2.571	4.318	12.323				
INCHES	0.019	0.025	0.010	0.009	0.009	0.129	0.011	0.031	0.023	0.018	0.023	0.069				
STA IV	0.048	0.287	0.076	0.119	0.230	0.119	0.014	0.028	0.202	0.030	0.036	0.053				

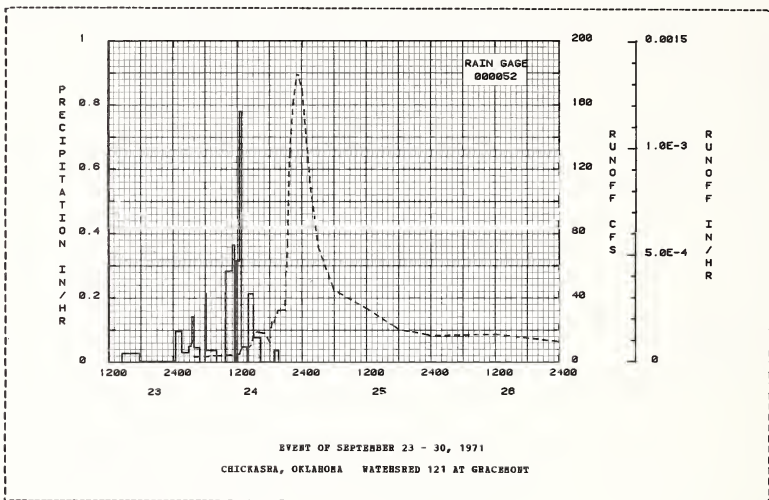
NOTES: To convert mean daily discharge in CFS to IN/88, multiply by 0.0001006. To convert discharge in inches to AC-FY, multiply by 10,982. STA IV based on 9 yr (1963-71) record period.

1971		SELECTED RUNOFF EVENT					CHICKASAW, OKLAHOMA						WATERSHED 121 AT GRACEMONT			
AMBECCMENT CONDITIONS		RAINFALL					RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	No-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 23 - 30, 1971																
RG 000052				RG 000052												
9-23	0.0		9-23	1428	0.0	0.0	9-24	400	3.500	0.0						
9-24		0.000		1743	0.0277	0.09		900	4.100	0.0001						
				27	0.0030	0.11		1218	5.900	0.0002						
				136	0.0957	0.22		1248	9.000	0.0002						
				255	0.0304	0.26		1348	8.500	0.0003						
WATERSHED CONDITIONS:																
From a revised 1971 survey																
(p. 69, 007-1, this publication); sowed crop - 10%;																
row crop - 12%; alfalfa -																
4%; pasture and range -																
56%; and miscellaneous -																
18%.																
				607	0.2143	0.44		1823	25.100	0.0010						
				802	0.0365	0.51		1848	25.000	0.0011						
				945	0.0	0.51		1930	32.300	0.0013						
				1101	0.2842	0.67		2048	32.400	0.0016						
				1124	0.3652	1.01		2118	76.400	0.0018						
				1143	0.0	1.01		2141	130.300	0.0021						
				1221	0.3158	1.21		2128	160.600	0.0028						
				1241	0.7800	1.47		2300	178.900	0.0037						
				1345	0.0469	1.52		2318	178.600	0.0041						
				1400	0.0	1.52		2400	168.900	0.0050						
				1459	0.2136	1.73	9-25	1300	111.500	0.0066						
				1618	0.0760	1.83		300	71.700	0.0076						
				1850	0.0	1.83		600	44.700	0.0089						
				1940	0.0360	1.86		1200	33.400	0.0107						
								1800	20.900	0.0119						
								2400	16.500	0.0127						
								1200	12.300	0.0142						
								2400	12.650	0.0156						
								1200	8.000	0.0165						
								2400	6.550	0.0172						

NOTES: To convert runoff in CFS to IN/88, multiply by 0.00007526.

1971 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEBOST							
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 23 - 30, 1971 (CONTINUED)										
							9-28	1200	5.100	0.0177
								2400	4.300	0.0181
							9-29	1200	3.500	0.0185
								2400	3.200	0.0188
							9-30	1200	2.900	0.0191
								2400	2.550	0.0193

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007526.



CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER

LOCATION: Sedwingsfield Watershed is the west branch of East Sitter Creek 1.4 miles above East Sitter Creek gaging station, in Grady County, Okla.; tributary to East Sitter Creek; Washita River; Red River Basin. GAGING STATION--STA/4 sec. 22, T. 7 N., R. 6 E., lat. 35 deg. 03 min. 53 sec., long. 97 deg. 49 min. 13 sec.

AREA: 12314.00 acres 19.24 sq. miles

NORTHLY PRECIPITATION AND ROBOFF (inches)												CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1971	P 0.61	1.83	0.12	0.81	4.20	5.83	2.62	3.63	5.57	5.70	0.46	3.13	34.51		
	Q 0.065	0.084	0.067	0.062	0.059	0.598	0.009	0.053	0.221	0.820	0.095	0.360	2.492		
STA AV	P 0.88	1.30	1.60	2.90	3.57	2.81	2.38	3.83	4.55	2.31	1.09	1.24	28.45		
	Q 0.092	0.098	0.150	0.378	0.314	0.264	0.085	0.204	0.252	0.169	0.072	0.111	2.187		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF ROBOFF (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.	Date	Vol.
1971	10-2	0.111	10-2	0.108	10-2	0.207	10-2	0.475	10-2	0.603	10-2	0.659	10-2	0.692	10-2	0.724

MAXIMUMS FOR PERIOD OF RECORD															
	8-8	0.169	8-8	0.164	8-8	0.307	8-7	0.562	6-18	10-2 <th>0.659</th> <th>8-12</th> <th>0.754</th> <th>4-9</th> <th>0.875</th>	0.659	8-12	0.754	4-9	0.875
	1965		1965		1965		1965	1965	1967	1971		1967		1967	

NOTES: Watershed conditions: From a revised 1971 survey (p. 69-007-1, this publication); sowed crop - 4%; alfalfa - 1%; pasture and range - 90%; and miscellaneous - 5%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69-16-8 (Topography) and p. 69-7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 18 gages on the watershed. Precipitation and runoff records began Jan. 1965. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER			
	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	0.86	0.0	0.0	0.0	0.0	0.02			
2	0.10	0.0	0.05	0.0	0.0	0.81	0.0	0.0	0.0	3.61	0.0	0.0	0.53			
3	0.51	0.0	0.0	0.0	0.02	0.93	0.0	0.0	0.0	0.13	0.0	0.0	0.13			
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	0.18			
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.08	0.0	0.0	0.0	0.0			
7	0.0	0.03	0.0	0.0	0.0	1.31	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	0.02	0.0	0.83	0.0	0.08	0.02	0.0	0.52			
9	0.0	0.0	0.0	0.0	0.63	0.25	0.07	0.0	0.0	0.0	0.0	0.0	0.14			
10	0.0	0.0	0.0	0.0	0.01	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.21			
11	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			
12	0.0	0.0	0.0	0.0	0.0	0.92	0.0	0.38	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.56	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	1.58	0.0	0.0	0.0	0.0	1.10			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.01			
16	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.45	0.02	0.05	0.0	0.0			
18	0.0	0.22	0.0	0.0	0.10	0.0	0.0	0.0	1.87	0.43	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.12	0.0	0.0	0.01	0.0	0.09	0.58	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.08	0.0	0.53	0.0	0.0	0.0	0.13	0.0	0.0	0.0			
21	0.0	1.50	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.03	0.0	0.0	0.14	0.0	0.0	0.0	0.31	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.99	0.0	0.48	0.0	0.24	0.0	0.04	0.0	0.0			
24	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0	0.0			
25	0.0	0.07	0.0	0.07	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.23	0.95	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0			
27	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			
28	0.0	0.01	0.0	0.0	0.0	0.01	1.06	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.17	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.29			
30	0.0	0.0	0.0	0.0	0.29	0.02	0.0	0.0	0.0	0.03	0.04	0.0	0.0			
31	0.0	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	0.61	1.83	0.12	0.81	4.20	5.83	2.62	3.63	5.57	5.70	0.46	3.13				
STA AV	0.88	1.30	1.60	2.90	3.57	2.81	2.38	3.83	4.55	2.31	1.09	1.24				

NOTES: For daily air temperatures in the vicinity, see table for Watershed 8-700, (69-007) of this publication. Precipitation values are a Thiessen weighted average of 18 rain gages on the watershed. STA AV based on 7 yr (1965-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 513 NEAR TABLE			
Day	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.48	0.93	1.44	0.93	0.98	15.89	0.06	0.0	0.0	0.44	1.76	1.79	
2	1.61	0.93	1.24	0.92	0.84	1.77	2.51	0.0	0.0	185.81	1.69	2.19	
3	1.68	1.03	0.98	0.93	0.83	100.79	1.32	0.0	0.0	182.24	1.68	2.65	
4	0.99	1.11	1.26	0.97	0.85	5.80	0.32	0.0	0.0	12.75	1.67	2.56	
5	0.87	1.04	1.25	1.02	0.77	2.26	0.16	0.0	0.0	4.98	1.59	2.50	
6	0.87	0.98	1.10	1.03	0.65	1.21	0.06	0.0	0.0	3.38	1.48	2.68	
7	0.88	0.69	1.05	1.02	0.61	1.14	0.03	0.0	0.0	2.52	1.48	2.44	
8	0.97	0.68	1.13	0.98	0.68	78.64	0.02	0.0	0.0	2.18	1.58	4.69	
9	1.07	0.90	1.14	0.97	1.19	1.82	0.02	0.0	0.0	1.99	1.60	7.40	
10	1.09	1.03	1.14	0.98	1.26	3.11	0.01	0.0	0.0	1.76	1.59	6.49	
11	1.13	1.11	1.15	1.02	0.85	3.56	0.00	0.0	0.0	1.54	1.55	4.10	
12	1.14	1.04	1.24	0.96	0.58	56.35	0.0	0.0	0.0	1.39	1.60	3.35	
13	1.14	1.03	1.24	0.88	0.46	6.10	0.0	0.40	0.0	1.27	1.65	3.04	
14	1.13	1.03	1.09	0.89	0.21	3.26	0.0	19.62	0.0	1.20	1.55	4.48	
15	1.05	1.03	0.99	1.02	0.09	1.14	0.0	3.98	0.0	1.15	1.53	37.57	
16	1.08	1.03	1.02	1.15	0.06	1.57	0.0	1.16	0.0	1.14	1.54	8.20	
17	1.13	1.04	0.99	1.30	0.06	1.26	0.0	0.81	0.06	1.21	1.57	5.73	
18	1.07	1.17	1.01	1.26	0.04	0.98	0.0	0.41	39.48	1.78	1.48	4.73	
19	0.98	1.37	0.93	1.22	0.03	0.80	0.0	0.27	1.21	3.50	1.46	4.57	
20	0.98	1.06	0.93	1.30	0.01	0.85	0.0	0.20	0.50	5.49	1.47	4.22	
21	1.02	0.88	1.02	1.21	0.00	10.41	0.0	0.15	0.29	2.17	1.55	3.95	
22	1.02	3.58	1.04	1.14	0.12	1.73	0.0	0.10	0.17	1.65	1.79	3.83	
23	0.99	1.99	1.07	1.08	5.81	1.17	0.0	0.07	0.23	1.54	2.15	3.88	
24	1.03	1.65	1.10	1.04	1.88	0.83	0.0	0.06	57.12	1.53	1.93	3.70	
25	1.07	1.64	1.23	1.02	0.43	0.61	0.0	0.05	10.72	1.53	1.71	3.69	
26	1.03	1.48	1.20	1.00	0.70	0.49	0.0	0.06	1.81	3.20	1.68	3.77	
27	0.98	1.42	1.15	1.33	4.60	0.38	0.0	0.06	1.02	6.34	1.68	3.64	
28	0.98	1.50	1.18	1.06	0.95	0.29	0.0	0.04	0.70	2.63	1.68	3.47	
29	1.03	1.09	1.17	0.66	0.13	0.0	0.0	0.01	0.54	2.26	1.67	4.22	
30	1.07	1.04	1.17	0.85	0.05	0.0	0.00	0.00	0.49	2.08	1.63	4.88	
31	1.02	1.02	1.02	1.02	3.63	0.0	0.0	0.0	1.85	1.85	1.98		
MEAN	1.083	1.549	1.111	1.066	0.985	10.314	0.145	0.886	3.811	13.692	1.633	6.012	
INCHES	0.065	0.094	0.067	0.062	0.059	0.598	0.009	0.053	0.221	0.828	0.160	0.360	
STA AV	0.092	0.098	0.150	0.378	0.314	0.264	0.085	0.204	0.252	0.169	0.072	0.111	

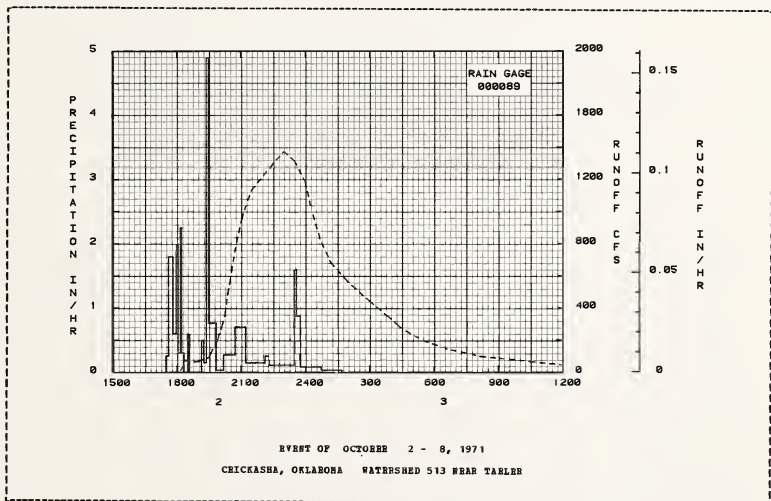
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1.026. STA AV based on 7 yr (1965-71) record period.

1971		SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA			WATERSHED 513 NEAR TABLE			
Date	Rainfall	Runoff	Date	Time	RAINFALL	Intensity	Acc.	Runoff	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 2 - 8, 1971												
10-2	RG 000089	0.0	0.001	10-2	RG 000089	0.0	0.0	10-2	1741	0.560	0.0	
					1730	0.0	0.0		1800	3.670	0.0001	
					1737	0.2572	0.03		1811	11.690	0.0002	
					1749	1.7999	0.39		1818	40.930	0.0004	
					1758	0.6000	0.48		1823	73.400	0.0008	
					1804	1.9999	0.68					
					1810	0.3000	0.71		1836	63.540	0.0020	
					1814	2.2500	0.86		1900	69.180	0.0042	
					1820	0.3000	0.89		1930	91.920	0.0074	
					1929	4.9004	1.49		1981	161.950	0.0091	
					1831	0.0	0.89		1953	195.320	0.0119	
					1835	0.6000	0.93					
					1909	0.0	0.93		2000	240.210	0.0140	
					1915	0.5000	0.98		2011	319.188	0.0180	
					1923	0.1500	1.00		2018	395.128	0.0214	
					1929	4.9004	1.49		2023	490.500	0.0245	
					1951	0.7636	1.77		2030	566.928	0.0295	
					2011	0.0300	1.78		2036	658.948	0.0343	
					2044	0.2727	1.93		2048	813.409	0.0461	
					2113	0.7034	2.27		2106	987.308	0.0679	
					2207	0.1484	2.40		2130	1132.878	0.1023	
					2219	0.2500	2.45		2230	1300.520	0.2003	
					2329	0.1114	2.58		2300	1374.568	0.2542	
					2335	1.9999	2.74		2330	1315.128	0.3084	
					2346	0.8727	2.90		2400	1182.609	0.3587	
				10-3	44	0.0828	2.98	10-3	18	1007.958	0.3849	
					182	0.0310	3.01		41	831.398	0.4133	
									111	681.628	0.4438	
									200	560.550	0.4848	
									300	442.520	0.5252	
									400	330.370	0.5663	
									430	270.878	0.5684	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0008054.

1971 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 513 BEAR TABLE								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF OCTOBER 2 - 8, 1971 (CONTINUED)											
			10- 3	530			530	195.320	0.5872		
				636			636	143.950	0.6022		
				811			811	96.980	0.6175		
				1030			1030	65.120	0.6326		
				1330			1330	44.570	0.6059		
				1800			1800	30.670	0.6595		
				2400			2400	22.230	0.6723		
			10- 4	1200			1200	11.950	0.6888		
				1800			1800	7.130	0.6936		
				2400			2400	6.220	0.6970		
			10- 5	1200			1200	4.760	0.7023		
				2400			2400	4.035	0.7065		
			10- 6	1200			1200	3.310	0.7100		
				2400			2400	2.880	0.7130		
			10- 7	1200			1200	2.450	0.7156		
				2400			2400	2.310	0.7179		
			10- 8	1200			1200	2.170	0.7201		
				2400			2400	2.085	0.7222		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008059.



CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocomset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--#W1/4 sec. 26, 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 POCASSET	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1971	P	1.13	1.30	0.02	0.97	5.14	6.68	2.63	2.53	3.86	3.07	0.85	2.41	30.59		
	Q	0.009	0.012	0.004	0.013	0.165	1.529	0.005	0.020	0.080	0.155	0.005	0.065	2.063		
STA AV	P	0.82	0.96	1.46	3.62	4.65	3.86	1.87	2.23	4.04	2.38	1.23	1.06	28.17		
	Q	0.010	0.010	0.018	0.606	0.612	0.464	0.005	0.010	0.039	0.109	0.023	0.020	1.527		

ANNUAL MAXIMUM DISCHARGE (1a/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1971	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.
	6-3	0.056	6-3	0.056	6-3	0.110	6-3	0.313	6-3	0.494	6-2	0.575	6-2	0.595	5-31	1.143

MAXIMUMS FOR PERIOD OF RECORD																
	4-12	0.320	4-12	0.314	4-12	8.600	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

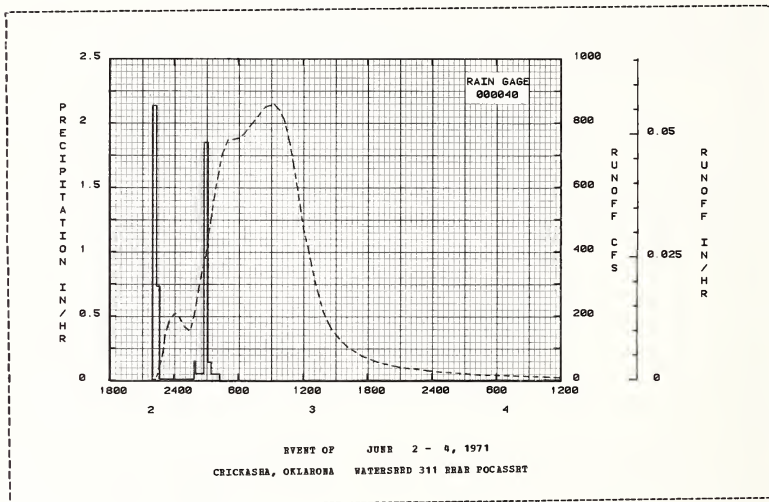
NOTES: Watershed conditions: From a revised 1971 survey (p. 69.007-1, this publication); sowed crop - 36%; row crop -1%; alfalfa - 3%; pasture and range - 49%; and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 69.27-4 (topography) and 1965, USDA Misc. Pub. 1216, p.69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation and runoff records began Jan. 1967. For long-term precipitation records, see National Weather Service records at Chickasha, Okla.

1971	DAILY PRECIPITATION (inches)												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.33	0.0	0.0	0.0	0.02	0.04
2	0.14	0.0	0.02	0.0	0.0	0.0	1.05	0.0	0.0	0.0	1.27	0.0	0.36
3	0.99	0.0	0.0	0.0	0.0	0.01	0.94	0.0	0.0	0.0	0.0	0.0	0.08
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	0.11
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	1.29	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	0.02	0.0	0.78	0.0	0.02	0.02	0.32
9	0.0	0.0	0.0	0.0	0.0	0.88	0.48	0.0	0.0	0.0	0.0	0.0	0.10
10	0.0	0.0	0.0	0.0	0.0	0.01	0.68	0.0	0.0	0.0	0.0	0.0	0.08
11	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
12	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
13	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.22	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	1.26	0.0	0.0	0.0	0.98
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.01
16	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.91	0.04	0.25	0.0
18	0.0	0.32	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.90	0.51	0.0	0.0
19	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.02	0.37	0.0	0.0
20	0.0	0.0	0.0	0.03	0.0	0.0	0.33	0.0	0.0	0.0	0.12	0.0	0.0
21	0.0	0.92	0.0	0.0	0.0	0.0	1.64	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	0.12	0.0	0.0	0.0	0.47	0.0
23	0.0	0.0	0.0	0.0	0.47	0.0	0.0	1.25	0.0	0.15	0.0	0.04	0.0
24	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.85	0.0	0.0	0.0
25	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.24	1.85	0.0	0.0	0.0	0.0	0.60	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	0.0	0.0
28	0.0	0.01	0.0	0.04	0.0	0.0	0.92	0.01	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.11	0.0	0.33
30	0.0	0.0	0.0	0.0	0.24	0.03	0.0	0.0	0.0	0.0	0.03	0.05	0.0
31	0.0	0.0	0.0	0.0	1.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.13	1.30	0.02	0.97	5.14	6.68	2.63	2.53	3.86	3.07	0.85	2.41	30.59
STA AV	0.82	0.96	1.46	3.62	4.65	3.86	1.87	2.23	4.04	2.38	1.23	1.06	28.17

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 5 yr (1967-71) record period.

1971 SELECTED RIBOFF EVENT			CHICKASAW, OKLAHOMA			WATERSHED 311 BRAR POCASSET				
ATRECDREPT CONDITIONS			RAINFALL			RIBOFF				
Date Mo-Day	Rainfall (inches)	Riboff (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 2 - 4, 1971 (CONTINUED)										
						6- 3				
						730	808.860	0.2612		
						830	850.688	0.3453		
						900	855.780	0.3831		
						918	859.168	0.3599		
						948	840.570	0.3076		
						1018	803.898	0.4104		
						1048	731.138	0.4394		
						1111	658.388	0.4568		
						1130	591.888	0.4697		
						1148	524.398	0.4806		
						1206	461.810	0.4902		
						1230	408.850	0.5016		
						1248	355.270	0.5091		
						1306	310.428	0.5156		
						1330	260.158	0.5230		
						1353	212.900	0.5289		
						1418	183.430	0.5383		
						1441	150.320	0.5386		
						1523	128.870	0.5452		
						1611	102.720	0.5512		
						1730	75.440	0.5589		
						1900	55.860	0.5653		
						2100	40.280	0.5716		
						2400	27.130	0.5783		
						6- 4				
						430	16.390	0.5848		
						1030	9.630	0.5899		

NOTES: To convert runoff in CFS to I²/HR, multiply by 0.00006522.



CHICKASAW, OKLAHOMA WATERSHED C-1

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, R. 7 W., T. 7 N., about 2 miles Southeast of Chickasaw, Oklahoma; Washita River Basin.

AREA: 17.83 acres

MONTHLY PRECIPITATION AND RUNOFF (Inches)													CHICKASAW, OKLAHOMA				WATERSHED C-1			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual							
P	0.85	2.03	0.16	0.81	4.62	4.35	1.77	2.90	5.65	4.98	0.56	2.91	30.79							
Q	0.0	0.006	0.0	0.0	0.177	0.873	0.0	0.098	0.931	1.793	0.0	0.532	4.405							
STA AV	0.81	1.17	1.70	2.61	3.59	2.57	1.76	3.90	4.20	2.07	1.05	1.04	26.49							
Q	0.0	0.002	0.006	0.038	0.302	0.245	0.049	0.432	0.377	0.314	0.129	0.076	1.969							

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (Inches) FOR SELECTED TIME INTERVALS																
Date	Maxims Discharge		1 Hour		2 Hours		6 Hours		12 Hours		8 Days					
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1971	10-2	0.078	10-2	0.077	10-2	0.152	10-2	0.445	10-2	0.814	10-2	1.308	10-2	1.667	9-28	1.706

MAXIMUS FOR PERIOD OF RECORD															
Date	1967	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971			
4-12	0.081	10-2	0.077	10-2	0.152	10-2	0.445	10-2	0.814	10-2	1.308	10-2	1.667	9-28	1.706

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 mid-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. 8-flame. Precipitation and runoff records began January 1, 1965. STA AV based on 7 yr (1965-71) record period. For long-time precipitation records, see National Weather Service records at Chickasaw Okla.

1971 DAILY PRECIPITATION (Inches)													CHICKASAW, OKLAHOMA				WATERSHED C-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	0.11	0.0	0.0	0.0	0.0	0.0	0.04							
2	0.07	0.0	0.01	0.0	0.0	0.06	0.0	0.0	0.0	3.19	0.0	0.0	0.58							
3	0.38	0.0	0.0	0.0	0.05	1.14	0.0	0.0	0.0	0.08	0.0	0.0	0.03							
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	0.16							
6	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							
7	0.0	0.001	0.0	0.0	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	0.02	0.0	0.0	0.85	0.0	0.03	0.01	0.0	0.60							
9	0.0	0.0	0.0	0.0	0.65	0.20	0.13	0.0	0.0	0.0	0.0	0.0	0.16							
10	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.20							
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	0.66	0.0	0.02	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	0.94	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	0.82	0.0	0.0	0.0	0.0	0.88							
15	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							
16	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							
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.85	0.01	0.06	0.0	0.0							
18	0.0	0.56	0.0	0.0	0.06	0.0	0.0	0.0	1.86	0.27	0.0	0.0	0.0							
19	0.0	0.0	0.0	0.10	0.0	0.0	0.03	0.0	0.11	0.87	0.0	0.0	0.0							
20	0.0	0.02	0.0	0.02	0.0	1.25	0.0	0.0	0.0	0.05	0.0	0.0	0.0							
21	0.0	1.39	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
22	0.0	0.0	0.0	0.03	0.0	0.0	0.17	0.0	0.0	0.0	0.41	0.0	0.0							
23	0.0	0.0	0.0	0.0	0.40	0.0	0.81	0.0	0.25	0.0	0.02	0.0	0.0							
24	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	1.96	0.0	0.0	0.0	0.0							
25	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0							
26	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.47	0.0	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	0.0	0.0	0.0							
28	0.0	0.04	0.0	0.0	0.0	0.0	0.92	0.05	0.0	0.0	0.0	0.0	0.0							
29	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.26							
30	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.01	0.06	0.0	0.0							
31	0.0	0.0	0.0	0.0	1.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
TOTAL	0.45	2.03	0.16	0.41	4.62	4.35	1.77	2.90	5.65	4.98	0.56	2.91	30.79							
STA AV	0.81	1.17	1.70	2.61	3.59	2.57	1.76	3.90	4.20	2.07	1.05	1.04	26.49							

NOTES: Values obtained from one recording rain gage, No. 173. STA AV based on 7 yr (1965-71) record period.

1971												
MEAN DAILY DISCHARGE (cfs)						CHICKASSA, OKLAHOMA WATERSHED C-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	0.187	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 T	0.0	0.0	0.0	0.232	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.441	0.0	0.0	0.0	0.858	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.175	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	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 T	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 T	0.0	0.0 T	0.0	0.0	0.0	0.087
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.055
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012
12	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.001
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.0	0.0	0.067
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.010	0.0	0.131
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.022
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.004	0.0	0.002
18	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.076	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.004	0.0	0.0	0.0	0.017	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	0.271	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.326	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.019	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	0.0	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	0.132	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0002	0.0	0.0	0.0043	0.0218	0.0	0.0023	0.0232	0.0433	0.0	0.0129
INCRES	0.0	0.006	0.0	0.0	0.177	0.873	0.0	0.094	0.931	1.793	0.0	0.532
STA AV	0.0	0.002	0.006	0.038	0.302	0.245	0.049	0.432	0.377	0.314	0.129	0.076

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.334922. STA AV based on 7 yr (1965-71) record period.

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 RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED C-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P 1.05	1.46	0.01	0.32	4.89	3.35	3.10	3.94	4.07	4.81	0.53	2.66	29.79	
	Q 0.0	0.0	0.0	0.0	0.002	0.001	0.002	0.001	0.001	0.034	0.0	0.0	0.043	
STA AV	P 0.71	1.04	1.40	2.70	3.45	3.02	1.79	2.75	3.57	1.73	1.59	0.92	24.67	
	Q 0.0	0.0	0.0	0.024	0.074	0.061	0.000	0.004	0.004	0.006	0.0	0.018	0.191	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1971	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1971	10-2	0.022	10-2	0.008	10-2	0.013	10-2	0.031	10-2	0.034	10-2	0.034	10-1	0.034	9-25	0.034		

MAXIMUMS FOR PERIOD OF RECORD																
1971	4-12	0.099	4-12	0.075	5-5	0.115	5-5	0.225	5-4	0.294	5-6	0.375	5-5	0.550	5-3	0.728
	1967		1967		1969		1969		1969		1969		1969		1969	

NOTES: Watershed conditions: 100% cropland. Entire watershed seeded to wheat in the Fall of 1970 and harvested in mid-June 1971. 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. STA AV based on 10 yr (1962-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-2	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.01	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.09	0.0	0.01	0.0	0.0	0.03	0.0	0.0	0.0	3.36	0.0	0.54		
3	0.96	0.0	0.0	0.0	0.05	0.20	0.0	0.0	0.0	0.02	0.0	0.06		
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	0.10	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.72	0.0	0.01	0.01	0.41		
9	0.0	0.0	0.0	0.0	0.45	0.35	0.0	0.0	0.0	1.77	0.0	0.0	1.14	
10	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.11	
11	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.09	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.77	0.0	0.0	0.0	1.14		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.14	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	0.98	0.01	0.03	0.0		
18	0.0	0.31	0.0	0.0	0.08	0.0	0.0	0.0	1.11	0.49	0.0	0.0		
19	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.03	0.34	0.0	0.0		
20	0.0	0.0	0.03	0.0	0.03	0.0	0.27	0.0	0.0	0.06	0.0	0.0		
21	0.0	1.03	0.0	0.0	0.0	0.79	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	0.15	0.0	0.0	0.0	0.42	0.0		
23	0.0	0.0	0.0	0.0	0.42	0.0	1.64	0.0	0.31	0.0	0.03	0.0		
24	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.61	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.46	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	0.0		
28	0.0	0.02	0.0	0.03	0.0	0.0	0.95	0.66	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.05	0.0	0.02	0.65	0.0	0.04	0.0	0.16		
30	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.02	0.04	0.0		
31	0.0	0.0	0.0	0.0	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.05	1.46	0.01	0.32	4.49	3.35	3.10	3.94	4.07	4.81	0.53	2.66		
STA AV	0.71	1.04	1.40	2.70	3.45	3.02	1.79	2.75	3.57	1.73	1.59	0.92		

NOTES: Values obtained from one weighting type rain gage, No. 174. STA AV based on 10 yr (1962-71) record period.

1971 SEAN DAILY DISCHARGE (cfs)												CHICKASHA, OKLABOMA		WATERSHED C-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	T 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	0.044	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.002	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	T 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	T 0.0	0.001	0.0	0.0	0.0	0.0	0.0		
9	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	0.0		
10	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	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	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	0.002	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	T 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	0.003	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	0.001	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	T 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	0.003	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SEAN	0.0	0.0	0.0	0.0	0.0001	0.0001	0.0001	0.0001	0.0001	0.0015	0.0	0.0	0.0		
INCHES	0.0	0.0	0.0	0.0	0.002	0.001	0.002	0.002	0.001	0.038	0.0	0.0	0.0		
STA AV	0.0	0.0	0.0	0.028	0.074	0.061	0.000	0.004	0.004	0.006	0.0	0.018	0.0		

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.731458. STA AV based on 10 yr (1962-71) record period.

CHICKASHA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, S. 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												
P	0.51	2.01	0.18	0.62	4.73	3.66	1.58	2.90	5.70	5.03	0.59	2.63	29.96												
1971 Q	0.0	0.041	0.0	0.0	0.961	0.775	0.001	0.206	0.966	1.856	0.0	0.208	5.014												
STA AV	0.76	1.24	1.76	2.63	3.56	2.24	2.05	2.97	4.15	2.07	1.00	0.99	25.42												
Q	0.009	0.012	0.043	0.347	0.587	0.446	0.285	0.519	0.529	0.335	0.084	0.030	3.226												

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		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1971	5-31	0.556	5-31	0.451	5-31	0.707	10-2	1.174	10-2	1.639	10-2	1.740	10-2	1.741	9-26	1.740
MAXIMUMS FOR PERIOD OF RECORD																
	5-31	0.556	5-31	0.451	5-31	0.707	10-2	1.174	10-2	1.639	10-2	1.740	10-2	1.741	8-21	1.768
1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1966	

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed disked and moldboard plowed 8-10 inches deep in mid-Dec. 1970. Spring preplanting tillage consisted of disking, spring-tooth harrowing, incorporating fertilizer and herbicide. Entire watershed tilled to cotton during early June. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Area irrigated four times, commencing July 7 and ending Sept. 3 with total applied about 10 inches. 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 weighting type rain gages, No. 186 and Cotton Research Station gage. Precipitation and runoff records began September 1, 1965. STA AV based on 7 yr (1965-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED C-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	0.14	0.0	0.0	0.0	0.0	0.04H											
2	0.07	0.0	0.0	0.02	0.0	0.0	0.22	0.0	0.0	0.0	3.28	0.0	0.62H											
3	0.44	0.0	0.0	0.0	0.0	0.04	0.74	0.0	0.0	0.0	0.09	0.0	0.04H											
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	0.18											
6	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											
7	0.0	0.01	0.0	0.0	0.0	0.0	0.44	0.0	0.03	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.77	0.0	0.0	0.03	0.02	0.49											
9	0.0	0.0	0.0	0.0	0.69	0.23	0.14	0.0	0.0	0.0	0.0	0.0	0.15											
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.15											
11	0.0	0.0	0.0	0.0	0.0	0.01	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	0.82	0.0	0.02	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	0.88	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	1.00	0.0	0.0	0.0	0.0	0.72											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0											
16	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											
17	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	1.57	0.02	0.10	0.0	0.0											
18	0.0	0.56	0.0	0.0	0.05	0.0	0.0	0.0	1.94	0.27	0.0	0.0	0.0											
19	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.09	0.80	0.0	0.0	0.0											
20	0.0	0.01	0.0	0.04	0.0	1.10	0.0	0.0	0.0	0.06	0.0	0.0	0.0											
21	0.0	1.39H	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	0.05	0.0	0.0	0.15	0.0	0.0	0.0	0.40	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.70	0.0	0.42	0.0	0.26	0.0	0.01	0.0	0.0											
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0	0.0											
25	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.46	0.0	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	0.0	0.0	0.0											
28	0.0	0.93H	0.0	0.0	0.0	0.0	0.70	0.02	0.0	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.0	0.06	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.24											
30	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.02	0.06H	0.0	0.0											
31	0.0	0.0	0.0	0.0	1.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
TOTAL	0.51	2.01	0.18	0.42	4.73	3.66	1.58	2.90	5.70	5.03	0.59	2.63												
STA AV	0.76	1.24	1.76	2.63	3.56	2.24	2.05	2.97	4.15	2.07	1.00	0.99												

NOTES: Precipitation values obtained from two recording weighting type rain gages, No. 186 and Cotton Research Station gage. STA AV based on 7 yr (1965-71) record period.

1971	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED C-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	0.187	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	0.002	0.0	0.0	0.0	1.908	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.744	0.0	0.0	0.0	1.331	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	0.007	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	0.024	0.0	0.0	0.0	0.056
9	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001
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	0.018
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	0.093	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	0.152	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	0.196	0.0	0.0	0.0	0.261
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.050
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	0.005	0.0	0.0	0.0
18	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.342	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	0.139	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.023	0.0	0.0
21	0.0	0.064	0.0	0.0	0.0	0.0	0.375	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	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	0.014	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.426	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	0.023	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.046	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.005	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.001
30	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	1.700	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0027	0.0	0.0	0.0	0.0577	0.0480	0.0001	0.0124	0.0599	0.1113	0.0	0.0125
INCHES	0.0	0.041	0.0	0.0	0.0	0.961	0.775	0.001	0.206	0.966	1.856	0.0	0.208
STA AV	0.009	0.012	0.043	0.347	0.587	0.446	0.205	0.519	0.529	0.335	0.044	0.030	

NOTES: To convert discharge in CFS to IAW/DAT, multiply by 0.537769. STA AV based on 7 yr (1965-71) record period.

CHICKASHA, OKLAHOMA WATERSHED C-4

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: 29.93 acres

MONTHLY PRECIPITATION AND SOBOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED C-4																			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																			
P	0.50	1.94	0.17	0.86	4.65	4.07	1.55	2.88	5.60	4.88	0.58	2.63	29.91																			
1971	Q	0.0	0.025	0.0	0.0	0.793	0.541	0.0	0.166	0.518	1.720	0.0	0.125	3.888																		
STA AV	P	0.77	1.23	1.78	2.59	3.60	2.32	2.06	3.01	4.13	2.06	0.98	1.01	25.54																		
	Q	0.003	0.009	0.027	0.189	0.532	0.298	0.274	0.389	0.330	0.278	0.084	0.018	2.432																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																
Basins		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days																		
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.																	
1971	5-31	0.489		5-31	0.384			5-31	0.623	10-2	1.402	10-2	1.676	10-2	1.695	10-1	1.695	9-25	1.695													
MAXIMUM F08 PERIOD OF RECORD																																
	5-31	0.489		5-31	0.384			5-14	0.671	10-2	1.402	10-2	1.676	10-2	1.695	10-1	1.695	9-25	1.695													
1971				1971				1971				1971				1971			1971													

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed soldboard plowed 8-10 inches deep in early December 1970. Spring preplanting tillage consisted of spring-tooth harrowing, applied 200 lbs/ac of 10-20-10 fertilizer and incorporated by chiseling 6-inches deep in mid-March. Spring-tooth and spike-tooth harrowed in April and early May. Planted cotton ray 13-14. Tillage during growing season consisted of rotary hoeing 3-4 times; cultivating 3-4 times with sweep type cultivator as needed. No irrigation water was applied during the 1971 crop year. Stripped cotton and shredded stalks in November. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.33-1 and 69.33-3. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. STA AV based on 7 yr (1965-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED C-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	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03					
2	0.07	0.0	0.02	0.0	0.0	0.28	0.0	0.0	0.0	3.21	0.0	0.61													
3	0.43	0.0	0.0	0.0	0.04	0.80	0.0	0.0	0.0	0.08	0.0	0.05													
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	0.17													
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0													
7	0.0	0.01	0.0	0.0	0.0	0.42	0.0	0.02	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.80	0.0	0.02	0.02	0.50													
9	0.0	0.0	0.0	0.0	0.71	0.28	0.12	0.0	0.0	0.0	0.0	0.15													
10	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.15													
11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.02	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.74													
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.51	0.01	0.10	0.0													
18	0.0	0.54	0.0	0.0	0.06	0.0	0.0	0.0	1.91	0.25	0.0	0.0													
19	0.0	0.0	0.0	0.07	0.0	0.0	0.04	0.0	0.10	0.80	0.0	0.0													
20	0.0	0.01	0.0	0.04	0.0	1.06	0.0	0.0	0.0	0.05	0.0	0.0													
21	0.0	1.34	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.05	0.0	0.0	0.16	0.0	0.0	0.0	0.40	0.0													
23	0.0	0.0	0.0	0.0	0.66	0.0	0.41	0.0	0.25	0.0	0.01	0.0													
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0													
25	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.44	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.03	0.0	0.0	0.0	0.0	0.70	0.03	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.06	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.23													
30	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.02	0.05	0.0													
31	0.0	0.0	0.0	1.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	0.50	1.94	0.17	0.86	4.65	4.07	1.55	2.88	5.60	4.88	0.58	2.63	29.91												
STA AV	0.77	1.23	1.78	2.59	3.60	2.32	2.06	3.01	4.13	2.06	0.98	1.01	25.54												

NOTES: Precipitation values obtained from two weighing recording type rain gages, Nos. 186 and 187. STA AV based on 7 yr (1965-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASBA, OKLAHOMA WATERSHED C-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	0.024	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	1.624	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.538	0.0	0.0	0.0	0.508	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	0.007
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 T
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005
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	0.048	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	0.058	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.147	0.0	0.0	0.0	0.108
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.018	0.0	0.037
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0 T
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	0.090	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 T	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.023	0.0	0.0	0.0	0.071	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	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.553	0.0	0.0	0.0
25	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.003	0.0	0.0
27	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.001	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	0.978	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0011	0.0	0.0	0.0322	0.0227	0.0	0.0067	0.0217	0.0698	0.0	0.0051
ICBSES	0.0	0.025	0.0	0.0	0.793	0.541	0.0	0.166	0.518	1.720	0.0	0.125
STA AV	0.003	0.009	0.027	0.189	0.532	0.298	0.274	0.389	0.330	0.278	0.084	0.018

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.795284. STA AV based on 7 yr (1965-71) record period.

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	Jan	Jul	Aug	Sep	Oct	Nov	Dec	Annual
P	0.59	1.91	0.17	0.51	6.65	1.55	2.89	5.46	8.81	0.56	2.65	29.68	
1971 Q	0.0	0.0	0.0	0.0	0.171	0.166	0.0	0.0	0.431	1.646	0.0	0.009	2.422
STA AV P	0.76	1.20	1.75	2.54	3.46	2.31	1.85	3.75	4.05	2.02	0.95	1.00	25.62
Q	0.0	0.0	0.065	0.208	0.116	0.066	0.003	0.057	0.166	0.237	0.010	0.001	0.930

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge	Maximum				Maximum Volume for Selected Time Interval											
	Date	1 Hour	2 Hours	4 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.	Date	Vol.			
1971	10-2	0.593	10-2	0.546	10-2	0.881	10-2	1.541	10-2	1.632	10-2	1.645	10-1	1.645	9-25	1.645
MAXIMUMS FOR PERIOD OF RECORD																
	10-2	0.593	10-2	0.546	10-2	0.881	10-2	1.541	10-2	1.632	10-2	1.645	10-1	1.645	9-25	1.645
1971		1971		1971		1971		1971		1971		1971		1971		1971

NOTES: Watershed conditions: 100% cropland, planted 80 lbs/ac of Trinaph wheat October 15, 1970. Applied on surface 100 lbs/ac of 33-00-00 fertilizer January 29, 1971. Harvested wheat grain June 11, 1971. Disked 6-7 inches deep June 19 and July 19. Spring-tooth harrowed Aug. 10, Sept. 30 and Oct. 11, 4-6 inches deep. Planted 75 lbs/ac of Trinaph with 100 lbs/ac of 12-24-12 fertilizer. There was no grazing by livestock. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, OSDA Misc. Pub. 1216, p. 69.38-1. Maps - revised composite, p. 69.7-21; topography, p. 69.38-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two weighting recording type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 7 yr (1965-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

Day	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-5						
	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	0.12	0.0	0.0	0.0	0.0	0.0	0.03						
2	0.07	0.0	0.02	0.0	0.0	0.27	0.0	0.0	0.0	3.15	0.0	0.61							
3	0.42	0.0	0.0	0.0	0.04	0.83	0.0	0.0	0.0	0.07	0.0	0.05							
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	0.17							
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0							
7	0.0	0.01	0.0	0.0	0.0	0.39	0.0	0.02	0.0	0.0	0.0	0.0							
8	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.81	0.0	0.02	0.03	0.52							
9	0.0	0.0	0.0	0.0	0.73	0.25	0.10	0.0	0.0	0.0	0.0	0.14							
10	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.15							
11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0							
12	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.04	0.0	0.0	0.0	0.0							
13	0.0	0.0	0.0	0.0	0.0	0.0	0.84	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	0.96	0.0	0.0	0.0	0.76							
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.0	0.0	0.0	0.0							
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.42	0.01	0.10	0.0							
18	0.0	0.54	0.0	0.0	0.06	0.0	0.0	1.89	0.24	0.0	0.0	0.0							
19	0.0	0.0	0.0	0.11	0.0	0.0	0.05	0.0	0.09	0.80	0.0	0.0							
20	0.0	0.01	0.0	0.04	0.0	1.04	0.0	0.0	0.0	0.05	0.0	0.0							
21	0.0	1.31	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0							
22	0.0	0.0	0.0	0.05	0.0	0.0	0.17	0.0	0.0	0.0	0.37	0.0							
23	0.0	0.0	0.0	0.0	0.63	0.0	0.41	0.0	0.24	0.0	0.01	0.0							
24	0.0	0.01	0.0	0.07	0.0	0.0	0.0	1.80	0.0	0.0	0.0	0.0							
25	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0							
26	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.44	0.0	0.0							
27	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
28	0.0	0.03	0.0	0.0	0.0	0.0	0.70	0.03	0.0	0.0	0.0	0.0							
29	0.0	0.0	0.0	0.07	0.0	0.07	0.0	0.04	0.0	0.0	0.0	0.22							
30	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.03	0.05	0.0							
31	0.0				1.61			0.0											
TOTAL	0.89	1.91	0.17	0.51	4.60	4.08	1.55	2.89	5.46	4.81	0.56	2.65							
STA AV	0.76	1.20	1.75	2.54	3.46	2.31	1.85	3.75	4.05	2.02	0.95	1.00							

NOTES: Precipitation values obtained from two weighting recording type rain gages, Nos. 185 and 187. STA AV based on 7 yr (1965-71) record period.

1971												CHICKASHA, OKLAHOMA				WATERSHED C-5	
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	0.008	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	0.757	0.0	0.0					
3	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.0	0.128	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	0.012	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	0.027	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	0.208	0.0	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.092	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
MEAN	0.0	0.0	0.0	0.0	0.0030	0.0030	0.0	0.0	0.0077	0.0286	0.0	0.0001					
INCHES	0.0	0.0	0.0	0.0	0.171	0.166	0.0	0.0	0.431	1.686	0.0	0.009					
STA AV	0.0	0.0	0.065	0.208	0.116	0.066	0.003	0.057	0.166	0.237	0.010	0.001					

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.859504. STA AV based on 7 yr (1965-71) record period.

CHICKASAW, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, E. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 13.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASAW, OKLAHOMA WATERSHED C-6			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
P	0.49	1.93	0.17	0.53	4.60	4.08	1.55	2.91	4.82	0.56	2.45	29.75				
1971	0.0	0.0	0.0	0.0	0.169	0.178	0.0	0.0	0.851	1.763	0.0	0.078	3.039			
STA AV P	0.76	1.20	1.73	2.56	3.46	2.30	1.84	3.75	4.04	2.03	0.95	1.00	25.59			
Q	0.002	0.012	0.116	0.193	0.185	0.084	0.005	0.124	0.264	0.263	0.032	0.011	1.251			

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	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1971	10-2	0.877	10-2	0.776	10-2	1.123	10-2	1.695	10-2	1.761	10-2	1.763	10-1	1.763	9-25	1.764
MAXIMUMS FOR PERIOD OF RECORD																
	10-2	0.877	10-2	0.776	10-2	1.123	10-2	1.695	10-2	1.761	10-2	1.763	10-1	1.763	9-25	1.764
1971		1971		1971		1971		1971		1971		1971		1971		1971

NOTES: Watershed conditions: 100% cropland, planted to wheat in fall of 1970 and harvested for grain in June 1971. Watershed was moldboard plowed soon after harvest and remained in rough condition until about mid-Aug. 1971, when watershed was disked and spring-tooth harrowed, in preparation for seeding to wheat. Watershed was freshly spring-tooth and spike-tooth harrowed just prior to seeding wheat in mid-Oct. 1971. 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, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 7 yr (1965-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASAW, OKLAHOMA WATERSHED C-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	0.13	0.0	0.0	0.0	0.0	0.03				
2	0.07	0.0	0.02	0.0	0.0	0.27	0.0	0.0	0.0	3.15	0.0	0.61				
3	0.42	0.0	0.0	0.0	0.04	0.83	0.0	0.0	0.0	0.07	0.0	0.05				
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	0.17				
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0				
7	0.0	0.01	0.0	0.0	0.0	0.39	0.0	0.02	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.81	0.0	0.02	0.03	0.52				
9	0.0	0.0	0.0	0.0	0.73	0.25	0.09	0.0	0.0	0.0	0.0	0.14				
10	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.15				
11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.05	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.76				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.42	0.01	0.10	0.0				
18	0.0	0.55	0.0	0.0	0.06	0.0	0.0	0.0	1.89	0.24	0.0	0.0				
19	0.0	0.0	0.0	0.12	0.0	0.0	0.05	0.0	0.09	0.80	0.0	0.0				
20	0.0	0.01	0.0	0.04	0.0	1.05	0.0	0.0	0.09	0.05	0.0	0.0				
21	0.0	1.32	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.05	0.0	0.0	0.17	0.0	0.0	0.0	0.37	0.0				
23	0.0	0.0	0.0	0.0	0.63	0.0	0.41	0.0	0.24	0.0	0.01	0.0				
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	1.88	0.0	0.0	0.0				
25	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.45	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.03	0.0	0.0	0.0	0.0	0.70	0.03	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.08	0.01	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.22				
30	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.03	0.05	0.0				
31	0.0	0.0	0.0	0.0	1.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
TOTAL	0.49	1.93	0.17	0.53	4.60	4.08	1.55	2.91	5.46	4.82	0.56	2.65				
STA AV	0.76	1.20	1.73	2.56	3.46	2.30	1.84	3.75	4.04	2.03	0.95	1.00				

NOTES: Precipitation values obtained from two weighting recording type rain gages, Nos. 185 and 187. STA AV based 7 yr (1965-71) record period.

1971 MEAN DAILY DISCHARGE (cfs)													
CHICKASAW, OKLAHOMA						WATERSHED C-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	0.003	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	0.887	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.077	0.0	0.0	0.0	0.077	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	0.003	
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	0.005	
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	0.016	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	0.020	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	
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	0.072	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.382	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	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	0.092	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	0.0030	0.0032	0.0	0.0	0.0155	0.0311	0.0	0.0014
INCRBS	0.0	0.0	0.0	0.0	0.169	0.178	0.0	0.0	0.851	1.763	0.0	0.078	0.0
STA AV	0.002	0.012	0.116	0.193	0.145	0.084	0.005	0.124	0.264	0.263	0.032	0.011	0.0

NOTES: To convert discharge in CFS to IS/DAY, multiply by 1.830896. STA AV based on 7 yr (1965-71) record period.

CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, E. 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
P	0.50	1.96	0.18	0.52	4.62	4.10	1.55	2.93	5.44	4.86	0.55	2.66	29.87
Q	0.0	0.013	0.0	0.0	0.371	0.357	0.0	0.011	1.382	1.688	0.0	0.052	3.875
STA AV P	0.76	1.19	1.71	2.53	3.44	2.29	1.83	3.73	4.03	2.01	0.94	0.99	25.45
Q	0.0	0.016	0.012	0.232	0.232	0.232	0.128	0.371	0.370	0.311	0.035	0.007	2.042

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF SUBOFF (inches) FOR SELECTED TIME INTERVALS														
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.		
1971	10-2	0.668	10-2	0.523	10-2	0.788	10-2	1.379	10-2	1.596	10-1	1.607	9-25	1.607

MAXIMUMS FOR PERIOD OF RECORD														
	4-12	0.957	4-12	0.637	4-12	0.824	10-2	1.379	10-2	1.596	10-1	1.607	4-9	1.634
	1967	1967	1967	1971	1971	1971	1971	1971	1971	1971	1971	1971	1967	1967

NOTES: Watershed conditions: 100% cropland. North portion was planted to alfalfa in fall of 1970. South portion of watershed was planted to grain and forage sorghams and soy beans. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, USDA Misc. Pub. 1216, pp. 69-36-1 and 69-36-3. Monthly precipitation data from Thiessen weighted rainfall values from two recording weighting type rain gages, Nos. 165 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 7 yr (1965-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-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	0.13	0.0	0.0	0.0	0.0	0.04	
2	0.07	0.0	0.02	0.0	0.0	0.28	0.0	0.0	0.0	3.15	0.0	0.0	0.60	
3	0.83	0.0	0.0	0.0	0.04	0.82	0.0	0.0	0.0	0.08	0.0	0.0	0.04	
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	0.18	
6	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	
7	0.0	0.01	0.0	0.0	0.0	0.38	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.81	0.0	0.02	0.03	0.52	0.0	
9	0.0	0.0	0.0	0.0	0.73	0.26	0.09	0.0	0.0	0.0	0.0	0.0	0.14	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.15	
11	0.0	0.0	0.0	0.0	0.0	0.01	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	0.82	0.0	0.06	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	0.83	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	0.98	0.0	0.0	0.0	0.0	0.76	
15	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	
16	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	
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.40	0.01	0.10	0.0	0.0	
18	0.56	0.0	0.0	0.0	0.06	0.0	0.0	0.0	1.90	0.28	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.13	0.0	0.0	0.05	0.0	0.09	0.81	0.0	0.0	0.0	
20	0.0	0.01	0.0	0.04	0.0	1.06	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
21	0.0	1.32	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.04	0.0	0.0	0.17	0.0	0.0	0.0	0.35	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.64	0.0	0.42	0.0	0.23	0.0	0.01	0.0	0.0	
24	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.79	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	
27	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	
28	0.0	0.04	0.0	0.0	0.0	0.0	0.69	0.03	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.08	0.02	0.0	0.0	0.0	0.04	0.0	0.0	0.23	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.03	0.06	0.0	0.0	
31	0.0	0.0	0.0	0.0	1.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.50	1.96	0.18	0.52	4.62	4.10	1.55	2.93	5.44	4.86	0.55	2.66	29.87	
STA AV	0.76	1.19	1.71	2.53	3.44	2.29	1.83	3.73	4.03	2.01	0.94	0.99	25.45	

NOTES: Precipitation values obtained from two recording weighting type rain gages, Nos. 165 and 187. STA AV based 7 yr (1965-71) record period.

1971												
Day	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATSEBED C-7			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.010	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	1.528	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.273	0.0	0.0	0.0	0.267	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	0.010
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	0.002
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	0.036	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	0.008	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.036
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010
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	0.659	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	0.071	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.0	0.0	0.005	0.0	0.0
21	0.0	0.015	0.0	0.0	0.0	0.036	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	0.078	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.014	0.0	0.0
27	0.0	0.0	0.0	0.0	0.002	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	0.410	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0005	0.0	0.0	0.0133	0.0133	0.0	0.0004	0.0513	0.0607	0.0	0.0019
INCHES	0.0	0.013	0.0	0.0	0.371	0.357	0.0	0.011	1.382	1.688	0.0	0.052
STA AV	0.0	0.016	0.012	0.327	0.232	0.232	0.128	0.371	0.370	0.311	0.035	0.007

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.897498. STA AV based on 7 yr (1965-71) record period.

CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 N., 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	
1971 P	0.52	2.05	0.17	0.56	4.90	4.07	1.69	3.16	5.68	5.34	0.60	2.70	31.44	
Q	0.0	0.000	0.0	0.0	0.001	0.000	0.0	0.001	0.140	1.459	0.0	0.001	1.602	
STA AV P	0.76	1.23	1.73	2.43	3.51	2.29	1.89	3.72	4.00	2.12	0.96	1.01	25.63	
Q	0.0	0.000	0.011	0.077	0.025	0.013	0.067	0.186	0.147	0.209	0.0	0.000	0.735	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	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					
1971	10-2	0.858	10-2	0.693	10-2	0.998	10-2	1.405	10-2	1.458	10-2	1.458	10-1	1.458	9-25	1.458
MAXIMUMS FOR PERIOD OF RECORD																
	10-2	0.858	10-2	0.693	10-2	0.998	10-2	1.405	10-2	1.458	10-2	1.458	10-1	1.458	9-25	1.458
1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971

NOTES: Watershed conditions: 100% cropland, entire watershed was planted to wheat in mid-Oct. 1970 and harvested for grain in mid-June 1971. Watershed was moldboard plowed 8-10 inches deep in late June 1971. Area remained in rough condition until mid-Aug. 1971 when watershed was disked and spring-tooth harrowed in preparation for seeding to wheat. Watershed was seeded to wheat in mid-Oct. 1971. 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. 67, 7-21; Topography, p. 69, 37-5 of foregoing reference. Monthly precipitation obtained from Thimmeson weighted rainfall values from two recording weighing type rain gauges, Nos. 185 and 186. Precipitation and runoff records began April 1, 1965. STA AV based on 7 yr (1965-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, OKLA.

Day	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-8		
	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	0.16	0.0	0.0	0.0	0.0	0.0	0.04		
2	0.07	0.0	0.02	0.0	0.0	0.31	0.0	0.0	0.0	3.45	0.0	0.0	0.60		
3	0.45	0.0	0.0	0.0	0.04	0.77	0.0	0.0	0.0	0.10	0.0	0.0	0.04		
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	0.19		
6	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		
7	0.0	0.01	0.0	0.0	0.0	0.37	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.83	0.0	0.03	0.04	0.0	0.49		
9	0.0	0.0	0.0	0.0	0.79	0.28	0.08	0.0	0.0	0.0	0.0	0.0	0.14		
10	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.16		
11	0.0	0.0	0.0	0.0	0.0	0.01	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	0.04	0.0	0.06	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	0.90	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	1.12	0.0	0.0	0.0	0.0	0.79		
15	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		
16	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		
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.47	0.02	0.10	0.0	0.0		
18	0.0	0.61	0.0	0.0	0.07	0.0	0.0	0.0	1.98	0.27	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.13	0.0	0.0	0.05	0.0	0.08	0.85	0.0	0.0	0.0		
20	0.0	0.01	0.0	0.04	0.0	0.97	0.0	0.0	0.0	0.07	0.0	0.0	0.0		
21	0.0	1.36	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.05	0.0	0.0	0.20	0.0	0.0	0.0	0.38	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.62	0.0	0.46	0.0	0.24	0.0	0.02	0.0	0.0		
24	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.87	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0		
27	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		
28	0.0	0.03	0.0	0.0	0.0	0.0	0.78	0.0	0.03	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.10	0.03	0.0	0.0	0.04	0.0	0.0	0.0	0.25	0.0		
30	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.04	0.06	0.0	0.0		
31	0.0	0.0	0.0	0.0	1.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.52	2.05	0.17	0.56	4.90	4.07	1.69	3.16	5.68	5.34	0.60	2.70	31.44		
STA AV	0.76	1.23	1.73	2.43	3.51	2.29	1.89	3.72	4.00	2.12	0.96	1.01	25.63		

NOTES: Precipitation values obtained from two recording type rain gauges, Nos. 185 and 186. STA AV based on 7 yr (1965-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLABOMA			WALESBEBED C-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	0.0	0.0	1.543	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.128	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	0.001
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	0.001	0.0	0.0	0.0	0.001
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	0.024	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	0.001	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	0.136	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	0.001	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	0.0053	0.0539	0.0	0.0
INCHES	0.0	0.0000	0.0	0.0	0.001	0.000	0.0	0.001	0.140	1.459	0.0	0.001
STA AV	0.0	0.0000	0.011	0.077	0.025	0.013	0.067	0.186	0.147	0.209	0.0	0.000

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.872495. STA AV based on 7 yr (1965-71) record period.

CHICKASHA, OKLAHOMA WATERSHED B-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 B-1											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
P	1.01	1.30	0.02	1.08	4.42	2.92	2.44	3.05	4.78	4.53	0.66	2.95	29.16		
Q	0.0	0.0	0.0	0.001	0.025	0.002	0.002	0.004	0.006	0.009	0.0	0.004	0.053		
STA AV P	0.65	1.01	1.51	3.10	3.57	4.00	1.55	3.11	4.17	1.97	1.64	1.00	27.28		
Q	0.0	0.0	0.0	0.016	0.016	0.037	0.000	0.004	0.006	0.002	0.003	0.000	0.084		

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds B-2, B-3 and B-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 fertilized and sprig-sodded to beranda in 20-inch rows in spring of 1976. Because of unfavorable weather conditions, a poor stand resulted. 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. STA AV based on 10 yr (1962-71) record period. Runoff measured by stage-volume change in a fars pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED B-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	0.86	0.0	0.0	0.0	0.09												
2	0.22	0.0	0.02	0.0	0.0	0.07	0.0	0.0	0.0	1.95	0.0	0.50												
3	0.79	0.0	0.0	0.0	0.03	0.16	0.0	0.0	0.0	0.0	0.0	0.21												
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	0.17												
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	0.44	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	0.71	0.0	0.02	0.03	0.23												
9	0.0	0.0	0.0	0.0	0.49	0.35	0.0	0.0	0.0	0.0	0.0	0.09												
10	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.08												
11	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.04	0.0	0.0	0.0	0.0												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0	1.32												
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	0.11	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	1.33	0.01	0.01	0.0												
18	0.0	0.29	0.0	0.0	0.10	0.0	0.0	0.0	0.91	0.72	0.0	0.0												
19	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.04	0.30	0.0	0.0												
20	0.0	0.0	0.0	0.02	0.0	0.30	0.0	0.0	0.0	0.10	0.0	0.0												
21	0.0	0.95	0.0	0.0	0.0	0.84	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	0.17	0.0	0.0	0.0	0.54	0.0												
23	0.0	0.0	0.0	0.0	0.46	0.0	0.29	0.0	0.15	0.0	0.02	0.0												
24	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	2.35	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	0.67	0.67	0.0	0.0	0.0	0.0	1.03	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.04	0.0	0.0	0.09	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	0.02	0.44	0.0	0.31	0.0	0.25												
30	0.0	0.0	0.0	0.0	0.37	0.04	0.0	0.0	0.0	0.09	0.06	0.0												
31	0.0	0.0	0.0	0.0	2.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL	1.01	1.30	0.02	1.08	4.42	2.92	2.44	3.05	4.78	4.53	0.66	2.95												
STA AV	0.65	1.01	1.51	3.10	3.57	4.00	1.55	3.11	4.17	1.97	1.64	1.00												

NOTES: Precipitation values obtained from one recording rain gage, No. 189. STA AV based on 10 yr (1962-71) record period.

1971		SEAN DAILY DISCHARGE (cfs)					CRICKASHA, OKLABORA WATERSHED E-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	0.0	0.0	0.0	0.004	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	0.001
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 T	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	0.001	0.0	0.0	0.0	0.0
9	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
10	0.0	0.0	0.0	0.0	0.0	0.001	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	0.002	0.0	0.0	0.0	0.002
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	0.001	0.001	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 T	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	0.004	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	0.001	0.0	0.0 T	0.0	0.0	0.0	0.001	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	0.001	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 T	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		0.019		0.0	0.0		0.0		0.0
SEAN	0.0	0.0	0.0	0.0	0.0006	0.0001	0.0	0.0001	0.0001	0.0002	0.0	0.0001
INCHES	0.0	0.0	0.0	0.001	0.025	0.002	0.002	0.004	0.006	0.009	0.0	0.004
STA AV	0.0	0.0	0.0	0.016	0.016	0.037	0.000	0.004	0.006	0.002	0.003	0.000

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.340183. STA AV based on 10 yr (1962-71) record period.

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: 24.0E acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												CHICKASHA, OKLAHOMA WATERSHED R-2											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual									
1971	P	1.06	1.22	0.01	1.16	4.01	2.71	2.25	2.84	4.20	3.97	0.66	2.51	26.60									
	Q	0.0	0.0	0.0	0.0	0.034	0.020	0.004	0.001	0.006	0.010	0.0	0.003	0.07E									
STA AV	P	0.61	0.96	1.35	3.03	3.44	3.90	1.49	2.99	3.9E	1.87	1.59	0.94	26.16									
	Q	0.0001	0.0	0.002	0.049	0.031	0.046	0.001	0.02E	0.030	0.008	0.009	0.004	0.209									

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. 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. STA AV based on 10 yr (1952-71) record period. Runoff measured by Stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED R-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	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.07										
2	0.24	0.0	0.01	0.0	0.0	0.05	0.0	0.0	0.0	1.76	0.0	0.0	0.38											
3	0.82	0.0	0.0	0.0	0.03	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.15											
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	0.15											
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	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.69	0.0	0.0	0.0	0.03	0.19											
9	0.0	0.0	0.0	0.0	0.50	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.07											
10	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.08											
11	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											
12	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.03	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	0.06	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	1.55	0.0	0.0	0.0	0.0	1.14											
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	0.13	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	1.19	0.01	0.01	0.0	0.0											
18	0.0	0.30	0.0	0.0	0.08	0.0	0.0	0.0	0.76	0.66	0.0	0.0	0.0											
19	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.02	0.23	0.0	0.0	0.0											
20	0.0	0.0	0.0	0.03	0.0	0.18	0.0	0.0	0.0	0.0	0.07	0.0	0.0											
21	0.0	0.88	0.0	0.0	0.0	0.83	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	0.12	0.0	0.0	0.0	0.54	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.42	0.0	0.26	0.0	0.12	0.0	0.02	0.0	0.0											
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	2.11	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	0.74	0.64	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.03	0.0	0.06	0.0	0.0	1.09	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	0.02	0.51	0.0	0.29	0.0	0.24	0.0											
30	0.0	0.0	0.0	0.0	0.31	0.02	0.0	0.0	0.0	0.09	0.06	0.0	0.0											
31	0.0	0.0	0.0	0.0	1.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
TOTAL	1.06	1.22	0.01	1.16	4.01	2.71	2.25	2.84	4.20	3.97	0.66	2.51	26.60											
STA AV	0.61	0.96	1.35	3.03	3.44	3.90	1.49	2.99	3.9E	1.87	1.59	0.94	26.16											

NOTES: Precipitation values obtained from one recording rain gage, No. 190. STA AV based on 10 yr (1962-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED B-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	0.001	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	0.008	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	0.001	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 T	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0 T
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	0.001	0.0	0.0	0.0	0.003
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	0.001	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	0.002	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	0.006	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 T	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	0.003	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	0.001	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	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0011	0.0007	0.0001	0.0	0.0002	0.0003	0.0	0.0001
INCHES	0.0	0.0	0.0	0.0	0.034	0.020	0.004	0.001	0.006	0.010	0.0	0.003
STA AV	0.001	0.0	0.002	0.049	0.031	0.046	0.001	0.028	0.030	0.008	0.009	0.004

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.988441. STA AV based on 10 yr (1962-71) record period.

CHICKASHA, OKLAHOMA WATERSHED R-3

LOCATION: Caddo County, Oklahoma; SE 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; Wasbita 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		
1971 P	1.02	1.18	0.01	1.24	3.92	2.58	2.21	2.92	4.09	4.00	0.64	2.47	26.28		
Q	0.0	0.0	0.0	0.0	0.018	0.001	0.001	0.001	0.004	0.004	0.0	0.0	0.025		
STA AV P	0.60	0.96	1.36	3.01	3.36	3.86	1.47	2.97	3.89	1.87	1.56	0.91	25.82		
Q	0.0	0.0	0.001	0.020	0.012	0.015	0.000	0.012	0.015	0.004	0.004	0.001	0.084		

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. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.40-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 191. Precipitation records began Jan. 1, 1962. STA AV based on 10 yr (1962-71) record period. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED R-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	0.80	0.0	0.0	0.0	0.0	0.0	0.06			
2	0.21	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	1.82	0.0	0.0	0.40			
3	0.81	0.0	0.0	0.0	0.03	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.17			
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	0.15			
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	0.49	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	0.0	0.71	0.0	0.02	0.03	0.17	0.0			
9	0.0	0.0	0.0	0.0	0.49	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.06			
10	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.09			
11	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			
12	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.02	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	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.65	0.0	0.0	0.0	0.0	1.15			
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	0.11	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	1.18	0.01	0.01	0.0	0.0			
18	0.0	0.27	0.0	0.0	0.09	0.0	0.0	0.0	0.75	0.64	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.02	0.24	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.04	0.0	0.10	0.0	0.0	0.0	0.08	0.0	0.0	0.0			
21	0.0	0.87	0.0	0.0	0.0	0.85	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	0.14	0.0	0.0	0.0	0.53	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.43	0.0	0.28	0.0	0.11	0.0	0.02	0.0	0.0			
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	2.07	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	0.87	0.59	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0			
27	0.0	0.03	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.03	0.0	0.06	0.0	0.0	1.01	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	0.02	0.47	0.0	0.27	0.0	0.22	0.0			
30	0.0	0.0	0.0	0.0	0.33	0.03	0.0	0.0	0.0	0.08	0.05	0.0	0.0			
31	0.0	0.0	0.0	0.0	1.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	1.02	1.18	0.01	1.24	3.92	2.58	2.21	2.92	4.09	4.00	0.64	2.47				
STA AV	0.60	0.96	1.36	3.01	3.36	3.86	1.47	2.97	3.89	1.87	1.56	0.91				

NOTES: Precipitation values obtained from one recording rain gage, No. 191. STA AV based on 10 yr (1962-71) record period.

1971		BEAR DAILY DISCHARGE (cfs)										CHICKASAW, OLLINOBA				WATERSHED #3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.0	0.0	0.0	0.0	0.0	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	0.0004	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	0.0 T	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 T	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	0.001	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	0.001	0.0	0.0	0.0	0.0			T	
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 T	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	0.004	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 T	0.0				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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 T	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	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
BEAR	0.0	0.0	0.0	0.0	0.0006	0.0	0.0	0.0	0.0001	0.0001	0.0001	0.0	0.0				
INCHES	0.0	0.0	0.0	0.0	0.018	0.001	0.001	0.001	0.004	0.004	0.004	0.0	0.0				
STA AV	0.0	0.0	0.001	0.020	0.012	0.015	0.000	0.012	0.015	0.004	0.004	0.001	0.001				

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.921117. STA AV based on 10 yr (1962-71) record period.

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
1971	P	1.09	1.40	0.01	1.27	4.70	2.89	2.36	3.10	4.93	4.32	0.56	2.86	25.49										
	Q	0.0	0.0	0.0	0.0	0.023	0.0	0.001	0.001	0.002	0.002	0.0	0.0	0.029										
STA AV	P	0.64	0.94	1.34	3.12	3.65	4.08	1.89	3.06	4.15	1.97	1.60	0.96	26.99										
	Q	0.0	0.0	0.0	0.061	0.019	0.030	0.000	0.019	0.016	0.004	0.004	0.0	0.153										

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. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 65-41-1 and 69-41-2. Precipitation data obtained from recording rain gage No. 192. Precipitation records began Jan. 1, 1962. STA AV based on 10 yr (1962-71) record period. Runoff measured by stage-volume change in a fars pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED R-4											
												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	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.95									
2	0.23	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	1.75	0.0	0.0	0.0	0.18									
3	0.86	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18									
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	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	0.15									
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	0.0									
7	0.0	0.0	0.0	0.0	0.0	0.51	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	0.74	0.0	0.02	0.02	0.02	0.23	0.0									
9	0.0	0.0	0.0	0.0	0.56	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09									
10	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08									
11	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	0.0									
12	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.02	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	0.05	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	1.74	0.0	0.0	0.0	0.0	0.0	1.40	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	0.11	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	1.34	0.01	0.01	0.0	0.0	0.0									
18	0.0	0.39	0.0	0.0	0.10	0.0	0.0	0.0	0.98	0.67	0.0	0.0	0.0	0.0									
19	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.04	0.30	0.0	0.0	0.0	0.0									
20	0.0	0.01	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0									
21	0.0	0.95	0.0	0.0	0.0	0.89	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	0.15	0.0	0.0	0.0	0.46	0.0	0.0	0.0									
23	0.0	0.0	0.0	0.0	0.49	0.0	0.26	0.0	0.16	0.0	0.02	0.0	0.0	0.0									
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	2.41	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	0.85	0.61	0.0	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0									
27	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
28	0.0	0.04	0.0	0.06	0.0	0.0	1.19	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	0.02	0.55	0.0	0.31	0.0	0.30	0.0	0.0	0.0									
30	0.0	0.0	0.0	0.0	0.34	0.03	0.0	0.0	0.0	0.12	0.05	0.0	0.0	0.0									
31	0.0	0.0	0.0	0.0	2.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
TOTAL		1.09	1.40	0.01	1.27	4.70	2.89	2.36	3.10	4.93	4.32	0.56	2.86										
STA AV		0.64	0.94	1.34	3.12	3.65	4.08	1.89	3.06	4.15	1.97	1.60	0.96										

NOTES: Precipitation obtained from one recording rain gage, No. 192. STA AV based on 10 yr (1962-71) record period.

1971 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED R-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	0.0	0.0	0.0	0.002	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 T	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	0.001	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 T	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	0.002	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 T	0.0	0.0	0.0	0.0	0.0 T	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	0.001	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 T
31	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0006	0.0	0.0	0.0	0.0001	0.0	0.0	0.0
ISCUES	0.0	0.0	0.0	0.0	0.023	0.0	0.001	0.001	0.002	0.002	0.0	0.0
STA AV	0.0	0.0	0.0	0.061	0.019	0.030	0.000	0.019	0.016	0.004	0.004	0.0

NOTES: To convert discharge in CFS to M³/DAY, multiply by 1.313557. STA AV based on 10 yr (1962-71) record period.

CRICKASHA, 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)												CRICKASHA, OKLAHOMA WATERSHED R-5													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
P	0.57	1.74	0.15	0.57	4.16	5.09	1.86	3.90	6.50	5.67	0.56	2.07	33.74												
1971	Q	0.0	0.0	0.0	0.0	0.312	0.0	0.003	0.204	1.010	0.0	0.256	1.784												
STA AV	P	0.84	1.23	1.72	2.67	4.22	2.95	2.69	2.80	4.68	2.64	1.26	26.97												
	Q	0.0	0.030	0.046	0.215	0.142	0.154	0.055	0.000	0.085	0.171	0.004	0.043	0.946											

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge Date	1 Hour			2 Hours			6 Hours			24 Hours						
	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.				
1971	10-2	0.426	10-2	0.303	10-2	0.444	10-2	0.821	10-2	1.007	10-2	1.010	10-1	1.010	9-25	1.010
MAXIMUMS FOR PERIOD OF RECORD																
	4-12	0.879	4-12	0.577	4-12	0.721	10-2	0.821	10-2	1.007	10-2	1.010	10-1	1.010	4-9	1.066
	1967	1967	1967	1971	1971	1971	1971	1971	1971	1971	1971	1971	1967	1967		

NOTES: Watershed conditions: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1971 was good, however, entire area was slightly overgrazed during the spring and summer. The vegetative cover in early December 1970, based on 25 clipped samples uniformly spaced, averaged 1,660 pounds of standing grass, 300 pounds of weeds, and 1,535 pounds of slash per acre. Prior to Oct. 1970 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. 1216, 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, Nos. 195 and 196. Precipitation and runoff records began July 1, 1966. STA AV based on 6 yr (1966-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)												CRICKASHA, OKLAHOMA WATERSHED R-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.08	0.0	0.03	0.0	0.0	0.0	0.76	0.0	0.0	0.0	3.57	0.0	0.48										
3	0.49	0.0	0.0	0.0	0.02	0.81	0.0	0.0	0.0	0.15	0.0	0.12											
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	0.20											
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.05	0.0	0.0	0.0											
7	0.0	0.04	0.0	0.0	0.0	0.82	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	0.94	0.0	0.04	0.02	0.43											
9	0.0	0.0	0.0	0.0	0.85	0.19	0.02	0.0	0.0	0.0	0.0	0.14											
10	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.13											
11	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.07	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.32	0.0	0.0	0.0	1.01											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.01											
16	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.82	0.0	0.10	0.0											
18	0.0	0.19	0.0	0.0	0.10	0.0	0.0	0.0	2.36	0.43	0.0	0.0											
19	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.10	0.66	0.0	0.0											
20	0.0	0.0	0.0	0.08	0.0	0.52	0.0	0.0	0.0	0.15	0.0	0.0											
21	0.0	1.44	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.04	0.0	0.0	0.14	0.0	0.0	0.0	0.36	0.0											
23	0.0	0.0	0.0	0.0	0.37	0.0	0.63	0.0	0.27	0.0	0.02	0.0											
24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	1.86	0.0	0.0	0.0											
25	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.03	0.99	0.0	0.0	0.0	0.0	0.65	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	0.0	0.0											
28	0.0	0.02	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.37											
30	0.0	0.0	0.0	0.0	0.30	0.01	0.0	0.0	0.0	0.02	0.06	0.0											
31	0.0	0.0	0.0	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
TOTAL	0.57	1.74	0.15	0.57	4.16	5.09	1.86	3.90	6.50	5.67	0.56	2.97											
STA AV	0.84	1.23	1.72	2.67	4.22	2.95	2.69	2.80	4.68	2.64	1.26	2.26											

NOTES: Precipitation obtained from Thiessen weighted values from two gages, Nos. 195 and 196. STA AV based on 6 yr (1966-71) record period.

1971	MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA WATERSHED E-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	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.771	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.135	0.0	0.0	0.0	0.235	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	0.0	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
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	0.169	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	0.001	0.0	0.0	0.0	0.233
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.022
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	0.086	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	0.117	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	0.0103	0.0	0.0001	0.0068	0.0325	0.0	0.0082
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.312	0.0	0.003	0.208	1.010	0.0	0.256
STA AV	0.0	0.030	0.046	0.215	0.142	0.154	0.055	0.000	0.085	0.171	0.004	0.0	0.043

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.003842. STA AV based on 6 yr (1966-71) record period.

CHICKASHA, OKLAHOMA WATERSHED B-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8-1/2 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.22 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED B-6													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1971 P	0.52	1.72	0.14	0.60	4.07	5.01	1.88	3.85	6.56	5.41	0.56	2.91	33.23													
Q	0.0	0.013	0.0	0.0	0.002	0.175	0.0	0.029	0.307	0.982	0.0	0.141	1.649													
STA AV P	0.84	1.26	1.72	2.62	4.30	2.92	2.68	2.81	4.73	2.57	1.26	1.25	28.96													
Q	0.0	0.018	0.031	0.226	0.172	0.097	0.042	0.011	0.103	0.169	0.007	0.023	0.898													

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													CHICKASHA, OKLAHOMA WATERSHED B-6												
	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	Rate	Date	Vol.						
1971	10-2	0.452	10-2	0.309	10-2	0.448	10-2	0.850	10-2	0.979	10-2	0.979	10-1	0.979	9-25	0.979									

MAXIMUMS FOR PERIOD OF RECORD																			
4-12	1.066	4-12	0.658	4-12	0.808	4-12	0.879	10-2	0.979	10-2	0.979	4-11	0.989	4-10	1.098				
1967	1967	1967	1967	1967	1971	1971	1971	1971	1967	1967	1967	1967	1967	1967	1967				

NOTES: Watershed conditions: 100% rangeland, native grass continuously grazed by beef cattle during recent years. Range condition class during the year was good to excellent, however, entire area was slightly overgrazed throughout the year. The vegetative cover in mid-Nov. 1970, based on 25 uniformly spaced clipped samples, averaged 2,500 pounds of standing grass, 200 pounds of weeds, and 2,700 pounds of mulch. This watershed was in the same pasture area as watershed B-5, however, was subjected to a slightly lighter grazing rate. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Risc. Pub. 1226, pp. 69.43-1 and 69.43-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gauges, Nos. 196 and 197. Precipitation and runoff records began July 1, 1966. STA AV based on 6 yr (1966-71) record period. For long-term precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1971	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED B-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	0.49	0.0	0.0	0.0	0.0	0.03												
2	0.08	0.0	0.02	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.39	0.0	0.50												
3	0.44	0.0	0.0	0.0	0.0	0.01	0.83	0.0	0.0	0.0	0.14	0.0	0.12												
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	0.20												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.04	0.0	0.0	0.0												
7	0.0	0.04	0.0	0.0	0.0	0.0	0.80	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	0.89	0.0	0.03	0.02	0.42												
9	0.0	0.0	0.0	0.0	0.0	0.83	0.19	0.02	0.0	0.0	0.0	0.0	0.12												
10	0.0	0.0	0.0	0.0	0.0	0.01	0.40	0.0	0.0	0.0	0.0	0.0	0.20												
11	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												
12	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.08	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	0.31	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	2.25	0.0	0.0	0.0	0.57												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.80	0.0	0.10	0.0												
18	0.0	0.17	0.0	0.0	0.09	0.0	0.0	0.0	0.0	2.40	0.41	0.0	0.0												
19	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	1.10	0.66	0.0	0.0												
20	0.0	0.0	0.0	0.08	0.0	0.0	0.51	0.0	0.0	0.0	0.16	0.0	0.0												
21	0.0	1.44	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.36	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.60	0.0	0.28	0.0	0.03	0.0												
24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.88	0.0	0.0	0.0												
25	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.02	0.54	0.0	0.0	0.0	0.0	0.0	0.60	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	0.0	0.0	0.0												
28	0.0	0.02	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	0.20	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.35												
30	0.0	0.0	0.0	0.0	0.30	0.02	0.0	0.0	0.0	0.0	0.02	0.05	0.0												
31	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL	0.52	1.72	0.14	0.60	4.07	5.01	1.88	3.85	6.56	5.41	0.56	2.91	33.23												
STA AV	0.84	1.26	1.72	2.62	4.30	2.92	2.68	2.81	4.73	2.57	1.26	1.25	28.96												

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gauges, Nos. 196 and 197. STA AV based on 6 yr (1966-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA WATERSHED R-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 T	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.936	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.103	0.0	0.0	0.0	0.0	0.104	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	0.001	
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	0.002	
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	0.072	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	0.032	0.0	0.0	0.0	0.155	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.003	
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	0.005	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.151	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	0.003	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	0.015	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.194	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 T	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 T	
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	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0005	0.0	0.0	0.0001	0.0067	0.0	0.0011	0.0117	0.0362	0.0	0.0052	
INCHES	0.0	0.013	0.0	0.0	0.002	0.175	0.0	0.029	0.307	0.902	0.0	0.141	
STA AV	0.0	0.018	0.031	0.226	0.172	0.097	0.042	0.011	0.103	0.169	0.007	0.023	

NOTES: To convert discharge in CFS to 10/DAY, multiply by 0.674418. STA AV based on 6 yr (1966-71) record period.

CHICKASAW, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 N., E. 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)												CHICKASAW, OKLAHOMA WATERSHED R-7														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
P	0.51	1.70	0.16	0.54	4.14	5.12	1.66	3.95	6.21	5.54	0.52	2.90	32.95													
Q	0.0	0.177	0.0	0.0	0.284	1.331	0.0	0.477	1.794	2.031	0.0	0.630	6.723													
STA AV P	0.82	1.17	1.67	2.48	4.12	2.91	2.56	2.82	4.53	2.49	1.17	1.21	27.95													
Q	0.061	0.101	0.162	0.527	0.645	0.638	0.349	0.194	0.838	0.486	0.123	0.105	4.229													

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge				Maximum Volume for Selected Time Interval												
Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days									
Date	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.									
1971	10-2	2.005	10-2	0.603	10-2	1.131	10-2	1.757	10-2	1.889	10-2	1.889	10-1	1.889	9-25	1.888
1969	5-6	2.179	4-12	0.939	6-13	1.143	10-2	1.757	10-2	1.889	10-2	1.889	10-1	1.889	4-9	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 to fair. The vegetative cover in mid-Nov. 1970 based on 25 uniformly spaced clipped samples, averaged 1,330 pounds of standing grass, 160 pounds of weeds, and 900 pounds per acre of mulch. Prior to Oct. 1970, this watershed was within the same pasture area as Watershed R-6, however, it was enclosed by separate fence in order to implement an improved management program. 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 gages, Nos. 193 and 194. Precipitation and runoff records began July 1, 1966. STA AV based on 6 yr (1966-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1971 DAILY PRECIPITATION (inches)													CHICKASAW, OKLAHOMA WATERSHED R-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	0.36	0.0	0.0	0.0	0.0	0.02												
2	0.07	0.0	0.03	0.0	0.0	0.92	0.0	0.0	0.0	3.58	0.0	0.46												
3	0.44	0.0	0.0	0.0	0.02	0.77	0.0	0.0	0.0	0.15	0.0	0.15												
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	0.18												
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0												
7	0.0	0.01	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.99	0.0	0.03	0.03	0.0												
9	0.0	0.0	0.0	0.0	0.80	0.17	0.0	0.0	0.0	0.0	0.0	0.12												
10	0.0	0.0	0.0	0.0	0.01	0.42	0.0	0.0	0.0	0.0	0.0	0.21												
11	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.08	0.0	0.0	0.0	0.0												
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.33	0.0	0.0	0.0	1.02												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.01												
16	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.69	0.0	0.10	0.0												
18	0.0	0.20	0.0	0.0	0.10	0.0	0.0	0.0	2.33	0.41	0.0	0.0												
19	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.09	0.60	0.0	0.0												
20	0.0	0.0	0.0	0.04	0.0	0.56	0.0	0.0	0.0	0.17	0.0	0.0												
21	0.0	1.41	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.0	0.0	0.0	0.31	0.0												
23	0.0	0.0	0.0	0.0	1.02	0.0	0.60	0.0	0.25	0.0	0.03	0.0												
24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.02	0.95	0.0	0.0	0.0	0.0	0.63	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.03	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.35												
30	0.0	0.0	0.0	0.0	0.28	0.01	0.0	0.0	0.0	0.01	0.05	0.0												
31	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL	0.51	1.70	0.16	0.54	4.14	5.12	1.66	3.95	6.21	5.54	0.52	2.90												
STA AV	0.82	1.17	1.67	2.48	4.12	2.91	2.56	2.82	4.53	2.49	1.17	1.21												

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. STA AV based on 6 yr (1966-71) record period.

1971 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLABOMA WATERSHED R-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 T	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.251	0.0	0.0	0.0	1.373	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.343	0.0	0.0	0.0	0.150	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	0.025	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.006	0.0	0.0	0.0	0.060
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	0.057
11	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.436	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	0.366	0.0	0.0	0.0	0.362
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.008
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	0.056	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.713	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	0.062	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.004	0.0	0.0
21	0.0	0.143	0.0	0.0	0.0	0.003	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	0.051	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	0.676	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	0.038	0.0	0.0	0.0	0.0	0.047	0.0	0.0
27	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.001	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	0.021
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	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0051	0.0	0.0	0.0074	0.0358	0.0	0.0124	0.0482	0.0528	0.0	0.0164
INCHES	0.0	0.177	0.0	0.0	0.284	1.331	0.0	0.477	1.794	2.031	0.0	0.630
STA AV	0.061	0.101	0.162	0.527	0.645	0.638	0.349	0.194	0.838	0.486	0.123	0.105

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.240315. STA AV based on 6 yr (1966-71) record period.

CHICKASHA, OKLAHOMA WATERSHED E-8

LOCATION: Crady County, Oklahoma; NW 1/4 sec. 13, T. 7 N., 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 E-8															
	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	
1971	P	0.50	1.65	0.15	0.58	4.03	4.80	1.90	3.69	6.19	5.20	0.56	2.90	32.15	Q	0.0	0.056	0.0	0.0	0.129	0.786	0.0	0.197	1.222	1.567	0.0	0.384	4.302
STA AV	P	0.84	1.26	1.74	2.48	4.29	2.88	2.63	2.76	4.61	2.44	1.21	1.24	28.38	Q	0.016	0.048	0.070	0.308	0.452	0.391	0.222	0.086	0.339	0.047	0.065	2.593	

ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Station	Maximum Discharge			Maximum Volume for Selected Time Interval												
	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.					
1971	10-2	1.308	10-2	0.468	10-2	0.876	10-2	1.380	10-2	1.499	10-2	1.500	10-1	1.500	9-25	1.500

MAXIMUMS FOR PERIOD OF RECORD												
Station	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1969	5-6	1.828	5-6	0.724	10-2	0.876	10-2	1.380	10-2	1.499	10-2	1.500
1969	1969	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971

NOTES: Watershed conditions: Formerly cultivated from about 1907, when land use was changed to pasture because of severe erosion. Range condition class during the year was poor to fair. The vegetative cover in mid-Nov. 1970, based on 25 uniformly spaced clipped samples, average 1,400 pounds of standing grass, 100 pounds of weeds, and 1,200 pounds per acre of mulch. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 65-95-1 and 65-95-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. Precipitation and runoff records began July 1, 1966. STA AV based on 6 yr (1966-71) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1971 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED E-8													
Day	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	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.03		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	0.10	0.0	0.03	0.0	0.0	0.90	0.0	0.0	0.0	3.26	0.0	0.51		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	0.40	0.0	0.0	0.0	0.01	0.80	0.0	0.0	0.0	0.13	0.0	0.15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.18		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	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	0.0	
7	0.0	0.01	0.0	0.0	0.0	0.71	0.0	0.0	0.0	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	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.04	0.02	0.39		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	0.82	0.16	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	
10	0.0	0.0	0.0	0.0	0.0	0.37	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	
11	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	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	0.94	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	0.0	0.0	0.0	
13	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	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.10	0.0	0.0	0.0	0.96		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	0.04	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	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.16	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	0.0	0.0	
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.67	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	
18	0.0	0.16	0.0	0.0	0.10	0.0	0.0	0.0	2.29	0.41	0.0	0.0		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	0.09	0.0	0.0	0.0	0.0	0.09	0.63	0.0	0.0		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	0.08	0.0	0.47	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	0.0	
21	0.0	1.42	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0		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	0.04	0.0	0.12	0.0	0.0	0.0	0.0	0.35	0.0		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	1.01	0.0	0.57	0.0	0.26	0.0	0.03	0.0		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	0.05	0.0	0.0	0.0	0.0	0.0	0.0	1.81	0.0	0.0	0.0		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	0.12	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.02	0.92	0.0	0.0	0.0	0.59	0.0	0.0		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	0.16	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	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.01	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.36		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	0.28	0.02	0.0	0.0	0.0	0.01	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	0.0	
31	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		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	0.50	1.65	0.15	0.58	4.03	4.80	1.90	3.69	6.19	5.20	0.56	2.90		0.84	1.26	1.74	2.48	4.29	2.88	2.63	2.76	4.61	2.44	1.21	1.24	
STA AV	0.84	1.26	1.74	2.48	4.29	2.88	2.63	2.76	4.61	2.44	1.21	1.24														

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. STA AV based on 6 yr (1966-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA WATERSHED R-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 T	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.214	0.0	0.0	0.0	1.562	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.370	0.0	0.0	0.0	0.174	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	0.022	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.020	0.0	0.0	0.0	0.036
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 T	0.0	0.0	0.0	0.0	0.0	0.036
11	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.246	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	0.199	0.0	0.0	0.0	0.339
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.008
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.042	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.491	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	0.046	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.003	0.0	0.0
21	0.0	0.065	0.0	0.0	0.0	0.002	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	0.049	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	0.482	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	0.021	0.0	0.0	0.0	0.0	0.028	0.0	0.0
27	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0 T	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	0.026
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	0.062	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0023	0.0	0.0	0.0048	0.0288	0.0	0.0074	0.0472	0.0585	0.0	0.0143
INCRES	0.0	0.056	0.0	0.0	0.129	0.746	0.0	0.197	1.222	1.567	0.0	0.384
STA AV	0.016	0.048	0.070	0.308	0.452	0.391	0.222	0.086	0.549	0.339	0.047	0.065

NOTES: To convert discharge in CFS to I8/DAT, multiply by 0.863944. STA AV based on 6 yr (1966-71) record period.

SONORA, TEXAS WATERSHED W-14

LOCATION: Sutton County, Texas; gaging station on Water Street at Sonora city limit; Lowery Draw, East Fork Devils River, Devils River, Rio Grande River Basins.

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																
P	0.0	1.62	0.0	2.67	0.88	1.92	4.05	8.07	2.06	0.25	0.49	0.79	26.82																	
1971	Q	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.020																	
STA AV	P	0.68	1.33	0.86	2.65	2.86	1.67	1.69	2.15	3.75	2.07	1.35	0.76	21.83																
	Q	0.0	0.0	0.0	0.0	0.012	0.0	0.002	0.0	0.088	0.007	0.0	0.0	0.105																
ANNUAL MAXIMUM DISCHARGE (ia/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														
1971		7-28	0.008	7-28	0.006	7-28	0.010	7-28	0.013	7-28	0.014	7-28	0.014	7-26	0.019	7-21	0.020													
MAXIMUMS FOR PERIOD OF RECORD																														
		9-23	0.060	9-23	0.060	9-23	0.120	9-23	0.220	9-23	0.270	9-23	0.380	9-23	0.610	9-21	0.800													
		1964		1964		1964		1964		1964		1964		1964		1964														

NOTES: Watershed conditions: 0.8% caliche and paved roads; 0.35 urban area; 1.36 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. 1562, p. 70-71. Precipitation data by Thiessen method using rain gages 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 National Weather Service records at Texas Agricultural Experiment Station, Substation No. 15, 16 miles south of Sonora, Texas.

1971 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	
1	69	41	56	31	74	48	78	56	79	54	95	69	88	70	82	62	88	64	79	67	77	60	48	39	
2	66	48	55	38	73	37	67	37	84	55	94	72	89	64	67	63	87	68	79	68	80	54	42	39	
3	68	52	62	44	51	22	70	38	87	57	93	71	91	68	77	62	85	69	79	65	79	46	44	33	
4	52	23	62	45	62	32	69	51	87	63	90	67	95	69	78	59	90	70	77	60	67	42	46	33	
5	68	41	67	27	77	43	65	36	83	64	90	69	96	68	77	61	91	70	72	61	72	50	44	38	
6	35	11	66	31	77	39	63	32	90	65	92	69	95	67	76	59	94	69	77	56	70	47	60	32	
7	35	21	51	22	58	27	70	33	89	60	95	69	95	68	75	60	95	67	76	55	49	40	67	39	
8	49	18	54	12	65	37	77	49	83	65	93	69	93	70	80	62	94	68	73	59	60	46	70	48	
9	61	26	54	25	76	51	78	54	83	69	93	69	94	69	84	63	90	63	74	60	68	51	67	36	
10	70	30	61	22	70	42	77	55	86	67	91	70	95	66	84	70	87	63	78	48	59	36	62	34	
11	75	38	77	45	78	55	83	54	89	61	91	72	95	72	83	65	85	65	78	52	69	40	66	35	
12	74	50	76	42	81	51	82	58	71	53	87	64	91	70	75	68	87	63	78	57	68	43	63	43	
13	76	58	67	33	85	45	79	57	71	40	87	66	93	69	76	67	90	57	73	56	73	50	65	35	
14	78	44	75	43	83	57	74	55	81	45	87	66	93	67	76	66	89	62	77	54	73	52	73	53	
15	77	34	76	33	75	35	75	57	87	55	90	67	92	68	82	65	89	60	81	62	74	60	65	35	
16	70	32	81	49	77	45	72	53	89	62	86	64	94	68	85	65	91	61	80	63	75	65	64	45	
17	76	36	81	52	77	49	73	54	93	62	87	66	94	72	86	66	91	67	79	67	72	60	56	41	
18	76	42	76	62	75	59	85	55	93	63	89	68	92	71	85	64	86	53	76	61	68	45	55	39	
19	59	28	75	50	65	33	81	61	90	56	89	67	94	69	85	63	53	49	77	59	60	34	65	39	
20	62	32	80	43	67	33	72	46	81	61	86	65	94	69	85	67	74	45	67	46	72	36	71	39	
21	77	47	78	35	83	47	81	45	85	67	88	67	94	68	86	68	75	49	74	45	72	59	69	38	
22	80	46	52	27	87	45	87	60	88	68	87	67	95	72	87	67	75	65	76	49	65	48	69	33	
23	80	38	65	29	81	39	82	50	93	70	85	65	93	71	89	68	78	66	76	55	58	39	67	38	
24	72	47	65	39	81	50	82	49	94	60	87	63	91	68	89	69	77	65	72	45	58	61	71	42	
25	75	43	67	51	79	57	84	55	85	54	89	68	79	67	90	68	80	67	75	54	56	40	71	47	
26	75	36	66	44	84	42	93	63	85	67	87	60	79	70	89	67	84	68	75	63	65	39	70	50	
27	74	36	66	33	83	56	91	66	85	70	79	67	79	68	89	69	83	70	73	45	64	35	75	57	
28	70	45	70	52	93	57	91	61	87	64	80	69	82	69	87	68	82	69	75	57	63	47	74	50	
29	75	53	90	53	91	59	87	70	81	66	88	69	88	70	80	65	75	65	74	39	70	59			
30	79	40			74	44	73	56	88	67	87	70	87	67	87	65	79	65	79	66	68	40	67	45	
31	79	42			79	54			88	70			81	61	86	64			77	65			61	46	
1 AV		68	37	67	38	76	45	78	52	86	61	89	67	91	69	83	65	84	63	76	58	68	46	63	41
NR89		52.4		52.7		60.5		65.0		73.7		78.0		79.7		74.0		73.9		66.9		57.0		52.2	
STA AV		60	33	61	35	70	42	79	53	83	59	89	65	93	67	92	67	85	62	78	53	69	43	61	36

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 1630 of the day shown. STA AV based on 8 yr record period.

1971 DAILY PRECIPITATION (inches)												SONORA, TEXAS WATERSHED #-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	1.31	0.0	0.0	0.0	0.0											
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.68	0.0	0.0	0.0	0.38E											
3	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	1.28	0.0	0.0											
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.02E											
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.00E	0.0	0.18E											
6	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
7	0.0	0.0	0.0	0.0	0.61E	0.0	0.0	0.15E	0.0	0.47	0.15E	0.0											
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	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	0.25E											
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0											
11	0.0	0.0	0.0	0.0	0.08E	0.01	0.0	0.92	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.23E	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.63E	0.0	0.0	0.0	0.0											
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53E	0.0	0.01E	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.57	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	1.70	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.0											
17	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0											
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.15E	0.0	0.0											
19	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.36E	0.99	0.0	0.0	0.0											
20	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0											
21	0.0	0.29E	0.0	0.0	0.0	0.33E	0.0	0.0	0.0	0.0	0.0	0.0											
22	0.0	0.0	0.0	0.0	0.0	0.35E	0.0	0.0	0.16E	0.0	0.35E	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.0	1.18	0.0	0.0	0.0											
24	0.0	0.0	0.0	0.0	0.00E	0.0	0.09E	0.0	0.48E	0.0	0.0	0.0											
25	0.0	1.34	0.0	0.0	0.0	0.0	0.71	0.0	0.00E	0.0	0.0	0.0											
26	0.0	0.0	0.0	0.0	0.0	0.0	0.71E	0.02E	0.0	0.69	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.05E	0.0	1.49	0.0	0.0	0.00E	0.0	0.0											
28	0.0	0.0	0.0	0.03	0.0	0.03E	0.75E	0.09E	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.76	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	0.03E	0.0	0.01E	0.0	0.0	0.0	0.0	0.0											
31	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0											
TOTAL	0.0	1.62	0.0	2.67	0.88	1.92	4.05	8.07	2.06	4.25	0.49	0.79											
STA AV	0.68	1.33	0.86	2.65	2.86	1.67	1.69	2.15	3.75	2.07	1.35	0.76											

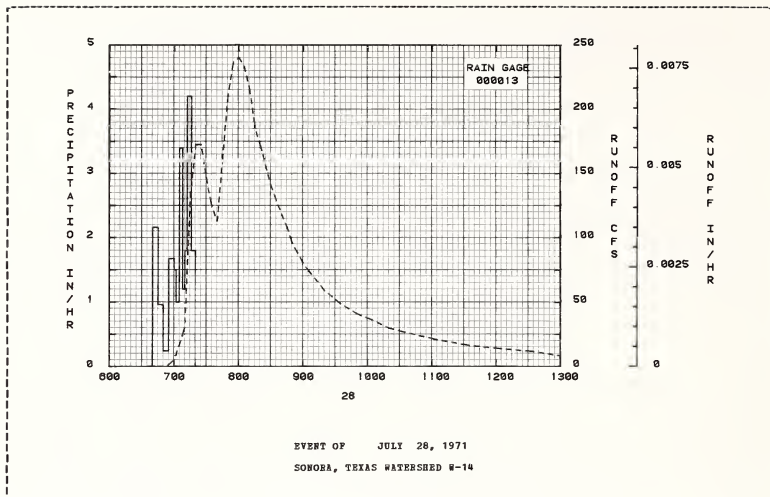
NOTES: Precipitation values are Thiessen weighted average of rain gages 1, 1-A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr period. Estimate codes may indicate that non-significant event totals are included.

1971 REAR DAILY DISCHARGE (cfs)												SONORA, TEXAS WATERSHED #-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	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	5.097	0.0	0.0	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	2.788	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.0	0.0	0.0	0.0	0.0	18.098	0.0	0.0	0.0	0.0	0.0											
29	0.0	0.0	0.0	0.0	0.0	0.0	0.254	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											
REAR	0.0	0.0	0.0	0.0	0.0	0.0	0.8461	0.0	0.0	0.0	0.0	0.0											
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0											
STA AV	0.0	0.0	0.0	0.0	0.012	0.0	0.002	0.0	0.084	0.007	0.0	0.0											

NOTES: To convert mean daily discharge in CFS to DMS, multiply by 0.000775. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr period.

1971 SELECTED RANOFF EVENT			SONORA, TEXAS WATERSHED #=14							
ANTECEDENT CONDITIONS			RAINFALL				RANOFF			
Date	Rainfall	Ranoff	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 28, 1971										
7-28	EG 000013 0.0	0.0	7-28	EG 000013			7-28			
				640	0.0	0.0		645	0.0	0.0
				645	2.1600	0.18		650	0.290	0.0
				650	0.9600	0.26		655	1.330	0.0
				655	0.2400	0.28		700	5.170	0.0
				700	1.6800	0.42		705	16.350	0.0
WATERSHED CONDITIONS:				702	1.5000	0.47		710	30.410	0.0001
0.4% caliche and paved roads;				705	1.0000	0.52		715	131.870	0.0003
0.3% urban area; 0.3% cropland;				708	3.4000	0.69		720	172.390	0.0007
99.0% rangeland. Crophand seeded to oats in fall				710	1.2000	0.73		725	172.390	0.0012
for winter grazing. Rangeland moderately to severely				712	1.8000	0.79		730	145.950	0.0016
overgrazed during the year				716	4.2000	1.07		735	124.110	0.0020
depending on climatic				720	1.8000	1.19		740	114.830	0.0023
conditions and stocking								745	160.840	0.0027
rates.								750	211.940	0.0032
								755	236.880	0.0038
								800	240.050	0.0045
								805	232.880	0.0051
								810	215.440	0.0057
								815	185.810	0.0063
								820	171.460	0.0068
								825	156.060	0.0072
								830	140.740	0.0076
								835	128.920	0.0080
								840	116.110	0.0083
								845	108.400	0.0086
								850	95.430	0.0089
								855	87.850	0.0091
								900	80.070	0.0093
								905	74.370	0.0095
								920	58.770	0.0100
								935	48.690	0.0104
								950	40.950	0.0108
								1005	35.860	0.0111
								1020	29.750	0.0114
								1035	26.440	0.0116
								1105	20.660	0.0120
								1135	16.310	0.0123
								1205	13.750	0.0125
								1235	11.530	0.0127
								1305	8.260	0.0129
								1405	6.030	0.0131
								1505	4.690	0.0133
								1605	3.840	0.0134
								1705	3.090	0.0135

NOTE: To convert ranoff in cfs to in/hr, multiply by 0.000032.



SONORA, TEXAS WATERSHED 5-9

LOCATION: Sutton County, Texas; gaging station on Water Street at Sonora city limit; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande river Basin.

AREA: 1774.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													SONORA, TEXAS WATERSHED 5-9	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P 0.0	0.0	1.46	0.0	3.28	0.40	1.69	4.66	8.25	2.87	4.93	0.47	0.80	28.84
	Q 0.0	0.0	0.0	0.008	0.0	0.0	0.006	0.183	0.003	0.024	0.0	0.0	0.225	
STA AV	P 0.68	1.32	0.90	2.48	2.76	1.83	1.68	2.04	4.03	2.07	1.19	0.79	21.76	
	Q 0.0	0.0	0.001	0.002	0.007	0.016	0.001	0.018	0.270	0.004	0.0	0.008	0.323	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1971	Maximum Discharge			Maximum Volume for Selected Time Interval												
	Date	Rate	Vol.	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.				
	8-15	0.055	8-15	0.028	8-15	0.052	8-15	0.096	8-15	0.113	8-14	0.128	8-14	0.131	8-14	0.131

MAXIMUMS FOR PERIOD OF RECORD															
1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964			
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

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, USDA 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 National Weather Service records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1971	DAILY PRECIPITATION (inches)												
	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	1.28	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	1.67	0.0	0.0	0.0	0.0	0.38
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.80	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	0.02	0.0	0.0	0.03E
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.0	0.0	0.0	0.0	0.15E
6	0.0	0.0	0.0	0.0	0.05E	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	0.20E	0.0	0.0	0.23E	0.0	0.51	0.15E	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	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	0.23E
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.20E	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.76	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	0.73	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	1.20	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	2.43	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	0.07E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.20E	0.0	0.0	0.0
19	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.40	1.88	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	0.26E	0.0	0.0	0.0	0.14E	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	0.37E	0.0	0.0	0.28E	0.0	0.32	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	1.82	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	0.25	0.0	0.0	0.0	0.0
25	0.0	1.20	0.0	0.0	0.0	0.0	0.73	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	1.34	0.0	0.0	0.67	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.10E	0.0	2.06	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.04	0.0	0.07E	0.48	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.65	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
TOTAL	0.0	1.46	0.0	3.28	0.40	1.69	4.66	8.25	2.87	4.93	0.47	0.80	
STA AV	0.68	1.32	0.90	2.48	2.76	1.83	1.68	2.04	4.03	2.07	1.19	0.79	

NOTES: For daily air temperature, in the vicinity, see table for Watershed #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 10 yr record period. Estimate codes may indicate that non-significant event totals are included.

1971 NEAR DAILY DISCHARGE (cfs)												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	0.0	0.0	0.0	0.0	0.283	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.583	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	0.265	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	0.272	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	0.827	0.0	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.968	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.592	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	1.280	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	0.227	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	0.045	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.415	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	0.041	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	0.0211	0.0	0.0	0.0134	0.4407	0.0076	0.0588	0.0	0.0				
INCHES	0.0	0.0	0.0	0.008	0.0	0.0	0.006	0.183	0.003	0.024	0.0	0.0				
STA AV	0.0	0.0	0.001	0.002	0.007	0.016	0.001	0.018	0.270	0.004	0.0	0.004				

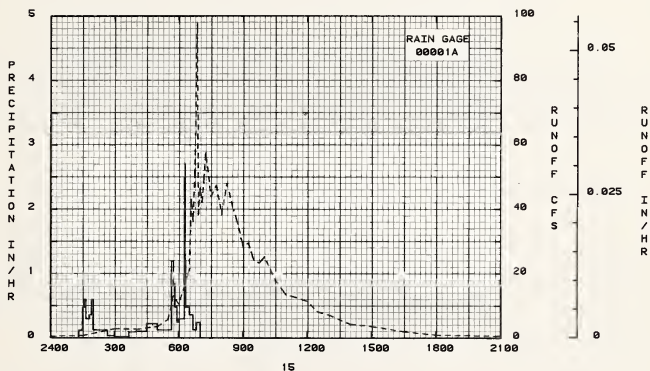
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013417. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr record period.

1971 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED S-9				
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.						
Ro-Day	(inches)	(inches)	Ro-Day	of Day	(in/hr)	(inches)	Ro-Day	of Day	(cfs)	(inches)						
EVENT OF AUGUST 14 - 15, 1971																
RG 00001A				RG 00001A												
8-15	0.76		8-15	0.0	0.0	0.0	8-14	2400	0.537	0.0						
8-14		0.011		130	0.1200	0.02	8-15	130	0.716	0.0006						
				135	0.4799	0.06		300	2.862	0.0030						
				140	0.6000	0.11		400	2.683	0.0045						
				150	0.3000	0.16		500	3.578	0.0065						
WATERSHED CONDITIONS:																
				155	0.3600	0.19		530	5.724	0.0081						
				200	0.5598	0.24		545	13.058	0.0099						
				220	0.1200	0.28		600	10.554	0.0114						
				240	0.1200	0.32		615	15.920	0.0136						
				300	0.0300	0.33		630	21.465	0.0166						
				380	0.0150	0.34		635	43.110	0.0186						
				400	0.0900	0.37		640	36.312	0.0203						
				430	0.1000	0.42		645	50.980	0.0227						
				500	0.2200	0.53		650	97.846	0.0272						
				540	0.1200	0.61		655	38.459	0.0290						
				545	1.1999	0.71		700	46.687	0.0312						
				550	0.8401	0.78		705	42.215	0.0331						
				555	0.4799	0.82		710	49.370	0.0354						
				600	0.2400	0.84		715	57.599	0.0382						
				616	0.3000	0.92		730	44.004	0.0443						
				618	2.6999	1.01		745	47.403	0.0509						
				620	1.2002	1.05		800	38.459	0.0563						
				630	0.4799	1.13		815	48.118	0.0630						
				640	0.3601	1.19		830	40.963	0.0687						
				650	0.1199	1.21		845	35.418	0.0737						
				700	0.2401	1.25		900	28.442	0.0777						
								915	29.515	0.0818						
								930	24.149	0.0852						
								945	23.254	0.0884						
								1000	25.222	0.0919						

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

1971 SELECTED RUNOFF EVENT			SONORA, TEXAS WATERSHED S-9							
ATTACHED 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 14 - 15, 1971 (CONTINUED)										
							8-15	1030	18.067	0.0970
								1100	13.416	0.1008
								1130	12.521	0.1083
								1200	11.448	0.1075
								1230	8.050	0.1098
								1300	7.155	0.1118
								1400	4.293	0.1142
								1500	3.578	0.1162
								1630	1.968	0.1179
								1800	0.894	0.1186
								2400	0.537	0.1204

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



EVENT OF AUGUST 14 - 15, 1971
SONORA, TEXAS WATERSHED S-9

SONORA, TEXAS WATERSHED 5-10

LOCATION: Sutton County, Texas; gaging 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 EBHOFF (inches)												SONORA, TEXAS WATERSHED 5-10													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
P	0.0	1.57	0.0	2.81	0.93	2.36	3.86	8.00	2.47	3.66	0.47	0.76	26.88												
Q	0.0	0.000	0.0	0.000	0.000	0.0	0.035	0.532	0.0	0.0	0.0	0.0	0.568												
STA AV P	0.68	1.32	0.86	2.53	2.79	1.88	1.49	2.07	3.80	1.88	1.31	0.76	21.38												
Q	0.0	0.000	0.0	0.000	0.025	0.012	0.003	0.053	0.192	0.011	0.0	0.005	0.302												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF EBHOFF (inches) FOR SELECTED TIME INTERVALS																						
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.	Date	Vol.	Date	Vol.	Date	Vol.		
1971	8-15	0.174	8-15	0.133	8-15	0.228	8-15	0.347	8-14	0.360	8-14	0.404	8-13	0.414	8-7	0.426						

MAXIMUMS FOR PERIOD OF RECORD															
Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.	Discharge Date	Vol.				
9-23 1968	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 Epidemiologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70-3-6. Thiessen weighted rainfall using rain gages 1, 1-A, 2, 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 National Weather Service records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1971 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED 5-10												
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	1.28	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.62	0.0	0.0	0.0	0.44E													
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.01E													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.13E													
6	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.65E	0.0	0.0	0.21E	0.0	0.45	0.13E	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	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	0.17E													
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0													
11	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.86	0.0	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.71	0.0	0.16E	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.76	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.19	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	1.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.15E	0.0	0.0													
19	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.31	0.76	0.0	0.0													
20	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.26E	0.0	0.0	0.0	0.49E	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.0	0.0	0.0	0.55E	0.0	0.0	0.30E	0.0	0.34E	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	1.56	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0													
25	0.0	1.31	0.0	0.0	0.0	0.0	0.65	0.0	0.00E	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.33E	0.01E	0.0	0.60	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.07E	0.0	1.73	0.0	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.04	0.0	0.05E	0.81E	0.01E	0.0	0.0	0.0	0.0													
29	0.0	0.0	0.0	0.77	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	0.02E	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	0.0	1.57	0.0	2.81	0.93	2.36	3.86	8.00	2.47	3.66	0.47	0.76													
STA AV	0.68	1.32	0.86	2.53	2.79	1.88	1.49	2.07	3.80	1.88	1.31	0.76													

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70-001-1. Precipitation values are Thiessen weighted average of rain gages 1, 1-A, 2, 4, 5, 6, and 7. Records began May 1961; part-year amounts not included in average. STA AV based on 10 yr record period. Estimate codes may indicate that non-significant event totals are included.

1971 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	21.890	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	0.064	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	4.830	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	2.106	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.192	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.478	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.089	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	0.045	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	7.895	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.042	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	0.0016	0.0	0.0030	0.0021	0.0	0.2587	3.8860	0.0	0.0	0.0	0.0
INCHES	0.0	0.0000	0.0	0.0000	0.0000	0.0	0.035	0.532	0.0	0.0	0.0	0.0
STA AV	0.0	0.0000	0.0	0.0000	0.0025	0.012	0.0003	0.053	0.192	0.011	0.0	0.0005

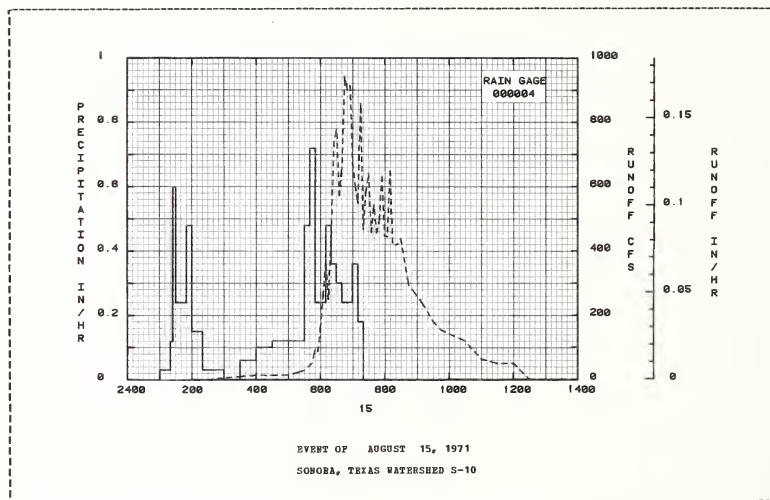
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000414. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr period.

1971 SELECTED RUNOFF EVENT				SONORA, TEXAS WATERSHED S-10							
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Rainfall	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 15, 1971											
RG 000004											
8-15	0.97	0.045	8-15	100	0.0	0.0	8-15	230	0.0	0.0	
				120	0.030	0.01		330	9.786	0.0018	
				125	0.1199	0.02		400	14.136	0.0031	
				130	0.6000	0.07		430	13.592	0.0043	
				140	0.2400	0.11		500	14.136	0.0056	
WATERSHED CONDITIONS:											
				150	0.2401	0.15		515	21.204	0.0066	
				200	0.4800	0.23		530	29.359	0.0079	
				220	0.1500	0.28		545	51.651	0.0103	
				300	0.0300	0.30		550	92.428	0.0117	
				330	0.0	0.30		555	87.535	0.0130	
				400	0.0600	0.33		600	160.390	0.0155	
				430	0.1000	0.38		605	260.428	0.0194	
				500	0.1200	0.44		610	370.799	0.0250	
				530	0.1200	0.50		615	250.099	0.0290	
				540	0.4800	0.58		620	455.070	0.0359	
				550	0.7200	0.70		625	741.053	0.0471	
				600	0.2401	0.74		630	780.198	0.0594	
				610	0.2400	0.78		635	572.509	0.0680	
				620	0.4800	0.86		640	460.586	0.0780	
				630	0.3600	0.92		645	943.852	0.0929	
				640	0.3000	0.97		650	899.812	0.1065	
				650	0.2401	1.01		655	915.035	0.1203	
				700	0.2400	1.05		700	673.092	0.1309	
				710	0.3600	1.11		705	602.812	0.1400	
				720	0.1800	1.14		710	548.585	0.1483	
								715	858.490	0.1619	
								720	465.944	0.1689	
								725	582.838	0.1777	
								730	642.644	0.1879	
								735	457.246	0.1948	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000164.

1971 SELECTED RONOFF EVENT				SONORA, TEXAS WATERSHED S-10						
ANTICIPATED 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 15, 1971 (CONTINUED)										
							8-15	740	543.148	0.2030
								745	455.070	0.2102
								750	496.936	0.2177
								755	631.227	0.2272
								800	445.827	0.2392
								805	444.196	0.2409
								810	649.712	0.2507
								815	424.625	0.2574
								820	418.643	0.2637
								825	422.992	0.2701
								830	438.217	0.2770
								845	291.962	0.2904
								900	266.972	0.3024
								915	224.545	0.3127
								930	181.050	0.3210
								945	153.322	0.3281
								1030	119.069	0.3445
								1100	63.068	0.3503
								1130	49.476	0.3548
								1200	50.563	0.3594

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000184.



SONORA, TEXAS WATERSHED S-11

LOCATION: Sutton County, Texas; gaging 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												
F	0.0	1.61	0.0	2.77	1.16	2.70	3.96	7.82	1.82	3.31	0.84	0.57	26.16												
1971	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.563	0.0	0.0	0.0	0.0	0.602												
STA AV P	0.70	1.31	0.83	2.70	3.05	1.83	1.77	2.06	3.71	1.80	1.31	0.75	21.82												
Q	0.0	0.0	0.0	0.020	0.097	0.009	0.004	0.051	0.135	0.045	0.001	0.008	0.369												

AVERAGE MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	1 Hour		2 Hours		6 Hours		1 Day		2 Days		8 Days					
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1971	8-15	0.346	8-15	0.197	8-15	0.308	8-15	0.457	8-15	0.481	8-14	0.484	8-13	0.484	8-7	0.484

MAXIMUMS FOR PERIOD OF RECORD															
Date	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964				
9-23	0.390	9-23	0.310	9-23	0.550	9-23	0.770	9-23	0.780	9-23	0.780	9-23	0.910	9-19	1.250
1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Caliche roads - 0.45; rangeland - 99.64. 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-B. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 18, 18 miles south of Sonora, Texas.

1971 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	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.73	0.0	0.0	0.0	0.0	0.41												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	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	0.02E												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.12E												
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	0.0												
7	0.0	0.0	0.0	0.0	0.87	0.0	0.0	0.12E	0.0	0.44	0.14E	0.0	0.0												
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	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	0.02E												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.21E	0.0	0.0	0.0	0.0	0.0												
13	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.75	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	0.73	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	1.20	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	1.72	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	0.09E	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.15E	0.0	0.0	0.0												
19	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.30	0.70	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	0.28	0.0	0.0	0.0	0.0	0.13E	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	1.25	0.0	0.0	0.26	0.0	0.30	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.98	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.0	0.0	0.0	0.0												
25	0.0	1.33	0.0	0.0	0.0	0.0	0.58	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	0.35	0.0	0.0	0.57	0.0	0.0	0.0												
27	0.0	0.0	0.0	0.0	0.74E	0.0	1.36	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.05	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0	0.0	0.0	0.80	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	0.05E	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	0.0	1.61	0.0	2.77	1.16	2.70	3.96	7.82	1.82	3.31	0.84	0.57													
STA AV	0.70	1.31	0.83	2.70	3.05	1.83	1.77	2.06	3.71	1.80	1.31	0.75													

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001-1. Precipitation values are Thomsen weighted average of rain gages 5, 6, 7, 8, 9, 10, and 11. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr record period. Estimate codes may indicate that non-significant event totals are included.

1971		MEAN DAILY DISCHARGE (cfs)										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	0.0	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	35.86	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	219.38	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	0.58	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	16.31	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	0.5662	8.2324	0.0	0.0	0.0	0.0	
INCESS	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.563	0.0	0.0	0.0	0.0	
STA #V	0.0	0.0	0.0	0.020	0.097	0.009	0.008	0.051	0.135	0.045	0.001	0.008	

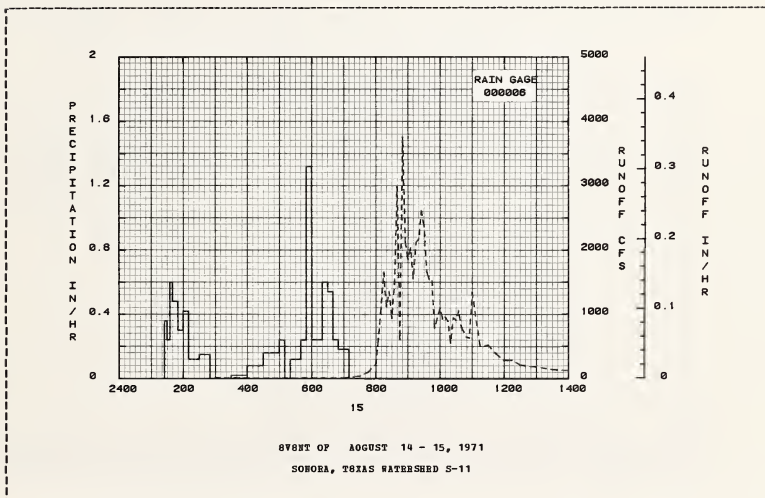
NOTES: To convert mean daily discharge in CFS to M/DAY, multiply by 0.002207. Records began May 1961; part-year amounts not included in averages. STA #V based on 10 yr record period.

1971		SELECTED RUNOFF EVENT										SONORA, TEXAS WATERSHED S-11	
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	RAINFALL			RUNOFF						
				Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)			
EVENT OF AUGUST 14 - 15, 1971													
8-15	EG 000006		8-15	EG 000006			8-15	300	10.877	0.0			
	0.45	0.001		125	0.0	0.0		430	6.526	0.0009			
				130	0.360	0.03		600	9.789	0.0022			
				135	0.2399	0.05		700	9.789	0.0031			
				140	0.6000	0.10		730	36.981	0.0048			
				150	0.4800	0.18							
				200	0.3000	0.23		785	97.892	0.0070			
				210	0.4200	0.30		800	218.626	0.0120			
				230	0.1200	0.34		805	626.509	0.0167			
				250	0.1500	0.39		810	1108.358	0.0251			
				330	0.0	0.39		815	1658.726	0.0382			
				400	0.0200	0.40		820	1118.143	0.0466			
				430	0.0800	0.44		825	1359.611	0.0569			
				500	0.1600	0.52		830	937.587	0.0643			
				510	0.2401	0.56		835	1078.169	0.0754			
				520	0.0	0.56		840	2991.144	0.0980			
				530	0.1200	0.58		845	599.315	0.1027			
				540	0.1199	0.60		850	3765.580	0.1311			
				550	0.2401	0.64		855	2117.730	0.1471			
				600	1.3200	0.86		900	1055.596	0.1618			
				610	0.2400	0.90		905	2030.715	0.1771			
				620	0.2400	0.94		910	1554.308	0.1888			
				630	0.6000	1.04		915	2122.082	0.2056			
				640	0.5400	1.13		920	2174.290	0.2220			
				650	0.2401	1.17		925	2614.804	0.2417			
				710	0.1800	1.23		930	2361.373	0.2604			
								935	1664.164	0.2730			
								940	1541.256	0.2846			
								945	1523.851	0.2966			
								950	784.224	0.3025			
								955	935.413	0.3096			

NOTES: To convert runoff in CFS to M/HR, multiply by 0.000092.

1971 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED S-11					
PRECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 14 - 15, 1971 (CONTINUED)											
8-15											
							1000		1098.565		0.3183
							1005		920.185		0.3252
							1010		958.253		0.3324
							1015		888.641		0.3394
							1020		546.020		0.3435
							1025		944.113		0.3506
							1030		904.956		0.3577
							1035		1055.057		0.3657
							1040		785.311		0.3716
							1045		715.698		0.3773
							1050		643.912		0.3822
							1055		624.333		0.3869
							1100		1340.032		0.3975
							1115		501.425		0.4090
							1130		519.915		0.4209
							1145		379.603		0.4296
							1200		277.361		0.4360
							1215		284.974		0.4425
							1230		206.661		0.4472
							1300		176.206		0.4553
							1330		138.137		0.4617
							1415		117.470		0.4698
							1430		90.278		0.4719
							1500		63.086		0.4748
							1530		44.595		0.4768
							1600		35.894		0.4785
							1630		30.455		0.4799
							1700		51.121		0.4822
							1730		0.0		0.4822
							1800		0.0		0.4822
							1830		22.841		0.4832

NOTES: To convert runoff in CFS to I²/H², multiply by 0.000092.



SONORA, TEXAS WATERSHED 5-12

LOCATION: Sutton County, Texas; gaging station on flood detention reservoir, 2 mi. SE 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 5-12				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1971	P 0.0	1.58	0.0	2.25	0.85	1.49	4.15	7.84	1.51	4.14	0.53	0.69	25.02				
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.162	0.0	0.0	0.0	0.0	0.526				
STA AV	P 0.67	1.29	0.79	2.76	2.97	1.42	1.94	2.09	3.50	2.10	1.30	0.72	21.54				
	Q 0.0	0.0	0.0	0.058	0.190	0.001	0.012	0.053	0.162	0.063	0.0	0.026	0.585				

ANNUAL MAXIMUM DISCHARGE (in/hc) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	8-15	0.069	8-15	0.041	8-15	0.053	8-16	0.082	8-15	0.149	8-15	0.216	8-14	0.310	8-8	0.181

MAXIMUMS FOR PERIOD OF RECORD																				
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.							
1964	9-23	1.200	1964	9-23	0.790	1964	9-23	1.000	1964	9-23	1.080	1964	9-23	1.090	1964	9-23	1.150	1964	9-19	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 gages 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 National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14, approximately 18 miles south of Sonora, Texas.

1971	DAILY PRECIPITATION (inches)												SONORA, TEXAS WATERSHED 5-12				
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	1.41	0.0	0.0	0.0	0.0					
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.61	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	1.31	0.0	0.0					
4	0.0	0.0	0.0	0.0	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	0.0	0.0	3.00E	3.0	0.00E	0.0	0.10E					
6	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
7	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.05E	0.0	0.38	0.12E	0.0					
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	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	0.23E					
10	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0					
11	0.0	0.0	0.0	0.0	0.17E	0.06	0.0	0.81	0.0	0.0	0.0	0.0					
12	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.26E	0.0	0.0	0.0	0.0					
13	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.28E	0.0	0.0	0.0	0.0					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36E	0.0	0.08E	0.0	0.0					
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.99	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
17	0.0	0.0	0.0	0.09E	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	0.14E	0.16E	0.0	0.0	0.0					
19	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.36E	0.83	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	0.29	0.0	0.0	0.0	0.0	0.29E	0.0	0.0	0.0	0.0	0.0					
22	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.03E	0.0	0.41	0.0					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.25E	0.0	0.70	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0	0.30E	0.0	0.28E	0.0	0.0	0.0					
25	0.0	1.29	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	0.58E	0.0	0.0	0.69	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.01E	0.0	1.30	0.0	0.0	0.03E	0.0	0.0					
28	0.0	0.0	0.0	0.00	0.0	0.06E	0.35	0.02E	0.0	0.0	0.0	0.0					
29	0.0	0.0	0.83	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	0.00E	0.0	0.0	0.0	0.0	0.0					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0					
TOTAL	0.0	1.58	0.0	2.25	0.85	1.49	4.15	7.84	1.51	4.14	0.53	0.69					
STA AV	0.67	1.29	0.79	2.76	2.97	1.42	1.94	2.09	3.50	2.10	1.30	0.72					

NOTES: For daily air temperature, in the vicinity, see table for Watershed #14, p. 70-001-1. Precipitation values are Thiessen weighted average of rain gages 8, 10, 11, 12, and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr record period. Estimate codes may indicate that non-significant event totals are included.

1971 MEAN DAILY DISCHARGE (cfs)						SONORA, 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	16.140	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.891	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	0.530	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	31.292	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.058	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	1.9971	0.0	0.0	0.0	0.0
INCREAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.526	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.058	0.190	0.001	0.012	0.053	0.162	0.083	0.0	0.026

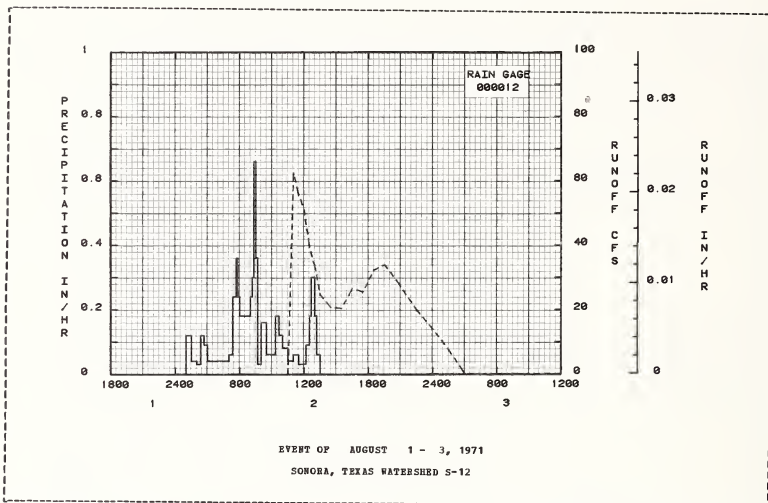
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.008496. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr record period.

1971 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED S-12					
ANTICIPATED CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 1 - 3, 1971											
8-2	RC 000012		8-2	RC 000012			8-2				
	0.02	0.0		100	0.0	0.0	1030	0.0	0.0	0.0	
				130	0.1200	0.06	1100	62.418	0.0055		
				200	0.0400	0.06	1130	55.357	0.0759		
				220	0.0300	0.09	1200	50.438	0.0263		
				240	0.1200	0.13	1230	39.258	0.0333		
WATERSHED CONDITIONS:			300	0.0900	0.16		1300	33.610	0.0397		
Paved roads - 0.28 of the			400	0.0400	0.20		1330	24.572	0.0449		
area, rangeland - 99.8%.			500	0.0400	0.24		1430	20.618	0.0529		
Range conditions poor to			520	0.0600	0.26		1530	20.335	0.0602		
fair, with moderate to severe			540	0.2400	0.38		1630	26.549	0.0685		
overgrazing during a year											
depending on climatic			550	0.3600	0.40		1730	25.419	0.0777		
conditions and stocking			600	0.2400	0.44		1830	32.197	0.0679		
rates.			610	0.1800	0.47		1930	33.892	0.0996		
			630	0.1800	0.53		2100	27.114	0.1158		
			700	0.1800	0.62		2230	19.770	0.1282		
			710	0.2400	0.66		2400	13.839	0.1371		
			720	0.3000	0.71		8-3	130	7.343	0.1427	
			730	0.6600	0.82		300	0.0	0.1446		
			740	0.3600	0.88		430	0.0	0.1446		
			800	0.3000	0.89		600	0.0	0.1446		
			830	0.1600	0.97		730	0.0	0.1446		
			900	0.0600	1.00		900	0.0	0.1446		
			920	0.0600	1.02		1030	0.0	0.1446		
			940	0.1800	1.08		1200	0.0	0.1446		
			1000	0.1200	1.12		1500	0.0	0.1446		
			1030	0.0800	1.16		1800	0.0	0.1446		
			1100	0.0400	1.18		2100	0.0	0.1446		
			1130	0.0600	1.21		2400	0.0	0.1446		
			1210	0.0300	1.23						
			1230	0.0900	1.26						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000354.

1971 SELECTED RUNOFF EVENT				SONORA, TEXAS WATERSHED 5-12						
PRECEDENT 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 1 - 3, 1971 (CONTINUED)										
8-2										
				1240	0.1800	1.29				
				1250	0.3000	1.34				
				1300	0.3000	1.39				
				1310	0.1800	1.42				
				1330	0.0600	1.44				

NOTES: To convert runoff in CFS to IS/HR, multiply by 0.000354.



SONORA, TEXAS WATERSHED S-13

LOCATION: Sutton County, Texas; gaging 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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.0	1.59	0.0	2.03	0.60	1.75	5.23	7.45	0.92	3.57	0.57	0.60	24.31														
Q	0.0	0.004	0.0	0.005	0.001	0.001	0.733	0.536	0.0	0.0	0.0	0.0	1.280														
STA AV P	0.72	1.37	0.80	2.73	2.74	1.44	1.76	1.86	3.18	2.05	1.32	0.72	20.68														
Q	0.0	0.000	0.001	0.073	0.075	0.000	0.074	0.054	0.096	0.064	0.0	0.007	0.445														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1971	Maximum Discharge			Maximum Volume for Selected Time Interval												
	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.				
1971	7-28	1.717	7-28	0.554	7-28	0.626	7-28	0.648	7-27	0.648	7-27	0.657	7-26	0.728	7-25	1.264
	7-28	1.717	7-28	0.554	7-28	0.626	9-23	0.680	9-23	0.680	9-23	0.680	7-26	0.728	7-25	1.264
			1971		1971		1964		1964		1964		1971		1971	

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 Risc. Pub. 1262, p. 70.6-7. Precipitation data by Thiessen method using rain gages 12 and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 19, 18 miles south of Sonora, Texas.

1971 DAILY PRECIPITATION (inches)													SONORA, TEXAS WATERSHED S-13												
Day	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	0.0	0.0	0.0	0.0	0.0	0.0	1.55	0.0	0.0	0.0	0.0	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	1.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25E
3	0.0	0.0	0.0	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E
6	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	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.05E	0.0	0.43	0.07E	0.0	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	0.67	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23E
10	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	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	0.03E	0.08	0.0	0.68	0.0	0.0	0.0	0.0	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	0.69	0.0	0.25E	0.0	0.0	0.0	0.0	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	0.12	0.0	0.00E	0.0	0.0	0.0	0.0	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	0.25	0.0	0.03E	0.0	0.0	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	1.85	0.0	0.0	0.0	0.0	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	1.16	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	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.20E	0.03E	0.0	0.0	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	0.10E	0.0	0.0	0.0	0.0	0.0	0.28E	0.72	0.0	0.0	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	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	0.32	0.0	0.0	0.0	0.0	0.82E	0.0	0.0	0.0	0.0	0.0	0.0	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	0.04E	0.0	0.0	0.0	0.0	0.50	0.0	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	0.17E	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	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.08E	0.0	0.0	0.0	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	1.27	0.0	0.0	0.0	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	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	1.37	0.0	0.0	0.60	0.0	0.0	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	1.08	0.0	0.0	0.00E	0.0	0.0	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	1.19	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	0.0
29	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.0	1.59	0.0	2.03	0.60	1.75	5.23	7.45	0.92	3.57	0.57	0.60													
STA AV	0.72	1.37	0.80	2.73	2.74	1.44	1.76	1.86	3.18	2.05	1.32	0.72													

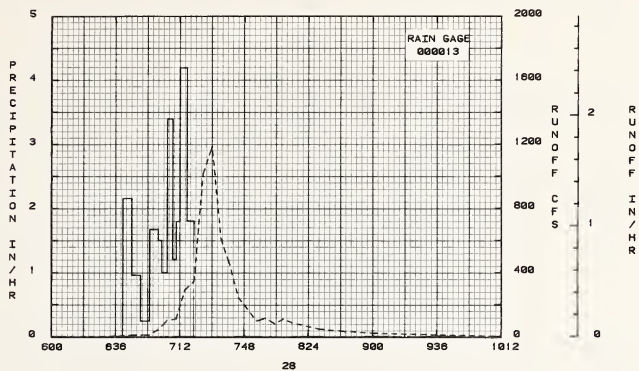
NOTES: For daily air temperatures, in the vicinity, see table for W-14 p. 70.001-1. Precipitation values are Thiessen weighted average of rain gages 12 and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 10 yr record period. Estimate codes may indicate that non-significant event totals are included.

1971 SEAN DAILY DISCHARGE (cfs)												SOBORA, TEXAS WATERSHED S-13													
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	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.496	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	
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	
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	
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	
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	
7	0.0	0.0	0.0	0.0	0.0	0.022	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	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	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	15	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	0.071	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	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	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	
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	
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	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.038	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	
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	
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	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.147	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	0.119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.119	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	1.621	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	0.662	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	
28	0.0	0.0	0.0	0.0	0.071	0.0	0.0	18.687	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	
29	0.0	0.0	0.0	0.0	0.004	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	
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	
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	
MEAN	0.0	0.0042	0.0	0.0049	0.0007	0.0013	0.6812	0.4983	0.0	0.0	0.0	0.0	MEAN	0.0	0.0042	0.0	0.0049	0.0007	0.0013	0.6812	0.4983	0.0	0.0	0.0	
INCHES	0.0	0.004	0.0	0.005	0.001	0.001	0.733	0.536	0.0	0.0	0.0	0.0	INCHES	0.0	0.004	0.0	0.005	0.001	0.001	0.733	0.536	0.0	0.0	0.0	
STA AV	0.0	0.000	0.001	0.073	0.075	0.000	0.074	0.054	0.096	0.064	0.0	0.007	STA AV	0.0	0.000	0.001	0.073	0.075	0.000	0.074	0.054	0.096	0.064	0.0	0.007

NOTES: To convert sean daily discharge in CFS to IB/DAY, multiply by 0.038656. Records began in May 1961; part-year amounts not included in averages. STA AV based on 10 yr record period.

1971 SELECTED RUMOFF EVENT												SOBORA, TEXAS WATERSHED S-13											
ANTECEDENT CONDITIONS				RAINFALL				RUMOFF															
Date	Rainfall	Rumoff	Date	Rainfall	Intensity	Acc.	Date	Rumoff	Rate	Acc.													
Mo-Day	(inches)	(inches)	Mo-Day	Mo-Day	(in/hr)	(inches)	Mo-Day	Mo-Day	(cfs)	(inches)													
EVENT OF JULY 28, 1971																							
7-28	RG 000013	0.0	7-28	RG 000013	680	0.0	0.0	7-28	600	0.0	0.0												
					685	2.1600	0.18		630	0.208	0.0002												
					650	0.9600	0.26		665	9.684	0.0037												
					655	0.2400	0.28		655	10.929	0.0063												
					700	1.6800	0.42		700	44.616	0.0118												
WATERSHED CONDITIONS:				702	1.5000	0.47	705	101.890	0.2339														
Paved roads - 1.5% of the				705	1.0000	0.52	710	111.366	0.0371														
area, rangeland - 98.5%.				708	3.4000	0.69	715	295.431	0.0738														
Range in poor to fair				710	1.2000	0.73	720	344.750	0.1147														
condition, severely over-				712	1.8000	0.79	725	1020.212	0.2357														
grazed during a year				716	4.2000	1.07	730	1187.676	0.3833														
depending on climatic				720	1.8000	1.19	735	610.370	0.4557														
conditions and stocking							740	445.326	0.5085														
rates.							745	241.962	0.5386														
							755	97.809	0.5622														
							800	116.485	0.5767														
							805	81.346	0.5863														
							810	109.845	0.5993														
							815	85.634	0.6059														
							830	47.313	0.6270														
							845	31.542	0.6384														
							900	21.236	0.6461														
							930	11.967	0.6548														
							1000	3.735	0.6575														
							1030	2.629	0.6594														

NOTES: To convert runoff in CFS to IB/SR, 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												
1971 P	0.0	0.83	0.08	2.04	1.05	4.47	4.20	9.29	2.13	5.00	0.09	0.97	30.15												
Q	0.0	0.0	0.0	0.0	0.0	0.0	0.013	2.835	0.0	0.341	0.0	0.0	3.189												
STA AV P	1.03	1.52	0.73	2.64	2.65	2.38	2.36	3.10	3.65	2.40	1.11	0.62	24.20												
Q	0.085	0.004	0.0	0.196	0.120	0.057	0.014	0.384	0.197	0.168	0.001	0.0	1.225												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													SONORA, TEXAS WATERSHED W-1												
1971	Maximum Discharge			Maximum Volume for Selected Time Interval			1 Day			2 Days			8 Days			1971									
	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.										
1971	8-12	0.275	8-12	0.247	8-12	0.438	8-12	0.793	8-12	0.903	8-2	1.028	8-1	1.131	8-8	1.694	1971								
	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	8-8	1.694	1971								
	1966		1966		1966		1966		1966		1966		1966												

NOTES: Watershed conditions: 100% rangeland; root plowed for brush control, August 1970; 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, USDA 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 National Weather Service records at the Texas Agricultural Experiment Substation No. 14. Watershed is on substation property.

1971 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	0.0	0.0	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	1.86	0.0	0.0	0.0	0.52												
3	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53	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	0.17E	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	0.14E											
7	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.14E	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	0.39	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	0.31											
10	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	0.0											
11	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	1.38	0.0	0.0	0.0	0.0	0.0	0.0											
12	0.0	0.0	0.0	0.0	0.0	1.42	0.0	1.58	0.0	0.0	0.0	0.0	0.0	0.0											
13	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.28	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	0.35	0.0	0.0	0.0	0.0	0.0	0.0											
15	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	1.13	0.0	0.0	0.0	0.0	0.0	0.0											
16	0.0	0.0	0.0	1.81	0.0	0.37	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	0.0	0.0	0.19E	0.0	0.29	0.0	0.0	0.0											
19	0.0	0.0	0.0	0.23E	0.10E	0.0	0.0	0.0	0.27	2.00	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	0.0											
21	0.0	0.18E	0.0	0.0	0.0	1.40	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	0.14E	0.0	0.0	0.08E	0.0	0.0	0.09E	0.0	0.0											
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0											
24	0.0	0.0	0.0	0.0	0.35	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
25	0.0	0.65	0.0	0.0	0.0	0.0	2.46	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	0.10E	1.05	0.0	0.0	0.62	0.0	0.0	0.0	0.0											
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.0											
28	0.0	0.0	0.0	0.0	0.0	0.24	0.64	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	0.35	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	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	0.0											
TOTAL	0.0	0.83	0.08	2.04	1.05	4.47	4.20	9.29	2.13	5.00	0.09	0.97	30.15												
STA AV	1.03	1.52	0.73	2.64	2.65	2.38	2.36	3.10	3.65	2.40	1.11	0.62	24.20												

NOTES: For daily air temperatures, in the vicinity, see table for W-14, p. 70.001-1. Precipitation data obtained from rain gage 15. Records began October 1963; part-year amounts not included in averages. STA AV based on 8 yr record period. Estimate codes may indicate that non-significant event totals are included.

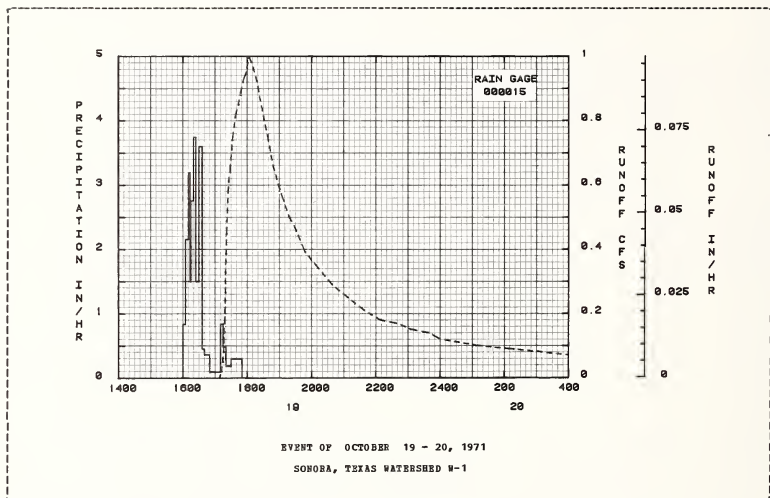
1971 SEAN DAILY DISCHARGE (cfs)													SONORA, TEXAS WATERSHED W-1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	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	0.0	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	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	0.0	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	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	0.0	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	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	0.006	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	
SEAN													0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0002	0.0392	0.0	0.0047	0.0	0.0	0.0
INCHES													0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	2.835	0.0	0.341	0.0	0.0	0.0
STA AV													0.085	0.004	0.0	0.196	0.120	0.057	0.018	0.384	0.197	0.168	0.001	0.0	0.0	0.0

NOTES: To convert sean daily discharge in CFS to IN/DAY, multiply by 2.233495. Records began October 1963; part-year amounts not included in averages. STA AV based on 8 yr record period.

1971 SELECTED RUNOFF EVENT													SONORA, TEXAS WATERSHED W-1																	
PRECEDENT CONDITIONS						RAINFALL						RUNOFF																		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	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)	Mo-Day	of Day	(cfs)	(inches)												
EVENT OF OCTOBER 19 - 20, 1971																														
HG 000015																														
10-19	0.19	0.0	10-19	1600	0.0	0.0	10-19	1708	0.0	0.0	10-19	1708	0.0	0.0	10-19	1708	0.0	0.0	10-19	1708	0.0	0.0	10-19	1708	0.0	0.0	10-19	1708	0.0	0.0
				1605	0.8400	0.07		1710	0.006	0.0		1710	0.006	0.0		1710	0.006	0.0		1710	0.006	0.0		1710	0.006	0.0		1710	0.006	0.0
				1610	2.1602	0.25		1712	0.023	0.0		1712	0.023	0.0		1712	0.023	0.0		1712	0.023	0.0		1712	0.023	0.0		1712	0.023	0.0
				1613	3.1999	0.41		1716	0.088	0.0001		1716	0.088	0.0001		1716	0.088	0.0001		1716	0.088	0.0001		1716	0.088	0.0001		1716	0.088	0.0001
				1615	1.4993	0.46		1716	0.084	0.0003		1716	0.084	0.0003		1716	0.084	0.0003		1716	0.084	0.0003		1716	0.084	0.0003		1716	0.084	0.0003
WATERSHED CONDITIONS:																														
100% Rangeland; fair level of management; stocking rate, 30-35 animal units per section.																														
				1620	2.7603	0.69		1718	0.192	0.0007		1718	0.192	0.0007		1718	0.192	0.0007		1718	0.192	0.0007		1718	0.192	0.0007		1718	0.192	0.0007
				1624	3.7501	0.94		1719	0.280	0.0011		1719	0.280	0.0011		1719	0.280	0.0011		1719	0.280	0.0011		1719	0.280	0.0011		1719	0.280	0.0011
				1630	1.4998	1.09		1720	0.368	0.0016		1720	0.368	0.0016		1720	0.368	0.0016		1720	0.368	0.0016		1720	0.368	0.0016		1720	0.368	0.0016
				1636	3.6003	1.45		1722	0.474	0.0029		1722	0.474	0.0029		1722	0.474	0.0029		1722	0.474	0.0029		1722	0.474	0.0029		1722	0.474	0.0029
				1640	0.4500	1.48		1724	0.579	0.0047		1724	0.579	0.0047		1724	0.579	0.0047		1724	0.579	0.0047		1724	0.579	0.0047		1724	0.579	0.0047
				1650	0.3600	1.54		1728	0.653	0.0087		1728	0.653	0.0087		1728	0.653	0.0087		1728	0.653	0.0087		1728	0.653	0.0087		1728	0.653	0.0087
				1710	0.0900	1.57		1733	0.751	0.0143		1733	0.751	0.0143		1733	0.751	0.0143		1733	0.751	0.0143		1733	0.751	0.0143		1733	0.751	0.0143
				1715	0.8400	1.64		1738	0.818	0.0209		1738	0.818	0.0209		1738	0.818	0.0209		1738	0.818	0.0209		1738	0.818	0.0209		1738	0.818	0.0209
				1720	0.4799	1.68		1743	0.850	0.0276		1743	0.850	0.0276		1743	0.850	0.0276		1743	0.850	0.0276		1743	0.850	0.0276		1743	0.850	0.0276
				1730	0.1800	1.71		1748	0.892	0.0345		1748	0.892	0.0345		1748	0.892	0.0345		1748	0.892	0.0345		1748	0.892	0.0345		1748	0.892	0.0345
				1750	0.3000	1.81		1753	0.930	0.0421		1753	0.930	0.0421		1753	0.930	0.												

1971 SELECTED RUNOFF EVENT			SONORA, 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 OCTOBER 19 - 20, 1971 (CONTINUED)										
							10-19	2108	0.248	0.2096
								2138	0.207	0.2207
								2208	0.188	0.2302
								2238	0.165	0.2387
								2308	0.152	0.2464
								2338	0.140	0.2535
								2400	0.124	0.2582
							10-20	168	0.100	0.2705
								208	0.087	0.2796
								408	0.068	0.2947
								608	0.057	0.3069
								808	0.051	0.3174
								1008	0.038	0.3261
								1208	0.029	0.3326
								1408	0.023	0.3377
								1438	0.011	0.3385
								1638	0.005	0.3401
								1838	0.002	0.3408
								2300	0.0	0.3412

NOTES: To convert mean daily discharge in CFS to IN/HR, multiply by 0.097229.



1971 MEAN DAILY DISCHARGE (cfs)							SONORA, TEXAS WATERSHED #2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.530	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.032	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.581	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.343	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.001	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	0.0002	0.0	0.0532	0.0	0.0	0.0	0.0
INCHRS	0.0	0.0	0.0	0.0	0.0	0.014	0.0	4.562	0.0	0.0	0.0	0.0
STA #V	0.0	0.002	0.0	0.309	0.146	0.052	0.0	0.682	0.0	0.183	0.002	0.0

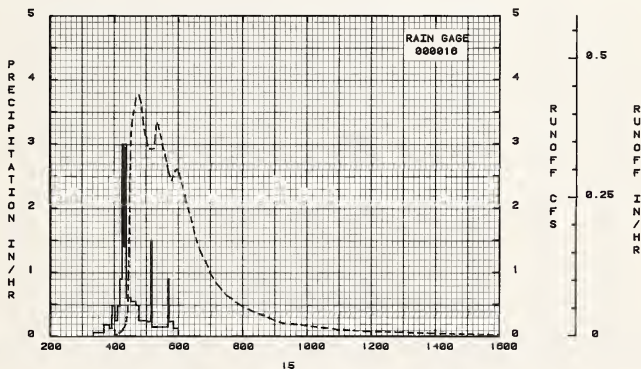
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.767634. Records began January 1965. STA #V based on 7 yr record period.

1971 SELECTED RUSOFF EVENT				SONORA, TEXAS WATERSHED #2							
ANTECEDENT CONDITIONS				RAINFALL				RUSOFF			
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 15, 1971											
8-15	EG 000016	0.0	0.006	8-15	320	0.0	0.0	8-15	400	0.015	0.0
					380	0.0600	0.02		404	0.031	0.0002
					350	0.1800	0.05		408	0.047	0.0005
					355	0.1199	0.06		412	0.072	0.0010
					400	0.4801	0.10		414	0.090	0.0013
					405	0.2399	0.12		416	0.116	0.0017
					410	0.4801	0.16		418	0.145	0.0022
					412	0.9000	0.19		420	0.179	0.0029
					414	0.9000	0.22		422	0.232	0.0036
					417	2.9999	0.37		424	0.401	0.0049
					420	1.4001	0.44		425	0.579	0.0058
					422	2.9998	0.54		426	0.947	0.0072
					426	0.6001	0.58		427	1.313	0.0097
					430	0.5999	0.62		428	1.808	0.0125
					440	0.5401	0.71		429	2.313	0.0162
					445	0.4799	0.75		430	2.901	0.0221
					500	0.2400	0.81		432	3.312	0.0313
					508	0.2250	0.84		440	3.723	0.0872
					510	1.5001	0.89		445	3.768	0.1243
					540	0.1400	0.96		450	3.642	0.1593
					542	0.9000	0.99		454	3.295	0.1859
					550	0.2250	1.02		458	3.128	0.2105
					600	0.1199	1.04		500	3.103	0.2231
									502	2.973	0.2340
									506	2.917	0.2566
									514	2.933	0.3014
									516	3.070	0.3136
									518	3.270	0.3250
									520	3.329	0.3384
									522	3.295	0.3503
									526	3.152	0.3750
									530	2.981	0.3999
									535	2.806	0.4273
									540	2.614	0.4529
									544	2.494	0.4725

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.115316.

1971 SELECTED RUNOFF EVENT			SORORA, TEXAS WATERSHED W-2								
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 15, 1971 (CONTINUED)											
8-15											
									547	2.428	0.4869
									550	2.502	0.5013
									554	2.591	0.5208
									558	2.618	0.5407
									604	2.450	0.5704
									610	2.278	0.5970
									615	2.078	0.6186
									620	1.932	0.6376
									625	1.779	0.6552
									630	1.610	0.6720
									635	1.461	0.6865
									680	1.338	0.6997
									645	1.254	0.7125
									650	1.172	0.7240
									655	1.080	0.7347
									700	0.973	0.7449
									710	0.838	0.7620
									720	0.732	0.7772
									730	0.632	0.7904
									740	0.576	0.8018
									750	0.515	0.8124
									800	0.457	0.8218
									820	0.388	0.8379
									840	0.317	0.8513
									900	0.236	0.8620
									920	0.194	0.8702
									940	0.177	0.8773
									1000	0.158	0.8838
									1030	0.134	0.8922
									1100	0.099	0.8989
									1200	0.075	0.9089
									1300	0.061	0.9167
									1400	0.044	0.9228
									1600	0.023	0.9305
									1800	0.016	0.9350
									2400	0.013	0.9450

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.115318.



EVENT OF AUGUST 15, 1971
SORORA, TEXAS WATERSHED W-2

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				
1971	P 0.0	0.73	0.02	2.53	0.90	5.21	4.42	9.87	2.37	4.67	0.11	0.98	31.81				
	Q 0.0	0.0	0.0	0.0	0.0	0.011	0.017	2.089	0.0	0.004	0.0	0.0	2.122				
STA AV	P 0.64	1.40	0.70	2.85	2.73	2.48	2.11	3.57	2.76	2.58	1.16	0.61	23.60				
	Q 0.0	0.0	0.0	0.161	0.009	0.002	0.002	0.298	0.0	0.011	0.0	0.0	0.503				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
Date	Maximum Discharge				Maximum Volume for Selected Time Interval							
	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days					
1971	8-12 1.184	8-12 0.531	8-12 0.698	8-12 0.917	8-12 0.929	8-12 1.071	8-11 1.175	8-8 1.507				

MAXIMUMS FOR PERIOD OF RECORD												
Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days					
4-30 1966	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	1971					

NOTES: Watershed conditions: 100% rangeland; range in fair condition. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70, 8-4. Precipitation data from rain gage 17. Precipitation and runoff records began January 1965. For long-time precipitation records, see National Weather Service records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1971 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	0.0	0.0	0.0	0.0	1.49	0.0	0.0	0.0	0.0					
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.29	0.0	0.0	0.0	0.57					
3	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	1.22	0.0	0.0					
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19E	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	0.13E					
7	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.50	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	0.43	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	0.28					
10	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.10	0.0	0.0	0.0	0.0					
11	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	1.44	0.0	0.0	0.0	0.0					
12	0.0	0.0	0.0	0.0	0.0	1.58	0.0	1.87	0.0	0.0	0.0	0.0					
13	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.49	0.0	0.0	0.0	0.0					
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0					
15	0.0	0.0	0.0	0.0	0.0	0.25E	0.0	0.97	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	2.40	0.0	0.26	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	0.05E	0.0	0.11E	0.0					
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.18E	0.0	0.0					
19	0.0	0.0	0.0	0.13E	0.22E	0.0	0.0	0.0	0.15E	2.08	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	0.18E	0.0	0.0	0.0	2.23	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	0.05E	0.0	0.11E	0.0					
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.28	0.0	0.07E	0.0	0.0	0.0	0.0	0.0					
25	0.0	0.55	0.0	0.0	0.0	0.0	2.14	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0	1.04	0.0	0.0	0.57	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.0	0.26	1.09	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	0.29	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					
TOTAL	0.0	0.73	0.02	2.53	0.90	5.21	4.42	9.87	2.37	4.67	0.11	0.98					
STA AV	0.64	1.40	0.70	2.85	2.73	2.48	2.11	3.57	2.76	2.58	1.16	0.61					

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, 70,001-1. Precipitation data obtained from rain gage 17. Records began January 1965. STA AV based on 7 yr record period. Estimate codes may indicate that non-significant event totals are included.

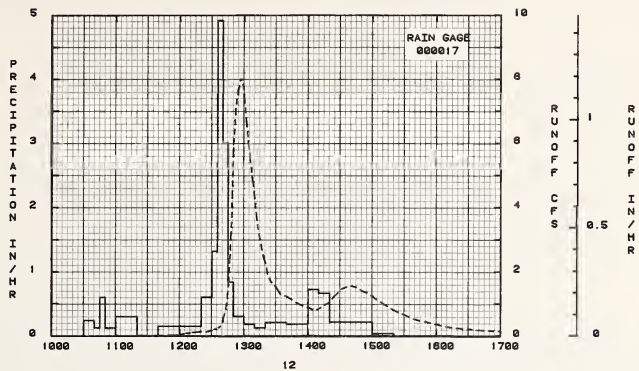
1971 MEAN DAILY DISCHARGE (cfs)												SONORA, TEXAS WATERSEED W-3													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.164	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	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	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	
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	
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	
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	
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	
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	
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	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	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	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	0.0	0.0	0.0	0.263	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	0.0	0.0	0.0	0.091	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	0.0	0.0	0.0	0.091	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	0.091	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	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	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	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.0	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	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.003	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	
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	
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	
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	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.0	0.0	0.0	0.001	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 T	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	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	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	
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	
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	
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	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	0.0002	0.0190	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	
INCSES	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.017	2.089	0.0	0.004	0.0	INCSES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.181	0.009	0.002	0.002	0.002	0.298	0.0	0.011	0.0	STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 3.552486. Records began January 1965. STA AV based on 7 yr record period.

1971 SELECTED RUHOFF EVENT												SONORA, TEXAS WATERSEED W-3											
ANTECEDENT CONDITIONS						RAINFALL						RUHOFF											
Date	Rainfall	Ruhoft	Date	Time	Intensity	Acc.	Date	Time	Rate	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)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF AUGUST 12, 1971																							
RG 000017																							
8-12	0.0	0.004	8-12	1030	0.0	0.0	8-12	1120	0.0	0.0	8-12	1120	0.0	0.0									
				1040	0.2400	0.04		1130	0.002	0.0		1130	0.002	0.0									
				1045	0.1999	0.05		1140	0.009	0.0001		1140	0.009	0.0001									
				1050	0.6600	0.10		1150	0.022	0.0005		1150	0.022	0.0005									
				1100	0.1200	0.12		1158	0.032	0.0010		1158	0.032	0.0010									
WATERSEED CONDITIONS:																							
100% rangeland; range in fair condition.																							
				1110	0.3000	0.17		1200	0.042	0.0012		1200	0.042	0.0012									
				1120	0.3000	0.22		1204	0.061	0.0017		1204	0.061	0.0017									
				1140	0.0	0.22		1206	0.079	0.0020		1206	0.079	0.0020									
				1200	0.1500	0.27		1210	0.093	0.0028		1210	0.093	0.0028									
				1220	0.1500	0.32		1212	0.108	0.0033		1212	0.108	0.0033									
				1230	0.6000	0.42		1220	0.127	0.0056		1220	0.127	0.0056									
				1235	1.3200	0.53		1226	0.136	0.0075		1226	0.136	0.0075									
				1240	4.9201	0.94		1230	0.161	0.0090		1230	0.161	0.0090									
				1245	3.0000	1.19		1232	0.203	0.0098		1232	0.203	0.0098									
				1250	0.8399	1.26		1234	0.228	0.0109		1234	0.228	0.0109									
				1300	0.3000	1.31		1236	0.259	0.0120		1236	0.259	0.0120									
				1310	0.1800	1.34		1238	0.314	0.0135		1238	0.314	0.0135									
				1320	0.1200	1.36		1240	0.452	0.0151		1240	0.452	0.0151									
				1340	0.2100	1.43		1242	0.690	0.0183		1242	0.690	0.0183									
				1400	0.1800	1.49		1244	1.030	0.0223		1244	1.030	0.0223									
				1410	0.7201	1.61		1245	1.394	0.0258		1245	1.394	0.0258									
				1420	0.6600	1.72		1246	1.830	0.0295		1246	1.830	0.0295									
				1440	0.2100	1.79		1247	2.539	0.0346		1247	2.539	0.0346									
				1500	0.2100	1.86		1248	3.253	0.0413		1248	3.253	0.0413									
				1520	0.0300	1.87		1249	4.527	0.0525		1249	4.527	0.0525									
								1250	5.837	0.0645		1250	5.837	0.0645									
								1252	7.090	0.0944		1252	7.090	0.0944									
								1254	7.661	0.1228		1254	7.661	0.1228									
								1256	7.997	0.1690		1256	7.997	0.1690									
								1258															

1971 SELECTED SUNOFF EVENT			SONOGA, TEXAS WATERSHED W-3							
PRECEDENT CONDITIONS			RAINFALL			SUNOFF				
Date Mo-Day	Rainfall (inches)	Sunoff (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 12, 1971 (CONTINUED)										
							8-12	1300	7.400	0.2506
								1302	6.658	0.2831
								1304	5.982	0.3160
								1306	5.387	0.3423
								1308	4.798	0.3688
								1310	4.282	0.3958
								1312	3.807	0.4103
								1314	3.144	0.4259
								1316	2.814	0.4414
								1318	2.494	0.4537
								1320	2.264	0.4661
								1322	1.932	0.4758
								1324	1.754	0.4854
								1326	1.663	0.4933
								1330	1.519	0.5099
								1334	1.298	0.5237
								1340	1.215	0.5419
								1345	1.121	0.5568
								1350	0.999	0.5697
								1355	0.943	0.5815
								1400	0.879	0.5931
								1404	0.810	0.6014
								1408	0.806	0.6093
								1412	0.883	0.6176
								1416	0.968	0.6267
								1420	1.052	0.6366
								1424	1.215	0.6477
								1428	1.353	0.6603
								1432	1.477	0.6742
								1436	1.529	0.6890
								1440	1.551	0.7041
								1445	1.508	0.7236
								1450	1.404	0.7413
								1455	1.328	0.7579
								1500	1.231	0.7740
								1510	0.986	0.8007
								1520	0.786	0.8227
								1530	0.642	0.8405
								1540	0.496	0.8543
								1550	0.417	0.8656
								1600	0.345	0.8751
								1610	0.273	0.8826
								1620	0.232	0.8889
								1640	0.171	0.8988
								1700	0.132	0.9063
								1720	0.090	0.9118
								1740	0.063	0.9156
								1800	0.049	0.9184
								1830	0.038	0.9216
								1900	0.025	0.9239
								2000	0.011	0.9266
								2100	0.004	0.9277
								2200	0.003	0.9282
								2400	0.003	0.9291

NOTES: To convert runoff in CFS to I₈/88, multiply by 0.148020.



EVENT OF AUGUST 12, 1971
SOBORA, TEXAS WATERSHED W-3

1971				SONORA, TEXAS WATERSHED W-4											
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	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	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	0.0	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		
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	0.032	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	0.001	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	0.012	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	0.0	0.0020	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	0.325	0.0	0.0	0.0	0.0	0.0		
STA AV	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.054	0.0	0.012	0.0	0.0	0.0		

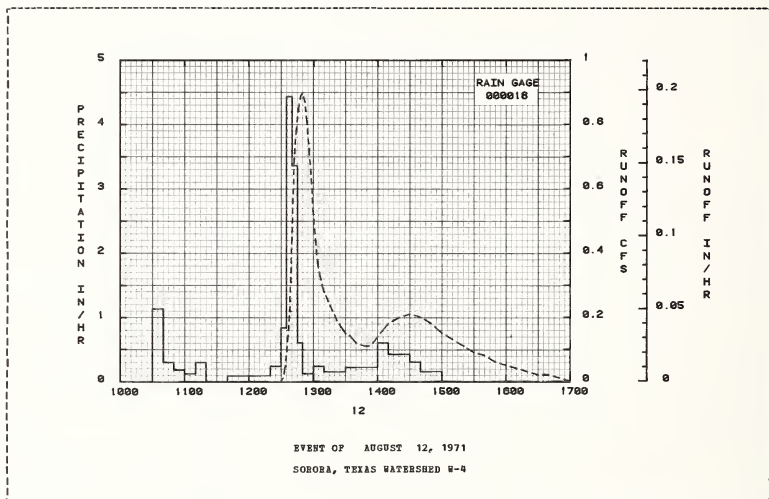
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 5.289256. Records began January 1966. STA AV based on 6 yr record period.

1971				SONORA, TEXAS WATERSHED W-4											
PRECEDENT CONDITIONS				RAINFALL				RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.					
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)					
EVENT OF AUGUST 12, 1971															
8-12	0.0	0.0	8-12	1030	0.0	0.0	8-12	1230	0.0	0.0					
				1040	1.1400	0.19		1232	0.013	0.0					
				1050	0.2999	0.24		1234	0.049	0.0002					
				1100	0.1800	0.27		1236	0.134	0.0008					
				1110	0.1200	0.29		1238	0.218	0.0022					
				1120	0.3000	0.34		1240	0.447	0.0045					
				1140	0.0	0.34		1242	0.676	0.0089					
				1200	0.0900	0.37		1244	0.780	0.0139					
				1220	0.0900	0.40		1246	0.854	0.0202					
				1230	0.2401	0.44		1248	0.890	0.0262					
				1235	0.8399	0.51		1250	0.903	0.0331					
				1240	4.4400	0.88		1252	0.870	0.0392					
				1245	3.3600	1.16		1254	0.374	0.0671					
				1250	0.6000	1.21		1256	0.719	0.0509					
				1300	0.1200	1.23		1258	0.632	0.0561					
				1310	0.2400	1.27		1300	0.520	0.0606					
				1330	0.1500	1.32		1302	0.445	0.0639					
				1400	0.2200	1.43		1304	0.374	0.0671					
				1410	0.6000	1.53		1306	0.332	0.0695					
				1420	0.4200	1.60		1308	0.304	0.0720					
				1430	0.4200	1.67		1310	0.282	0.0740					
				1440	0.3000	1.72		1314	0.248	0.0779					
				1500	0.1500	1.77		1318	0.219	0.0813					
								1322	0.193	0.0843					
								1326	0.172	0.0870					
								1330	0.153	0.0895					
								1335	0.139	0.0921					
								1340	0.123	0.0945					
								1348	0.107	0.0979					
								1352	0.111	0.0995					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.220386.

1971 SELECTED RBOFF EVENT			SORORA, TEXAS WATERSHED W-4								
ANTECEDENT CONDITIONS			RAINFALL				RBOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Date (CFS)	Acc. (inches)	
EVENT OF AUGUST 12, 1971 (CONTINUED)											
							8-12	1356	0.122	0.1012	
								1800	0.138	0.1032	
								1805	0.157	0.1059	
								1810	0.175	0.1089	
								1815	0.187	0.1123	
								1820	0.198	0.1158	
								1830	0.213	0.1238	
								1840	0.197	0.1308	
								1850	0.175	0.1377	
								1500	0.152	0.1438	
								1510	0.126	0.1488	
								1520	0.106	0.1531	
								1530	0.089	0.1567	
								1540	0.077	0.1597	
								1550	0.061	0.1623	
								1600	0.054	0.1644	
								1610	0.042	0.1661	
								1620	0.032	0.1675	
								1630	0.022	0.1685	
								1640	0.017	0.1692	
								1650	0.010	0.1697	
								1700	0.004	0.1700	
								1800	0.002	0.1707	
								1900	0.0	0.1709	
								2400	0.0	0.1709	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.220386.



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												
P	0.0	0.62	0.04	1.91	1.04	5.69	3.27	9.24	2.35	4.57	0.06	0.82	29.61												
Q	0.0	0.0	0.0	0.003	0.0	0.318	0.003	2.567	0.003	0.177	0.0	0.0	3.071												
STA AV P	0.62	1.11	0.78	3.14	1.91	2.62	2.22	3.97	2.68	1.12	0.50	2.38	23.38												
Q	0.0	0.0	0.0	0.195	0.011	0.123	0.004	0.448	0.001	0.134	0.0	0.0	0.916												
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Maximum Discharge				Maximum Volume for Selected Time Interval																					
Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																		
Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.											
1971	8-12	1.177	8-12	0.526	8-12	0.709	8-12	0.933	8-2	1.023	8-1	1.070	8-11	1.104	8-7	1.484									
MAXIMUMS FOR PERIOD OF RECORD																									
	4-30	1.380	4-30	0.790	4-30	1.010	4-30	1.080	4-30	1.080	4-30	1.080	4-29	1.130	8-7	1.484									
	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1971											

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 National Weather Service records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1971 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	0.0	0.0	0.0	0.0	1.48	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.29	0.0	0.0	0.0	0.0	0.41												
3	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.0													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	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	0.14E												
7	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.43	0.0	0.0	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.13	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	0.27													
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0													
11	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	1.32	0.0	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	1.58	0.0	1.70	0.0	0.0	0.0	0.0													
13	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.31	0.0	0.0	0.0	0.0													
14	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.13E	0.0	0.0	0.0	0.0													
15	0.0	0.0	0.0	0.0	0.0	0.38	0.0	1.05	0.0	0.0	0.0	0.0													
16	0.0	0.0	0.0	1.85	0.0	0.29	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	0.11E	0.20E	0.0	0.0													
19	0.0	0.0	0.06E	0.18E	0.0	0.0	0.0	0.0	0.18E	1.77	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	0.18E	0.0	0.0	0.0	2.50	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	0.05E	0.0	0.06E	0.0													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.76	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.38	0.0	0.05E	0.0	0.0	0.0	0.0	0.0													
25	0.0	0.44	0.0	0.0	0.0	0.0	2.00	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.68	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.26	0.48	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	0.25E	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													
TOTAL	0.0	0.62	0.04	1.91	1.04	5.69	3.27	9.24	2.35	4.57	0.06	0.82													
STA AV	0.62	1.11	0.78	3.14	1.91	2.62	2.22	3.97	2.73	2.68	1.12	0.50													

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70-00-1. Precipitation data obtained from rain gage 19. Records began January 1966. STA AV based on 6 yr record period. Estimate codes may indicate that non-significant event totals are included.

1971 NEAR 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	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.218	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	0.001	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	0.223	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.288	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.223	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	0.115	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.001	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	0.053	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	0.096	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	0.001	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	0.001	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	0.0032	0.0	0.0250	0.0	0.0017	0.0	0.0				
INCHES	0.0	0.0	0.0	0.003	0.0	0.318	0.003	2.567	0.003	0.177	0.0	0.0				
STA AV	0.0	0.0	0.0	0.195	0.011	0.123	0.004	0.448	0.001	0.134	0.0	0.0				

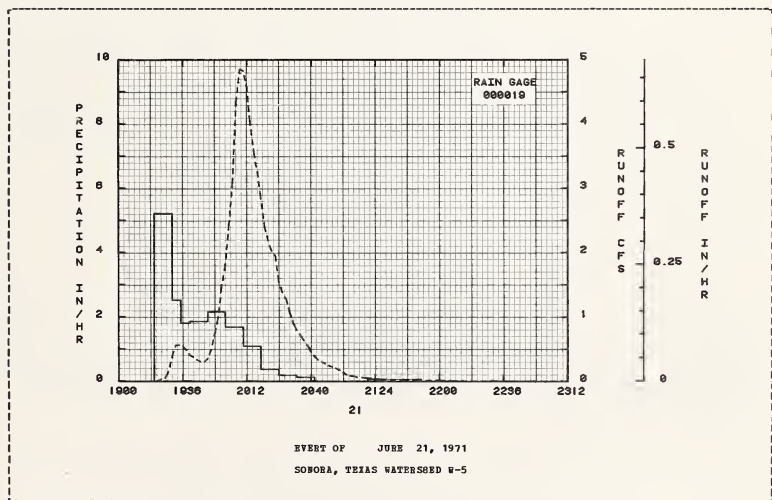
NOTES: To convert near daily discharge in CFS to I8/DAY, multiply by 3.305795. Records began January 1966. STA AV based on 6 yr record period.

1971 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED W-5				
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF									
Date No-Day	Sainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)						
EVENT OF JUNE 21, 1971																
6-21	EG 000019 0.0	0.0	6-21	EG 000019 1920	0.0	0.0	6-21	1922	0.009	0.0						
				1930	5.2198	0.27		1928	0.030	0.0001						
				1935	2.5202	1.08		1926	0.053	0.0003						
				1940	1.8001	1.23		1928	0.155	0.0008						
				1950	1.8599	1.54		1930	0.388	0.0021						
				2000	2.1599	1.90		1932	0.558	0.0041						
				2010	1.6801	2.18		1938	0.558	0.0068						
				2020	1.0800	2.36		1936	0.583	0.0092						
				2030	0.3600	2.42		1938	0.478	0.0117						
				2040	0.1800	2.45		1940	0.400	0.0136						
				2050	0.1200	2.47		1942	0.365	0.0155						
				2120	0.0	2.47		1948	0.332	0.0170						
				2150	0.0600	2.50		1946	0.304	0.0185						
								1948	0.300	0.0198						
								1950	0.346	0.0214						
								1952	0.487	0.0232						
								1954	0.738	0.0262						
								1956	1.003	0.0299						
								1958	1.499	0.0360						
								2000	1.834	0.0441						
								2002	2.424	0.0533						
								2004	3.083	0.0666						
								2006	4.338	0.0826						
								2008	4.888	0.1088						
								2010	4.816	0.1256						
								2012	4.566	0.1483						
								2014	3.983	0.1667						
								2016	3.545	0.1849						
								2018	3.247	0.1995						
								2020	2.826	0.2142						

NOTES: To convert runoff in CFS to I8/HR, multiply by 0.1377910.

1971 SELECTED RUNOFF EVENT			SOBORA, TEXAS WATERSHED W-5							
ANTICIPATED CONDITIONS			RAINFALL				RUNOFF			
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 21, 1971 (CONTINUED)										
6-21										
							2022		2.403	0.2255
							2024		2.181	0.2366
							2026		2.019	0.2456
							2028		1.937	0.2552
							2030		1.533	0.2636
							2032		1.380	0.2699
							2034		1.278	0.2743
							2036		1.066	0.2813
							2038		0.900	0.2861
							2040		0.785	0.2897
							2042		0.706	0.2933
							2044		0.627	0.2962
							2046		0.548	0.2990
							2048		0.447	0.3011
							2050		0.376	0.3031
							2052		0.332	0.3046
							2054		0.297	0.3061
							2056		0.266	0.3073
							2058		0.236	0.3085
							2100		0.216	0.3096
							2102		0.197	0.3105
							2104		0.165	0.3114
							2106		0.127	0.3120
							2108		0.098	0.3125
							2110		0.081	0.3129
							2114		0.062	0.3136
							2118		0.052	0.3141
							2122		0.039	0.3145
							2126		0.031	0.3148
							2130		0.021	0.3151
							2140		0.017	0.3155
							2150		0.013	0.3158
							2200		0.009	0.3161
							2210		0.005	0.3163
							2230		0.002	0.3165
							2300		0.0	0.3166
							2350		0.0	0.3166

NOTES: To convert runoff in CFS to IIR/HR, multiply by 0.1377410.



1971 MEAN DAILY DISCHARGE (cfs)												SONORA, TEXAS WATERSHED #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	0.0	0.092	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	0.182	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	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	0.000	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	0.008	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	0.007	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	0.0003	0.0003	0.0103	0.0	0.0	0.0	0.0			
INCREAS	0.0	0.0	0.0	0.0	0.0	0.028	0.027	1.106	0.0	0.0	0.0	0.0			
STA AV	0.0	0.0	0.0	0.153	0.007	0.018	0.005	0.191	0.0	0.009	0.0	0.0			

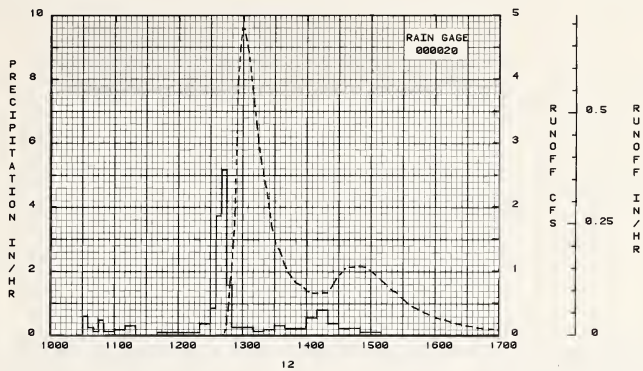
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 3.449515. Records began January 1966. STA AV based on 6 yr record period.

1971 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED #6			
AFFECTED 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 12, 1971															
RG 000020															
8-12	0.0	0.0	8-12	1030	0.0	0.0	8-12	1233	0.0	0.0					
				1035	0.6000	0.05		1237	0.0	0.0					
				1040	0.2401	0.07		1241	0.004	0.0					
				1045	0.1199	0.08		1242	0.010	0.0					
				1050	0.4799	0.12		1243	0.039	0.0001					
WATERSHED CONDITIONS:															
100% rangeland; range in poor condition.															
				1100	0.1200	0.14		1244	0.094	0.0002					
				1110	0.1800	0.17		1245	0.184	0.0006					
				1120	0.3000	0.22		1246	0.295	0.0011					
				1140	0.0	0.22		1247	0.506	0.0020					
				1200	0.0900	0.25		1248	0.782	0.0034					
				1220	0.0900	0.28		1249	0.913	0.0058					
				1230	0.3600	0.34		1250	1.131	0.0081					
				1235	0.8401	0.41		1251	1.401	0.0109					
				1240	3.7200	0.72		1252	1.628	0.0143					
				1245	5.1599	1.15		1253	1.994	0.0194					
				1250	1.5601	1.28		1254	3.011	0.0250					
				1300	0.2401	1.32		1255	3.983	0.0329					
				1310	0.2400	1.36		1257	4.471	0.0543					
				1320	0.1200	1.38		1259	4.807	0.0751					
				1330	0.1800	1.41		1301	4.783	0.0993					
				1380	0.3000	1.46		1303	4.606	0.1204					
				1400	0.2100	1.53		1305	4.416	0.1432					
				1410	0.5400	1.62		1307	4.117	0.1624					
				1420	0.7800	1.75		1309	3.829	0.1825					
				1430	0.3600	1.81		1311	3.573	0.1991					
				1450	0.2100	1.88		1313	3.293	0.2164					
				1510	0.0900	1.91		1315	2.999	0.2323					
								1317	2.741	0.2452					
								1319	2.553	0.2586					
								1321	2.371	0.2697					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.143730.

1971 SELECTED RUNOFF EVENT			SOMORA, TEXAS WATERSEED #4							
ANTECEDENT CONDITIONS			RAINFALL			BOROFF				
Date Mo-Day	Fainfall (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 12, 1971 (CONTINUED)										
							8-12	1323	2.197	0.2812
								1327	1.698	0.2998
								1331	1.417	0.3147
								1335	1.297	0.3277
								1339	1.109	0.3392
								1343	0.966	0.3491
								1346	0.900	0.3559
								1350	0.808	0.3681
								1354	0.777	0.3717
								1358	0.733	0.3789
								1402	0.671	0.3856
								1406	0.650	0.3919
								1420	0.661	0.4160
								1424	0.757	0.4208
								1428	0.883	0.4286
								1432	0.956	0.4374
								1436	1.038	0.4469
								1440	1.059	0.4569
								1450	1.070	0.4826
								1455	1.056	0.4951
								1500	0.997	0.5078
								1505	0.932	0.5192
								1510	0.898	0.5297
								1515	0.768	0.5397
								1520	0.695	0.5483
								1525	0.653	0.5562
								1530	0.555	0.5637
								1535	0.481	0.5698
								1540	0.434	0.5752
								1545	0.390	0.5803
								1550	0.350	0.5847
								1555	0.311	0.5886
								1600	0.271	0.5922
								1605	0.251	0.5953
								1610	0.231	0.5981
								1615	0.201	0.6008
								1620	0.183	0.6031
								1625	0.162	0.6051
								1630	0.142	0.6070
								1635	0.126	0.6086
								1640	0.114	0.6100
								1645	0.102	0.6113
								1650	0.092	0.6124
								1700	0.076	0.6144
								1710	0.059	0.6160
								1720	0.049	0.6173
								1740	0.033	0.6193
								1800	0.022	0.6206
								1830	0.012	0.6218
								1900	0.010	0.6226
								2400	0.004	0.6276

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.143730.



EVENT OF AUGUST 12, 1971

SOBORA, TEXAS WATERSHED #6

1971 MEAN DAILY DISCHARGE (cfs)												SONORA, TEXAS WATERSHED #7													
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	0.002	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	
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	T	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	
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	
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	
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	
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	
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	
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	0.001	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	0.003	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	
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	
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	
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	0.002	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	0.007	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	0.013	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	
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	
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	
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	
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	0.0002	0.0	0.0	0.0004	0.0002	0.0	0.0	0.0	
	INCHES	0.0	0.0	0.0	0.013	0.0	0.0	0.026	0.015	0.000	0.001	0.0	0.0	0.0	0.0	0.0	0.023	0.086	0.107	0.008	0.002	0.009	0.000	0.0	
	STA AV	0.0	0.0	0.0	0.0023	0.086	0.107	0.008	0.002	0.009	0.000	0.0	0.002											0.002	

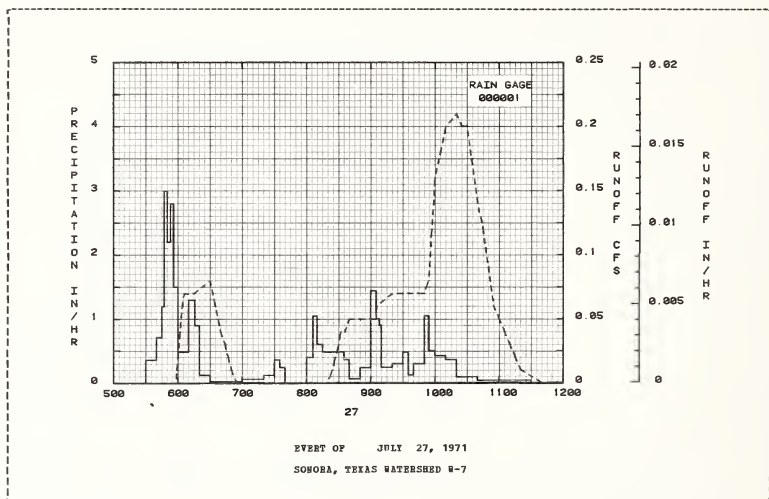
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.950955. Records began January 1965. STA AV based on 7 yr record period.

1971 SELECTED RUNOFF EVENT												SONORA, TEXAS WATERSHED #7											
APPROXIMATE CONDITIONS						RAINFALL						RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	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)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF JULY 27, 1971																							
RG 000001																							
7-27	0.0	0.0	7-27	530	0.0	0.0	7-27	556	0.0	0.0													
				535	0.3600	0.03		558	0.004	0.0													
				540	0.3600	0.06		600	0.021	0.0													
				545	0.7200	0.12		602	0.040	0.0001													
				547	1.2000	0.16		604	0.056	0.0002													
				550	3.0000	0.31		606	0.068	0.0004													
				553	2.2000	0.42		610	0.070	0.0008													
				556	2.8000	0.56		615	0.067	0.0013													
				600	1.5000	0.66		630	0.078	0.0028													
				605	0.4800	0.70		635	0.062	0.0033													
				610	0.4800	0.74		640	0.042	0.0036													
				616	1.3000	0.87		644	0.029	0.0038													
				618	0.9000	0.90		647	0.019	0.0039													
				620	0.9000	0.93		650	0.009	0.0040													
				630	0.1200	0.95		655	0.004	0.0040													
				700	0.0200	0.96		700	0.004	0.0040													
				720	0.0600	0.98		720	0.0	0.0041													
				730	0.1200	1.00		740	0.0	0.0041													
				735	0.3600	1.03		810	0.0	0.0041													
				740	0.2400	1.05		818	0.0	0.0041													
				800	0.0	1.05		820	0.003	0.0041													
				806	0.4000	1.09		824	0.006	0.0041													
				810	1.0500	1.16		827	0.016	0.0041													
				815	0.6000	1.21		830	0.030	0.0042													
				820	0.4800	1.25		832	0.038	0.0043													
				830	0.4800	1.33		836	0.043	0.0045													
				835	0.4800	1.37		840	0.048	0.0047													
				840	0.3600	1.40		850	0.048	0.0054													
				850	0.0600	1.41		900	0.045	0.0060													
				900	0.2400	1.45		904	0.049	0.0063													

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.081290.

1971 SELECTED EUBOFF EVENT			SONORA, TEXAS WATERSHED #7							
ANTECEDENT CONDITIONS			RAINFALL				EUBOFF			
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 27, 1971 (CONTINUED)										
			7-27	905	1.4400	1.57	7-27	906	0.059	0.0068
				908	1.0000	1.62		920	0.067	0.0076
				910	0.9000	1.65		930	0.068	0.0085
				920	0.2400	1.69		950	0.066	0.0103
				930	0.3000	1.74		954	0.084	0.0107
				935	0.4800	1.78		957	0.119	0.0111
				940	0.1200	1.79		1000	0.158	0.0117
				950	0.1000	1.88		1005	0.179	0.0128
				954	1.0500	1.91		1010	0.203	0.0141
				1000	0.5000	1.96		1020	0.209	0.0169
				1010	0.4200	2.03		1025	0.205	0.0183
				1020	0.3600	2.09		1030	0.197	0.0197
				1040	0.0900	2.12		1035	0.167	0.0209
				1130	0.0360	2.15		1040	0.140	0.0219
								1045	0.117	0.0228
								1050	0.092	0.0235
								1055	0.064	0.0240
								1100	0.049	0.0244
								1105	0.035	0.0247
								1110	0.026	0.0249
								1115	0.017	0.0251
								1120	0.010	0.0252
								1140	0.001	0.0253
								1200	0.0	0.0253

NOTES: To convert runoff in CFS to IR/ER, multiply by 0.081290.



TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Mishnabotna 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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1971 P	0.53	1.17	0.30	0.86	8.86	4.13	1.79	1.23	0.39	4.65	4.00	0.93	28.84														
1971 Q	0.163	0.665	0.558	0.154	3.955	0.425	0.301	0.185	0.125	0.173	0.182	0.143	7.029														
STA AV P	0.50	0.59	0.84	3.07	4.64	6.68	3.74	3.71	4.03	3.08	1.19	0.87	32.93														
Q	0.307	0.561	0.543	0.336	1.077	2.271	0.376	0.458	0.535	0.296	0.229	0.215	7.208														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Date	Maximum Discharge				Maximum Volume for Selected Time Interval										
	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.		
1971 5-18	3.180	5-18	0.933	5-18	1.180	5-17	1.568	5-17	1.710	5-17	1.822	5-17	1.838	5-10	3.047
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	1967	1967	1967	1967	1967	1967	1967	1967	1967

NOTES: Watershed conditions: 95% contoured corn; 5% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 1; 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 Risc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see National Weather Service records at Osaka, Nebraska.

1971 DAILY PRECIPITATION (inches)												TREYNOR, IOWA WATERSHED 1													
Day	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	0.02	0.0	0.0	0.0	0.0	0.0	0.02	0.0	1.68	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.25	0.0	0.0													
3	0.48	0.0	0.0	0.0	0.0	0.0	0.35	0.22	0.0	0.0	0.0	0.02													
4	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.36	0.02	0.0	0.0	0.08													
5	0.0	0.0	0.06	0.0	0.0	0.20	0.09	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	1.79	0.16	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.05	0.0	0.0	0.0	0.31	0.0	0.0	0.06	0.0	0.06	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.10	0.10													
9	0.0	0.0	0.0	0.0	0.82	0.75	0.76	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	2.07	0.17	0.60	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	0.33	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	0.10	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	0.10													
16	0.0	0.0	0.0	0.11	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0													
17	0.0	0.0	0.0	0.0	0.93	0.0	0.02	0.0	0.0	0.0	0.13	0.0													
18	0.0	0.33	0.0	0.0	2.51	0.33	0.93	0.0	0.0	0.47	0.0	0.0													
19	0.0	0.27	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0													
21	0.0	0.06	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.39	0.02	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0	0.0	0.14	0.0													
24	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.16	0.02	0.0	0.0	0.0													
25	0.0	0.0	0.10	0.0	0.0	0.0	0.03	0.0	0.27	0.0	0.0	0.0													
26	0.0	0.02	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.07	0.10	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.76	0.05	0.0													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0													
29	0.05	0.0	0.0	0.0	0.0	1.91	0.0	0.06	0.0	2.07	0.0	0.58													
30	0.0	0.0	0.0	0.28	0.25	0.15	0.0	0.0	0.0	0.91	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	0.53	1.17	0.30	0.86	8.86	4.13	1.79	1.23	0.39	4.65	4.00	0.93													
STA AV	0.50	0.59	0.84	3.07	4.64	6.68	3.74	3.71	4.03	3.08	1.19	0.87													

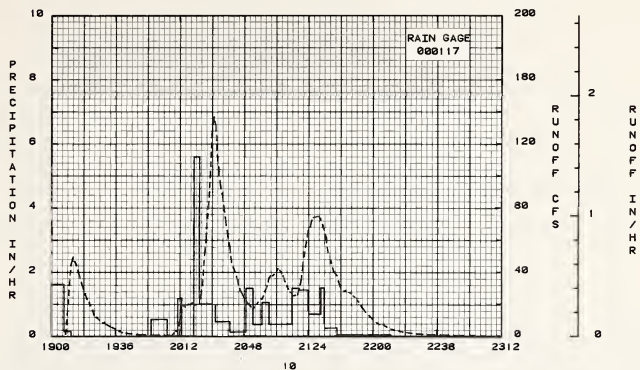
NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after November 1; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV based on 8 yr record period.

1971 SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 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 MAY 10 - 11, 1971 (CONTINUED)										
							5-10			
							1933		6.022	0.1255
							1934		5.462	0.1268
							1936		4.411	0.1290
							1938		2.981	0.1306
							1940		2.351	0.1318
							1942		1.810	0.1327
							1945		1.856	0.1338
							1948		1.990	0.1346
							1953		0.808	0.1357
							1958		0.663	0.1365
							2004		0.557	0.1373
							2007		0.557	0.1377
							2008		0.969	0.1379
							2009		1.981	0.1382
							2010		3.096	0.1388
							2011		3.811	0.1396
							2012		9.243	0.1411
							2013		19.797	0.1443
							2014		19.036	0.1486
							2015		18.286	0.1528
							2016		19.416	0.1570
							2017		20.171	0.1614
							2018		19.797	0.1658
							2019		20.927	0.1704
							2020		19.416	0.1749
							2023		20.547	0.1882
							2024		25.773	0.1933
							2025		35.401	0.2001
							2026		52.607	0.2098
							2027		64.331	0.2229
							2028		80.967	0.2390
							2029		99.933	0.2590
							2030		128.642	0.2846
							2031		136.770	0.3139
							2032		131.143	0.3415
							2033		111.536	0.3703
							2034		99.933	0.3940
							2035		92.050	0.4152
							2036		87.284	0.4350
							2037		77.386	0.4532
							2038		69.003	0.4696
							2039		61.220	0.4840
							2040		55.399	0.4969
							2041		46.025	0.5081
							2043		39.943	0.5272
							2045		32.291	0.5433
							2046		28.349	0.5500
							2048		24.268	0.5616
							2050		20.547	0.5716
							2052		18.286	0.5802
							2053		17.191	0.5842
							2054		18.286	0.5881
							2055		19.797	0.5923
							2056		21.307	0.5968
							2058		23.423	0.6068
							2059		25.114	0.6122
							2100		28.815	0.6182
							2101		31.260	0.6248
							2102		36.542	0.6323
							2103		37.672	0.6405
							2104		37.672	0.6489
							2105		38.813	0.6574
							2106		39.943	0.6661
							2107		42.324	0.6752
							2108		41.084	0.6846
							2109		39.378	0.6935
							2110		37.672	0.7020
							2111		33.844	0.7099
							2112		31.260	0.7172
							2113		29.280	0.7239
							2114		27.409	0.7302
							2115		26.479	0.7362
							2116		25.538	0.7419
							2117		25.538	0.7475
							2118		26.008	0.7532

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01331. Event precipitation totals for rain pages 116 and 118 are 1.84 and 1.70 in., respectively and Thiessen weighted average total for event is 1.65 in.

1971 SELECTED RUNOFF EVENT				TERRYBOR, IOWA WATERSHED 1						
PRECIPITATION CONDITIONS			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 10 - 11, 1971 (CONTINUED)										
							5-10	2119	29.280	0.7554
								2120	34.882	0.7665
								2121	43.554	0.7752
								2122	52.607	0.7858
								2123	59.034	0.7983
								2124	65.891	0.8121
								2125	68.222	0.8269
								2126	72.354	0.8424
								2127	74.035	0.8588
								2129	74.870	0.8917
								2130	74.870	0.9085
								2131	72.354	0.9248
								2132	69.003	0.9404
								2134	61.220	0.9694
								2135	51.937	0.9819
								2136	49.266	0.9931
								2137	45.410	1.0036
								2138	40.513	1.0132
								2140	37.672	1.0305
								2141	33.846	1.0384
								2142	30.220	1.0456
								2144	28.349	1.0585
								2145	28.349	1.0649
								2146	27.879	1.0711
								2148	26.479	1.0831
								2149	25.114	1.0889
								2150	24.268	1.0944
								2151	22.997	1.0996
								2152	21.307	1.1045
								2154	17.906	1.1132
								2156	14.865	1.1204
								2158	12.729	1.1265
								2200	10.503	1.1317
								2202	8.518	1.1359
								2204	7.442	1.1395
								2206	7.013	1.1427
								2208	5.647	1.1455
								2210	4.411	1.1477
								2212	3.811	1.1495
								2215	3.096	1.1518
								2217	2.656	1.1531
								2219	2.256	1.1542
								2222	1.810	1.1555
								2225	1.490	1.1566
								2228	1.246	1.1575
								2231	1.090	1.1583
								2235	0.859	1.1592
								2240	0.757	1.1601
								2248	0.577	1.1613
								2255	0.427	1.1621
								2305	0.306	1.1629
								2315	0.208	1.1635
								2325	0.149	1.1639
								2336	0.116	1.1642
								2400	0.116	1.1648
							5-11	100	0.089	1.1662
								300	0.076	1.1684

NOTES: To convert runoff in CFS to IN/88, multiply by 0.01331. Event precipitation totals for rain gages 116 and 118 are 1.84 and 1.70 in., respectively and Thiessen weighted average total for event is 1.65 in.



TREYNOE, 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)													TREYNOE, IOWA WATERSHED 2													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1971	P	0.53	1.17	0.30	0.82	8.73	4.05	1.70	1.45	0.51	4.78	4.06	0.93	28.99												
	Q	0.272	0.927	0.818	0.234	2.612	0.412	0.288	0.204	0.143	0.178	0.201	0.172	6.461												
STA AV	P	0.50	0.59	0.91	3.04	4.57	6.68	3.65	3.59	4.07	3.06	1.21	0.87	32.71												
	Q	0.330	0.655	0.596	0.319	0.882	2.132	0.315	0.400	0.497	0.300	0.222	0.217	6.864												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.		
1971	5-18	2.559	5-18	0.650	5-18	0.781	5-17	0.950	5-17	1.039	5-17	1.151	5-17	1.169	5-10	2.049

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	3.796	6-20	3.810	6-4	5.531
																1967

NOTES: Watershed conditions: 95% contoured corn; 5% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 1; Thiessen average of rain gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 to 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, USDA Misc. Pub. 1194, p. 71-2-5. For long-time precipitation records, see National Weather Service records period at Omaha, Nebraska.

1971 DAILY PRECIPITATION (inches)													TREYNOE, IOWA WATERSHED 2												
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	0.0	0.02	0.0	1.74	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.26	0.0	0.0													
3	0.48	0.0	0.0	0.0	0.0	0.0	0.31	0.21	0.0	0.0	0.0	0.02													
4	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.35	0.02	0.0	0.0	0.08													
5	0.0	0.0	0.06	0.0	0.26	0.10	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	1.74	0.11	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.05	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.10	0.10													
10	0.0	0.0	0.0	0.0	0.42	0.71	0.78	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	2.20	0.17	0.51	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	0.10	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	0.10													
16	0.0	0.0	0.0	0.0	0.09	0.02	0.0	0.0	0.0	0.0	0.40	0.0													
17	0.0	0.0	0.0	0.0	0.86	0.0	0.03	0.0	0.0	0.0	1.13	0.0													
18	0.0	0.33	0.0	0.0	2.31	0.31	0.04	0.0	0.0	0.50	0.0	0.0													
19	0.0	0.27	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.10	0.41	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0													
21	0.0	0.06	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.39	0.02	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.14	0.0													
24	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.22	0.07	0.0	0.0	0.0													
25	0.0	0.0	0.10	0.0	0.0	0.0	0.03	0.0	0.29	0.0	0.0	0.0													
26	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0	0.08	0.10	0.0	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.05													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0													
29	0.05	0.0	0.0	0.0	0.0	1.88	0.0	0.11	2.05	0.0	0.58	0.0													
30	0.0	0.0	0.0	0.24	0.26	0.19	0.0	0.0	0.51	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	0.53	1.17	0.30	0.82	8.73	4.05	1.70	1.45	0.51	4.78	4.06	0.93													
STA AV	0.50	0.59	0.91	3.04	4.57	6.68	3.65	3.59	4.07	3.06	1.21	0.87													

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through November 1, and from station 117 for remainder of year. STA AV based on 8 yr record period.

1971						TETTMOR, IOWA WATERSHED 2						
MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.027	0.027	0.033	0.027	0.030	0.039	0.031	0.023	0.017	0.012	0.117	0.022
2	0.027	0.027	0.029	0.027	0.027	0.037	0.029	0.025	0.015	0.018	0.025	0.022
3	0.027	0.027	0.029	0.028	0.028	0.037	0.038	0.031	0.015	0.012	0.028	0.022
4	0.027	0.027	0.313	0.027	0.025	0.037	0.031	0.038	0.017	0.015	0.018	0.022
5	0.027	0.027	0.314	0.027	0.030	0.038	0.031	0.027	0.015	0.016	0.017	0.022
6	0.027	0.027	0.168	0.028	0.477	0.039	0.031	0.026	0.017	0.015	0.017	0.022
7	0.027	0.027	0.049	0.027	0.085	0.038	0.030	0.027	0.015	0.014	0.017	0.022
8	0.027	0.027	0.126	0.026	0.034	0.037	0.029	0.027	0.016	0.015	0.020	0.019
9	0.027	0.027	0.225	0.028	1.135	0.076	0.016	0.025	0.016	0.014	0.018	0.017
10	0.027	0.027	0.616	0.026	3.293	0.105	0.023	0.026	0.016	0.014	0.017	0.017
11	0.027	0.448	0.322	0.026	0.063	0.038	0.031	0.023	0.016	0.016	0.017	0.017
12	0.027	0.053	0.077	0.027	0.045	0.031	0.031	0.021	0.015	0.015	0.017	0.017
13	0.027	0.028	0.037	0.028	0.044	0.031	0.028	0.023	0.016	0.014	0.017	0.017
14	0.027	0.027	0.035	0.027	0.044	0.033	0.029	0.020	0.015	0.015	0.017	0.017
15	0.027	0.282	0.032	0.027	0.043	0.031	0.027	0.022	0.016	0.014	0.017	0.024
16	0.027	0.329	0.033	0.029	0.041	0.031	0.025	0.023	0.017	0.015	0.025	0.019
17	0.027	0.329	0.031	0.027	0.522	0.031	0.025	0.023	0.017	0.017	0.052	0.017
18	0.027	0.749	0.030	0.028	3.538	0.038	0.027	0.023	0.017	0.024	0.023	0.017
19	0.027	0.349	0.028	0.027	0.063	0.031	0.027	0.025	0.017	0.017	0.021	0.017
20	0.027	0.035	0.029	0.036	0.047	0.030	0.028	0.036	0.018	0.017	0.017	0.017
21	0.030	0.027	0.027	0.029	0.048	0.031	0.025	0.026	0.020	0.017	0.017	0.017
22	0.028	0.027	0.026	0.025	0.047	0.091	0.027	0.022	0.019	0.017	0.017	0.017
23	0.030	0.027	0.025	0.023	0.049	0.031	0.027	0.016	0.019	0.017	0.021	0.022
24	0.032	0.028	0.025	0.023	0.052	0.029	0.025	0.023	0.017	0.017	0.019	0.017
25	0.034	0.032	0.027	0.023	0.044	0.030	0.028	0.015	0.023	0.017	0.017	0.017
26	0.031	0.055	0.028	0.028	0.044	0.028	0.025	0.016	0.018	0.017	0.020	0.017
27	0.027	0.086	0.027	0.027	0.041	0.026	0.025	0.017	0.016	0.029	0.017	0.017
28	0.027	0.042	0.027	0.025	0.038	0.026	0.025	0.016	0.015	0.017	0.020	0.017
29	0.052	0.027	0.027	0.036	0.291	0.025	0.015	0.016	0.016	0.029	0.022	0.030
30	0.047	0.026	0.030	0.039	0.049	0.049	0.025	0.017	0.013	0.060	0.022	0.021
31	0.027	0.025	0.025	0.041	0.041	0.023	0.017	0.017	0.021	0.021	0.019	0.019
MEAN	0.0305	0.1151	0.0918	0.0271	0.2931	0.0477	0.0323	0.0229	0.0166	0.0200	0.0234	0.0193
INCRES	0.272	0.927	0.818	0.234	2.612	0.412	0.288	0.204	0.143	0.174	0.201	0.172
STA AV	0.130	0.655	0.596	0.319	0.882	2.132	0.315	0.400	0.497	0.300	0.222	0.217

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28746. STA AV based on 8 yr record period.

1971						TETTMOR, IOWA WATERSHED 2					
SELECTED RUNOFF EVENT											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Runoff	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF RAY 10 - 11, 1971											
5-10	EG 000115	0.39	0.107	5-10	EG 000115		5-10	1902	0.955	0.0	
					1901	0.0	0.0	1903	0.094	0.0	
					1905	2.8501	0.19	1904	0.147	0.0	
					1910	1.4401	0.31	1905	0.163	0.0	
					1916	0.3000	0.34	1906	0.214	0.0	
					2000	0.0	0.34				
WATERSHED CONDITIONS:											
					2007	0.6001	0.41	1907	0.278	0.0	
					2014	0.0	0.41	1908	0.295	0.0001	
					2017	1.5999	0.49	1909	0.395	0.0002	
					2022	0.0	0.49	1910	0.653	0.0003	
					2028	3.4998	0.84	1911	0.723	0.0012	
					2034	0.9999	0.94	1912	11.125	0.0638	
					2044	0.3000	0.99	1913	13.605	0.0641	
					2052	0.1500	1.01	1916	13.605	0.0143	
					2058	1.0999	1.12	1917	14.905	0.0171	
					2108	0.6000	1.22	1918	17.366	0.0203	
					2114	0.5000	1.27	1919	17.656	0.0238	
					2121	1.2857	1.42	1920	17.221	0.0273	
					2129	1.0500	1.56	1921	16.495	0.0307	
					2133	0.4500	1.59	1922	15.685	0.0339	
					2139	0.5000	1.64	1923	14.125	0.0369	
					2141	1.8004	1.70	1924	13.364	0.0396	
					2143	0.0	1.70	1925	12.645	0.0422	
					2145	1.1997	1.74	1926	11.444	0.0446	
					2200	0.1200	1.77	1927	9.523	0.0467	
					2215	0.0800	1.79	1928	8.343	0.0485	
								1929	7.392	0.0501	
								1931	6.262	0.0528	
								1933	5.642	0.0552	
								1934	5.092	0.0563	
								1935	4.681	0.0573	

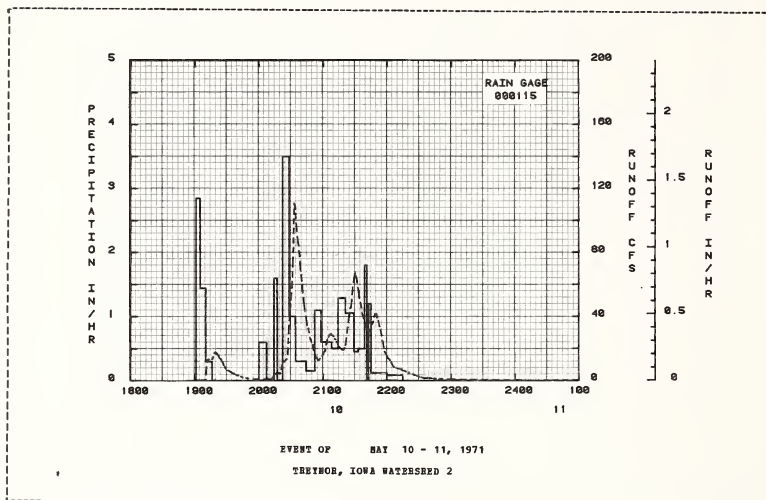
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gage 116 and 118 are 1.84 and 1.70 respectively, and Thiessen weighted average total for event is 1.79 in.

1971 SELECTED RUNOFF EVENT				TREYNOR, IOWA WATERSHED 2						
AFCISEHDEP 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 10 - 11, 1971 (CONTINUED)										
							5-10	2115	21.087	0.4567
								2116	20.427	0.4628
								2117	19.766	0.4668
								2118	19.107	0.4707
								2119	19.107	0.4746
								2120	20.097	0.4785
								2121	22.077	0.4827
								2122	26.789	0.4876
								2123	33.331	0.4937
								2124	37.853	0.5008
								2125	42.229	0.5088
								2126	45.855	0.5176
								2127	50.792	0.5274
								2128	58.509	0.5383
								2129	63.591	0.5508
								2130	67.523	0.5636
								2131	65.556	0.5768
								2132	60.970	0.5894
								2133	57.279	0.6012
								2134	51.367	0.6122
								2135	48.531	0.6221
								2136	45.320	0.6314
								2137	41.238	0.6400
								2138	38.763	0.6481
								2139	36.022	0.6555
								2141	32.906	0.6692
								2142	31.195	0.6757
								2143	31.620	0.6819
								2144	30.770	0.6881
								2145	32.481	0.6945
								2146	35.102	0.7012
								2147	36.932	0.7084
								2148	39.753	0.7160
								2149	41.734	0.7242
								2150	41.734	0.7325
								2151	39.258	0.7406
								2152	37.393	0.7482
								2153	33.761	0.7554
								2154	31.620	0.7619
								2155	27.959	0.7678
								2156	24.568	0.7730
								2157	20.756	0.7776
								2158	17.986	0.7814
								2159	16.495	0.7848
								2200	15.425	0.7880
								2201	13.864	0.7909
								2202	13.248	0.7936
								2203	12.404	0.7961
								2204	11.204	0.7985
								2205	9.944	0.8006
								2206	8.913	0.8025
								2207	8.343	0.8042
								2209	7.773	0.8074
								2211	7.392	0.8104
								2213	6.970	0.8133
								2214	6.582	0.8146
								2216	6.030	0.8171
								2218	5.507	0.8194
								2220	4.822	0.8215
								2221	4.542	0.8224
								2224	3.922	0.8249
								2226	3.331	0.8263
								2228	2.911	0.8276
								2230	2.399	0.8287
								2232	1.920	0.8296
								2234	1.560	0.8303
								2235	1.380	0.8306
								2236	1.380	0.8309
								2237	1.380	0.8312
								2238	1.440	0.8315
								2240	1.440	0.8321
								2242	1.321	0.8327
								2244	1.201	0.8332
								2246	1.150	0.8337

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gage 116 and 118 are 1.84 and 1.70 respectively, and Thiessen weighted average total for event is 1.79 in.

1971 SELECTED RUNOFF EVENT			TREYBOR, IOWA WATERSHED 2								
PRECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF MAY 10 - 11, 1971 (CONTINUED)											
							5-10	2249	0.951	0.8383	
								2252	0.814	0.8348	
								2259	0.692	0.8359	
								2309	0.548	0.8371	
								2324	0.342	0.8384	
								2334	0.243	0.8390	
								2341	0.179	0.8393	
								2350	0.147	0.8396	
								2400	0.132	0.8399	
							5-11	200	0.105	0.8427	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gage 116 and 118 are 1.84 and 1.70 respectively, and Thiessen weighted average total for event is 1.79 in.



TREYBOR, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Wabashaota River, Musonri River Basin.

AREA: 107.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)												TREYBOR, IOWA WATERSHED 3													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1971 P	0.96	1.18	0.20	1.06	9.56	3.44	1.53	1.51	0.72	4.80	3.91	0.87	29.70												
Q	0.171	0.705	0.690	0.192	0.967	0.472	0.294	0.183	0.152	0.208	0.222	4.368													
STA AV P	0.53	0.63	0.85	3.16	4.63	6.42	3.39	3.20	3.93	3.05	1.15	0.85	31.76												
Q	0.259	0.581	0.525	0.305	0.393	0.760	0.352	0.247	0.271	0.326	0.226	0.219	4.823												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED FLOOD INTERVALS															
Maxima Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date								
1971	5-10 0.286	5-10 0.233	5-10 0.327	5-10 0.393	5-10 0.404	5-10 0.419	5-10 0.439	5-10 0.616							
MAXIMUMS FOR PERIOD OF RECORD															
1967	6-20 2.010	1967	6-20 1.005	1967	6-20 1.287	1967	6-20 1.336	1967	6-20 1.356	1967	6-20 1.371	1967	2-27 1.408	1967	6-14 1.741

NOTES: Watershed conditions: 96% permanent pasture with controlled grazing; 4% gravel roads and farmland. Precipitation: Arithmetic average of rain gauges 113 and 114 before April 1 and after November 1; 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 Res. Pub. 1194, p. 71-3-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1971 DAILY AIR TEMPERATURE (degrees F)												TREYBOR, 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						
1	44	26	18	4	30	20	42	27	60	40	72	56	85	61	89	58	90	64	86	71	50	41	31	22
2	32	22	30	14	23	12	43	27	58	33	79	53	85	59	84	59	53	68	76	54	53	33	33	25
3	24	12	26	23	28	9	48	23	69	33	89	57	76	63	76	60	92	68	68	43	50	31	33	28
4	12	0	22	12	42	18	48	26	75	48	90	68	82	68	71	60	79	64	78	46	56	29	34	30
5	4	-8	16	3	36	27	46	23	69	53	92	64	87	66	76	59	86	53	79	52	53	27	35	27
6	6	-14	14	-2	31	25	60	26	58	52	90	62	88	64	79	57	96	59	78	46	34	14	37	35
7	10	-14	2	-6	28	18	76	30	55	47	82	59	71	72	57	100	60	74	42	32	12	37	31	
8	26	10	6	-12	33	13	76	45	68	43	80	58	83	64	82	64	84	65	62	40	38	29	37	30
9	34	18	14	-8	41	27	67	38	67	47	80	61	80	63	90	64	82	57	54	40	56	33	34	19
10	22	12	37	8	45	25	74	33	72	55	82	62	85	65	89	69	90	56	76	36	64	34	34	13
11	16	0	44	34	53	30	78	55	72	54	86	65	82	66	86	58	86	54	69	41	70	36	41	26
12	14	-3	34	10	56	30	73	48	64	36	90	68	96	70	89	63	94	54	74	39	68	38	38	15
13	15	8	23	4	68	38	62	40	81	44	87	64	80	64	93	66	87	52	66	47	68	42	39	23
14	13	-2	35	22	46	38	68	31	84	54	81	65	78	60	88	65	77	54	78	46	67	42	36	31
15	10	-4	41	22	38	30	82	44	85	58	87	65	85	62	82	62	71	51	79	46	70	38	40	32
16	23	10	46	34	44	28	70	51	84	56	89	64	91	62	89	61	61	45	80	55	64	57	36	15
17	20	11	56	32	54	30	74	48	82	63	88	68	90	66	89	60	66	46	78	58	58	40	25	15
18	17	2	46	38	52	26	70	56	63	49	82	65	85	68	92	62	50	46	74	62	40	50	52	18
19	14	-7	46	29	32	22	80	56	61	46	96	74	78	57	88	70	66	40	69	49	46	26	38	26
20	37	8	29	25	49	22	76	46	69	44	86	65	89	58	81	68	78	38	54	48	58	38	33	24
21	40	24	26	22	38	30	66	44	64	52	86	60	90	65	86	68	74	48	56	50	38	20	30	21
22	31	15	24	21	30	20	59	42	63	57	89	65	85	62	92	64	64	46	55	49	34	26	37	29
23	40	14	31	16	29	17	65	39	80	60	90	61	83	65	94	68	68	38	60	52	34	30	52	35
24	43	20	33	10	30	14	67	40	58	49	89	68	84	57	84	62	69	38	66	42	31	36	28	
25	46	12	36	19	45	26	63	45	64	47	89	68	75	64	92	57	61	40	50	44	33	44	29	
26	17	4	35	28	39	32	56	43	64	44	98	71	77	53	79	54	89	56	72	58	48	32	36	14
27	20	0	35	23	49	38	58	44	66	40	92	66	82	56	76	45	92	68	64	40	35	26	20	10
28	20	8	30	16	56	32	56	36	70	43	96	72	74	56	82	48	82	60	60	34	34	30	39	9
29	53	18	58	36	62	32	76	46	94	66	75	51	85	53	90	56	40	37	31	20	34	27	27	
30	10	6	78	36	68	47	69	52	82	64	72	45	86	55	88	70	44	34	29	20	35	22	12	
31	11	2	80	43	83	58	83	58	84	50	84	50	90	62	84	50	52	27	52	27	43	21	14	11
AV.	24	7	30	16	48	26	68	40	68	48	88	64	83	61	85	61	80	54	68	47	49	31	36	28
MEAN	15.2	22.8	35.3	52.0	58.9	76.1	72.3	72.8	67.1	57.1	40.0	30.0												
STA AV	28	10	34	15	46	24	61	38	73	51	81	60	86	65	82	60	74	52	64	42	47	28	34	18

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the data shown. STA AV based on 7 yr record period.

1971		DAILY PRECIPITATION (inches)						TRETNOE, 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.17	0.25	0.0	1.65	0.0	
3	0.91	0.0	0.0	0.0	0.0	0.0	0.26	0.68	0.0	0.0	0.0	0.01	
4	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.20	0.05	0.0	0.0	0.05	
5	0.0	0.0	0.05	0.0	0.22	0.14	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	1.59	0.14	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.09	0.10	
9	0.0	0.0	0.0	0.0	0.33	0.69	0.72	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	3.88	0.16	0.44	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.01	0.0	0.0	0.02	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.01	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	0.05	
16	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.0	0.0	0.43	0.0	
17	0.0	0.0	0.0	0.07	0.54	0.0	0.03	0.0	0.0	0.0	1.10	0.0	
18	0.0	0.52	0.0	0.0	1.95	0.26	0.04	0.0	0.0	0.54	0.0	0.0	
19	0.0	0.18	0.0	0.0	0.10	0.0	0.0	0.14	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	
21	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.25	0.02	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.14	0.0	
24	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.02	0.10	0.0	0.0	0.0	
25	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.0	0.26	0.0	0.0	0.0	
26	0.0	0.02	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.09	0.10	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.0	0.05	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	
29	0.05	0.0	0.0	0.0	0.0	1.58	0.0	0.0	2.02	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.11	0.29	0.18	0.0	0.0	0.0	0.92	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	0.96	1.14	0.20	1.06	9.56	3.44	1.53	1.51	0.72	4.80	3.91	0.87	
STA AV	0.53	0.61	0.85	3.16	4.63	6.42	3.39	3.20	3.93	3.05	1.15	0.85	

NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after November 1; Thiessen weighted average values from rain gages 112, 113 and 114 for remainder of year. STA AV based on 8 yr record period.

1971		MEAN DAILY DISCHARGE (cfs)						TRETNOE, IOWA WATERSHED 3					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.022	0.031	0.058	0.033	0.026	0.079	0.052	0.032	0.024	0.013	0.106	0.027	
2	0.022	0.027	0.046	0.033	0.025	0.078	0.050	0.030	0.018	0.018	0.030	0.027	
3	0.022	0.024	0.046	0.033	0.027	0.076	0.054	0.042	0.017	0.016	0.027	0.027	
4	0.022	0.022	0.201	0.033	0.026	0.074	0.049	0.037	0.017	0.015	0.027	0.027	
5	0.022	0.022	0.238	0.033	0.030	0.080	0.049	0.030	0.016	0.014	0.027	0.027	
6	0.022	0.022	0.128	0.030	0.053	0.077	0.048	0.030	0.017	0.013	0.027	0.027	
7	0.022	0.022	0.060	0.027	0.045	0.076	0.047	0.031	0.015	0.011	0.027	0.027	
8	0.022	0.019	0.110	0.027	0.036	0.073	0.045	0.030	0.017	0.015	0.027	0.027	
9	0.022	0.017	0.253	0.027	0.037	0.084	0.058	0.029	0.016	0.016	0.027	0.027	
10	0.022	0.017	0.539	0.027	1.804	0.081	0.056	0.025	0.015	0.015	0.027	0.027	
11	0.022	0.168	0.369	0.027	0.171	0.071	0.048	0.025	0.016	0.014	0.027	0.027	
12	0.022	0.063	0.118	0.027	0.090	0.071	0.047	0.026	0.014	0.016	0.027	0.027	
13	0.022	0.026	0.084	0.027	0.077	0.069	0.045	0.023	0.016	0.017	0.027	0.027	
14	0.018	0.022	0.058	0.027	0.073	0.073	0.046	0.025	0.016	0.017	0.027	0.027	
15	0.017	0.208	0.055	0.027	0.073	0.059	0.042	0.027	0.016	0.017	0.024	0.028	
16	0.017	0.313	0.053	0.029	0.069	0.069	0.041	0.025	0.016	0.015	0.024	0.027	
17	0.017	0.275	0.050	0.030	0.082	0.068	0.039	0.023	0.016	0.014	0.052	0.027	
18	0.017	1.009	0.047	0.028	0.451	0.071	0.040	0.023	0.017	0.024	0.028	0.027	
19	0.017	0.243	0.051	0.027	0.121	0.065	0.038	0.027	0.016	0.016	0.027	0.027	
20	0.017	0.055	0.057	0.037	0.099	0.062	0.039	0.029	0.017	0.017	0.027	0.027	
21	0.020	0.041	0.062	0.027	0.094	0.068	0.036	0.027	0.016	0.017	0.027	0.027	
22	0.017	0.039	0.058	0.027	0.094	0.071	0.038	0.023	0.017	0.017	0.027	0.027	
23	0.019	0.039	0.057	0.027	0.092	0.068	0.038	0.023	0.017	0.017	0.028	0.027	
24	0.020	0.039	0.051	0.027	0.090	0.062	0.037	0.023	0.016	0.017	0.027	0.027	
25	0.038	0.039	0.043	0.027	0.083	0.062	0.039	0.023	0.019	0.017	0.027	0.027	
26	0.027	0.060	0.039	0.028	0.079	0.060	0.036	0.023	0.016	0.017	0.029	0.027	
27	0.027	0.212	0.037	0.028	0.079	0.059	0.036	0.023	0.016	0.028	0.027	0.027	
28	0.027	0.096	0.034	0.028	0.078	0.054	0.034	0.022	0.016	0.017	0.027	0.027	
29	0.086	0.034	0.025	0.079	0.086	0.031	0.020	0.017	0.130	0.027	0.163	0.13	
30	0.048	0.034	0.028	0.085	0.066	0.035	0.020	0.014	0.068	0.027	0.042	0.027	
31	0.033	0.031	0.031	0.080	0.080	0.031	0.020	0.016	0.024	0.024	0.038	0.038	
MEAN	0.0246	0.1133	0.1001	0.0287	0.1003	0.0707	0.0426	0.0265	0.0167	0.0220	0.0306	0.0223	
INCHES	0.171	0.705	0.690	0.192	0.967	0.472	0.294	0.183	0.111	0.152	0.204	0.222	
STA AV	0.259	0.541	0.525	0.305	0.393	0.760	0.352	0.247	0.271	0.326	0.226	0.219	

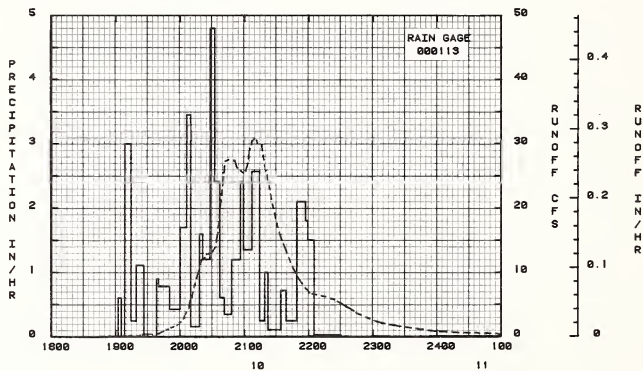
NOTES: To convert mean daily discharge in CFS to IS/DAT, multiply by 0.22245. STA AV based on 8 yr record period.

1971 SELECTED BOMOFF EVENT				TREYBORG, IOWA WATERSHED 3						
ANTECHAMPT CONDITIONS			RAINFALL			BOMOFF				
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 10 - 11, 1971										
RG 000113										
5-10	0.57	0.014	5-10	1902	0.0	0.0	5-10	1885	0.047	0.0
				1905	0.6000	0.03		1907	0.047	0.0002
				1908	0.0	0.03		1911	0.055	0.0002
				1914	3.0003	0.33		1912	0.094	0.0002
				1919	0.2400	0.35		1913	0.117	0.0002
WATERSHED CONDITIONS:										
96% Permanent brose grass										
pasture, moderately grazed										
in weekly rotation, 8 in-										
tall, 70% canopy; 4 1/2 gravel										
roads and farmstead.										
				1926	1.1144	0.48		1914	0.147	0.0002
				1938	0.0	0.48		1915	0.055	0.0002
				1940	0.9002	0.51		1921	0.059	0.0003
				1950	0.7800	0.64		1923	0.252	0.0003
				2050	0.4200	1.71		1925	0.296	0.0004
				2006	1.7002	0.88		1927	0.369	0.0005
				2010	3.4500	1.11		1929	0.395	0.0006
				2016	0.1500	1.13		1938	0.395	0.0011
				2021	1.5999	1.21		1941	0.515	0.0013
				2028	1.2000	1.35		1942	0.673	0.0014
				2032	4.8001	1.67		1945	0.859	0.0018
				2037	2.4001	1.87		1947	1.050	0.0021
				2041	0.6000	1.91		1949	1.175	0.0024
				2048	0.3429	1.95		1951	1.440	0.0028
				2056	1.2000	2.11		1954	1.501	0.0035
				2059	2.3999	2.23		1957	1.700	0.0042
				2107	1.3500	2.41		1958	1.881	0.0045
				2114	2.5714	2.71		1959	2.161	0.0048
				2119	0.2400	2.73		2001	2.251	0.0055
				2122	1.0002	2.78		2003	2.711	0.0063
				2134	0.1000	2.80		2004	3.191	0.0068
				2139	0.7200	2.86		2005	3.522	0.0073
				2149	0.2400	2.90		2006	3.751	0.0079
				2157	2.1000	3.18		2008	4.317	0.0092
				2159	1.8004	3.24		2009	5.372	0.0100
				2205	1.4999	3.39		2011	6.107	0.0118
				2230	0.0240	3.40		2012	6.942	0.0128
								2013	7.812	0.0139
								2014	8.332	0.0151
								2016	9.483	0.0179
								2018	10.484	0.0210
								2020	11.921	0.0245
								2023	12.259	0.0301
								2025	12.822	0.0380
								2027	12.934	0.0380
								2030	13.190	0.0441
								2033	13.955	0.0504
								2034	14.975	0.0527
								2035	16.211	0.0551
								2036	17.805	0.0577
								2038	21.247	0.0638
								2040	23.998	0.0708
								2041	25.798	0.0746
								2042	27.119	0.0787
								2045	27.509	0.0914
								2051	27.319	0.1168
								2053	26.179	0.1251
								2056	25.798	0.1371
								2059	25.418	0.1490
								2101	25.798	0.1569
								2103	26.938	0.1650
								2104	28.079	0.1693
								2105	29.255	0.1737
								2107	30.500	0.1829
								2109	30.915	0.1924
								2111	30.500	0.2019
								2112	30.065	0.2066
								2116	29.670	0.2251
								2119	26.559	0.2381
								2121	25.038	0.2460
								2126	20.612	0.2636
								2129	18.366	0.2726
								2133	15.715	0.2832
								2138	13.699	0.2946
								2143	11.584	0.3044
								2146	10.484	0.3095
								2151	8.883	0.3170
								2154	8.158	0.3210
								2157	7.467	0.3246
								2201	6.792	0.3290

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.009269. Event precipitation totals for rain gage 112 and 114 are 3.23 and 3.34 in., respectively, and the Thiessen weighted average event precipitation is 3.33 in.

1971 SELECTED RUNOFF EVENT				TETHOBE, IOWA WATERSHED 3						
PRECIPITATION CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)
No-Day			No-Day				No-Day			
EVENT OF RAY 10 - 11, 1971 (CONTINUED)										
							5-10	2203	6.642	0.3311
								2213	6.257	0.3411
								2216	6.182	0.3480
								2221	5.877	0.3487
								2224	5.721	0.3514
								2227	5.422	0.3540
								2229	5.171	0.3556
								2230	5.112	0.3564
								2233	4.807	0.3587
								2234	4.744	0.3594
								2237	4.442	0.3615
								2238	4.379	0.3622
								2242	3.971	0.3648
								2244	3.694	0.3660
								2246	3.522	0.3671
								2247	3.412	0.3676
								2249	3.301	0.3686
								2254	2.801	0.3710
								2257	2.711	0.3723
								2304	2.251	0.3750
								2311	1.960	0.3773
								2318	1.771	0.3793
								2326	1.501	0.3813
								2336	1.290	0.3835
								2343	1.100	0.3848
								2347	1.050	0.3855
								2354	0.859	0.3865
								2400	0.732	0.3872
							5-11	2	0.732	0.3874
								9	0.693	0.3882
								16	0.617	0.3889
								31	0.515	0.3902
								46	0.452	0.3913
								55	0.426	0.3919
								130	0.274	0.3938
								200	0.233	0.3950
								315	0.214	0.3974

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.009269. Event precipitation totals for rain gage 112 and 114 are 3.23 and 3.34 in., respectively, and the Thiessen weighted average event precipitation is 3.33 in.



EVENT OF RAY 10 - 11, 1971

TETHOBE, IOWA WATERSHED 3

TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishabotna 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												
1971 P	0.88	1.07	0.20	1.10	9.57	3.46	1.60	1.70	0.83	4.83	3.86	0.91	30.01												
Q	0.246	0.326	0.529	0.413	1.647	0.805	0.545	0.505	0.310	0.270	0.274	0.316	6.186												
STA AV P	0.51	0.60	0.84	3.17	4.60	6.50	3.41	3.23	4.26	3.17	1.16	0.82	32.27												
Q	0.390	0.413	0.603	0.468	0.678	1.017	0.799	0.547	0.524	0.510	0.459	0.427	6.833												
ANNUAL MAXIMUM DISCHARGE (in/hr) and MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Maxima Discharge						Maxima Volume for Selected Time Interval																			
Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days																		
Date	Date	Date	Date	Date	Date	Date	Date																		
1971	5-10	0.241	5-10	0.168	5-10	0.289	5-10	0.425	5-10	0.440	5-10	0.463	5-10	0.509	5-10	0.789									
MAXIMUMS FOR PERIOD OF RECORD																									
6-25	0.296	5-10	0.168	5-10	0.289	5-10	0.425	2-28	0.496	2-28	0.645	2-28	0.758	6-20	1.072										
1966																									

NOTES: Watershed conditions: 82% contoured corn above level terraces which have a capacity of 2 inches of runoff; 7% contoured corn below the bottom terraces; 10% grassed terrace back slopes; 1% gully. Precipitation from rain gage 113 before April 1 and after November 1; 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 to 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, USDA Misc. Pub. 1194, p. 71-A-4. For long-time precipitation records, see National Weather Service records at Osaba, Nebraska.

1971 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	0.02	0.0	0.0	0.0	0.0	0.0	0.35	0.0	1.64	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.23	0.0	0.0													
3	0.83	0.0	0.0	0.0	0.0	0.0	0.25	0.78	0.0	0.0	0.0	0.01													
4	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.32	0.05	0.0	0.0	0.05													
5	0.0	0.0	0.06	0.0	0.28	0.16	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.0	0.0	0.0	0.0	1.54	0.12	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.04	0.0	0.0													
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.08	0.12													
9	0.0	0.0	0.01	0.0	0.13	0.70	0.82	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.0	3.84	0.13	0.43	0.0	0.0	0.0	0.0	0.0													
11	0.0	0.02	0.0	0.0	0.04	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	0.0													
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	0.01	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	0.05													
16	0.0	0.0	0.0	0.07	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0												
17	0.0	0.0	0.0	0.05	0.58	0.0	0.02	0.0	0.0	0.0	1.16	0.0													
18	0.0	0.47	0.0	0.0	1.93	0.25	0.05	0.0	0.0	0.55	0.0	0.0													
19	0.0	0.17	0.0	0.0	0.12	0.0	0.0	0.17	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.28	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	0.22	0.02	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.13	0.0													
24	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.02	0.10	0.0	0.0	0.0													
25	0.0	0.0	0.09	0.0	0.0	0.0	0.02	0.0	0.27	0.0	0.0	0.0													
26	0.0	0.02	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.0													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.05													
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	0.05	0.0	0.0	0.0	0.0	1.56	0.0	0.0	0.06	2.06	0.0	0.63													
30	0.0	0.0	0.12	0.31	0.22	0.0	0.0	0.0	0.0	0.96	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	0.88	1.07	0.20	1.10	9.57	3.46	1.60	1.70	0.83	4.83	3.86	0.91													
STA AV	0.51	0.60	0.84	3.17	4.60	6.50	3.41	3.23	4.26	3.17	1.16	0.82													

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through November 1, and from 113 for remainder of year. STA AV based on 8 yr record period.

1971 BEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED #												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.069	0.039	0.073	0.094	0.081	0.233	0.116	0.107	0.090	0.054	0.090	0.064
2	0.064	0.039	0.074	0.094	0.077	0.233	0.114	0.111	0.078	0.056	0.065	0.064
3	0.064	0.039	0.074	0.094	0.081	0.218	0.119	0.124	0.073	0.054	0.056	0.064
4	0.059	0.039	0.082	0.094	0.083	0.215	0.114	0.117	0.073	0.054	0.054	0.064
5	0.054	0.039	0.101	0.094	0.087	0.218	0.114	0.115	0.073	0.050	0.054	0.064
6	0.054	0.039	0.101	0.094	0.220	0.216	0.109	0.110	0.073	0.050	0.054	0.064
7	0.054	0.039	0.094	0.094	0.149	0.235	0.109	0.110	0.073	0.054	0.054	0.064
8	0.050	0.036	0.094	0.094	0.097	0.215	0.106	0.108	0.073	0.054	0.054	0.064
9	0.047	0.033	0.112	0.091	0.105	0.208	0.123	0.107	0.073	0.054	0.054	0.064
10	0.047	0.033	0.187	0.085	2.797	0.183	0.118	0.104	0.073	0.054	0.054	0.064
11	0.047	0.043	0.192	0.086	0.368	0.170	0.106	0.104	0.073	0.054	0.054	0.064
12	0.047	0.052	0.136	0.083	0.295	0.163	0.105	0.104	0.073	0.054	0.054	0.064
13	0.047	0.043	0.127	0.083	0.295	0.163	0.106	0.104	0.068	0.054	0.054	0.064
14	0.047	0.039	0.124	0.083	0.283	0.163	0.112	0.104	0.064	0.050	0.054	0.064
15	0.047	0.078	0.113	0.083	0.260	0.156	0.107	0.104	0.064	0.054	0.054	0.064
16	0.047	0.124	0.110	0.083	0.250	0.155	0.107	0.104	0.064	0.054	0.058	0.064
17	0.047	0.125	0.110	0.083	0.249	0.151	0.108	0.100	0.064	0.054	0.079	0.064
18	0.047	0.311	0.110	0.083	0.508	0.153	0.106	0.104	0.064	0.056	0.063	0.064
19	0.047	0.232	0.108	0.083	0.472	0.146	0.105	0.110	0.064	0.050	0.056	0.064
20	0.047	0.076	0.104	0.093	0.414	0.143	0.101	0.107	0.059	0.049	0.054	0.064
21	0.054	0.068	0.104	0.083	0.381	0.144	0.110	0.099	0.054	0.054	0.054	0.064
22	0.051	0.064	0.104	0.083	0.355	0.147	0.111	0.094	0.054	0.054	0.054	0.064
23	0.049	0.064	0.104	0.083	0.342	0.139	0.112	0.094	0.054	0.054	0.054	0.064
24	0.053	0.064	0.104	0.083	0.332	0.137	0.115	0.094	0.054	0.054	0.054	0.064
25	0.053	0.071	0.104	0.083	0.291	0.137	0.105	0.094	0.061	0.054	0.054	0.064
26	0.047	0.079	0.104	0.083	0.279	0.127	0.104	0.094	0.054	0.049	0.054	0.064
27	0.043	0.073	0.102	0.083	0.268	0.123	0.107	0.094	0.054	0.056	0.054	0.064
28	0.039	0.073	0.097	0.083	0.256	0.120	0.113	0.094	0.054	0.047	0.054	0.064
29	0.045	0.094	0.083	0.246	0.144	0.116	0.094	0.055	0.081	0.059	0.069	0.064
30	0.048	0.094	0.082	0.245	0.138	0.114	0.088	0.052	0.075	0.064	0.064	0.064
31	0.039	0.094	0.094	0.234	0.130	0.110	0.083	0.054	0.054	0.054	0.064	0.064
BEAN	0.0501	0.0734	0.1075	0.0867	0.3349	0.1691	0.1109	0.1026	0.0652	0.0548	0.0575	0.0643
INCHES	0.246	0.326	0.529	0.413	1.647	0.805	0.545	0.535	0.310	0.270	0.274	0.316
STA AV	0.390	0.413	0.603	0.468	0.678	1.017	0.799	0.547	0.524	0.510	0.459	0.427

NOTES: To convert bean daily discharge in CFS to IR/DAY, multiply by 0.15868. STA AV based on 8 yr record period.

1971 SELECTED RUNOFF EVENT TREYNOR, IOWA WATERSHED #											
APPEARENT CONDITIONS		RAINFALL		RUNOFF							
Date	Rainfall	Date	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	Mo-Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF MAY 10 - 11, 1971											
5-10	RG 000113 0.57	0.030	5-10	HG 000113 1902 0.0 1905 0.6000 1908 0.0 1914 3.0003 1919 0.2400	0.0 0.0 0.03 0.33 0.35	5-10	1911 0.104 1912 0.147 1913 0.197 1915 0.233 1918 0.233	0.0 0.0 0.0 0.0 0.0001			
WATERSHED CONDITIONS:											
82% Contoured corn above											
level terraces; 7% contoured											
corn below level terraces;											
corn 1-2 in. tall, 5% of sur-											
face covered by stalk residue;											
10% grassed terrace back											
slopes, broom grass 8 in tall;											
most detention areas above											
level terraces are water											
filling with some terraces											
spilling over; 1% gullies.											
2006			2006	1.7002	0.88	1930	1.841	0.0069			
2010			2010	3.4500	1.11	1931	2.208	0.0007			
2018			2018	0.1500	0.13	1932	2.626	0.0010			
2021			2021	1.5999	1.21	1933	2.961	0.0013			
2028			2028	1.2000	1.35	1934	3.206	0.0016			
2032			2032	4.8001	1.67	1935	3.828	0.0020			
2037			2037	2.4001	1.87	1936	4.642	0.0025			
2041			2041	0.6000	1.91	1937	5.466	0.0031			
2048			2048	0.3429	1.95	1938	5.820	0.0037			
2056			2056	1.2000	2.11	1941	5.820	0.0056			
2059			2059	2.3999	2.23	1943	5.662	0.0069			
2107			2107	1.3500	2.41	1945	5.192	0.0081			
2114			2114	2.5714	2.71	1948	4.571	0.0097			
2119			2119	0.2400	2.73	1951	4.177	0.0111			
2122			2122	1.0002	2.78	1953	3.771	0.0120			
2136			2136	0.1000	2.80	1955	3.662	0.0128			
2139			2139	0.7200	2.86	1957	2.462	0.0136			
2149			2149	0.2400	2.90	1958	4.001	0.0140			
2157			2157	2.1000	3.18	1959	4.642	0.0145			
2159			2159	1.8004	3.24	2000	5.192	0.0150			

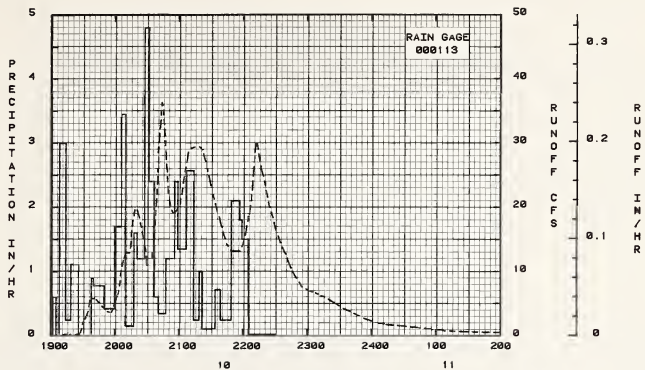
NOTES: To convert runoff in CFS to IR/HR, multiply by 0.0064. Even precipitation totals for rain gauges 111 and 112 are 3.16 and 3.23 in., respectively and the 82-acre event precipitation in 3.25 in.

1971 SELECTED RUNOFF EVENT			TRIBINOP, IOWA WATERSHED								
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	Date (CFS)	Acc. (inches)	
EVENT OF			10 - 11, 1971 (CONTINUED)								
5-10			2205		1.4999	3.39	5-10	2001	5.602	0.0156	
			2230		0.0290	3.40		2002	6.102	0.0162	
								2003	6.399	0.0169	
								2004	7.053	0.0176	
								2005	8.583	0.0185	
								2006	10.153	0.0195	
								2007	10.994	0.0207	
								2008	11.714	0.0220	
								2009	12.194	0.0233	
								2010	12.675	0.0247	
								2011	12.914	0.0261	
								2014	12.914	0.0304	
								2015	13.935	0.0319	
								2016	16.326	0.0336	
								2017	18.037	0.0355	
								2018	18.936	0.0375	
								2019	19.596	0.0396	
								2021	19.596	0.0439	
								2023	18.321	0.0481	
								2024	17.466	0.0501	
								2025	16.896	0.0520	
								2026	15.756	0.0538	
								2028	14.195	0.0571	
								2029	13.154	0.0586	
								2030	10.994	0.0599	
								2031	12.194	0.0612	
								2033	11.953	0.0639	
								2035	11.953	0.0665	
								2036	13.414	0.0679	
								2037	15.756	0.0695	
								2038	16.037	0.0714	
								2039	20.507	0.0735	
								2040	24.068	0.0760	
								2041	29.409	0.0789	
								2042	31.525	0.0823	
								2043	33.641	0.0859	
								2044	36.392	0.0897	
								2045	35.932	0.0937	
								2046	33.641	0.0975	
								2047	31.100	0.1011	
								2048	27.459	0.1043	
								2049	25.508	0.1072	
								2050	22.267	0.1098	
								2052	20.257	0.1145	
								2054	19.266	0.1189	
								2055	18.936	0.1210	
								2057	19.266	0.1252	
								2059	19.927	0.1295	
								2101	20.507	0.1340	
								2103	22.267	0.1387	
								2105	24.788	0.1439	
								2108	27.655	0.1526	
								2109	28.630	0.1557	
								2112	29.214	0.1653	
								2115	29.409	0.1750	
								2119	29.409	0.1880	
								2122	29.019	0.1976	
								2123	28.240	0.2008	
								2125	27.069	0.2069	
								2128	24.788	0.2155	
								2130	23.347	0.2208	
								2133	21.248	0.2281	
								2135	19.927	0.2327	
								2138	18.321	0.2390	
								2140	16.896	0.2429	
								2142	15.756	0.2465	
								2145	14.195	0.2515	
								2146	13.935	0.2530	
								2149	13.154	0.2575	
								2157	13.154	0.2691	
								2200	14.195	0.2736	
								2203	16.326	0.2786	
								2205	18.607	0.2825	
								2206	18.936	0.2846	
								2207	20.257	0.2868	

NOTES: To convert runoff in CFS to in/hr, multiply by 0.00661. Event precipitation totals for rain gages 111 and 112 are 3.16 and 3.23 in., respectively and the Thiessen average event precipitation is 3.25 in.

1971 SELECTED RUNOFF EVENT				TREYBORG, IOWA WATERSHED #							
PRECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Rmoff (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 10 - 11, 1971 (CONTINUED)											
							5-10	2208	21.907	0.2891	
								2209	23.347	0.2916	
								2210	26.289	0.2943	
								2211	28.630	0.2973	
								2212	29.836	0.3006	
								2213	29.836	0.3039	
								2214	29.019	0.3071	
								2215	27.850	0.3103	
								2217	25.899	0.3162	
								2219	24.788	0.3218	
								2220	24.068	0.3245	
								2222	22.267	0.3296	
								2225	19.927	0.3366	
								2228	18.321	0.3429	
								2230	16.896	0.3468	
								2235	14.455	0.3554	
								2237	13.675	0.3585	
								2240	12.675	0.3629	
								2242	11.714	0.3656	
								2245	10.554	0.3693	
								2248	9.553	0.3726	
								2250	8.952	0.3746	
								2253	8.243	0.3774	
								2255	7.563	0.3791	
								2303	6.908	0.3855	
								2305	6.762	0.3870	
								2308	6.617	0.3892	
								2310	6.472	0.3906	
								2313	6.182	0.3927	
								2316	6.036	0.3947	
								2323	5.332	0.3991	
								2330	4.642	0.4029	
								2335	4.117	0.4053	
								2340	3.771	0.4075	
								2344	3.436	0.4091	
								2349	2.996	0.4109	
								2355	2.530	0.4127	
								2400	2.255	0.4140	
							5-11	7	1.921	0.4156	
								12	1.841	0.4166	
								14	1.735	0.4170	
								20	1.630	0.4181	
								28	1.500	0.4195	
								41	1.260	0.4215	
								53	1.050	0.4230	
								109	0.731	0.4246	
								130	0.581	0.4261	
								150	0.514	0.4273	
								210	0.452	0.4288	
								223	0.452	0.4290	
								233	0.423	0.4295	
								255	0.395	0.4305	

NOTES: To convert runoff in CFS to IS/HR, multiply by 0.00661. Event precipitation totals for rain gages 111 and 112 are 3.16 and 3.23 in., respectively and the Thiessen average event precipitation is 3.25 in.



EVENT OF MAY 10 - 11, 1971
TREYNOR, IOWA WATERSHED 4

TREYBOR, IOWA WATERSHED 5

LOCATION: Pottawattamie County, Iowa; approximately 9 miles southeast of Treynor and 3 miles southwest of Macedonia; west Mishabotna River, Missouri River Basin.

AREA: 389.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TREYBOR, IOWA WATERSHED 5																
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																
1971	P	0.75	1.50	0.34	1.11	6.45	2.97	1.92	0.75	0.57	5.06	4.09	1.09	26.60															
	Q	0.144	0.699	0.561	0.328	0.880	0.470	0.340	0.190	0.094	0.147	0.211	0.158	4.221															
STA AV	P	0.50	0.64	1.10	3.06	3.62	6.07	3.19	3.30	3.86	2.76	1.27	0.91	30.28															
	Q	0.254	0.396	0.571	0.338	0.396	1.013	0.502	0.308	0.398	0.298	0.271	0.246	4.992															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													TREYBOR, IOWA WATERSHED 5																
Date	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.														
1971		5-18	0.149	5-18	0.099	5-18	0.137	5-18	0.173	5-18	0.190	2-18	0.276	2-17	0.399	2-16	0.525												
MAXIMUMS FOR PERIOD OF RECORD													TREYBOR, IOWA WATERSHED 5																
		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 1st corn, 30 and 3; beans, 23 and 1; small grain, 9 and 2; hay and clover, 8 and 0; pasture, 12 and 8; and roads and farmsteads, 1 and 3. Precipitation: Before April 1 and after November 2 arithmetic average of rain gauges 101 and 108; thence average of seven recording rain gauges for remainder of year. Precipitation and runoff records began February 6, 1963. January 1 to February 6, 1963 precipitation and 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. 71-5-6. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1971 DAILY PRECIPITATION (inches)													TREYBOR, IOWA WATERSHED 5												
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	0.0	0.0	0.0	0.0	1.57	0.0												
2	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.13	0.0	0.0												
3	0.62	0.0	0.0	0.0	0.0	0.0	0.33	0.10	0.0	0.0	0.0	0.0	0.0												
4	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.17	0.08	0.0	0.0	0.0	0.09												
5	0.0	0.0	0.04	0.0	0.12	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.78	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
7	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.05	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	0.06	0.0	0.09												
9	0.0	0.0	0.0	0.0	0.18	0.29	0.86	0.0	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.0	1.39	0.05	0.85	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	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02												
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	0.05												
16	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0												
17	0.0	0.0	0.0	0.03	0.55	0.0	0.02	0.0	0.0	0.0	0.0	1.09	0.0												
18	0.0	0.87	0.0	0.0	2.23	0.37	0.03	0.0	0.0	0.0	0.80	0.0	0.0												
19	0.0	0.18	0.0	0.0	0.07	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.15	0.0	0.19	0.0	0.0	0.0												
21	0.0	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.29	0.02	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.06	0.12	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.10	0.0	0.0	0.0	0.08	0.0	0.29	0.0	0.0	0.0	0.0												
26	0.0	0.04	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.09	0.13	0.0	0.0												
27	0.0	0.0	0.0	0.14	0.0	0.0	0.15	0.0	0.0	0.94	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	0.29	0.0	0.0												
29	0.05	0.0	0.0	0.0	0.0	1.53	0.0	0.0	0.0	1.88	0.0	0.82	0.0												
30	0.0	0.0	0.0	0.12	0.28	0.27	0.0	0.0	0.0	0.92	0.0	0.02	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	0.75	1.50	0.34	1.11	6.45	2.97	1.92	0.75	0.57	5.06	4.09	1.09													
STA AV	0.50	0.64	1.10	3.06	3.62	6.07	3.19	3.30	3.86	2.76	1.27	0.91													

NOTES: Daily precipitation amounts are Thiessen weighted average values from seven stations (101 through 107) for period of April 1 through November 2 and are arithmetic averages from stations 101 and 108 for remainder of the year. STA AV based on 9 yr record period.

1971					TREYBOR, IOWA WATERSHED 5							
MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.094	0.081	0.258	0.181	0.238	0.333	0.192	0.130	0.066	0.039	0.626	0.086
2	0.098	0.035	0.271	0.172	0.231	0.380	0.178	0.180	0.053	0.046	0.157	0.091
3	0.095	0.043	0.264	0.175	0.212	0.319	0.240	0.159	0.053	0.035	0.029	0.094
4	0.064	0.057	0.446	0.169	0.211	0.315	0.200	0.181	0.059	0.035	0.086	0.093
5	0.030	0.059	0.448	0.168	0.220	0.312	0.200	0.150	0.049	0.038	0.075	0.090
6	0.022	0.059	0.335	0.178	0.403	0.332	0.206	0.139	0.089	0.036	0.071	0.086
7	0.033	0.059	0.296	0.173	0.413	0.282	0.176	0.148	0.047	0.034	0.071	0.086
8	0.041	0.059	0.312	0.165	0.181	0.264	0.160	0.139	0.050	0.039	0.081	0.078
9	0.047	0.059	0.322	0.158	0.172	0.267	0.175	0.122	0.051	0.035	0.079	0.071
10	0.046	0.059	0.437	0.147	1.060	0.309	0.327	0.102	0.059	0.035	0.074	0.071
11	0.053	0.136	0.464	0.156	0.397	0.252	0.189	0.089	0.059	0.035	0.073	0.065
12	0.055	0.075	0.419	0.165	0.277	0.242	0.178	0.100	0.059	0.035	0.071	0.053
13	0.047	0.059	0.483	0.157	0.253	0.228	0.171	0.090	0.039	0.035	0.071	0.059
14	0.058	0.059	0.403	0.160	0.225	0.246	0.187	0.086	0.038	0.035	0.065	0.087
15	0.059	0.125	0.313	0.158	0.211	0.231	0.162	0.086	0.036	0.035	0.065	0.088
16	0.059	0.234	0.269	0.193	0.199	0.210	0.154	0.092	0.039	0.035	0.161	0.065
17	0.056	0.487	0.267	0.183	0.240	0.201	0.151	0.083	0.037	0.035	0.175	0.045
18	0.053	0.406	0.275	0.188	0.674	0.270	0.158	0.082	0.043	0.121	0.108	0.073
19	0.050	2.098	0.275	0.195	0.637	0.203	0.153	0.102	0.045	0.052	0.087	0.078
20	0.047	0.346	0.251	0.250	0.506	0.182	0.151	0.097	0.056	0.052	0.086	0.071
21	0.067	0.277	0.228	0.174	0.492	0.202	0.140	0.091	0.053	0.049	0.086	0.071
22	0.083	0.282	0.216	0.157	0.466	0.157	0.159	0.078	0.055	0.047	0.086	0.071
23	0.078	0.365	0.216	0.157	0.461	0.197	0.164	0.073	0.059	0.047	0.105	0.081
24	0.101	0.281	0.216	0.158	0.485	0.192	0.163	0.069	0.059	0.047	0.104	0.071
25	0.152	0.276	0.216	0.158	0.393	0.195	0.160	0.067	0.070	0.047	0.086	0.071
26	0.115	0.476	0.237	0.174	0.374	0.180	0.156	0.067	0.059	0.049	0.103	0.059
27	0.122	0.516	0.240	0.197	0.363	0.160	0.147	0.072	0.054	0.177	0.086	0.041
28	0.122	0.391	0.201	0.210	0.352	0.167	0.143	0.067	0.047	0.071	0.094	0.046
29	0.183	0.194	0.233	0.338	0.338	0.322	0.144	0.065	0.051	0.530	0.100	0.172
30	0.148	0.198	0.247	0.351	0.534	0.140	0.069	0.040	0.415	0.086	0.211	0.246
31	0.080	0.193	0.392	0.392	0.392	0.133	0.067		0.082		0.151	
MEAN	0.0761	0.4078	0.2955	0.1785	0.4641	0.2562	0.1791	0.1001	0.0511	0.0775	0.1149	0.0832
INCHES	0.144	0.699	0.561	0.328	0.880	0.470	0.340	0.190	0.094	0.147	0.211	0.158
STA AV	0.254	0.396	0.571	0.328	0.396	1.013	0.502	0.308	0.398	0.298	0.271	0.246

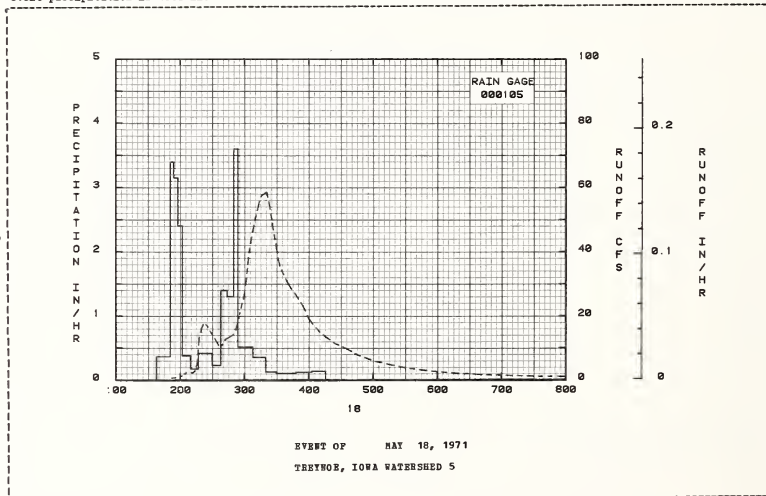
NOTES: To convert mean daily discharge in CFS to IR/DAT, multiply by 0.06119. STA AV based on 9 yr record period.

1971					TREYBOR, IOWA WATERSHED 5					
PRECIPITATION CONDITIONS					RAINFALL					
No-Day	Rainfall (inches)	Bunoff (inches)	Date	Time	Intensity	Acc.	Date	Time	Bate	Acc.
			Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 18, 1971										
5-18	0.0	0.005	5-18	138	0.0	0.0	5-18	152	0.588	0.0
				145	0.3692	0.88		156	0.702	0.0001
				154	3.4000	0.25		200	0.973	0.0002
				158	3.1500	0.46		202	1.310	0.0003
				202	2.4000	0.62		204	1.949	0.0004
WATERSHED CONDITIONS:										
Percent of Watershed In:				210	0.3750	0.67	210	2.306	0.0006	
Above				217	0.1714	0.69	212	2.255	0.0012	
Terraces Terraces				230	0.4154	0.78	214	2.4852	0.0014	
Corn	30	3	238	0.2250	0.81	216	4.985	0.0017		
Beans	23	1	244	1.4000	0.95	218	13.454	0.0025		
Small Grain	9	2								
Alfalfa			250	1.3000	1.08	220	16.184	0.0038		
Clover	8	0	254	3.6000	1.32	222	17.357	0.0052		
pasture	12	8	308	0.5143	1.44	224	17.357	0.0067		
Roads and			320	0.3500	1.51	226	16.576	0.0081		
Farmland	1	3	330	0.1200	1.53	228	15.403	0.0095		
Crops heights and canopy:										
Corn 1-4 in. tall, 90% beans			348	0.1000	1.56	230	14.234	0.0108		
1-2 in. tall, small grain 18-			403	0.1200	1.59	234	12.144	0.0130		
24 in. tall, 90% canopy,			416	0.1385	1.62	236	10.834	0.0140		
pasture, 8-12 in. tall, 70-						238	10.504	0.0149		
80% canopy.						240	11.159	0.0158		
						243	12.795	0.0173		
						250	14.234	0.0213		
						252	15.796	0.0226		
						254	17.812	0.0248		
						256	20.977	0.0256		
						258	23.958	0.0275		
						300	26.547	0.0297		
						302	31.752	0.0322		
						304	36.161	0.0352		
						306	43.115	0.0386		

NOTES: To convert runoff in CFS to IR/HR, multiply by 0.002549. Event precipitation totals for data ranges 101, 102, 103, 104, 106 and 107 are 1.41, 1.60, 1.62, 1.47, 1.77, 1.72 inches, respectively and the thissen weighted average event precipitation is 1.62 in.

1971 SELECTED RUNOFF EVENT			TETHOR, IOWA WATERSHED 5								
AFFECTING 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 18, 1971 (CONTINUED)											
							5-18	308	46.755	0.0424	
								310	49.987	0.0465	
								314	55.730	0.0555	
								316	57.514	0.0603	
								320	58.409	0.0701	
								321	58.409	0.0726	
								324	53.219	0.0797	
								327	46.755	0.0861	
								330	40.934	0.0917	
								333	35.541	0.0966	
								340	30.579	0.1064	
								344	28.237	0.1114	
								348	26.547	0.1161	
								353	23.938	0.1215	
								357	21.432	0.1254	
								400	19.165	0.1280	
								404	17.357	0.1311	
								410	15.015	0.1352	
								416	13.454	0.1388	
								424	11.485	0.1430	
								436	9.614	0.1484	
								444	7.951	0.1514	
								454	6.731	0.1545	
								504	5.621	0.1571	
								520	4.421	0.1605	
								530	3.750	0.1622	
								546	3.001	0.1645	
								600	2.475	0.1661	
								620	1.949	0.1680	
								642	1.549	0.1696	
								706	1.310	0.1711	
								730	1.071	0.1723	
								756	0.973	0.1734	
								816	0.910	0.1742	
								836	0.879	0.1750	
								856	0.820	0.1757	
								930	0.788	0.1769	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.002549. Event precipitation totals for rain gages 101, 102, 103, 104, 106 and 107 are 1.41, 1.60, 1.62, 1.47, 1.77, 1.72 inches, respectively and the Thiessen weighted average event precipitation is 1.62 in.



COTTONWOOD, SOUTH DAKOTA WATERSHED #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 DAKOTA WATERSHED #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	
1971	P	0.61	1.10	0.24	3.63	3.60	1.37	0.54	1.71	2.87	1.81	0.76	0.16	18.40														
	Q	0.0	0.256	0.434	0.008	0.156	0.0	0.0	0.0	0.082	0.0	0.0	0.932															
STA AV	P	0.31	0.37	0.57	2.11	2.68	3.41	1.65	1.31	1.49	0.64	0.32	0.38	15.23														
	Q	0.060	0.028	0.301	0.015	0.166	0.313	0.047	0.142	0.009	0.0	0.0	0.962															

ANNUAL MAXIMUM DISCHARGE (1a/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Station	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.		
1971	10-17	0.244	10-17	0.081	3-10	0.118	3-10	0.229	3-10	0.246	3-10	0.329	3-10	0.363	3-5	0.434

MAXIMUMS FOR PERIOD OF RECORD															
Station	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
5-30	3.577	5-30	0.608	5-30	0.629	5-30	1.129	5-30	1.129	5-30	1.129	3-17	1.462	3-11	1.571
1963		1963		1963		1963		1963		1963		1969		1969	

NOTES: Watershed conditions: 100% heavily grazed rangeland. Vegetative cover in late July was 1665 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, 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 HH-1, HH-2, HH-3 and HH-4. Precipitation and runoff records began January 1961. Precipitation and runoff STA AV based on 9 yr record period. For long-time precipitation records, see National Weather Service records at Cottonwood, South Dakota.

1971 DAILY PRECIPITATION (inches)												COTTONWOOD, SOUTH DAKOTA WATERSHED #2													
Day	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	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	0.09	0.0	0.0												
3	0.0	0.175	0.0	0.04	0.16	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	0.14	0.0	0.0	2.16	0.0	0.0	0.0												
5	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.0	0.15	0.07	0.0	0.0	0.0	0.0	0.0	0.035												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.135												
8	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												
9	0.015	0.0	0.0	0.0	0.05	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
10	0.015	0.055	0.0	0.0	0.57	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.085	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
12	0.015	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	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.085	0.0	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.275	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.14	0.085	0.0	0.0												
17	0.175	0.0	0.105	0.23	0.0	0.0	0.09	0.0	0.0	1.10	0.0	0.0	0.0												
18	0.0	0.275	0.0	0.07	0.0	0.0	0.14	0.06	0.10	0.0	0.0	0.0	0.0												
19	0.0	0.0	0.0	1.94	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0												
20	0.135	0.025	0.0	0.58	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0												
21	0.0	0.015	0.025	0.10	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.0	0.035	0.0	0.15	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	1.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
24	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												
25	0.0	0.0	0.0	0.04	0.0	0.34	0.24	0.0	0.0	0.0	0.125	0.0	0.0												
26	0.0	0.565	0.065	0.52	0.0	0.11	0.0	0.0	0.0	0.0	0.085	0.0	0.0												
27	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.115	0.0	0.0												
28	0.0	0.0	0.035	0.0	0.0	3.0	0.0	0.0	0.18	0.065	0.025	0.0	0.0												
29	0.055	0.0	0.05	0.50	0.11	0.0	0.0	0.0	0.0	0.025	0.035	0.0	0.0												
30	0.115	0.0	0.0	0.70	0.0	0.0	0.0	1.35	0.0	0.0	0.035	0.0	0.0												
31	0.075	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	0.61	1.10	0.24	3.63	3.60	1.37	0.54	1.71	2.87	1.81	0.76	0.16	18.40												
STA AV	0.31	0.37	0.57	2.11	2.68	3.41	1.65	1.31	1.49	0.64	0.32	0.38	15.23												

NOTES: Arithmetic mean of rain gages HH-1, HH-2, HH-3 and HH-4. STA AV based on 9 yr (1963-71) record period.

1971 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	0.0	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	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.011	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.002	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	0.007	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	0.009	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	0.005	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	0.0008	0.0013	0.0	0.0005	0.0	0.0	0.0	0.0	0.0002	0.0	0.0
INCHES	0.0	0.256	0.434	0.004	0.156	0.0	0.0	0.0	0.0	0.002	0.0	0.0
STA AV	0.060	0.028	0.301	0.015	0.166	0.313	0.047	0.012	0.012	0.007	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 11.745. STA AV based on 9 yr (1963-71) record period.

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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1971	P	0.51	0.55	0.15	3.77	3.52	1.31	0.55	1.54	2.82	1.83	0.65	0.12	17.32														
	Q	0.040	0.525	0.232	0.0	0.170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.567														
STA AV	P	0.29	0.29	0.51	2.13	2.67	3.39	1.63	1.32	1.49	0.64	0.30	0.31	14.96														
	Q	0.008	0.058	0.307	0.008	0.049	0.219	0.008	0.0	0.0	0.0	0.0	0.0	0.888														

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.															
1971	5-30	0.072		2-11	0.062	2-11	0.119	2-11	0.247	2-11	0.274	2-11	0.275	2-11	0.343	2-8	0.6	0.525										

MAXIMUMS FOR PERIOD OF RECORD												
Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	8 Days					
6-15	0.542	6-15	0.388	6-15	0.540	6-15	1.073					
1963		1963		1963		1963						
6-15	0.542	6-15	0.388	6-15	0.540	6-15	1.073					
1963		1963		1963		1963						

NOTES: Watershed conditions: 100% lightly grazed rangeland. Vegetative cover in late July was 3034 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 maxima and minima 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 9 yr record period. For long-time precipitation records, see National Weather Service records at Cottonwood, South Dakota.

1971 DAILY PRECIPITATION (inches)													COTTONWOOD, SOUTH DAKOTA WATERSHED L-2													
Day	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0														
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0														
3	0.0	0.14S	0.0	0.04S	0.15	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	0.17	0.0	2.11	0.0	0.0	0.0														
5	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0														
6	0.0	0.0	0.0	0.0	0.0	0.14	0.05	0.0	0.0	0.0	0.0	0.04S														
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.08S														
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0														
9	0.01S	0.0	0.0	0.0	0.03	0.16	0.0	0.0	0.0	0.0	0.0	0.0														
10	0.02S	0.07S	0.0	0.0	0.51	0.10	0.0	0.0	0.0	0.0	0.0	0.0														
11	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0														
12	0.01S	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	0.06S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S														
15	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.07S	0.0														
16	0.14S	0.0	0.0	0.0	0.13	0.15	0.0	0.0	0.0	0.12	0.22S	0.0														
17	0.0	0.0	0.05S	0.22	0.0	0.0	0.08	0.0	0.0	1.07	0.0	0.0														
18	0.0	0.19S	0.0	0.06	0.0	0.0	0.0	0.14	0.06	0.11	0.0	0.0														
19	0.0	0.0	0.0	1.98	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	0.0														
20	0.05S	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
21	0.0	0.0	0.01S	0.14	0.0	0.0	0.0	0.16	0.09	0.0	0.0	0.0														
22	0.0	0.0	0.01S	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
23	0.0	0.0	0.0	0.0	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
24	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
25	0.0	0.0	0.0	0.05	0.0	0.31	0.25	0.0	0.0	0.0	0.10S	0.0														
26	0.0	0.14S	0.05S	0.54	0.0	0.12	0.0	0.0	0.0	0.0	0.03S	0.0														
27	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
28	0.0	0.0	0.03S	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.03S	0.0														
29	0.05S	0.0	0.05	0.48	0.06	0.0	0.0	0.0	0.0	0.08S	0.04S	0.0														
30	0.11S	0.0	0.0	0.71	0.0	0.0	0.0	1.24	0.0	0.01S	0.02S	0.0														
31	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL	0.51	0.55	0.15	3.77	3.52	1.31	0.55	1.54	2.82	1.83	0.65	0.12														
STA AV	0.29	0.29	0.51	2.13	2.67	3.39	1.63	1.32	1.49	0.64	0.30	0.31														

NOTES: Arithmetic mean of rain gages RL-1, RL-2, RL-3 and RL-4. STA AV based on 9 yr (1963-71) record period.

1971		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	
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	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.028	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.014	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	0.0	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	0.006	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	0.004		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	0.011	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		
MEAN	0.0001	0.0019	0.0007	0.0	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.040	0.525	0.232	0.0	0.170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.004	0.058	0.307	0.004	0.049	0.219	0.004	0.0	0.0	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IZ/DAY, multiply by 10.0007. STA AV based on 9 yr (1963-71) record period.

COTTONWOOD, SOUTH DAKOTA WATERSHED #-1

LOCATION: Jackson County, South Dakota; approximately 3 miles east northeast of Cottonwood, Bad River Basin.

AREA: 2.35 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COTTONWOOD, SOUTH DAKOTA WATERSHED #-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
1971 P	0.68	1.27	0.27	3.71	3.50	1.24	0.53	1.57	2.83	1.91	0.66	0.14	18.31														
Q	0.032	0.301	0.173	0.0	0.082	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.601														
STA AV P	0.33	0.38	0.57	2.15	2.68	3.40	1.66	1.29	1.46	0.67	0.32	0.39	15.31														
Q	0.004	0.033	0.350	0.0	0.159	0.208	0.009	0.002	0.0	0.002	0.0	0.0	0.766														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
Discharge Date	1 Hour			2 Hours			6 Hours			12 Hours			1 Day			2 Days			8 Days								
	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.						
1971	2-11	0.200	3-10	0.047	3-10	0.722	2-11	0.121	2-11	0.122	2-12	0.153	2-11	0.214	2-6	0.300											

MAXIMUMS FOR PERIOD OF RECORD														
Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.	Date	Rate	Vol.
5-30 1963	2.030		5-30 1963	0.710		5-30 1963	0.760		5-30 1963	1.122		5-30 1963	1.122	
												5-30 1966	1.122	
												3-8 1966	1.538	
													3-8 1966	1.913

NOTES: Watershed conditions: 100% moderately grazed rangeland. Vegetative cover in late July was 1723 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 gauges #R-1, #R-2, #R-3 and #R-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 9 yr record period. For long-time precipitation records, see National Weather Service records at Cottonwood, South Dakota.

1971 DAILY AIR TEMPERATURE (degrees F)													COTTONWOOD, SOUTH DAKOTA WATERSHED #-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	40	15	15	-4	36	19	45	24	64	36	67	49	88	45	86	43	96	63	58	48	47	31	46	4	
2	32	6	25	4	29	5	50	19	66	30	77	51	93	59	95	39	104	60	69	42	47	31	43	8	
3	27	2	15	4	43	0	52	22	79	37	80	50	91	61	89	49	103	62	64	43	43	24	41	22	
4	14	-2	18	-13	42	19	46	26	76	44	81	63	91	65	95	59	84	52	74	36	64	27	40	15	
5	7	-5	15	-2	35	22	51	14	66	44	81	53	92	46	95	58	63	51	74	40	60	26	40	18	
6	11	-14	13	4	31	14	72	20	66	33	80	48	96	74	95	57	89	46	78	41	25	10	38	13	
7	17	-16	6	-26	33	6	86	27	62	32	68	51	91	60	95	64	81	53	74	38	48	10	36	13	
8	38	4	16	-12	35	12	64	48	76	38	76	51	90	60	99	65	68	53	61	33	54	4	14	4	
9	35	11	40	-12	43	18	74	29	74	50	81	51	95	60	102	59	79	44	67	26	64	19	43	17	
10	12	-10	43	15	48	25	87	25	74	43	85	50	96	48	102	58	82	46	82	30	67	22	40	8	
11	0	-12	43	16	44	26	83	31	61	38	84	60	84	47	92	47	91	51	73	42	66	26	31	-5	
12	1	-9	38	19	60	27	59	28	71	35	85	57	88	47	100	56	88	51	65	53	66	23	17	-11	
13	11	-6	48	22	68	28	64	22	78	38	80	50	89	62	96	56	93	43	76	27	56	28	18	-7	
14	4	-11	47	28	45	31	78	24	78	47	84	50	91	54	94	54	92	40	67	42	62	24	35	-7	
15	11	-19	51	25	43	29	87	30	71	45	84	62	94	48	97	58	85	32	89	43	51	21	34	10	
16	38	-1	48	29	60	32	79	42	84	39	84	57	94	49	96	65	61	30	44	36	40	31	34	-1	
17	37	12	48	27	40	23	75	37	65	45	83	59	96	49	101	66	59	32	50	32	34	28	34	2	
18	20	3	38	22	37	27	75	54	60	39	91	58	99	49	100	63	59	35	62	45	31	19	42	9	
19	22	-13	30	0	35	20	74	46	60	37	87	58	87	72	92	67	62	32	63	44	43	16	33	20	
20	44	6	28	10	56	15	61	57	71	28	83	55	94	48	97	53	70	33	67	38	50	25	35	17	
21	38	10	24	-4	33	15	58	44	75	44	88	55	101	48	101	52	68	38	69	30	44	23	34	3	
22	36	-11	26	4	29	8	51	48	75	54	85	53	95	60	103	55	61	35	60	37	50	27	37	14	
23	42	4	37	5	28	17	52	40	60	42	94	54	92	53	100	56	71	29	70	29	48	24	47	13	
24	42	7	43	38	38	20	65	31	66	36	93	54	99	64	86	44	78	39	75	45	44	24	40	22	
25	42	7	47	29	51	20	49	35	66	36	93	60	91	55	92	46	84	47	64	40	33	20	39	3	
26	21	3	34	21	68	22	44	31	65	40	97	68	79	40	91	53	81	50	73	33	43	27	5	-3	
27	42	9	33	5	65	42	32	72	43	95	66	82	44	94	56	72	57	71	34	36	22	26	3	-1	
28	43	14	35	1	55	33	55	27	78	46	94	52	76	38	93	60	65	42	36	21	34	23	41	4	
29	47	12			64	24	66	37	78	56	81	65	76	40	100	69	77	42	26	20	29	21	35	3	
30	14	-15			75	23	64	39	66	56	81	48	84	34	86	64	71	49	21	12	32	21	35	7	
31	12	2			58	30			63	50			93	69	74	60			42	16				45	10
1 AV.	26	0	32	8	46	21	64	33	70	41	84	55	91	53	95	56	77	45	62	35	47	22	35	6	
1 MEAN	12.6		20.2		33.4		48.3		55.6		69.7		71.9		75.5		61.0		48.6		34.7		20.4		
1 STA AV	32	6	36	9	45	18	61	32	71	42	81	52	91	59	89	55	79	46	65	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 62 yr (1910-71) record period.

1971 DAILY PRECIPITATION (Inches)						COTTONWOOD, SOUTH DAKOTA WATERSHED #-1						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0
3	0.0	0.20S	0.0	0.04S	0.14	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	0.15	0.0	2.17	0.0	0.0	0.0
5	0.0	0.02S	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	0.14	0.07	0.0	0.0	0.0	0.0	0.02S
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.12S
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0
9	0.02S	0.0	0.0	0.0	0.0	0.03	0.08	0.0	0.0	0.0	0.0	0.0
10	0.01S	0.04S	0.0	0.0	0.54	0.10	0.0	0.0	0.0	0.0	0.0	0.0
11	0.05S	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0
12	0.01S	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	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04S	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.04S	0.0
16	0.0	0.0	0.0	0.0	0.12	0.13	0.0	0.0	0.0	0.15	0.23S	0.0
17	0.21S	0.0	0.13S	0.23	0.0	0.07	0.0	0.0	0.0	1.13	0.0	0.0
18	0.0	0.34S	0.0	0.06	0.0	0.0	0.0	0.14	0.06	0.11	0.0	0.0
19	0.0	0.0	0.0	1.93	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0
20	0.08S	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0
21	0.0	0.0	0.03S	0.11	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0
22	0.0	0.0	0.03S	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.04	0.0	0.32	0.24	0.0	0.0	0.0	0.12S	0.0
26	0.0	0.67S	0.05S	0.53	0.0	0.09	0.0	0.0	0.0	0.0	0.03S	0.0
27	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.11S	0.0
28	0.0	0.0	0.03S	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.01S	0.0
29	0.06S	0.0	0.04	0.04	0.87	0.09	0.0	0.0	0.0	0.11S	0.03S	0.0
30	0.16S	0.0	0.0	0.71	0.0	0.0	0.0	1.25	0.0	0.03S	0.02S	0.0
31	0.06S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.68	1.27	0.27	3.71	3.50	1.24	0.53	1.57	2.83	1.91	0.66	0.14
STA #1	0.33	0.38	0.57	2.15	2.68	3.40	1.66	1.29	1.46	0.67	0.32	0.39

NOTES: Arithmetic mean of rain gages RM-1, RM-2, RM-3 and RM-4. STA #1 based on 9 yr (1963-71) record period.

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1971 MEAN DAILY DISCHARGE (cfs)						COTTONWOOD, SOUTH DAKOTA WATERSHED #-1						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	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	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.012	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.011	0.0	0.0	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	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	0.001	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	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	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	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.004	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	0.0001	0.0011	0.0005	0.0	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.032	0.301	0.173	0.0	0.082	0.0	0.0	0.0	0.0	0.014	0.0	0.0
STA #1	0.004	0.033	0.350	0.0	0.159	0.208	0.009	0.002	0.0	0.002	0.0	0.0

NOTES: To convert mean daily discharge in CFS to I&D/DAY, multiply by 10.1283. STA #1 based on 9 yr (1963-71) record period.

A8OSKIR, NORTH CAROLINA WATERSHED W-A1

LOCATION: Bertford, Bertie, and Northampton Counties, North Carolina; approximately 3/4 mile southwest of A8oskir; Chowan River Basin.

AREA: 36480.00 acres 57.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													A8OSKIR, NORTH CAROLINA WATERSHED W-A1																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
P	3.81	5.10	3.72	2.82	3.95	3.55	2.21	3.87	5.42	7.69	1.20	1.18	47.96																	
1971 Q	1.762	4.778	2.598	1.862	0.292	0.211	0.194	0.939	0.486	5.995	0.685	0.570	20.330																	
STA AV P	3.31	3.55	3.38	2.44	3.88	4.28	5.09	4.79	3.21	3.23	1.63	2.61	42.15																	
Q	1.851	2.766	2.733	1.365	0.866	0.753	1.167	1.207	0.339	1.299	0.286	0.839	15.471																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																														
Maximos Discharge			1 Hour			2 Hours			Maximos Volume for Selected Time Interval			2 Days			8 Days															
Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1971	2-13	0.030	2-13	0.030	2-13	0.060	2-13	0.180	2-13	0.350	2-13	0.680	10-23	1.170	9-30	2.650														
MAXIMIMS FOR PERIOD OF RECORD																														
	10-5	0.070	10-5	0.070	10-5	0.140	10-5	0.420	10-5	0.830	10-5	1.650	10-5	3.020	10-3	4.140														
	1964	1964	1964	1964	1964	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 1965-71 data. Precipitation Thiessen weighted using 10 gages. For long-time precipitation records, see National Weather Service records at Scotland Neck, North Carolina.

1971 DAILY AIR TEMPERATURE (degrees F)													A8OSKIR, 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	45	25	34	14	68	45	72	32	70	34	86	55	90	70	87	65	85	76	68	84	58	50	23		
2	52	18	32	8	59	40	75	60	76	45	85	60	87	68	89	60	84	57	75	64	81	61	44	22	
3	55	21	36	19	49	41	65	38	74	43	86	59	85	63	90	67	85	59	73	65	76	63	37	25	
4	67	38	35	25	52	27	74	32	68	36	91	63	84	58	89	67	88	60	76	64	70	37	51	28	
5	70	55	65	30	56	23	66	38	78	39	90	63	86	55	89	66	89	61	84	55	63	30	53	30	
6	58	36	64	28	64	32	62	42	86	57	93	66	89	66	83	62	88	64	82	63	66	47	69	35	
7	42	32	64	28	64	42	54	34	82	54	95	69	87	66	86	59	87	59	79	53	61	42	72	55	
8	39	24	64	35	55	38	65	31	82	65	95	65	90	63	88	55	83	60	70	40	53	22	68	49	
9	32	22	54	26	51	24	76	36	81	52	85	66	91	64	90	58	86	64	77	44	56	35	56	45	
10	36	28	36	16	58	23	75	35	75	44	85	58	89	67	90	60	89	68	73	58	61	36	72	41	
11	52	32	49	17	60	34	69	30	80	44	84	51	92	68	89	65	87	68	69	41	70	31	76	54	
12	52	28	65	23	68	28	81	35	82	53	86	55	85	62	87	66	83	66	77	43	76	45	74	53	
13	51	30	63	36	74	46	86	42	81	63	85	63	84	60	83	60	81	61	79	44	65	44	72	57	
14	61	35	81	25	76	48	85	53	78	53	86	65	91	66	85	67	80	57	82	52	72	48	70	36	
15	59	38	65	21	77	88	65	30	75	48	86	64	90	63	90	61	85	54	82	49	74	44	75	50	
16	42	24	53	26	71	47	74	38	70	58	75	63	88	64	87	65	88	NR	79	53	64	54	78	62	
17	46	23	60	21	69	37	78	37	82	49	78	59	90	63	87	68	65	88	54	77	53	68	33	76	50
18	39	26	67	26	53	22	76	46	84	52	84	55	93	68	84	67	86	64	88	NR	75	40	57	25	
19	32	19	74	35	65	34	80	40	90	53	81	63	92	68	89	67	88	NR	70	51	71	49	52	18	
20	36	13	70	50	65	NR	80	42	90	59	87	64	86	67	90	68	88	60	70	62	68	39	62	40	
21	51	13	69	45	56	NR	84	43	88	58	91	62	87	67	91	68	87	62	78	61	57	34	66	52	
22	48	39	73	47	69	NR	78	56	75	49	90	63	83	56	90	64	75	60	72	62	44	33	59	35	
23	58	38	68	52	66	47	67	32	75	42	85	64	83	55	87	67	81	55	70	63	52	18	55	25	
24	51	28	56	28	50	26	73	42	78	49	88	65	87	62	86	60	80	59	80	63	52	33	68	35	
25	45	33	61	30	46	19	75	33	82	68	91	65	86	69	84	53	76	48	79	64	57	28	64	36	
26	65	32	70	34	45	31	81	37	85	69	92	70	87	69	82	65	79	44	75	59	51	24	67	34	
27	44	19	74	56	44	23	78	39	86	52	93	67	85	69	75	68	80	50	75	60	55	39	73	37	
28	35	10	70	43	64	25	71	49	85	57	95	69	87	64	86	64	83	54	74	60	55	27	75	45	
29	46	11	60	47	60	47	73	67	64	54	95	67	84	69	85	62	80	72	62	64	34	70	36		
30	63	40	62	37	72	42	63	52	90	67	89	66	85	67	89	68	85	67	85	64	65	40	35	31	
31	59	30	58	29	58	29	77	54	87	70	87	57	87	70	87	57	75	65	78	63	70	49	49	49	
AV	49	28	58	30	60	38	73	41	79	52	88	63	88	65	86	63	84	59	76	57	64	39	65	39	
MEAN	38.6	44.1	46.9	57.2	65.3	76.2	74.8	71.4	66.5	51.6	52.0														
STA AV	51	28	53	31	62	37	73	46	80	54	86	61	89	66	87	64	82	58	73	48	63	37	53	31	

NOTES: Temperature data from National Weather Service Station records at Lewiston, North Carolina. STA AV based on 18 yr (1954-71) record period.

1971 DAILY PRECIPITATION (inches)												AHOKEIE, NORTH CAROLINA WATERSHED #A-1													
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	0.03	0.0	0.0	0.0	0.0	0.0	0.02	0.08	0.31	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.08	0.31	0.0	1.50	0.0	0.0
2	0.0	0.0	0.35	0.39	0.10	0.0	0.0	0.94	0.07	0.0	0.75	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.07	0.0	0.75	0.04	0.0
3	0.0	0.07	1.28	0.13	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0
4	0.95	0.75	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1.36	0.28	0.0	0.0	0.0	0.0	0.40	0.0	0.28	0.01	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	0.0	0.0
6	0.0	0.0	0.0	1.47	0.0	0.0	0.93	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.55	0.0	0.0	0.0
7	0.0	1.05	0.0	0.07	0.09	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.03
8	0.0	0.27	0.0	0.0	0.11	0.30	0.0	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	0.01	0.0	0.0	0.0
9	0.29	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.09	0.0	0.0	0.01
10	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02	1.00	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.10	0.0	0.0	0.01
12	0.0	0.0	0.0	0.0	0.0	0.11	0.03	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.03	0.0	1.21	0.0	0.15
13	0.0	1.35	0.0	0.0	0.86	0.03	0.0	0.0	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	0.04	0.0	0.0	0.07
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	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	0.37	0.0	0.53	0.0	0.35	0.55	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.05
16	0.0	0.0	0.0	0.0	0.44	0.11	0.04	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.22	0.0	0.0	0.0	0.0
17	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	0.22	0.0	0.0	0.0	0.15
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0
19	0.0	0.0	0.22	0.0	0.0	0.0	0.21	0.01	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.01	0.0	0.12	0.0	0.0
20	0.0	0.01	0.02	0.0	0.0	0.0	0.07	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.11	0.0	0.0	0.53
21	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0	0.0
22	0.15	1.15	0.0	0.0	0.0	0.47	0.0	1.56	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.56	0.0	0.72	0.0	0.0
23	0.27	0.09	0.03	0.16	0.0	0.0	0.0	0.05	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.25	0.0	0.0	0.0
24	0.35	0.0	0.0	0.01	0.0	0.01	0.0	0.26	0.0	0.02	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.02	0.57	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.29	0.0	0.0
26	0.0	0.12	0.64	0.0	0.0	0.0	0.27	2.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	2.07	0.0	0.0	0.0	0.0
27	0.0	0.0	0.23	0.0	0.02	0.0	0.64	1.70	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	1.70	0.0	0.0	0.25	0.0
28	0.0	0.0	0.02	0.19	0.48	0.0	0.0	0.0	0.0	0.03	0.0	0.0	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
29	0.0	0.39	0.0	0.0	1.24	0.21	0.0	0.0	0.12	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.01	0.0	0.0	0.0
30	0.45	0.0	0.0	0.0	0.12	0.0	0.01	0.0	3.93	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	3.93	0.03	0.0	0.0
31	0.18	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	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
TOTAL	3.81	5.10	3.72	2.42	3.95	2.21	3.83	7.47	5.42	7.69	1.20	1.14													
STA #Y	3.31	3.55	3.38	2.44	3.84	4.28	5.89	4.79	3.21	3.23	1.63	2.61													

NOTES: Precipitation values are Thiessen weighted averages of 10 gages. STA #Y based on 7 yr (1965-71) record period.

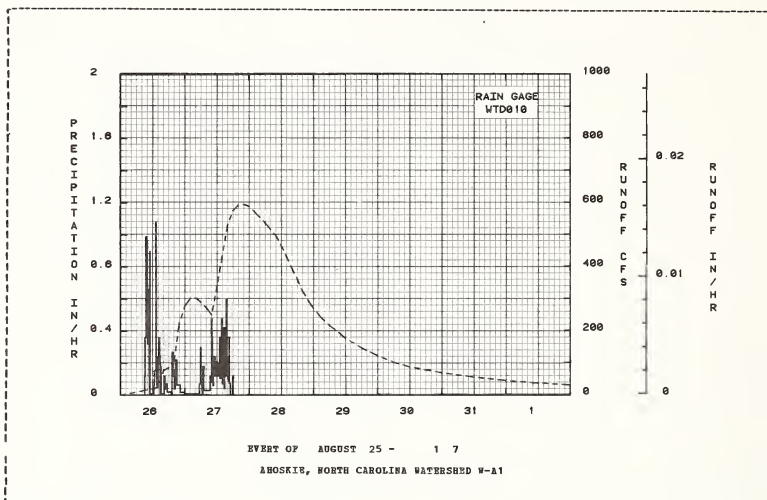
1971 SEAN DAILY DISCHARGE (cfs)												AHOKEIE, NORTH CAROLINA WATERSHED #A-1																							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec										
1	21.00	132.00	79.00	103.00	16.00	19.00	7.10	8.30	35.00	839.00	80.00	28.00	1	21.00	132.00	79.00	103.00	16.00	19.00	7.10	8.30	35.00	839.00	80.00	28.00										
2	22.00	85.00	72.00	76.00	13.00	13.00	13.00	6.90	26.00	906.00	66.00	24.00	2	22.00	85.00	72.00	76.00	13.00	13.00	13.00	6.90	26.00	906.00	66.00	24.00										
3	20.00	62.00	392.00	126.00	14.00	13.00	36.00	5.70	20.00	850.00	76.00	24.00	3	20.00	62.00	392.00	126.00	14.00	13.00	36.00	5.70	20.00	850.00	76.00	24.00										
4	18.00	127.00	786.00	114.00	13.00	11.00	13.00	5.00	17.00	589.00	101.00	23.00	4	18.00	127.00	786.00	114.00	13.00	11.00	13.00	5.00	17.00	589.00	101.00	23.00										
5	217.00	484.00	399.00	79.00	12.00	11.00	8.60	4.80	15.00	247.00	69.00	22.00	5	217.00	484.00	399.00	79.00	12.00	11.00	8.60	4.80	15.00	247.00	69.00	22.00										
6	357.00	395.00	208.00	433.00	12.00	13.00	8.30	5.00	13.00	288.00	52.00	22.00	6	357.00	395.00	208.00	433.00	12.00	13.00	8.30	5.00	13.00	288.00	52.00	22.00										
7	146.00	291.00	184.00	700.00	11.00	10.00	24.00	5.00	12.00	283.00	43.00	22.00	7	146.00	291.00	184.00	700.00	11.00	10.00	24.00	5.00	12.00	283.00	43.00	22.00										
8	93.00	787.00	104.00	348.00	12.00	17.00	4.80	14.00	130.00	36.00	22.00	8	93.00	787.00	104.00	348.00	12.00	17.00	4.80	14.00	130.00	36.00	22.00	8	93.00	787.00	104.00	348.00	12.00	17.00	4.80	14.00	130.00	36.00	22.00
9	105.00	628.00	77.00	191.00	11.00	13.00	10.00	4.50	10.00	84.00	32.00	21.00	9	105.00	628.00	77.00	191.00	11.00	13.00	10.00	4.50	10.00	84.00	32.00	21.00										
10	121.00	280.00	62.00	125.00	10.00	10.00	8.60	4.50	9.60	185.00	30.00	20.00	10	121.00	280.00	62.00	125.00	10.00	10.00	8.60	4.50	9.60	185.00	30.00	20.00										
11	128.00	175.00	55.00	86.00	9.60	9.30	7.60	4.30	9.30	384.00	28.00	19.00	11	128.00	175.00	55.00	86.00	9.60	9.30	7.60	4.30	9.30	384.00	28.00	19.00										
12	101.00	133.00	89.00	63.00	9.30	8.30	10.00	4.30	38.00	200.00	26.00	18.00	12	101.00	133.00	89.00	63.00	9.30	8.30	10.00	4.30	38.00	200.00	26.00	18.00										
13	70.00	541.00	85.00	50.00	18.00	9.30	9.00	4.10	65.00	119.00	24.00	20.00	13	70.00	541.00	85.00	50.00	18.00	9.30	9.00	4.10	65.00	119.00	24.00	20.00										
14	64.00	702.00	43.00	41.00	18.00	8.30	7.60	4.10	34.00	78.00	22.00	24.00	14	64.00	702.00	43.00	41.00	18.00	8.30	7.60	4.10	34.00	78.00	22.00	24.00										
15	71.00	319.00	41.00	35.00	13.00	17.00	7.10	4.10	22.00	57.00	21.00	22.00	15	71.00	319.00	41.00	35.00	13.00	17.00	7.10	4.10	22.00	57.00	21.00	22.00										
16	113.00	192.00	89.00	31.00	27.00	15.00	6.90	4.10	17.00	43.00	20.00	21.00	16	113.00	192.00	89.00	31.00	27.00	15.00	6.90	4.10	17.00	43.00	20.00	21.00										
17	85.00	135.00	72.00	27.00	22.00	11.00	6.40	4.10	14.00	36.00	19.00	22.00	17	85.00	135.00	72.00	27.00	22.00	11.00	6.40	4.10	14.00	36.00	19.00	22.00										
18	68.00	104.00	57.00	24.00	16.00	10.00	6																												

1971 SELECTED RUNOFF EVENT				AUGUST, NORTH CAROLINA WATERSHED W-11						
PRECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 25 - 1 7										
RG STD010										
8-26	0.0		8-26	900	0.0	0.0	8-25	2400	0.0	0.0
8-25	0.0	0.0		910	0.1200	0.02	8-26	1000	18.000	0.0024
				925	0.3600	0.11		1200	20.000	0.0034
				945	0.9900	0.44		1800	26.000	0.0047
				1000	0.3600	0.53		1600	77.000	0.0075
WATERSHED CONDITIONS: Approximate land use 65% in woodland, 30% in row crops, 2% in pasture, 3% misc. [roads, homesites, and urban areas].										
				1005	0.9600	0.61		1800	87.000	0.0120
				1020	0.3200	0.69		2000	109.000	0.0173
				1030	0.6600	0.80		2200	227.000	0.0264
				1040	0.1200	0.82		2400	279.000	0.0402
				1045	0.3600	0.85	8-27	200	303.000	0.0560
				1050	0.0	0.85		400	308.000	0.0725
				1055	0.3600	0.88		600	289.000	0.0886
				1105	0.9000	1.03		800	272.000	0.1039
				1225	0.0075	1.04		1000	250.000	0.1181
				1235	0.0600	1.05		1200	340.000	0.1341
				1310	0.1543	1.14		1800	437.000	0.1552
				1315	1.0800	1.23		1600	533.000	0.1816
				1330	0.0800	1.25		1800	575.000	0.2117
				1350	0.0600	1.27		2000	593.000	0.2435
				1355	0.2400	1.29		2200	594.000	0.2758
				1405	0.0600	1.30		2400	588.000	0.3079
				1420	0.2000	1.35	8-28	200	571.000	0.3394
				1435	0.1600	1.44		400	558.000	0.3700
				1445	0.2400	1.48		600	536.000	0.3996
				1455	0.0	1.48		800	516.000	0.4282
				1505	0.1800	1.51		1000	496.000	0.4557
				1620	0.0080	1.52		1200	465.000	0.4818
				1630	0.1200	1.54		1400	430.000	0.5061
				1700	0.0400	1.56		1600	393.000	0.5285
				1725	0.0720	1.59		1800	360.000	0.5490
				1900	0.0189	1.62		2000	322.000	0.5675
				1910	0.0	1.62		2200	294.000	0.5842
				1930	0.2700	1.71		2400	276.000	0.5995
				1940	0.1200	1.73	8-29	200	249.000	0.6136
				1955	0.1600	1.77		400	231.000	0.6266
				2005	0.1200	1.79		600	216.000	0.6388
				2020	0.0400	1.80		800	203.000	0.6502
				2030	0.1200	1.82		1000	190.000	0.6609
				2100	0.2200	1.93		1200	176.000	0.6708
				2215	0.0640	2.01		1800	146.000	0.6971
			8-27	2400	0.0171	2.04		2400	121.000	0.7189
				525	0.0074	2.08	8-30	600	101.000	0.7370
				550	0.0720	2.11		1200	86.000	0.7523
				600	0.3000	2.16		1800	77.000	0.7656
				630	0.0800	2.20		2400	68.000	0.7774
				645	0.0	2.20	8-31	1200	54.000	0.7973
				705	0.1800	2.26		2400	43.000	0.8131
				925	0.0300	2.33	9- 1	1200	35.000	0.8258
				940	0.1200	2.36		2400	29.000	0.8362
				955	0.0800	2.38				
				1005	0.4800	2.46				
				1020	0.3600	2.55				
				1030	0.1800	2.58				
				1040	0.0600	2.59				
				1045	0.2400	2.61				
				1100	0.1600	2.65				
				1115	0.2400	2.71				
				1145	0.1200	2.77				
				1205	0.2100	2.84				
				1225	0.1200	2.88				
				1240	0.2000	2.93				
				1255	0.1200	2.96				
				1305	0.3600	3.02				
				1340	0.1020	3.08				
				1400	0.4800	3.28				
				1425	0.0720	3.27				
				1435	0.4200	3.34				
				1450	0.0400	3.35				
				1500	0.4200	3.42				
				1530	0.1200	3.48				

NOTES: To convert CFS to IAF/HR, multiply by 0.0002719. Precipitation is Thiessen average of 10 rain gages.

1971 SELECTED SUBOFF EVENT			BOSKIE, NORTH CAROLINA WATERSHED W-A1							
ANTECEDENT CONDITIONS			RAINFALL				SUBOFF			
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			AUGUST 25 - 1 7							
H-27			1535		0.6000	3.53				
			1600		0.1200	3.58				
			1610		0.2400	3.62				
			1630		0.0900	3.65				
			1635		0.3600	3.68				
			1700		0.0720	3.71				
			1750		0.0	3.71				
			1805		0.1200	3.74				

NOTES: To convert CFS to IN/HR, multiply by 0.00002719. Precipitation is Thiessen average of 10 rain gages.



ABOSKIE, NORTH CAROLINA WATERSHED W-A2

LOCATION: Hertford, Bertie, and Northampton Counties, North Carolina; approximately 5 miles northwest of Anlander; Chowan River Basin.

AREA: 15360.00 acres 24.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (Inches)												ABOSKIE, NORTH CAROLINA WATERSHED W-A2																
	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	
1971	P	3.89	4.85	3.47	2.48	3.66	1.82	3.77	6.73	4.75	7.68	1.16	1.14	45.36														
	Q	2.228	4.526	2.180	1.687	2.522	0.162	0.177	0.756	0.230	4.479	0.546	0.479	17.702														
STA AV	P	3.30	3.38	3.26	2.39	3.77	4.28	5.52	4.57	3.06	3.25	1.62	2.56	40.97														
	Q	1.680	2.577	2.266	1.177	0.813	0.831	1.011	0.951	0.225	1.098	0.248	0.758	13.636														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Discharge Date	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval											
					6 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.				
1971	10-24	0.050	10-24	0.050	10-24	0.100	10-23	0.290	10-23	0.550	10-23	0.970	10-23	1.850	9-30	1.920

MAXIMUMS FOR PERIOD OF RECORD												
Discharge Date	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1964	10- 5	0.080	10- 5	0.080	10- 5	0.170	10- 5	0.500	10- 5	0.970	10- 4	2.370
	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 compiled on 1965-71 data. Precipitation Thiessen weighted using 5 gages. For temperature information, see table of maxima and minima values included with data for Watershed 75.001. For long-time precipitation records, see National Weather Service records at Scotland Neck, North Carolina.

1971 DAILY PRECIPITATION (inches)												ABOSKIE, NORTH CAROLINA WATERSHED W-A2														
Day	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	0.03	0.0	0.0	0.0	0.0	0.04	0.03	0.03	0.0	1.61	0.0	0.0														
2	0.0	0.0	0.51	0.38	0.10	0.0	0.83	0.03	0.0	0.65	0.05	0.0														
3	0.0	0.04	1.06	0.15	0.14	0.0	0.0	0.0	0.0	0.0	0.30	0.04														
4	0.04	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.10														
5	1.58	0.37	0.0	0.0	0.0	0.35	0.0	0.39	0.0	0.11	0.0	0.0														
6	0.0	0.0	0.0	1.49	0.0	0.0	1.08	0.0	0.0	0.59	0.0	0.0														
7	0.0	1.04	0.0	0.09	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05														
8	0.0	0.35	0.0	0.0	0.10	0.21	0.0	0.0	0.0	0.0	0.0	0.0														
9	0.27	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.09	0.0	0.01														
10	0.34	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.97	0.0	0.0														
11	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.10	0.0	0.0	0.0														
12	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.95	0.0	0.0	0.13														
13	0.0	1.19	0.0	0.0	0.69	0.05	0.0	0.05	0.0	0.0	0.0	0.10														
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	0.33	0.0	0.53	0.0	0.35	0.18	0.0	0.0	0.0	0.0	0.0	0.05														
16	0.0	0.0	0.0	0.0	0.38	0.08	0.06	0.17	0.0	0.0	0.0	0.0														
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.14														
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0														
19	0.0	0.0	0.17	0.0	0.0	0.0	0.24	0.02	0.0	0.10	0.0	0.0														
20	0.0	0.02	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.11	0.0	0.52														
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0														
22	0.14	0.97	0.0	0.0	0.0	0.23	0.0	1.35	0.0	0.76	0.0	0.0														
23	0.27	0.15	0.06	0.14	0.0	0.0	0.0	0.06	0.0	2.12	0.0	0.0														
24	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.57	0.0														
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0														
26	0.0	0.09	0.41	0.0	0.0	0.0	0.23	2.39	0.0	0.0	0.0	0.0														
27	0.0	0.0	0.41	0.0	0.04	0.0	0.74	1.49	0.0	0.0	0.23	0.0														
28	0.0	0.0	0.0	0.19	0.44	0.0	0.0	0.0	0.0	0.01	0.0	0.0														
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.01	0.0														
30	0.35	0.0	0.0	0.0	0.11	0.0	0.0	0.0	3.65	0.08	0.0	0.0														
31	0.19	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL	3.89	4.85	3.47	2.48	3.66	1.82	3.77	6.73	4.75	7.68	1.16	1.14														
STA AV	3.30	3.38	3.26	2.39	3.77	4.28	5.52	4.57	3.06	3.25	1.62	2.56														

NOTES: Precipitation values are Thiessen weighted averages of 5 gages. STA AV based on 7 yr (1965-71) record period.

1971 MEAN DAILY DISCHARGE (cfs)						AHSOSKIE, NORTH CAROLINA WATERSHED #42						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	14.00	52.00	30.00	35.00	4.20	5.90	2.80	1.40	9.80	350.00	25.00	10.00
2	12.00	32.00	32.00	26.00	4.50	4.50	2.70	2.00	6.60	286.00	21.00	8.20
3	10.00	22.00	205.00	56.00	5.10	3.50	16.00	1.70	4.20	182.00	27.00	7.50
4	10.00	88.00	270.00	48.00	5.10	3.70	2.20	1.30	3.20	82.00	30.00	8.00
5	215.00	205.00	102.00	29.00	4.70	10.00	1.80	1.50	2.70	50.00	21.00	8.30
6	159.00	139.00	66.00	279.00	3.20	3.30	5.40	2.20	2.50	91.00	16.00	8.60
7	73.00	151.00	52.00	209.00	3.70	2.50	32.00	1.50	2.40	71.00	14.00	10.00
8	52.00	431.00	38.00	102.00	3.70	6.30	3.50	0.91	2.20	36.00	12.00	9.20
9	64.00	201.00	28.00	64.00	3.80	4.20	2.30	0.62	2.00	20.00	10.00	8.00
10	64.00	92.00	21.00	45.00	2.80	1.40	2.00	0.51	1.70	65.00	5.20	7.40
11	67.00	64.00	19.00	31.00	2.50	1.30	1.80	0.43	1.50	100.00	9.30	6.60
12	53.00	52.00	15.00	22.00	1.30	1.50	3.30	0.47	6.90	5.00	7.50	6.40
13	42.00	272.00	12.00	17.00	8.00	2.20	2.00	0.51	15.00	34.00	6.90	9.50
14	34.00	187.00	9.20	15.00	4.00	2.00	1.80	0.51	6.60	23.00	6.30	8.00
15	45.00	92.00	16.00	12.00	2.30	2.00	1.50	0.55	2.70	18.00	5.90	7.80
16	52.00	64.00	40.00	10.00	10.00	2.20	1.10	0.55	1.50	14.00	6.30	8.00
17	40.00	49.00	27.00	8.80	6.30	2.20	1.00	4.90	1.10	12.00	6.30	8.60
18	32.00	40.00	17.00	8.00	3.00	2.00	0.82	2.90	1.00	11.00	5.90	9.50
19	24.00	32.00	14.00	7.60	2.30	1.90	0.66	2.70	0.83	9.50	6.30	7.80
20	16.00	26.00	20.00	11.00	2.30	2.00	0.63	1.20	0.74	9.80	7.50	19.00
21	13.00	26.00	16.00	6.80	2.80	2.30	1.00	0.62	0.66	10.00	7.20	27.00
22	13.00	54.00	13.00	6.30	2.80	3.50	1.20	1.30	0.66	11.00	6.30	20.00
23	33.00	253.00	11.00	6.30	2.80	8.90	1.20	27.00	0.66	429.00	5.20	15.00
24	42.00	96.00	9.60	6.80	3.70	4.20	1.70	8.00	0.66	468.00	7.50	13.00
25	60.00	63.00	8.80	5.90	4.20	3.70	2.00	1.80	0.66	196.00	14.00	11.00
26	47.00	48.00	15.00	5.50	3.70	3.30	2.00	69.00	0.66	85.00	10.00	9.80
27	33.00	48.00	32.00	5.10	4.50	3.50	2.40	134.00	0.66	53.00	11.00	8.30
28	22.00	40.00	60.00	7.20	3.00	12.00	124.00	0.66	41.00	15.00	7.80	10.00
29	16.00	76.00	7.00	4.70	24.00	3.00	2.70	52.00	0.66	32.00	13.00	6.90
30	17.00	80.00	4.20	14.00	5.50	1.30	26.00	67.00	28.00	12.00	6.90	6.60
31	62.00	52.00		9.60			1.60	16.00		28.00		
MEAN	46.39	104.32	45.37	36.28	5.24	3.49	3.69	15.74	4.94	93.24	11.75	9.98
INCHES	2.228	4.526	2.180	1.687	0.252	0.162	0.177	0.756	0.230	4.479	0.546	0.479
STA AV	1.680	2.577	2.266	1.177	0.813	0.831	1.011	0.951	0.225	1.098	0.248	0.758

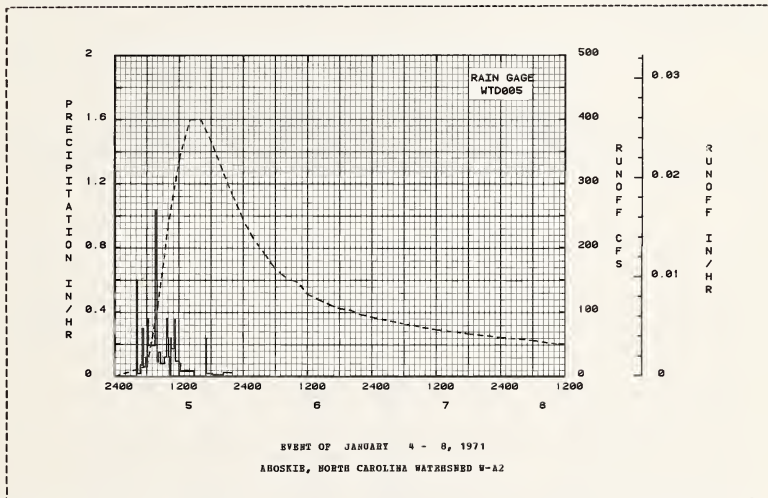
NOTES: To convert mean daily discharge in CFS to M^3/DAY , multiply by 0.0015496. Runoff data furnished by U.S. Geological Survey. Records are good. STA AV based on 7 yr (1965-71) record period.

1971 SELECTED RUNOFF EVENT						AHSOSKIE, NORTH CAROLINA WATERSHED #42					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(acc.)	
EVENT OF JANUARY 4 - 8, 1971											
1-5	0.0		1-5	255	0.0	0.0	1-4	2400	0.0	0.0	
1-4	0.0	0.0		405	0.0	0.0	1-5	600	15,800	0.0031	
				410	0.000	0.05		800	105,000	0.0112	
				445	0.0171	0.06		1000	238,000	0.0336	
				510	0.0720	0.09		1200	340,000	0.0709	
WATERSHED CONDITIONS:			520	0.3000	0.14	1400	400,000	0.1187			
Approximate land use 75% in woodland; 25% in row crops;			540	0.0600	0.16	1600	400,000	0.1704			
25% in pasture; 1% misc. (roads and homesites).			585	0.1200	0.17	1800	365,000	0.2198			
			555	0.0600	0.18	2000	322,000	0.2642			
			605	0.0600	0.19	2200	281,198	0.3031			
			615	0.3600	0.25	2400	242,500	0.3369			
			730	0.1920	0.49	1-6	200	212,200	0.3663		
			745	1.0400	0.75	400	190,000	0.3923			
			750	0.6000	0.80	600	165,500	0.4153			
			810	0.0900	0.83	800	152,900	0.4359			
			830	0.1500	0.88	1000	146,600	0.4552			
			915	0.0800	0.94	1200	127,700	0.4728			
			930	0.1200	0.97	1400	119,200	0.4888			
			940	0.1200	0.99	1600	111,400	0.5037			
			945	0.3600	1.02	1800	104,800	0.5177			
			1000	0.2400	1.08	2000	102,500	0.5311			
			1015	0.1200	1.11	2200	95,500	0.5439			
			1025	0.0	1.11	2400	91,500	0.5560			
			1030	0.2400	1.13	1-7	600	81,000	0.5894		
			1105	0.1714	1.23	1200	72,000	0.6190			
			1115	0.3600	1.29	1800	65,600	0.6457			
			1200	0.0933	1.36	2400	60,000	0.6700			
			1215	0.0800	1.38	600	55,600	0.6924			
			1445	0.0320	1.46	1200	47,200	0.7123			
			1700	0.0	1.46	2000	47,600	0.7368			

NOTES: To convert CFS to M^3/HR , multiply by 0.0006457. Precipitation is Thiessen average of 5 rain gauges.

1971 SELECTED RUNOFF EVENT			AOSKIE, NORTH CAROLINA WATERSHED W-A2							
ATTACHED CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JANUARY 4 - 8, 1971 (CONTINUED)										
1-5	1705	0.2900		1705	0.2900	1.48				
				1815	0.0171	1.50				
				2015	0.0100	1.52				
				2200	0.0229	1.56				

NOTES: To convert CFS to IN/HR, multiply by 0.00006457. Precipitation is Thiessen average of 5 rain gages.



ABOSKIE, NORTH CAROLINA WATERSHED W-3

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)												ABOSKIE, NORTH CAROLINA 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	
P	3.81	4.58	3.45	2.58	3.88	1.69	4.28	7.71	8.63	8.11	1.17	1.03	46.48															
1971	0	1.329	4.248	1.824	1.484	0.031	0.010	0.010	0.120	0.032	2.555	0.281	0.185	12.108														
STA AV	P	3.38	3.43	3.19	2.49	3.82	4.31	5.39	4.85	3.10	3.41	1.65	2.65	41.68														
	0	1.133	2.105	1.743	1.031	0.682	0.377	0.793	0.637	0.161	0.624	0.066	0.530	9.881														

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

1971	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.
	2-7	0.050	2-7	0.050	2-7	0.100	2-7	0.260	2-7	0.420	2-7	0.660	2-7	1.000	2-7	1.720
	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, 68%; row crops, 10%; homesites, pastures, and roads, 2%. 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 1965-71 data. Precipitation Thiessen weighted using 2 gages. For temperature information, see table of maxima and minima values included with data for Watershed 75.001. For long-time precipitation records, see National Weather Service records at Scotland Neck, North Carolina.

1971	DAILY PRECIPITATION (inches)						ABOSKIE, NORTH CAROLINA WATERSHED W-3																			
	Day	Jan	Feb	Mar	Apr	May	Jan	Aug	Sep	Oct	Nov	Dec		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	0.04	0.0	0.0	0.0	1.67	0.0	0.0													
2	0.0	0.0	0.85	0.44	0.08	0.0	0.58	0.0	0.0	0.73	0.04	0.0	0.0													
3	0.0	0.08	0.74	0.13	0.08	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0													
4	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0													
5	1.78	0.32	0.0	0.0	0.0	0.0	0.63	0.0	0.72	0.0	0.03	0.0	0.0													
6	0.0	0.0	0.0	1.54	0.0	0.0	1.52	0.0	0.0	0.63	0.0	0.0	0.0													
7	0.0	1.28	0.0	0.04	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0													
8	0.0	0.21	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
9	0.33	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.07	0.0	0.0	0.0													
10	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0													
11	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.12	0.0	0.0	0.0	0.0													
12	0.0	0.0	0.0	0.0	0.0	0.14	0.02	0.0	1.04	0.0	0.0	0.0	0.13													
13	0.0	1.01	0.0	0.0	0.92	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.10													
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	0.25	0.0	0.55	0.0	0.27	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.03													
16	0.0	0.0	0.0	0.0	0.40	0.0	0.13	0.42	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	0.12	0.0	0.0	0.0	0.0	0.17													
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0													
19	0.0	0.11	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.09	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	0.10	0.0	0.0	0.44													
21	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													
22	0.12	0.82	0.0	0.0	0.0	0.30	0.0	1.86	0.0	0.71	0.0	0.0	0.0													
23	0.21	0.03	0.09	0.16	0.0	0.0	0.0	0.04	0.0	2.32	0.0	0.0	0.0													
24	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.50	0.0	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0													
26	0.0	0.10	0.56	0.0	0.0	0.0	0.22	2.68	0.0	0.0	0.0	0.0	0.0													
27	0.0	0.0	0.28	0.0	0.04	0.0	0.95	1.29	0.0	0.0	0.30	0.0	0.0													
28	0.0	0.0	0.0	0.23	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29	0.0	0.27	0.0	0.0	0.99	0.38	0.0	0.0	0.0	0.19	0.03	0.0	0.0													
30	0.36	0.0	0.0	0.0	0.16	0.0	0.0	0.0	3.47	0.08	0.0	0.0	0.0													
31	0.17	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	3.81	4.58	3.45	2.58	3.88	1.69	4.28	7.71	8.63	8.11	1.17	1.03	46.48													
STA AV	3.38	3.43	3.19	2.49	3.82	4.31	5.39	4.85	3.10	3.41	1.65	2.65	41.68													

NOTES: Precipitation values are Thiessen weighted averages of 2 gages. STA AV based on 7 yr (1965-71) record period.

1971		MEAN DAILY DISCHARGE (cfs)				AOSKIE, NORTH CAROLINA WATERSHED N-13						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.120	4.800	4.600	3.900	0.070	0.060	0.020	0.060	0.050	20.000	3.900	0.300
2	0.080	2.800	3.900	3.000	0.060	0.030	0.040	0.020	0.020	20.000	2.900	0.220
3	0.080	2.200	21.000	6.800	0.080	0.020	0.050	0.020	0.020	15.000	3.300	0.200
4	0.090	8.600	32.000	5.200	0.060	0.020	0.020	0.020	0.020	8.000	3.100	0.220
5	12.600	25.000	18.000	3.300	0.050	0.070	0.020	0.080	0.020	4.000	2.100	0.240
6	11.000	22.000	13.000	35.000	0.040	0.020	0.070	0.040	0.020	9.900	1.300	0.240
7	7.200	32.000	9.900	31.000	0.040	0.020	0.130	0.020	0.020	8.600	0.920	0.240
8	5.700	56.000	6.300	20.000	0.040	0.040	0.020	0.020	0.020	3.800	0.700	0.270
9	6.500	30.000	4.600	13.000	0.040	0.030	0.020	0.020	0.020	1.300	0.610	0.240
10	7.200	18.000	3.300	8.200	0.030	0.030	0.020	0.020	0.020	7.000	0.530	0.220
11	8.200	13.000	3.000	5.200	0.040	0.030	0.020	0.020	0.020	12.000	0.510	0.200
12	6.300	10.000	2.400	3.500	0.040	0.040	0.020	0.020	0.080	7.000	0.480	0.200
13	5.000	30.000	2.200	2.400	0.270	0.020	0.020	0.020	0.110	3.700	0.460	0.340
14	4.000	25.000	1.800	1.800	0.160	0.040	0.020	0.020	0.040	1.700	0.420	0.300
15	4.800	16.000	2.300	1.200	0.090	0.040	0.020	0.020	0.020	0.680	0.410	0.300
16	5.400	12.000	5.200	0.910	0.630	0.040	0.020	0.020	0.020	0.400	0.410	0.300
17	4.200	8.200	3.500	0.700	0.380	0.040	0.020	0.050	0.020	0.310	0.400	0.340
18	3.300	5.800	2.200	0.430	0.160	0.040	0.020	0.040	0.020	0.250	0.390	0.380
19	2.600	4.600	1.900	0.380	0.090	0.040	0.020	0.050	0.020	0.210	0.380	0.270
20	1.800	3.500	2.200	0.270	0.070	0.040	0.020	0.020	0.020	0.210	0.380	1.140
21	1.400	2.900	1.600	0.220	0.060	0.030	0.020	0.020	0.020	0.220	0.390	2.600
22	1.500	10.000	1.300	0.180	0.050	0.030	0.020	0.110	0.020	0.210	0.390	1.800
23	3.500	33.000	1.100	0.160	0.050	0.050	0.020	0.280	0.020	43.000	0.400	1.400
24	4.200	17.000	0.780	0.200	0.030	0.020	0.020	0.060	0.020	26.000	0.410	1.100
25	6.100	10.000	0.560	0.150	0.030	0.020	0.020	0.030	0.020	17.000	0.450	1.000
26	5.000	7.000	0.630	0.120	0.030	0.020	0.020	2.500	0.020	12.000	0.420	0.910
27	3.200	7.400	2.100	0.090	0.030	0.020	0.040	5.500	0.020	9.000	0.480	0.780
28	2.200	5.800	5.900	0.120	0.040	0.020	0.090	2.400	0.020	7.000	0.500	0.700
29	1.800		8.200	0.120	0.100	0.020	0.030	0.280	0.030	5.600	0.490	0.630
30	2.100		10.000	0.090	0.100	0.020	0.020	0.100	2.400	5.000	0.450	0.560
31	5.700		6.100		0.070		0.020	0.070		5.100		0.930
MEAN	4.267	15.093	5.854	4.920	0.098	0.032	0.031	0.385	0.107	8.200	0.931	0.593
INCREES	1.329	4.248	1.824	1.484	0.031	0.010	0.010	0.120	0.032	2.555	0.281	0.185
STA AV	1.133	2.105	1.743	1.031	0.682	0.377	0.793	0.637	0.161	0.624	0.066	0.530

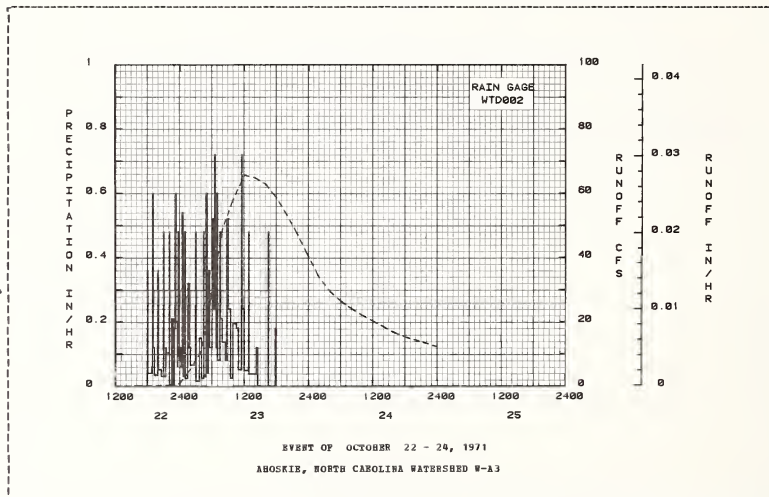
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.010514. Runoff data furnished by O.S. Geological Survey. Records are good to fair. STA AV based on 7 yr (1965-71) record period.

1971		SELECTED RUNOFF EVENT										AOSKIE, NORTH CAROLINA WATERSHED N-13			
ANTECEDENT CONDITIONS		RUNOFF		RAINFALL		RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.					
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)					
EVENT OF OCTOBER 22 - 24, 1971															
RG WTD002															
10-22	0.0	0.0	10-22	1755	0.0	0.0	10-22	1200	0.0	0.0					
				1800	0.3600	0.03		1600	0.200	0.0002					
				1845	0.0400	0.06		2200	0.300	0.0008					
				1855	0.0600	0.07		2400	0.900	0.0013					
				1900	0.5999	0.12	10-23	2000	5.300	0.0039					
WATERSHED CONDITIONS:															
Approximate land use, 88% in woodlands; 10% in row crops; 2% misc. (homesites, pasture, and roads).															
			1915	0.1200	0.15			400	11.000	0.0107					
			1950	0.0843	0.17			600	30.100	0.0279					
			2000	0.3600	0.23			800	49.000	0.0610					
			2035	0.0514	0.26			1000	58.400	0.1060					
			2055	0.0300	0.27			1200	65.600	0.1579					
			2100	0.4799	0.31			1400	64.800	0.2125					
			2120	0.0300	0.32			1600	62.800	0.2659					
			2125	0.1200	0.33			1800	58.600	0.3167					
			2200	0.1029	0.39			2000	53.100	0.3635					
			2205	0.4800	0.43			2200	46.900	0.4054					
			2225	0.0	0.43			2400	40.200	0.4419					
			2245	0.2100	0.50	10-24	200	33.700	0.4728						
			2300	0.0	0.50			400	29.400	0.4992					
			2310	0.1800	0.53			600	26.500	0.5226					
			2315	0.5999	0.58			800	24.100	0.5438					
			2330	0.2000	0.63			1000	22.000	0.5631					
			2340	0.0600	0.64			1200	20.200	0.5808					
			2345	0.4799	0.68			1400	18.500	0.5970					
			2400	0.0800	0.70			1600	16.600	0.6117					
			10-23	15	0.1200	0.73		1800	15.300	0.6251					
			25	0.0600	0.74			2400	12.200	0.6597					
			35	0.5400	0.83										
			55	0.0300	0.84										
			100	0.8000	0.88										
			125	0.0240	0.89										
			130	0.2400	0.91										
			145	0.3200	0.99										
			200	0.1200	1.02										
			255	0.0655	1.08										
			300	0.4800	1.12										

NOTES: To convert CFS to LB/HR, multiply by 0.00041661. Precipitation is Thiessen average of 2 rain gauges.

1971 SELECTED SUBOFF EVENT			ABOSKIE, NORTH CAROLINA WATERSHED W-A3								
PRECIPITATION CONDITIONS			RAINFALL						SUBOFF		
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 22 - 24, 1971 (CONTINUED)											
			10-23	380	0.0150	1.13					
				400	0.1500	1.18					
				425	0.0240	1.19					
				430	0.4800	1.23					
				450	0.0300	1.24					
				505	0.6000	1.39					
				520	0.0400	1.40					
				535	0.3600	1.49					
				600	0.1200	1.54					
				615	0.5200	1.67					
				630	0.2400	1.73					
				635	0.7200	1.79					
				685	0.2400	1.83					
				655	0.1200	1.85					
				700	0.6000	1.90					
				730	0.0800	1.94					
				735	0.4800	1.98					
				755	0.2100	2.05					
				830	0.1371	2.13					
				845	0.0800	2.15					
				900	0.5200	2.28					
				930	0.2400	2.40					
				955	0.0240	2.41					
				1035	0.1950	2.54					
				1055	0.1800	2.60					
				1130	0.0514	2.63					
				1135	0.7200	2.69					
				1200	0.2400	2.79					
				1250	0.0480	2.83					
				1255	0.4800	2.87					
				1415	0.0375	2.92					
				1430	0.1200	2.95					
				1630	0.0	2.95					
				1635	0.4800	2.99					
				1750	0.0	2.99					
				1800	0.1800	3.02					

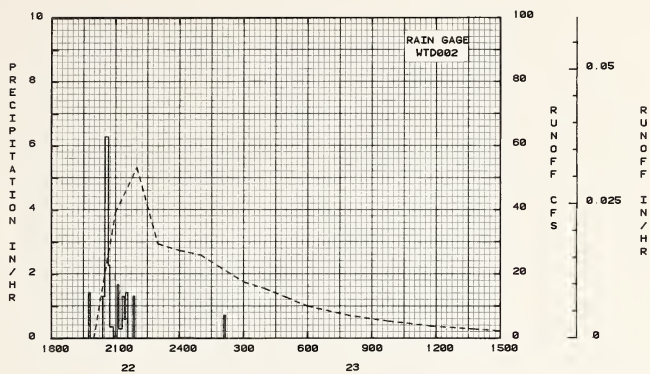
NOTES: To convert CFS to IS/EE, multiply by 0.00041881. Precipitation is Thiessen average of 2 rain gages.



1971 MEAN DAILY DISCHARGE (cfs)												AROSKIE, NORTH CAROLINA WATERSHED #48													
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	0.180	3.000	1.600	1.900	0.280	0.390	0.130	0.340	0.340	70.000	1.900	0.500	1	0.180	3.000	1.600	1.900	0.280	0.390	0.130	0.340	0.340	70.000	1.900	0.500
2	0.160	1.400	1.900	1.400	0.280	0.310	1.200	0.240	0.210	41.000	1.400	0.430	2	0.160	1.400	1.900	1.400	0.280	0.310	1.200	0.240	0.210	41.000	1.400	0.430
3	0.160	1.000	29.000	4.900	0.280	0.280	0.570	0.180	0.280	11.000	3.400	0.430	3	0.160	1.000	29.000	4.900	0.280	0.280	0.570	0.180	0.280	11.000	3.400	0.430
4	0.160	8.000	19.000	2.400	0.240	0.240	0.240	0.180	0.240	5.000	2.400	0.430	4	0.160	8.000	19.000	2.400	0.240	0.240	0.240	0.180	0.240	5.000	2.400	0.430
5	3.000	16.000	5.600	1.600	0.240	0.280	0.210	0.180	0.240	2.800	1.200	0.430	5	3.000	16.000	5.600	1.600	0.240	0.280	0.210	0.180	0.240	2.800	1.200	0.430
6	3.000	7.000	3.200	18.000	0.210	0.210	0.450	0.180	0.210	8.000	1.000	0.430	6	3.000	7.000	3.200	18.000	0.210	0.210	0.450	0.180	0.210	8.000	1.000	0.430
7	1.300	18.000	2.700	11.000	0.210	0.210	0.570	0.180	0.210	3.600	0.780	0.500	7	1.300	18.000	2.700	11.000	0.210	0.210	0.570	0.180	0.210	3.600	0.780	0.500
8	0.880	18.000	1.800	5.100	0.240	0.280	0.280	0.180	0.180	1.600	0.560	0.500	8	0.880	18.000	1.800	5.100	0.240	0.280	0.280	0.180	0.180	1.600	0.560	0.500
9	1.700	5.500	1.300	3.000	0.210	0.240	0.180	0.160	0.160	1.000	0.500	0.500	9	1.700	5.500	1.300	3.000	0.210	0.240	0.180	0.160	0.160	1.000	0.500	0.500
10	2.100	3.500	1.100	1.900	0.210	0.240	0.180	0.180	0.130	16.000	0.430	0.500	10	2.100	3.500	1.100	1.900	0.210	0.240	0.180	0.180	0.130	16.000	0.430	0.500
11	1.800	2.400	1.100	1.200	0.180	0.240	0.180	0.180	0.130	10.000	0.300	0.430	11	1.800	2.400	1.100	1.200	0.180	0.240	0.180	0.180	0.130	10.000	0.300	0.430
12	1.200	1.900	0.950	1.000	0.180	0.240	0.240	0.180	2.100	3.100	0.380	0.430	12	1.200	1.900	0.950	1.000	0.180	0.240	0.240	0.180	2.100	3.100	0.380	0.430
13	0.820	37.000	0.880	0.880	1.200	0.240	0.180	0.180	0.850	1.500	0.330	0.880	13	0.820	37.000	0.880	0.880	1.200	0.240	0.180	0.180	0.850	1.500	0.330	0.880
14	0.690	11.000	0.760	0.640	0.820	0.240	0.180	0.180	0.370	1.000	0.330	0.630	14	0.690	11.000	0.760	0.640	0.820	0.240	0.180	0.180	0.370	1.000	0.330	0.630
15	1.600	4.500	1.500	0.580	0.480	1.100	0.210	0.180	0.240	0.780	0.330	0.560	15	1.600	4.500	1.500	0.580	0.480	1.100	0.210	0.180	0.240	0.780	0.330	0.560
16	2.000	3.000	2.700	0.530	3.100	0.530	0.240	0.180	0.210	0.650	0.330	0.500	16	2.000	3.000	2.700	0.530	3.100	0.530	0.240	0.180	0.210	0.650	0.330	0.500
17	1.300	2.100	1.400	0.530	3.100	0.310	0.210	0.180	0.210	0.650	0.290	0.500	17	1.300	2.100	1.400	0.530	3.100	0.310	0.210	0.180	0.210	0.650	0.290	0.500
18	1.000	1.600	1.000	0.480	0.530	0.240	0.210	0.570	0.210	0.610	0.290	0.630	18	1.000	1.600	1.000	0.480	0.530	0.240	0.210	0.570	0.210	0.610	0.290	0.630
19	0.820	1.400	1.100	0.480	0.350	0.180	0.240	0.210	0.210	0.610	0.250	0.500	19	0.820	1.400	1.100	0.480	0.350	0.180	0.240	0.210	0.210	0.610	0.250	0.500
20	0.640	1.200	1.400	0.480	0.280	0.180	0.210	0.160	0.210	0.780	0.330	1.000	20	0.640	1.200	1.400	0.480	0.280	0.180	0.210	0.160	0.210	0.780	0.330	1.000
21	0.580	1.200	1.000	0.480	0.240	0.180	0.160	0.160	0.210	0.710	0.290	2.300	21	0.580	1.200	1.000	0.480	0.240	0.180	0.160	0.160	0.210	0.710	0.290	2.300
22	0.580	5.700	0.820	0.480	0.240	0.310	0.210	5.100	0.210	1.300	0.250	1.200	22	0.580	5.700	0.820	0.480	0.240	0.310	0.210	5.100	0.210	1.300	0.250	1.200
23	1.100	19.000	0.690	0.480	0.210	0.880	0.160	4.600	0.210	83.000	0.250	0.880	23	1.100	19.000	0.690	0.480	0.210	0.880	0.160	4.600	0.210	83.000	0.250	0.880
24	1.400	4.900	0.640	0.390	0.210	0.310	0.130	1.100	0.210	19.000	0.560	0.630	24	1.400	4.900	0.640	0.390	0.210	0.310	0.130	1.100	0.210	19.000	0.560	0.630
25	2.800	2.800	0.580	0.350	0.210	0.180	0.160	0.410	0.210	10.000	0.560	0.630	25	2.800	2.800	0.580	0.350	0.210	0.180	0.160	0.410	0.210	10.000	0.560	0.630
26	1.900	2.000	0.920	0.350	0.210	0.160	0.160	11.000	0.210	8.200	0.330	0.560	26	1.900	2.000	0.920	0.350	0.210	0.160	0.160	11.000	0.210	8.200	0.330	0.560
27	1.200	3.400	4.800	0.310	0.210	0.110	0.610	51.000	0.210	3.500	0.770	0.500	27	1.200	3.400	4.800	0.310	0.210	0.110	0.610	51.000	0.210	3.500	0.770	0.500
28	0.820	2.300	6.400	0.390	0.240	0.110	1.600	10.000	0.210	2.500	0.950	0.500	28	0.820	2.300	6.400	0.390	0.240	0.110	1.600	10.000	0.210	2.500	0.950	0.500
29	0.690		8.600	0.350	1.500	0.110	0.340	2.100	0.210	3.000	0.700	0.430	29	0.690		8.600	0.350	1.500	0.110	0.340	2.100	0.210	3.000	0.700	0.430
30	0.880		6.400	0.350	0.760	0.110	0.240	8.500	51.000	3.700	0.560	0.430	30	0.880		6.400	0.350	0.760	0.110	0.240	8.500	51.000	3.700	0.560	0.430
31	5.600		3.100		0.690		0.210	0.530		2.400		0.430	31	5.600		3.100		0.690		0.210	0.530		2.400		0.430
MEAN	1.357	6.600	3.675	2.062	0.500	0.309	0.324	2.938	1.998	10.225	0.734	0.685	MEAN	1.357	6.600	3.675	2.062	0.500	0.309	0.324	2.938	1.998	10.225	0.734	0.685
INCHES	0.602	2.643	1.630	0.885	0.222	0.133	0.144	1.303	0.857	4.534	0.315	0.286	INCHES	0.602	2.643	1.630	0.885	0.222	0.133	0.144	1.303	0.857	4.534	0.315	0.286
STA #7	0.526	1.607	1.271	0.570	0.405	0.300	0.627	1.236	0.268	1.029	0.109	0.452	STA #7	0.526	1.607	1.271	0.570	0.405	0.300	0.627	1.236	0.268	1.029	0.109	0.452

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 #7 based on 7 yr (1965-71) record period.

1971 SELECTED RUMOFF EVENT												AROSKIE, NORTH CAROLINA WATERSHED #48											
AUFCEDEPT CONDITIONS						RAINFALL						RUMOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.					
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	No-Day	of Day	(cfs)	(inches)	No-Day	of Day	(cfs)	(inches)					
EVENT OF AUGUST 22 - 23, 1971																							
RG WTD002																							
8-22	0.0	0.0	8-22	1945	0.0	0.0	8-22	2000	0.0	0.0	8-22	2000	0.0	0.0	8-22	2000	0.0	0.0					
				1950	1.4401	0.12		2100	39.300	0.0117		2100	39.300	0.0117		2100	39.300	0.0117					
				2025	0.0	0.12		2200	53.300	0.0393		2200	53.300	0.0393		2200	53.300	0.0393					
				2030	1.3198	0.23		2300	29.500	0.0640		2300	29.500	0.0640		2300	29.500	0.0640					
				2040	6.3004	1.28		2400	27.400	0.0810		2400	27.400	0.0810		2400	27.400	0.0810					
WATERSHED CONDITIONS:																							
Approximate land use, 60% in woodland, 39% in row crops;																							
1% misc. (homesites, pastures, and roads).																							
				2045	2.2797	1.47	8-23	100	26.000	0.0969		100	26.000	0.0969		100	26.000	0.0969					
				2055	0.3660	1.53		200	21.800	0.1111		200	21.800	0.1111		200	21.800	0.1111					
				2105	0.0600	1.54		300	17.600	0.1228		300	17.600	0.1228		300	17.600	0.1228					
				2110	1.6801	1.68		400	15.500	0.1327		400	15.500	0.1327		400	15.500	0.1327					
				2120	0.3000	1.73		500	12.800	0.1411		500	12.800	0.1411		500	12.800	0.1411					
				2125	1.3201	1.84		600	10.000	0.1479		600	10.000	0.1479		600	10.000	0.1479					
				2130	0.5999	1.89		800	7.000	0.1580		800	7.000	0.1580		800	7.000	0.1580					
				2135	1.4401	2.01		1000	5.100	0.1652		1000	5.100	0.1652		1000	5.100	0.1652					
				2150	0.0	2.01		1200	3.600	0.1708		1200	3.600	0.1708		1200	3.600	0.1708					
				2155	1.3201	2.12		1400	2.700	0.1742		1400	2.700	0.1742		1400	2.700	0.174					



EVENT OF AUGUST 22 - 23, 1971
 AHOSSIE, NORTH CAROLINA WATERSHED M-14







