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Number 1451

# Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1976

## ABSTRACT

Jane L. Thurman, and Ralph T. Roberts. 1986. Hydrologic data for experimental agricultural watersheds in the United States, 1976. U.S. Department of Agriculture Miscellaneous Publication No. 1451, 322 pp.

Hydrologic data from 93 agricultural watersheds for calendar year 1976 are summarized in this publication. Daily and monthly total precipitation and runoff 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 20th publication in this series.

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

U.S. DEPARTMENT OF AGRICULTURE  
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In Cooperation With  
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Department of  
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Number 1451

# Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1976

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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 1976. 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 1976 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 (center) 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 bottom (outside corner).

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 1976 in this publication. Table 4 includes similar data on discontinued watersheds.

Copies of this publication may be purchased from the National Technical Information Service, 5285 Port Royal Road, Springfield, Va. 22161.

ARS has no additional copies for free distribution

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# Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1976

This is the 20th publication in the series on hydrological data by the U.S. Department of Agriculture. The first three volumes 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 19 publications, previously published records and general descriptions associated with each study can be readily found.

This publication contains selected hydrologic data from 93 watersheds for 1976. 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 90 watersheds; daily precipitation for 92 watersheds; mean daily discharge for 93 watersheds; applicable daily maximum and minimum air temperatures for 81 watersheds; and detailed information on 1 or more selected typical storm events for 79 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.

Newly established watersheds include descriptions of watershed physical characteristics, instrumentation, land management, graphs, maps and recommended area of application of the results.

The first 11 publications in this series resulted from the cooperative efforts of several watershed research projects of the Agricultural Research Service 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, designed and developed by the Water Data Laboratory, is now used to produce camera copy for these publications. This is the ninth publication that has been compiled using the computerized system. Hydrologic data submitted from research projects, in digital computer form, are accepted by the system. The required data analyses and summaries are performed and the tabular listings and plottings are provided within and by the system. Narrative information is incorporated into the system as uppercase and lowercase alphabetic 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 Agricultural Research Service. They are described in the following three reference summaries. Beginning with the hydrologic data for 1956 through 1976, 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, 1383, 1412, 1420, 1437, 1446, and 1451. These 17 publications are listed in table 1 as references 4-20. 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 sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, 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. Upon request, they have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals, and similar foreign institutions and individuals.

Table 2 lists a historical summary of the 20 publications including the designated watershed locations, area, record years of data, and a publication reference number indicating the specific data storage location in the ARS Water Data Bank.

Table 3 summarizes the location of each watershed under study and reported in this 20th publication.

Table 4 lists the watershed units where studies were discontinued in 1975.

## 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 mean daily 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 published in references 1 and 4-19, the tabular data begin at the top of the first page. On each page at the bottom outside corner is a sequential page number and the decimal paging system is shown at the bottom center.

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, including latitude and

Table 1.--Description of references 4-20 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"

Reference	For calendar year (19--)	Miscellaneous Publication No.	Year published (19--)	Total pages	Number of watersheds for which indicated data are given				
					Monthly precipitation and runoff	Annual maximum discharge and runoff for selected time intervals	Selected runoff events	New watersheds	Daily precipitation, discharge, and/or temperature (max.-min.)
4....	56-59	945	63	672	157	142	134	45	...
5....	60-61	994	65	496	160	145	133	24	...
6....	62	1070	68	447	164	155	136	13	50
7....	63	1164	70	465	168	156	142	9	57
8....	64	1194	71	460	163	163	143	8	57
9....	65	1216	72	568	189	178	122	22	60
10....	66	1226	72	399	198	185	106	11	60
11....	67	1262	73	634	216	204	174	26	62
12....	68	1330	76	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
16....	72	1412	81	433	131	117	98	0	131
17....	73	1420	82	404	100	97	88	1	100
18....	74	1437	83	417	98	95	82	0	98
19....	75	1446	84	580	98	95	82	8	98
20....	76	xxxx	86	324	93	90	79	0	93



Table 2.--Index to information on experimental agricultural watersheds included in references 1-20<sup>1/</sup>

Water-shed ident. code <sup>2/</sup>	Study location		Water-shed name-No.	Area in acres <sup>3/</sup>	Record (19--) B <sub>4/</sub> E <sub>5/</sub>	Index to information in reference <sup>1/--</sup> (Revised References underlined) <sup>5/</sup>																			
	Town	State				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
01001	Arnot Forest	NY	W-1	17.9	41 47	01	02																		
01002	Arnot Forest	NY	W-4	17.9	41 47	01	02																		
02002	Cohocton	NY	W-II	13.8	38 45	01	02	03																	
02003	Cohocton	NY	W-III	24.2	38 45	01	02	03																	
04001	Freehold	NJ	W-I	17.5	38 43	01	02	03																	
04002	Freehold	NJ	W-II	32.9	38 55	01	02	03																	
04003	Freehold	NJ	W-III	51.8	38 43	01	02																		
05001	College Park	MD	W-1	8.22	39 54	01	02	03																	
05002	College Park	MD	W-2	7.44	39 54	01	02	03																	
05003	College Park	MD	W-3	5.02	39 55	01	02																		
05004	College Park	MD	W-4	5.03	39 55	01	02																		
05005	College Park	MD	W-5	4.07	39 54	01	02																		
05006	College Park	MD	W-6	3.53	40 62	01	02	03	04	05	<u>06</u>														
05007	College Park	MD	W-7	3.52	40 62	01	02	03	04	05	<u>06</u>														
05008	College Park	MD	W-8	2.43	40 55	01	02	03																	
05009	College Park	MD	W-9	12.05	40 55	01	02	03																	
05010	College Park	MD	W-10	3.04	43 54	01	02																		
06001	Hagerstown	MD	W-I	46.3	38 47	01	02																		
06002	Hagerstown	MD	W-II	80.8	38 47	01	02	03																	
07001	Auburn	AL	W-I	27.0	45 47	01	02																		
08001	Vero Beach	FL	W-1	49,915.	51 73	01	02	03	04	05	<u>06</u>	07	08	09	10	11									
08002*	Vero Beach	FL	W-2	(a)66,880.	55	01	02		04	05	<u>06</u>	07	08	09	10	11	13	14	15	16	17	18	19	20	
08003*	Vero Beach	FL	W-3	(b)12,224.	55	01	02		04	05	<u>06</u>	07	08	09	10	11	13	14	15	16	17	18	19	20	
08004	Vero Beach	FL	W-4	3,970.	59 73						<u>06</u>	07	08	09	10	11									
08005*	Vero Beach	FL	W-5	(c)20,992.	65															<u>15</u>	16	17	18	19	20
09001*	Americus	GA	W-I	22.8	38 43	01	02																		
09002*	Americus	GA	W-II	42.8	38 42	01	02																		
09003*	Americus	GA	W-III	32.0	38 42	01	02																		
09004*	Americus	GA	W-IV	59.2	38 43	01	02	03																	
10001*	Watkinsville	GA	W-1	19.2	39	01	02		04	05	06	<u>07</u>	08				12	13	14	15	16	17	18	19	20
11001	High Point	NC	W.F.D.R.	21,100.	23 53	01	02	03	04																
11002	High Point	NC	M.C.	10,300.	34 41	01	02		04																
11003	High Point	NC	U.R.	7,230.	34 41	01	02		04																
12001	Statesville	NC	C-8	5.12	33 38	01	02																		
12002	Statesville	NC	W-23	6.00	33 38	01	02																		
13001	Blacksburg	VA	W-II	5.44	39 51	01	02																		
13002	Blacksburg	VA	W-III	19.3	39 67	01	02	03	04	05	06	07	08	09	10	11									
13003	Blacksburg	VA	W-IV	3.49	51 67	01	02		04	05	06	07	08	09	10	11									
13004	Blacksburg	VA	W-V	6.08	52 67	01	02		04	05	06	07	08	09	10	11									
13005	Blacksburg	VA	W-VI	7.70	51 67	01	02		04	05	06	07	08	09	10	11									
13006*	Blacksburg	VA	T.C.	3,054.	57 69				04	05	06	07	08	09	10	11	12								
13007*	Blacksburg	VA	C.C.	786.	57					05	06	07	08	09	10	11	12	13	14	15	16				
13008*	Blacksburg	VA	B.C.	893.	57				04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16				
13009*	Blacksburg	VA	P.C.	182.	58 69					05	06	07	<u>08</u>	09	10	11	12								
13010*	Blacksburg	VA	L.W.C.	1,471.	58 74					05	06	07	<u>08</u>	09	10	11	12	13	14	15	16				
13011*	Blacksburg	VA	R.R.B.	555.	58					05	06	07	<u>08</u>	09	10	11	12	13	14	15	16				
13012*	Blacksburg	VA	P.M.B.	192.	58 69					05	06	07	<u>08</u>	09	10	11	12								
13013*	Blacksburg	VA	C.R.	2,023.	59 69					05	06	07	<u>08</u>	09	10	11	12								
13014*	Blacksburg	VA	F.C.	389.	60 69					05	06	07	<u>08</u>	09	10	11	12								
13015*	Blacksburg	VA	C.B.	1,058.	60					05	06	07	<u>08</u>	09	10	11	12	13	14	15	16				
14001	Chatham	VA	W-I	13.3	38 48	01	02																		
14002	Chatham	VA	W-II	16.1	38 48	01	02																		
14003	Chatham	VA	W-III	17.1	38 48	01	02	03																	
15001	Staunton	VA	W-I	390.	48 55	01	02	03																	
15002	Staunton	VA	W-II	2,430.	48 55	01	02																		
15003	Staunton	VA	W-III	6,144.	48 55	01	02		04																

See footnotes at end of table.





Table 2.--Index to information on experimental agricultural watersheds included in references 1-20<sup>1/</sup>

Water-shed ident, code <sup>2/</sup>	Study location		Water-shed name-No.	Area in acres <sup>3/</sup>	Record (19--)		Index to information in reference <sup>1/--</sup> (Revised References underlined) <sup>5/</sup>																				
	Town	State			B	E	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
26001*	Coshocton	OH	102	1.26	37	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20			
26002*	Coshocton	OH	104	1.33	37	46	01	02	04																		
26003*	Coshocton	OH	129	2.71	38	71	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15			19	20			
26004*	Coshocton	OH	135	2.69	38	69	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13						19	20		
26005*	Coshocton	OH	130	1.63	38	71	01	02	04	05	<u>06</u>	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	69	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26008*	Coshocton	OH	132	0.62	48	69	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26009*	Coshocton	OH	134	0.92	38	46	01	02	04																		
26010*	Coshocton	OH	123	1.37	39		01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
26011*	Coshocton	OH	115	1.61	39	70	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26012*	Coshocton	OH	127	1.65	49	70	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26013*	Coshocton	OH	109	1.69	38		01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
26014*	Coshocton	OH	103	0.65	39		01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26015*	Coshocton	OH	110	1.27	39		01	02	04	05	<u>06</u>	07	08	09	10	11	12	13							19	20	
26016*	Coshocton	OH	113	1.45	39	76	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26017*	Coshocton	OH	118	1.96	40	76	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26018*	Coshocton	OH	111	1.18	39	70	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26019*	Coshocton	OH	121	1.42	39		01	02	04	05	<u>06</u>	07	08	09	10	11	12	13							19	20	
26020*	Coshocton	OH	106	1.56	39	72	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15					19	20	
26021*	Coshocton	OH	188	2.05	39	70	01	02	04	05	<u>06</u>	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	72	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14								
26024*	Coshocton	OH	187	7.20	41	72	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14								
26025*	Coshocton	OH	192	7.59	39		01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26026*	Coshocton	OH	172	43.6	39	72	01	02	04	05	<u>06</u>	07	08	09	10	11											
26027*	Coshocton	OH	169	29.0	40	71	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26028*	Coshocton	OH	177	75.6	40	71	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13									
26029*	Coshocton	OH	183	74.2	38	63	01	02	03	04	05	<u>06</u>	07														
26030*	Coshocton	OH	196	303.	37		01	02	03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
26031*	Coshocton	OH	10	122.	39	71	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14								
26032*	Coshocton	OH	5	349.	40	71	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14								
26033*	Coshocton	OH	92	920.	39	71	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14								
26034*	Coshocton	OH	94	1,520.	39	71	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14								
26035*	Coshocton	OH	95	2,570.	39	72	01	02	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15							
26036*	Coshocton	OH	97	4,580.	37	70	01	02	03	04	05	<u>06</u>	07	08	09	10	11	12	13	14							
26037*	Coshocton	OH	994	17,400.	36		01	02	04	05	<u>06</u>	07	08	09	10	11											
26038*	Coshocton	OH	174	52.8	60	77				05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
26039*	Coshocton	OH	194	187.	60	77				05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
26040*	Coshocton	OH	182	69.6	64										10	11	12	13	14						19	20	
26041*	Coshocton	OH	166	79.2	67													13	14	15						19	20
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	69	01	02	03	04	05	06	<u>07</u>	08	09	10	11										
31002*	Fennimore	WI	W-2	22.8	38	68	01	02	03	04	05	06	<u>07</u>	08	09	10	11										
31003*	Fennimore	WI	W-3	52.5	38	69	01	02		04	05	06	<u>07</u>	08	09	10	11										
31004*	Fennimore	WI	W-4	171.	38	68	01	02	03	04	05	06	<u>07</u>	08	09	10	11										
32001	La Crosse	WI	U.P.W.	2.41	33	55	01	02																			
32002	La Crosse	WI	U.C.W.	2.24	33	46	01	02																			
32003	La Crosse	WI	C.W.	2.71	37	63	01	02		04	05	06	<u>07</u>														
32004	La Crosse	WI	C.W.A.	2.95	52	63	01	02		04	05	06	<u>07</u>														

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-20<sup>1/</sup>

Water-shed ident. code <sup>2/</sup>	Study location		Water-shed name-No.	Area in acres <sup>3/</sup>	Record (19--) B <sub>4</sub> /E	Index to information in reference <sup>1/</sup> -- (Revised References underlined) <sup>5/</sup>																			
	Town	State				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
32005	La Crosse	WI	E-3	1.01	33 42	01	02																		
32006	La Crosse	WI	A-4	2.21	33 54	01	02																		
33001	Bentonville	AR	W-1	10.03	38 43	01	02																		
33002	Bentonville	AR	W-2	9.34	38 47	01	02																		
33003	Bentonville	AR	W-3	14.25	38 47	01	02																		
33004	Bentonville	AR	W-4	24.	39 47	01	02																		
33005	Bentonville	AR	W-5	19.4	38 47	01	02	03																	
33006	Bentonville	AR	W-6	10.75	39 47	01	02																		
34001*	Cherokee	OK	W-1	2.23	42 60	01	02		04																
34002*	Cherokee	OK	W-2	4.82	42 60	01	02		04																
34003	Cherokee	OK	W-3	8.04	42 60	01	02		04																
34004	Cherokee	OK	W-4	4.35	42 60	01	02		04																
34005	Cherokee	OK	W-5	7.85	42 60	01	02		04																
34006*	Cherokee	OK	W-6	1.75	42 60	01	02		04																
34007*	Cherokee	OK	W-7	1.99	42 60	01	02		04																
34008*	Cherokee	OK	W-8	4.72	41 60	01	02		04																
34009	Cherokee	OK	W-9	8.50	42 60	01	02	03	04																
34010	Cherokee	OK	W-10	1.68	60 67					05	06	07	08	09	10	11									
34011	Cherokee	OK	W-11	2.12	60 67					05	06	07	08	09	10	11									
34012	Cherokee	OK	W-12	1.68	60 67					05	06	07	08	09	10	11									
34013*	Cherokee	OK	W-13	1.99	60 67					05	06	07	08	09	10	11									
34014	Cherokee	OK	W-14	2.16	60 67					05	06	07	08	09	10	11									
34015	Cherokee	OK	W-15	2.15	60 67					05	06	07	08	09	10	11									
35001*	Guthrie	OK	W-1	33.40	32 53	01	02																		
35002*	Guthrie	OK	W-2	3.21	31 51	01	02																		
35003*	Guthrie	OK	W-3	3.13	30 51	01	02																		
35004*	Guthrie	OK	W-4	5.62	31 53	01	02																		
35005*	Guthrie	OK	W-5	5.28	31 47	01	02																		
35006*	Guthrie	OK	W-I	2.50	37 53	01	02																		
35007*	Guthrie	OK	W-II	5.09	42 55	01	02																		
35008*	Guthrie	OK	W-III	9.09	42 53	01	02																		
35009*	Guthrie	OK	W-IV	13.4	42 53	01	02																		
35010*	Guthrie	OK	W-V	15.7	42 53	01	02																		
35011*	Guthrie	OK	W-VI	94.8	42 55	01	02	03																	
36001	Muskogee	OK	W-I	14.5	39 47	01	02																		
36002	Muskogee	OK	W-II	65.4	39 45	01	02																		
36003	Muskogee	OK	W-IV	24.9	38 47	01	02																		
37001*	Stillwater	OK	W-1	16.7	51	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
37002*	Stillwater	OK	W-3	92.	51 72	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
37003*	Stillwater	OK	W-4	206.	51	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16				
38001	Garland	TX	W-I	25.	38 47	01	02																		
38002	Garland	TX	W-III	10.4	38 47	01	02																		
38003	Garland	TX	W-IV	16.2	39 47	01	02																		
39001	Spur	TX	W-1	11.53	27 45	01	02																		
39002	Spur	TX	W-2	9.39	27 45	01	02																		
39003	Spur	TX	W-3	11.71	27 44	01	02																		
39004	Spur	TX	W-5	5.81	27 45	01	02																		
39005	Spur	TX	W-6	5.32	27 45	01	02																		
39006	Spur	TX	W-11	8.70	30 45	01	02																		
39007	Spur	TX	W-12	8.41	30 45	01	02																		
39008	Spur	TX	W-14	8.53	30 45	01	02																		
39009	Spur	TX	W-15	8.50	30 45	01	02																		
40001	Tyler	TX	W-2	9.15	43 44	01	02	03																	
40002	Tyler	TX	W-3	7.94	32 42	01	02																		
40003	Tyler	TX	W-4	6.05	31 42	01	02																		
40004	Tyler	TX	W-5	1.57	32 42	01	02																		
41001	Vega	TX	W-1	129.	38 43	01	02																		
41002	Vega	TX	W-2	95.9	38 43	01	02	03																	

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-20<sup>1/</sup>

Water-shed ident. code <sup>2/</sup>	Study location		Water-shed name-No.	Area in acres <sup>3/</sup>	Record (19--) B <sub>4</sub> /E	Index to information in reference <sup>1/</sup> -- (Revised References underlined) <sup>5/</sup>																					
	Town	State				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
42001	Riesel	TX	A	42.	38 43	01	02																				
42002*	Riesel	TX	C	579.	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42003*	Riesel	TX	D	1,110.	37	01	02	03	04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42004*	Riesel	TX	G	4,380.	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42005	Riesel	TX	J	5,860.	37 43	01	02	03																			
42006*	Riesel	TX	W-1	174.	37	01	02	03	04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42007*	Riesel	TX	W-2	130.	37	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19			
42008*	Riesel	TX	W-6	42.3	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42009	Riesel	TX	W-8	40.4	38 43	01	02																				
42010*	Riesel	TX	W-10	19.7	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42011*	Riesel	TX	Y	309.	37	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42012*	Riesel	TX	Y-2	132.	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42013*	Riesel	TX	Y-4	79.9	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12										
42014*	Riesel	TX	Y-6	16.3	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42015*	Riesel	TX	Y-7	40.	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19			
42016*	Riesel	TX	Y-8	20.8	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42017*	Riesel	TX	Y-10	18.6	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42018	Riesel	TX	SW-2	2.7	38 43	01	02																				
42019	Riesel	TX	SW-3	3.09	39 43	01	02																				
42020	Riesel	TX	SW-5	3.09	38 43	01	02																				
42021	Riesel	TX	SW-6	3.04	38 43	01	02																				
42022	Riesel	TX	SW-7	3.15	38 43	01	02																				
42023*	Riesel	TX	SW-11	2.66	38	01	02												13	14	15	16	17	18	19		
42024*	Riesel	TX	SW-12	2.90	38	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42025	Riesel	TX	SW-13	3.19	38 43	01	02																				
42026	Riesel	TX	SW-14	3.02	39 43	01	02																				
42027	Riesel	TX	SW-16	3.17	37 43	01	02																				
42028*	Riesel	TX	SW-17	2.99	39	01	02		04	05	06	07	<u>08</u>	09	10	11	12	13	14	15	16	17	18	19	20		
42029	Riesel	TX	SW-18	3.04	38 43	01	02																				
42030	Riesel	TX	Z	310.	39 43	01	02																				
42031*	Riesel	TX	P-1	.24	38 68				05	06	07	<u>08</u>	09	10	11	12											
42032*	Riesel	TX	P-2	.24	38 68				05	06	07	<u>08</u>	09	10	11	12											
42033*	Riesel	TX	P-3	.24	38 68				05	06	07	<u>08</u>	09	10	11	12											
42034*	Riesel	TX	P-4	.24	38 68				05	06	07	<u>08</u>	09	10	11	12											
42035*	Riesel	TX	SW-19	3.25	70															14	15	16	17	18	19	20	
42036*	Riesel	TX	SW-20	3.21	70																14	15	16	17	18	19	20
42037*	Riesel	TX	Y-13	11.3	69															13	14	15	16	17	18	19	20
42038*	Riesel	TX	Y-14	5.6	69															13	14	15	16	17	18	19	
42039*	Riesel	TX	W-12	9.9	69															13	14	15	16	17	18	19	20
42040*	Riesel	TX	W-13	11.3	69															13	14	15	16	17	18	19	20
43001	Hays	KS	6L	2.85	34 38	01	02																				
43002	Hays	KS	AG	1.61	32 47	01	02																				
44001*	Hastings	NE	W-3	481.	38 67	01	02	03	04	05	<u>06</u>	07	08	09	10	11											
44002*	Hastings	NE	W-5	411.	39 67	01	02		04	05																	
44003*	Hastings	NE	W-8	2,086.	39 67	01	02	03	04	05	<u>06</u>	07	08	09	10	11											
44004*	Hastings	NE	W-11	3,490.	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44005*	Hastings	NE	1-H	3.62	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44006*	Hastings	NE	2-H	3.40	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44007*	Hastings	NE	3-H	3.77	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44008*	Hastings	NE	4-H	3.64	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44009*	Hastings	NE	5-H	4.02	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44010*	Hastings	NE	6-H	4.01	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44011*	Hastings	NE	7-H	4.26	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44012*	Hastings	NE	8-H	3.97	39 67	01	02		04	05	<u>06</u>	07	08	09	10	11											
44013*	Hastings	NE	9-H	3.78	39 54	01	02																				
44014*	Hastings	NE	10-H	3.98	39 54	01	02																				
44015*	Hastings	NE	11-H	3.85	39 54	01	02																				
44016*	Hastings	NE	12-H	3.66	39 54	01	02																				
44017*	Hastings	NE	13-H	3.41	39 54	01	02																				
44018*	Hastings	NE	14-H	3.35	39 54	01	02																				

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-20<sup>1/</sup>

Water-shed ident. code <sup>2/</sup>	Study location		Water-shed name-No.	Area in acres <sup>3/</sup>	Record (19--) B <sub>4</sub> /E <sub>4</sub>	Index to information in reference <sup>1/</sup> -- (Revised References underlined) <sup>5/</sup>																
	Town	State																				
						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
44019*	Hastings	NE	15-H	3.62	39 54	01 02																
44020*	Hastings	NE	16-H	3.57	39 54	01 02																
44021*	Hastings	NE	17-H	3.96	39 54	01 02																
44022*	Hastings	NE	18-H	3.74	39 67	01 02			04	05	<u>06</u>	07	08	09	10	11						
44023*	Hastings	NE	19-H	4.10	41 54	01 02																
44024*	Hastings	NE	20-H	4.05	41 54	01 02																
44025*	Hastings	NE	21-H	3.94	41 54	01 02																
44026*	Hastings	NE	22-H	3.83	41 67	01 02					<u>06</u>	07	08	09	10	11						
44027*	Hastings	NE	23-H	4.20	41 67	01 02					<u>06</u>	07	08	09	10	11						
44028*	Hastings	NE	24-H	4.21	41 54	01 02																
44029*	Hastings	NE	25-H	2.24	63 67							07	08	09	10	11						
45001*	Safford	AZ	W-I	519.	39 76	01 02			04	05	06	<u>07</u>	08	09	10	11						
45002*	Safford	AZ	W-II	682.	39 76	01 02	03	04	05	06		<u>08</u>	09	10	11							
45003*	Safford	AZ	W-IV	764.	39 76	01 02		04	05	06		<u>08</u>	09	10	11							
45004*	Safford	AZ	W-V	723.	39 76	01 02		04	05	06	<u>07</u>	08	09	10	11							
46001	Colorado Spr.	CO	W-1	10.6	38 46	01 02																
46002	Colorado Spr.	CO	W-2	39.7	38 46	01 02																
46003	Colorado Spr.	CO	W-3	35.4	38 46	01 02																
46004	Colorado Spr.	CO	W-4	35.6	38 46	01 02	03															
47001*	Albuquerque	NM	W-I	246.	39 76	01 02	03	04	05	06		<u>08</u>	09	10	11	12						
47002*	Albuquerque	NM	W-II	40.5	39 76	01 02		04	05	06	<u>07</u>	<u>08</u>	09	10	11	12						
47003*	Albuquerque	NM	W-III	176.	39 76	01 02		04	05	06	<u>07</u>	08	09	10	11	12						
48001	Mexican Spr.	NM	W-1	187.	38 42	01 02																
48002	Mexican Spr.	NM	W-2	610.	37 42	01 02	03															
48003	Mexican Spr.	NM	W-3	1,325.	38 42	01 02																
48004	Mexican Spr.	NM	W-6	5,550.	37 42	01 02	03															
48005	Mexican Spr.	NM	W-7	8,495.	38 42	01 02																
48006	Mexican Spr.	NM	W-8	20,910.	37 42	01 02	03															
48007	Mexican Spr.	NM	W-10	17,220.	37 42	01 02																
48008	Mexican Spr.	NM	W-11	46,080.	37 39	01 02	03															
48009	Mexican Spr.	NM	W-12	2,550.	37 39	01 02																
48010	Mexican Spr.	NM	W-13	3,360.	37 39	01 02																
48011	Mexican Spr.	NM	W-14	3,560.	37 38	01 02																
48012	Mexican Spr.	NM	W-15	4,740.	37 39	01 02																
49001	Santa Fe	NM	W-I	141.	39 48	01 02	03															
49002	Santa Fe	NM	W-II	790.	39 48	01 02																
49003	Santa Fe	NM	W-III	51.6	39 48	01 02																
50001	Placerville	CA	W-1	41.	35 44	01 02	03															
51001	Santa Paula	CA	W-1	413.	38 42	01 02																
51002	Santa Paula	CA	W-3	106.	38 42	01 02																
51003	Santa Paula	CA	W-4	44.4	38 42	01 02																
51004	Santa Paula	CA	W-5	55.1	38 42	01 02																
51005	Santa Paula	CA	W-6	163.	38 42	01 02																
51006	Santa Paula	CA	H.B.R.	735.	36 42	01 02																
51007	Santa Paula	CA	L.A.	1,607.	34 40	01 02																
51008	Santa Paula	CA	H.P.R.	1,832.	34 43	01 02																
51009	Santa Paula	CA	H.A.B.	5,939.	34 37	01 02																
52001	Sebastopol	CA	W-1	83.	36 43	01 02	03															
52002	Sebastopol	CA	W-2	56.	36 40	01 02																
53001	Vacaville	CA	W-I	40.	37 42	01 02																
54001	Watsonville	CA	W-1	16.8		01 02																
54002	Watsonville	CA	W-2	18.5		01 02																
54003	Watsonville	CA	W-3	27.4	38 42	01 02	03															
54004	Watsonville	CA	W-4	10.1	38 42	01 02																
55001	Emmett	ID	W-1	219.4	38 41	01 02																
55002	Emmett	ID	W-2	69.4	38 41	01 02	03															

See footnotes at end of table.



Table 2.--Index to information on experimental agricultural watersheds  
included in references 1-20<sup>1/</sup>

Water- shed ident, code <sup>2/</sup>	Study location		Water- shed name-No.	Area in acres <sup>3/</sup>	Record (19--)		Index to information in reference <sup>1/--</sup> (Revised References underlined) <sup>5/</sup>																				
	Town	State			B	E	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	
56001*	Moscow	ID	W-1	146.8	37	42	01	02	03																		
56002*	Moscow	ID	W-2	177.9	37	42	01	02	03																		
57001	Newberg	OR	W-1	13.2	38	42	01	02	03																		
57002	Newberg	OR	W-2	21.6	38	42	01	02																			
57003	Newberg	OR	W-3	12.8	38	42	01	02	03																		
57004	Newberg	OR	W-4	6.2	38	42	01	02	03																		
58001	Dayton	WA	W-1	19.2	39	42	01	02																			
59001	Pullman	WA	S.F.P.R.	51,900.	34	40	01	02																			
59002	Pullman	WA	M.F.C.	17,600.	34	40	01	02																			
59003	Pullman	WA	F.M.C.	46,000.	34	40	01	02																			
60001	Pullman	WA	G.S.2	68.2	31	46	01	02	03																		
60002	Pullman	WA	G.S.4	2.33	31	38	01	02																			
60003	Pullman	WA	G.S.5	14.4	32	46	01	02																			
60004	Pullman	WA	G.S.6	15.2	32	46	01	02																			
60005	Pullman	WA	G.S.7	16,700.	32	38	01	02																			
60006	Pullman	WA	G.S.8	762.	34	41	01	02	03																		
60007	Pullman	WA	G.S.9	879.	41	46	01	02																			
60008	Pullman	WA	G.S.10	4,430.	41	47	01	02	03																		
61001*	Monticello	IL	IA	82.	49	59	01	02	03	04														18	19	20	
61002*	Monticello	IL	IB	45.5	49	59	01	02	03	04														18	19	20	
62001*	Oxford	MS	W-4	2,000.	57					03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18		
62002*	Oxford	MS	W-5	1,000.	57					03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18		
62003*	Oxford	MS	W-10	5,530.	57					03	04	05	<u>06</u>	07	08	09	10	11	12	13	14	15					
62004*	Oxford	MS	W-12	22,800.	57						04	05	<u>06</u>	07	08	09	10	11	12	13	14	15					
62005*	Oxford	MS	W-17	32,100.	57						04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18		
62006	Oxford	MS	W-19	243.	57	64					04	05	<u>06</u>	07	08												
62007*	Oxford	MS	W-24	512.	57						04	05	<u>06</u>	07	08	09	10	11	12	13	14	15					
62008*	Oxford	MS	W-28	1,080.	57						04	05	<u>06</u>	07	08	09	10	11	12	13	14	15					
62009	Oxford	MS	W-30	113.	57	59					04																
62010*	Oxford	MS	W-32	20,000.	57						04	05	<u>06</u>	07	08	09	10	11	12	13	14	15	16	17	18		
62011*	Oxford	MS	W-34	75,000.	57					03	04	05	<u>06</u>	07	08	09	10	11	12	13		15	16	17	18		
62012*	Oxford	MS	W-35	7,550.	57	77					04	05	<u>06</u>	07	08	09	10	11	12	13	14	15					
62013	Oxford	MS	WC-1	3.88	58						04	05	<u>06</u>	07	08	09	10	11									
62014*	Oxford	MS	WC-2	1.45	58						04	05	<u>06</u>	07	08	09	10	11									
62015	Oxford	MS	WC-3	1.61	58						04	05	<u>06</u>	07	08	09	10	11									
62016	Oxford	MS	WP-4	3.01	58	63					04	05	<u>06</u>	07													
62017*	Oxford	MS	W-17A	3,200.	57						05	<u>06</u>	07	08	09	10	11	12	13	14	15						
62018*	Oxford	MS	W-35A	1,090.	57						05	<u>06</u>	07	08	09	10	11	12	13	14	15						
63001*	Tombstone	AZ	W-1	36,900.	54	74					04	05	06	<u>07</u>	08	09	10		12	13	14	15	16	17	18	19	20
63002*	Tombstone	AZ	W-2	28,100.	54	74					04	05	06	<u>07</u>	09	10		12	13	14	15	16	17	18	19	20	
63003*	Tombstone	AZ	W-3	2,220.	54	74					04	05	06	<u>07</u>	09	10	11	12	13	14	15	16	17	18	19	20	
63004*	Tombstone	AZ	W-4	560.	54	74					04	05	06	<u>07</u>	08	09	10	11	12	13	14	15	16	17	18	19	20
63005*	Tombstone	AZ	W-5	5,510.	54	73					04	05	06	<u>07</u>													
63006*	Tombstone	AZ	W-6	23,500.	62	74								<u>07</u>	08	09	10		12	13	14	15					
63007*	Tombstone	AZ	6307	3,340.	66	74													10	11							
63008*	Tombstone	AZ	6308	3,830.	63	74									08	09	10		12	13	14	15	16	17	18	19	20
63011*	Tombstone	AZ	6311	2,035.	63	74									08	09	10		12	13	14	15	16	17	18	19	20
63015*	Tombstone	AZ	6315	5,912.	65	74										09	10	11	12	13	14	15	16	17	18	19	20
63103*	Tombstone	AZ	63103	8.3	65														10	11	12						
63111	Tombstone	AZ	63111	143.	62	68													10	11	12						
64001*	Santa Rosa	NM	W-1	42,880.	55	79					04	05	06	07	08	09	10		12	13	14	15	16	17	18	19	20
65002	Newell	SD	W-2	115.	58	73					04	05	06	07	08	09	10	11	12	13	14	15	16				
65003	Newell	SD	W-3	90.	58	61					04	05															
65004	Newell	SD	W-4	105.	58	61					04	05															
65005	Newell	SD	W-5	46.	58	73					04	05	06	07	08	09	10	11	12	13	14	15	16				
65006	Newell	SD	W-6	30.	58	61					04	05															

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-20<sup>1/</sup>

Water-shed ident, code <sup>2/</sup>	Study location		Water-shed name-No.	Area in acres <sup>3/</sup>	Record (19--) B <sub>4</sub> /E	Index to information in reference <sup>1/--</sup> (Revised References underlined) <sup>5/</sup>																									
	Town	State																													
						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20						
65007	Newell	SD	W-7	160.	58 73					04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16									
65008	Newell	SD	W-8	160.	58 61					04	<u>05</u>																				
65009	Newell	SD	W-9	815.	58 61					04	<u>05</u>																				
65010	Newell	SD	W-10	280.	58 61					04	<u>05</u>																				
65011	Newell	SD	W-11	160.	58 61					04	<u>05</u>																				
65012	Newell	SD	W-12	90.	58 73					04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16									
65013	Newell	SD	W-13	160.	58 73					04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16									
65014	Newell	SD	W-14	35.	58 73					04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16									
65015	Newell	SD	W-15	115.	58 73					04	<u>05</u>	06	07	08	09	10	11	12	13	14	15	16									
65016	Newell	SD	W-16	13,000.	58 61					04	<u>05</u>																				
66001*	Moorefield	WV	W-1	8.57	58 67					04	05	<u>06</u>	07	08	09	10	11														
66002*	Moorefield	WV	W-2	9.73	58 67					04	05	<u>06</u>	07	08	09	10	11														
66004*	Moorefield	WV	W-4	6.32	58 67					04	05	<u>06</u>	07	08	09	10	11														
66005*	Moorefield	WV	W-5	9.55	58 67					04	05	<u>06</u>	07	08	09	10	11														
67001*	N. Danville	VT	W-1	10,610.	58 76					04	05	06	07	08			11	12	13	14	15	16	17								
67002*	N. Danville	VT	W-2	146.	58 78					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	16	17								
67004*	N. Danville	VT	W-4	10,752.	60 74												11	12	13	14	15	16	17								
67005*	N. Danville	VT	W-5	27,469.	60 79						05	06	07	08			11	12	13	14	15	16	17								
68001*	Reynolds	ID	W-1	57,700.	63								07	08	09	10	11	12	13	14	15	16	17	18	19	20					
68002*	Reynolds	ID	W-2	8,990.	65										09	10	11	12	13	14	15	16	17	18	19	20					
68003*	Reynolds	ID	W-3	7,846.	66												10	11	12	13	14	15	16	17	18	19	20				
68004*	Reynolds	ID	W-4	13,453.	67													11	12	13	14	15	16	17	18	19	20				
68011*	Reynolds	ID	W-11	306.	67 78													11	12	13	14	15	16	17	18	19	20				
68012*	Reynolds	ID	W-12	205.	67 77													11	12	13	14	15	16	17	18	19					
68013*	Reynolds	ID	W-13	100.	63												10	11	12	13	14	15	16	17	18	19	20				
68014*	Reynolds	ID	W-14	33.	67													11	12	13	14	15	16	17	18	19	20				
69001*	Chickasha	OK	100	2,339,800.	61 79								06	07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69002*	Chickasha	OK	200	(d)2,612,500. (e) 273,000.	61 75								06	07	08	09	10	11	12	13	14	15	16	17	18						
69004*	Chickasha	OK	400	(d)2,725,760. (e) 112,910.	61 68								06	07	08	09	10														
69005*	Chickasha	OK	500	(d)2,769,920. (e) 43,840.	64 78										08	09	10	11	12	13	14	15	16	17	18	19	20				
69006*	Chickasha	OK	600	(d)3,011,800. (e) 243,050.	63 72										07	08	09	10	11	12	13	14									
69007*	Chickasha	OK	700	(d)3,061,120. (e) 50,830.	61 78								06	07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69008*	Chickasha	OK	611	4,845.	61 74								06	07	08	09				13	14	15	16	17	18						
69009*	Chickasha	OK	512	563.	61 74								06	07	08	09	10	11	12	13	14	15	16	17	18						
69010*	Chickasha	OK	111	16,634.	62 78								06	07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69011*	Chickasha	OK	131	25,660.	62 78								06	07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69012*	Chickasha	OK	411	33,330.	62 74								06	07	08	09	10	11	12	13	14	15	16	17	18						
69013*	Chickasha	OK	511	38,020.	62 78								06	07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69014*	Chickasha	OK	110	25,020.	63 78									07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69015*	Chickasha	OK	522	132,990.	63									07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69016*	Chickasha	OK	512	22,530.	63 78									07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69017*	Chickasha	OK	621	21,310.	63									07	08	09	10	11	12	13	14	15	16	17	18	19	20				
69018*	Chickasha	OK	121	131,780.	63 74									07	08	09	10	11	12	13	14	15	16	17	18						
69019*	Chickasha	OK	513	12,314.	65 78										09	10	11	12	13	14	15	16	17	18	19	20					
69020	Chickasha	OK	514	7,225.	67 78																										
69021	Chickasha	OK	5141	4,064.	67 78																										
69022	Chickasha	OK	5142	360.	67 74																	11									
69023	Chickasha	OK	5143	485.	67 74																	11									
69024	Chickasha	OK	5144	1,456.	67 78																	11									
69025	Chickasha	OK	5145	253.	67 78																	11									
69026	Chickasha	OK	5146	762.	67 78																	11									
69027*	Chickasha	OK	311	15,206.	67 78																	11	12	13	14	15	16	17	18	19	20
69028*	Chickasha	OK	515	1,657.	73																							17	18	19	20
69030*	Chickasha	OK	C-1	17.8	65 76												09	10	11	12	13	14	15	16	17	18	19	20			
69031*	Chickasha	OK	C-2	32.5	62 75												09	10	11	12	13	14	15	16	17	18					

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-20<sup>1/</sup>

Water-shed ident. code <sup>2/</sup>	Study location		Water-shed name-No.	Area in acres <sup>3/</sup>	Record (19--)		Index to information in reference <sup>1/</sup> -- (Revised References underlined) <sup>5/</sup>																			
	Town	State			B	E	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
69032*	Chickasha	OK	C-3	44.3	65	76							09	10	11	12	13	14	15	16	17	18	19	20		
69033*	Chickasha	OK	C-4	29.9	65	76							09	10	11	12	13	14	15	16	17	18	19	20		
69034*	Chickasha	OK	C-5	12.8	65	76							09	10	11	12	13	14	15	16	17	18	19	20		
69035*	Chickasha	OK	C-6	13.0	65	76							09	10	11	12	13	14	15	16	17	18	19	20		
69036*	Chickasha	OK	C-7	26.5	65	76							09	10	11	12	13	14	15	16	17	18	19	20		
69037*	Chickasha	OK	C-8	27.3	65	76							09	10	11	12	13	14	15	16	17	18	19	20		
69038	Chickasha	OK	R-1	17.8	62	74							09	10	11	12	13	14	15	16	17	18				
69039	Chickasha	OK	R-2	24.1	62	74							09	10	11	12	13	14	15	16	17	18				
69040	Chickasha	OK	R-3	25.8	62	74							09	10	11	12	13	14	15	16	17	18				
69041	Chickasha	OK	R-4	18.1	62	74							09	10	11	12	13	14	15	16	17	18				
69042*	Chickasha	OK	R-5	23.7	66	78							10	11	12	13	14	15	16	17	18	19	20			
69043*	Chickasha	OK	R-6	27.2	66	78							10	11	12	13	14	15	16	17	18	19	20			
69044*	Chickasha	OK	R-7	19.2	66	78							10	11	12	13	14	15	16	17	18	19	20			
69045*	Chickasha	OK	R-8	27.6	66	78							10	11	12	13	14	15	16	17	18	19	20			
70001*	Sonora	TX	W-14	30,720.	61	73											11	12	13	14	15	16				
70002*	Sonora	TX	S-9	1,774.	61	73											11	12	13	14	15	16				
70003*	Sonora	TX	S-10	5,392.	61	73											11	12	13	14	15	16				
70004*	Sonora	TX	S-11	10,787.	61	73											11	12	13	14	15	16				
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	16				
70007*	Sonora	TX	W-1	10.2	63	75											11	12	13	14	15	16				
70008*	Sonora	TX	W-2	8.6	65	75											11	12	13	14	15	16				
70009*	Sonora	TX	W-3	6.7	65	75											11	12	13	14	15	16				
70010*	Sonora	TX	W-4	4.5	66	75											11	12	13	14	15	16				
70011*	Sonora	TX	W-5	7.2	66	75											11	12	13	14	15	16				
70012*	Sonora	TX	W-6	6.9	66	75											11	12	13	14	15	16				
70013*	Sonora	TX	W-7	12.2	65	73											11	12	13	14	15	16				
71001*	Treynor	IA	W-1	74.5	64							08	09	10	11	12	13	14	15	16	17	18	19	20		
71002*	Treynor	IA	W-2	82.8	64							08	09	10	11	12	13	14	15	16	17	18	19	20		
71003*	Treynor	IA	W-3	107.	64							08	09	10	11	12	13	14	15	16	17	18	19	20		
71004*	Treynor	IA	W-4	150.	64							08	09	10	11	12	13	14	15	16	17	18	19	20		
71005*	Treynor	IA	W-5	389.	63	73						08	09	10	11	12	13	14	15							
72001*	Cottonwood	SD	H-2	2.13	63	73							09	10	11	12	13	14	15	16						
72002*	Cottonwood	SD	L-2	2.38	63	73							09	10	11	12	13	14	15	16						
72005*	Cottonwood	SD	M-1	2.35	63	73							09	10	11	12	13	14	15	16						
73002*	Fort Staunton	NM	7302	32.2	66												10									
74002*	Tifton	GA	W-TB	82,624.	69																		19	20		
74003*	Tifton	GA	W-TN	3,872.	68																		19	20		
74004*	Tifton	GA	W-TO	3,936.6	68																		19	20		
74005*	Tifton	GA	W-TF	28,403.8	68																		19	20		
74006*	Tifton	GA	W-TI	12,358.	68																		19	20		
74007*	Tifton	GA	W-TJ	5,466.	70																		19	20		
74008*	Tifton	GA	W-TK	4,141.	68																		19	20		
74009*	Tifton	GA	W-TM	672.	68																		19	20		
75001*	Ahoskie	NC	W-A1	36,480.	64	74							09	10	11	12	13	14	15	16						
75002*	Ahoskie	NC	W-A2	15,360.	64	74							09	10	11	12	13	14	15	16						
75003*	Ahoskie	NC	W-A3	2,368.	64	74							09	10	11	12	13	14	15	16						
75004*	Ahoskie	NC	W-A4	1,664.	64	74							09	10	11	12	13	14	15	16						

<sup>1/</sup>For description of references 1-20, see page 1 and table 1.

<sup>2/</sup>\* = streamflow data for all or part of record period are stored in ARS Water Data Bank.

<sup>3/</sup>(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.

<sup>4/</sup>B = year (19--) record began; E = year (19--) record ended.

<sup>5/</sup>Reference in which additional or revised watershed information has been included.



longitude when available, 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 prior 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 longtime 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 following the mean daily discharge table. Cooperating 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 3-19 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 watersheds 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, the number or name of the watershed used locally, and the latitude and longitude of the stream gage. 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, Watershed 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 data are included as previously described for contributing 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 this 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, the major river basin in which it lies, and latitude and longitude. 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 identifying the 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's "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, or fine has been used—the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure grade, or the durability of the aggregates when subjected to disturbance, is described as structureless, weak, moderate, or strong. For some soils the structureless grade is described as massive, if coherent, or



single grain, if noncoherent. The size of the aggregates is reported as very fine, fine, medium, coarse, or very coarse. Structure shape is given as being platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb.

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

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers and by the height of the water table, either permanent or perched, in relation to the water added to the soil. Internal drainage is described as none, very slow, slow, medium, rapid, or very rapid.

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

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

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

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

Class 3.—The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. Approximately 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's "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. 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 sometimes below and other times 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 significant relationship to the hydrology of the watershed are mentioned.

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

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

#### STANDARD SYMBOLS FOR TABULAR DATA

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

Symbol	Meaning
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.

Z - indicates an accurately measured total for a series of days that has been equally divided among coded days.

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 subsequent publications. 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—

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C. A. Burroughs, J. M. Sheridan, H. D. Wade, P. Yates . . . . .	8
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#### ADDITIONAL PUBLICATIONS

In references 1 and 4-19 (see pp. 1 and 2), 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. A listing of publications resulting from related work follows. Unless otherwise noted, the publication year is 1976. The scope of the selected publications varies from a specific study to an overall program of hydrology.

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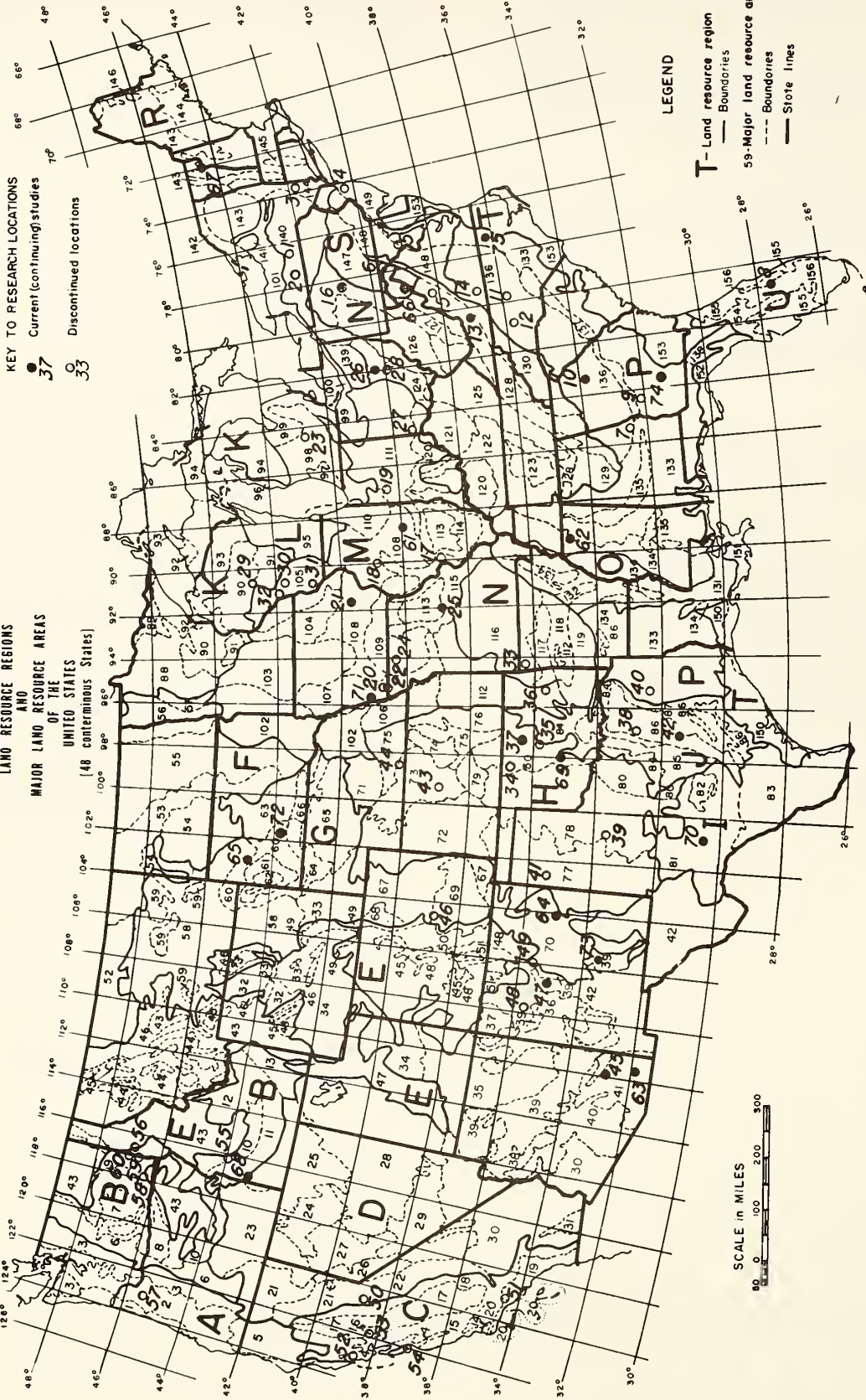
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[Pages 18 through 20]



LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE AGRICULTURAL RESEARCH SERVICE (1975)

LAND RESOURCE REGIONS  
AND  
MAJOR LAND RESOURCE AREAS  
OF THE  
UNITED STATES  
(48 conterminous States)



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

**A**

- NORTHWESTERN FOREST, FORAGE, AND SPECIALTY CROP REGION**
- 1 Northern Pacific Coast Range and Valleys
  - 2 Willamette and Puget Sound Valleys
  - 3 Olympic and Western Slope Cascade Mountains
  - 4 California Coastal Redwood Belt
  - 5 Stakiyou-Trinity Area

**B**

- NORTHWESTERN WHEAT AND RANGE REGION**
- 6 Eastern Slope Cascade Mountains
  - 7 Columbia Basin
  - 8 Columbia Plateau
  - 9 Palouse and Nez-Perce Prairies
  - 10 Upper Snake River Lava Plains and Hills
  - 11 Snake River Plains
  - 12 Lost River Valleys and Mountains
  - 13 Eastern Idaho Plateaus

**C**

- CALIFORNIA SUBTROPICAL FRUIT, TRUCK, AND SPECIALTY CROP REGION**
- 14 Central California Valleys
  - 15 Central California Coastal Range
  - 16 California Delta
  - 17 Sacramento and San Joaquin Valleys
  - 18 Sierra Nevada Foothills
  - 19 Southern California Coastal Plain
  - 20 Southern California Mountains

**D**

- WESTERN RANGE AND IRRIGATED REGION**
- 21 Klamath and Shasta Valleys and Basins
  - 22 Sierra Nevada Range
  - 23 Malheur High Plateau
  - 24 Humboldt Area
  - 25 Owyhee High Plateau
  - 26 Carson Basin and Mountains
  - 27 Fallon-Lovelock Area
  - 28 Great Salt Lake Area
  - 29 Southern Nevada Basin and Range
  - 30 Sonoran Basin and Range
  - 31 Imperial Valley
  - 32 Northern Intermountain Desertic Basins
  - 33 Semiarid Rocky Mountains
  - 34 Central Desertic Basins, Mountains and Plateaus
  - 35 Colorado and Green Rivers Plateaus
  - 36 New Mexico and Arizona Plateaus and Mesas
  - 37 San Juan River Valley Mesas and Plateaus
  - 38 Black, Hualapai, and Cerbat Mountains
  - 39 Arizona and New Mexico Mountains
  - 40 Central Arizona Basin and Range
  - 41 Southeastern Arizona Basin and Range
  - 42 Southern Desertic Basins, Plains and Mountains

**E**

- ROCKY MOUNTAIN RANGE AND FOREST REGION**
- 43 Northern Rocky Mountains
  - 44 Northern Rocky Mountain Valleys
  - 45 Alpine Meadows and Ruckland
  - 46 Northern Rocky Mountain Foothills
  - 47 Wasatch and Uinta Mountains
  - 48 Southern Rocky Mountains
  - 49 Southern Rocky Mountain Foothills
  - 50 San Luis Valley
  - 51 High Intermountain Valleys

**F**

- NORTHERN GREAT PLAINS SPRING WHEAT REGION**
- 52 Brown Glaciated Plain
  - 53 Dark Brown Glaciated Plain
  - 54 Rolling Soft Shale Plain
  - 55 Black Glaciated Plains
  - 56 Red River Valley of the North
  - 57 Western Minnesota Forest-Prairie Transition

**G**

- WESTERN GREAT PLAINS RANGE AND IRRIGATED REGION**
- 58 Northern Rolling High Plains
  - 59 Northern Smooth High Plains
  - 60 Pierre Shale Plains and Badlands
  - 61 Black Hills Footholds
  - 62 Black Hills
  - 63 Rolling Pierre Shale Plains
  - 64 Mixed Sandy and Silty Tableland
  - 65 Nebraska Sand Hills
  - 66 Dakota-Nebraska Eroded Tableland
  - 67 Central High Plains
  - 68 Irrigated Upper Platte River Valley
  - 69 Upper Arkansas Valley Rolling Plains
  - 70 Pecos-Canadian Plains and Valleys

**H**

- CENTRAL GREAT PLAINS WINTER WHEAT AND RANGE REGION**
- 71 Central Nebraska Loess Hills
  - 72 Central High Tableland
  - 73 Rolling Plains and Breaks
  - 74 Central Kansas Sandstone Hills
  - 75 Central Loess Plains
  - 76 Bluestem Hills
  - 77 Southern High Plains
  - 78 Central Rolling Red Plains
  - 79 Great Bend Sand Plains
  - 80 Central Rolling Red Prairies

**I**

- SOUTHWESTERN PLATEAUS AND PLAINS, RANGE AND COTTON REGION**
- 81 Edwards Plateau
  - 82 Texas Central Basin
  - 83 Rio Grande Plain

**J**

- SOUTHWESTERN PRAIRIES, COTTON, AND FORAGE REGION**
- 84 Grass Timbers
  - 85 Grand Prairie
  - 86 Texas Blackland Prairie
  - 87 Texas Claypan Area

**K**

- NORTHERN LAKE STATES FOREST AND FORAGE REGION**
- 88 Northern Minnesota Swamps and Lakes
  - 89 Minnesota Rockland Hills
  - 90 Central Wisconsin and Minnesota Thin Loess and Till
  - 91 Wisconsin and Minnesota Sandy Outwash
  - 92 Superior Lake Plain
  - 93 Northern Michigan and Wisconsin Stony, Sandy, and Rocky Plain and Hills
  - 94 Northern Michigan Sandy Drift

**L**

- LAKE STATES FRUIT, TRUCK, AND DAIRY REGION**
- 95 Southeastern Wisconsin Drift Plain
  - 96 Western Michigan Fruit Belt
  - 97 Southwestern Michigan Fruit and Truck Belt
  - 98 Southern Michigan Drift Plain
  - 99 Erie-Huron Lake Plain
  - 100 Erie Fruit and Truck Area
  - 101 Ontario-Mohawk Plain

**M**

- CENTRAL FEED GRAINS AND LIVESTOCK REGION**
- 102 Loess, Till, and Sandy Prairies
  - 103 Central Iowa and Minnesota Till Prairies
  - 104 Eastern Iowa and Minnesota Till Prairies

**F**

- NORTHERN GREAT PLAINS SPRING WHEAT REGION**
- 105 Northern Mississippi Valley Loess Hills
  - 106 Nebraska and Kansas Loess-Drift Hills
  - 107 Iowa and Missouri Deep Loess Hills
  - 108 Illinois and Iowa Deep Loess and Drift
  - 109 Iowa and Missouri Heavy Till Plain
  - 110 Northern Illinois and Indiana Heavy Till Plain
  - 111 Indiana and Ohio Till Plain
  - 112 Cherokee Prairies
  - 113 Central Claypan Area
  - 114 Southern Illinois and Indiana Thin Loess and Till Plain
  - 115 Central Mississippi Valley Wooded Slopes

**G**

- EAST AND CENTRAL GENERAL FARMING AND FOREST REGION**
- 116 Ozark Highland
  - 117 Boston Mountains
  - 118 Arkansas Valley and Ridges
  - 119 Ouachita Mountains
  - 120 Kentucky and Indiana Sandstone and Shale Hills and Valleys
  - 121 Kentucky Bluegrass
  - 122 Highland Rim and Pennyroyal
  - 123 Nashville Basin
  - 124 Western Allegheny Plateau
  - 125 Cumberland Plateau and Mountains
  - 126 Central Allegheny Plateau
  - 127 Eastern Allegheny Plateau and Mountains
  - 128 Southern Appalachian Ridges and Valleys
  - 129 Sand Mountain
  - 130 Blue Ridge

**O**

- MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION**
- 131 Southern Mississippi Valley Alluvium
  - 132 Eastern Arkansas Prairies

**P**

- SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION**
- 133 Southern Coastal Plain
  - 134 Southern Mississippi Valley Silty Uplands
  - 135 Alabama and Mississippi Blackland Prairies
  - 136 Southern Piedmont
  - 137 Carolina and Georgia Sandhills
  - 138 North Central Florida Ridge

**R**

- NORTHEASTERN FORAGE AND FOREST REGION**
- 139 Eastern Ohio Till Plain
  - 140 Glaciated Allegheny Plateau and Catskill Mountains
  - 141 Tughill Plateau
  - 142 St. Lawrence-Champlain Plain
  - 143 Northeastern Mountains
  - 144 New England and Eastern New York Upland
  - 145 Connecticut Valley
  - 146 Aroostook Area

**S**

- NORTHERN ATLANTIC SLOPE TRUCK, FRUIT, AND POULTRY REGION**
- 147 Northern Appalachian Ridges and Valleys
  - 148 Northern Piedmont
  - 149 Northern Coastal Plain

**T**

- ATLANTIC AND GULF COAST LOWLANDS, FOREST AND TRUCK CROP REGION**
- 150 Gulf Coast Prairies
  - 151 Gulf Coast Marsh
  - 152 Gulf Coast Flatwoods
  - 153 Atlantic Coast Flatwoods

**U**

- FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION**
- 154 South Central Florida Ridge
  - 155 Southern Florida Flatwoods
  - 156 Florida Everglades and Associated Areas

Compiled by Morris E. Austin  
Information from SCS, State, and other Offices

Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1976 and included in this publication

State	Locality	Assigned location number	Major land resource area <sup>1/</sup>	Watershed units	Events reported	Pages
Arizona.....	Tombstone .....	63	D-41	8	8	155-180
Florida.....	Vero Beach.....	08	U-155	3	0	24- 29
Georgia.....	Tifton.....	74	P-133	8	8	291-324
	Watkinsville.....	10	P-136	1	1	30- 33
Idaho.....	Reynolds.....	68	D-23, D-25	7	8	184-212
Illinois.....	Monticello.....	61	M-108	2	2	149-154
Iowa.....	Treynor.....	71	M-107	4	0	283-290
Missouri.....	McCredie.....	25	M-113	1	0	37- 38
New Mexico.....	Santa Rosa.....	64	G-70	1	1	181-183
Ohio.....	Coshocton.....	26	N-124	13	13	39- 77
Oklahoma.....	Chickasha.....	69	H-78, H-80, J-84	24	18	213-282
	Stillwater.....	37	H-80	2	2	78- 83
Pennsylvania...	Klingerstown.....	16	S-147	1	1	34- 36
Texas.....	Riesel (Waco).....	42	J-86	18	18	84-148

<sup>1/</sup>See location map (p. 20) and legend (p. 21).

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

State	Locality	Major land resource area <sup>2/</sup>	Discontinued watershed units <sup>3/</sup>		
			Number	Record period (19--)	Assigned location and watershed number
Idaho.....	Reynolds.....	D-23, D-25	1	67-77	68012
Texas.....	Riesel (Waco)..	J-86	4	37-75	42007
				39-75	42015
				38-75	42023
				69-75	42038

<sup>1/</sup>For discontinued watershed studies prior to 1976, see tables in previous publications.

<sup>2/</sup>See location map (p. 20) and legend (p. 21).

<sup>3/</sup>Data not available for this publication; may be included in future references.



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

**[8.002-1 TO 74.009-3, A TOTAL OF 301 DATA SHEETS ]**

For location by States and Land Resource Areas  
and Regions, see U.S. Index Map, page 18.

VERO REACH, FLORIDA (TAYLOR CREEK) WATERSHED #2

LOCATION: Okeechobee County, Florida. Runoff gaging site is about 3 mi. N. of City of Okeechobee on Cemetery Road. Taylor Creek empties into Lake Okeechobee. Lat. 27 deg. 17 min. 03 sec. N.; Long. 80 deg. 49 min. 21 sec. W.

AREA: 66880.00 acres 104.50 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)					VERO REACH, FLORIDA (TAYLOR CREEK)								WATERSHED #2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976 P	0.34	1.23	0.88	2.52	12.46	5.73	5.45	6.92	5.79	0.80	1.92	2.34	46.38	
1976 Q	0.027	0.340	0.019	0.036	1.727	2.919	1.175	2.464	1.329	0.236	0.070	0.090	10.132	
STA AV P	1.76	2.29	3.00	1.88	4.86	8.48	6.64	6.79	5.92	3.90	1.34	1.52	48.37	
STA AV Q	0.438	0.403	0.909	0.180	0.385	2.016	2.147	2.119	2.434	1.817	1.685	0.190	14.723	

NOTES: Watershed conditions: 1976: Range & forest, 39%; improved pasture, 47%; cropland, 4%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pnb. 1383, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 7 gages for record period 1967-76. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Okeechobee 9 SW).

1976 DAILY AIR TEMPERATURE (degrees F)														VERO REACH, 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	70	38	76	46	84	60	84	45	84	52	86	64	88	70	88	70	88	71	85	67	78	54	66	50
2	78	42	64	30	84	56	82	42	78	65	88	68	88	69	90	69	89	69	85	65	78	56	65	48
3	76	46	74	32	84	57	84	43	80	56	86	68	89	68	88	70	50	68	85	60	70	54	72	49
4	72	47	78	40	82	58	82	49	85	54	86	66	90	70	88	69	68	68	84	56	76	52	74	51
5	70	47	82	54	84	58	85	56	84	55	84	66	90	71	89	72	88	67	88	63	72	40	74	59
6	76	50	82	57	86	61	78	60	88	60	84	68	89	70	90	71	89	68	88	68	72	46	78	62
7	79	54	74	36	82	64	80	64	88	64	84	68	88	70	88	70	90	69	89	69	72	47	78	55
8	74	32	64	36	84	66	80	58	89	64	86	68	86	68	90	71	90	70	89	71	66	42	66	40
9	56	34	66	37	86	63	78	48	80	64	84	66	86	68	88	70	92	71	82	65	72	44	70	43
10	70	38	74	38	82	49	76	46	88	65	86	69	88	69	92	69	90	70	73	66	76	48	76	63
11	74	46	76	40	78	49	78	48	86	64	82	66	87	68	90	71	68	67	74	62	76	58	78	62
12	78	49	82	44	82	53	80	54	88	64	86	68	89	71	88	72	86	68	82	58	74	62	82	63
13	60	54	82	46	86	55	80	55	84	66	85	67	90	72	89	68	88	70	82	58	76	58	80	63
14	82	55	82	48	88	60	79	49	86	68	86	69	89	72	90	69	88	67	83	59	82	62	78	60
15	78	54	80	48	86	63	78	48	84	68	84	69	91	71	88	70	86	66	86	62	84	63	78	54
16	75	46	82	48	86	52	80	52	84	65	84	68	90	70	88	68	86	67	84	63	82	62	78	42
17	62	26	83	49	72	40	80	50	82	66	86	69	90	69	85	70	90	69	84	67	84	66	76	39
18	56	30	85	54	74	44	82	53	86	62	88	70	91	70	85	69	88	66	82	68	78	54	72	42
19	64	40	80	52	78	48	82	56	84	62	86	69	90	69	82	68	86	66	84	68	78	55	78	47
20	74	46	82	52	84	51	84	56	80	66	86	68	90	68	88	71	88	68	86	58	82	64	76	54
21	73	38	82	54	86	55	86	58	82	68	88	72	90	70	88	70	88	69	72	47	72	46	56	36
22	66	29	85	44	88	56	88	58	84	69	84	68	91	69	88	72	84	69	76	48	54	36	68	40
23	70	30	70	46	72	54	89	59	82	68	78	68	92	68	90	72	86	69	78	56	68	40	60	47
24	66	40	68	54	76	52	90	63	64	66	84	68	90	70	90	71	88	68	82	58	70	40	66	42
25	80	49	70	57	78	50	88	62	82	65	86	67	92	71	88	70	86	67	84	59	74	44	74	44
26	84	61	72	60	76	52	68	60	84	64	88	69	90	68	88	72	88	68	82	52	82	62	64	36
27	80	49	78	56	78	54	89	60	88	69	86	68	91	71	88	70	90	69	78	53	84	67	64	38
28	65	34	76	58	84	58	88	61	84	66	88	67	92	69	89	69	89	67	74	54	86	66	68	40
29	64	34	82	58	86	56	89	60	86	66	88	68	90	68	88	68	88	68	78	54	84	52	68	38
30	68	35			85	54	89	60	86	62	88	69	92	68	99	69	86	69	82	54	52	44	72	44
31	70	37			86	55			87	62			90	70	88	68			84	57			78	48
AV.	72	42	77	47	82	55	83	54	85	64	86	68	90	70	88	70	88	68	82	60	75	53	72	48
MEAN	57.1		62.2		68.6		68.9		74.3		76.8		79.6		79.2		78.2		71.2		64.2		60.2	
STA AV	72	51	74	50	78	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 values are based on record period July 1, 1956-1976.

Cooperative Research Project of USDA, U.S. Geological Survey, University of Florida, IPAS Experiment Station, and South Florida Water Management District

1976 DAILY PRECIPITATION (inches)													VERO BEACH, FLORIDA (TAYLOR CREEK)				WATERSHED #2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.0	0.0	0.20E	0.02E	0.64	0.13E	0.06E	0.21E	0.10E	0.0	0.0	0.07						
2	0.0	0.0	0.12E	0.0 E	0.06	0.0	0.10E	0.11E	0.0 E	0.0	0.24	0.04						
3	0.0	0.0	0.0	0.0 E	0.0	0.32E	0.06E	1.43E	0.06E	0.0	1.37	0.0						
4	0.0	0.0	0.0	0.0 E	0.0	0.47E	0.0 E	0.03E	0.93E	0.12	0.0	0.0						
5	0.0	0.0	0.02E	0.0 E	0.0	0.64E	0.0 E	0.0 E	0.31E	0.08	0.0	0.04						
6	0.0	0.0	0.02E	0.67E	0.10	0.60E	0.13E	0.13E	0.05E	0.0	0.0	0.95						
7	0.01	0.0	0.09E	0.78E	0.04	0.02E	0.16E	0.0 E	0.0 E	0.06	0.0	0.08						
8	0.07	0.0	0.0 E	1.05E	0.24	0.12E	1.21E	0.0 E	0.0 E	0.08	0.0	0.04						
9	0.0	0.0	0.0 E	0.02E	0.27	1.11E	0.23E	0.41E	0.0 E	0.05	0.0	0.0						
10	0.0	0.0	0.15E	0.01E	0.22	0.22E	0.03E	0.43E	0.09E	0.0	0.0	0.0						
11	0.0	0.0	0.01E	0.0 E	0.65E	0.03E	0.26E	0.0 E	0.36E	0.01	0.0	0.21						
12	0.0	0.0	0.0 E	0.0 E	0.06E	0.0 E	0.08E	0.10E	0.06E	0.0	0.0	0.05						
13	0.0	0.0	0.0 E	0.0 E	0.07E	0.0 E	0.0 E	1.01E	0.48E	0.0	0.0	0.0						
14	0.03	0.0	0.0 E	0.0	0.0 E	0.0 E	0.0 E	0.70E	0.11E	0.0	0.0	0.0						
15	0.0	0.0	0.0 E	0.0	2.21E	0.19E	0.0 E	0.03E	0.0 E	0.0	0.0	0.04						
16	0.0	0.0	0.0 E	0.0	0.51E	0.14E	1.12E	0.73E	0.0 E	0.27	0.0	0.01						
17	0.0	0.0	0.0	0.0	0.49E	0.0 E	0.27E	0.21E	0.02E	0.09	0.0	0.0						
18	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0 E	0.07E	0.04E	0.0	0.0	0.0						
19	0.0	0.0	0.0	0.0	0.0 E	0.14E	0.0 E	0.49E	0.0 E	0.0	0.0	0.0						
20	0.0	0.0	0.0	0.0	0.0 E	0.01E	0.0 E	0.03E	0.0 E	0.0	0.0	0.0						
21	0.0	0.0	0.0	0.0	0.10E	0.0 E	0.83	0.20E	1.83E	0.0	0.0	0.0						
22	0.0	0.0	0.23E	0.0	1.97E	0.91E	0.01	0.0 E	0.24E	0.0	0.0	0.0 E						
23	0.0	0.0	0.04E	0.0	0.97E	0.21E	0.63	0.01E	0.0 E	0.0	0.0	0.09E						
24	0.0	0.18	0.0 E	0.01	0.0 E	0.26E	0.05	0.42E	0.06	0.0	0.0	0.03E						
25	0.0	0.14	0.0 E	0.0	0.49E	0.01E	0.04	0.11	0.0	0.02	0.0	0.0 E						
26	0.0	0.31	0.0 E	0.0	0.0 E	0.02E	0.0	0.0	0.0	0.0	0.0	0.56E						
27	0.23	0.06E	0.0 E	0.0	0.0 E	0.0 E	0.01	0.0	0.0	0.0	0.0	0.0 E						
28	0.0	0.13E	0.0 E	0.0	0.20E	0.0 E	0.0	0.01	0.02	0.02	0.0	0.0 E						
29	0.0	0.41E	0.0 E	0.0	0.83E	0.01E	0.04	0.0	0.55	0.0	0.0	0.01E						
30	0.0	0.0	0.0 E	0.0	1.40E	0.17E	0.0	0.0	0.48	0.0	0.31	0.0 E						
31	0.0	0.0	0.0 E	0.0	0.94E	0.13E	0.05E	0.0	0.0	0.0	0.07E							
TOTAL	0.34	1.23	0.88	2.52	12.46	5.73	5.45	6.92	5.79	0.80	1.92	2.34						
STA AV	1.76	2.29	3.00	1.88	4.86	8.48	6.64	6.79	5.92	3.90	1.34	1.52						

NOTES: Thiessen weighted rainfall, using 7 rain gages. STA AV values are based on record period July 1, 1955-1976.

1976 MEAN DAILY DISCHARGE (cfs)													VERO BEACH, FLORIDA (TAYLOR CREEK)				WATERSHED #2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.0	20.0	0.0	0.0	12.0	1010.0	46.0	52.0	52.0	195.0	0.0	23.0						
2	10.0	0.0	0.0	14.0	0.0	857.0	78.0	34.0	62.0	128.0	13.0	0.0						
3	0.0	0.0	19.0	0.0	0.0	466.0	43.0	68.0	56.0	77.0	41.0	0.0						
4	0.0	0.0	0.0	0.0	16.0	271.0	30.0	244.0	145.0	33.0	27.0	0.0						
5	0.0	0.0	0.0	0.0	0.0	393.0	37.0	185.0	414.0	45.0	15.0	21.0						
6	0.0	23.0	0.0	0.0	0.0	549.0	48.0	123.0	297.0	47.0	0.0	0.0						
7	0.0	0.0	0.0	0.0	0.0	500.0	57.0	100.0	169.0	14.0	13.0	0.0						
8	20.0	0.0	21.0	26.0	0.0	238.0	135.0	65.0	96.0	0.0	0.0	18.0						
9	0.0	0.0	0.0	14.0	6.1	152.0	136.0	65.0	80.0	19.0	0.0	0.0						
10	0.0	0.0	0.0	21.0	11.0	720.0	76.0	120.0	52.0	0.0	12.0	4.9						
11	0.0	0.0	0.0	0.0	44.0	662.0	71.0	128.0	63.0	13.0	0.0	6.4						
12	0.0	0.0	0.0	10.0	58.0	490.0	85.0	102.0	69.0	5.8	0.0	18.0						
13	0.0	0.0	0.0	0.0	11.0	264.0	159.0	157.0	77.0	14.0	16.0	0.0						
14	25.0	0.0	0.0	0.0	24.0	151.0	77.0	622.0	118.0	0.0	0.0	23.0						
15	0.0	21.0	0.0	0.0	37.0	81.0	53.0	730.0	113.0	0.0	0.0	0.0						
16	0.0	7.6	0.0	0.0	193.0	90.0	31.0	505.0	65.0	20.0	13.0	18.0						
17	0.0	0.0	6.8	0.0	219.0	85.0	219.0	607.0	50.0	0.0	0.0	0.0						
18	0.0	0.0	6.8	0.0	158.0	53.0	307.0	485.0	56.0	15.0	0.0	15.0						
19	0.0	0.0	0.0	0.0	60.0	45.0	220.0	408.0	34.0	0.0	12.0	0.0						
20	0.0	0.0	0.0	15.0	19.0	61.0	180.0	374.0	51.0	12.0	0.0	13.0						
21	20.0	0.0	0.0	0.0	28.0	52.0	104.0	271.0	82.0	0.0	0.0	0.0						
22	0.0	0.0	0.0	0.0	32.0	45.0	141.0	280.0	457.0	0.0	0.0	0.0						
23	0.0	0.0	0.0	0.0	477.0	207.0	145.0	159.0	357.0	0.0	17.0	18.0						
24	0.0	0.0	0.0	0.0	824.0	219.0	268.0	145.0	174.0	13.0	0.0	0.0						
25	0.0	11.0	0.0	0.0	691.0	218.0	192.0	251.0	145.0	0.0	0.0	0.0						
26	0.0	0.0	0.0	0.0	485.0	85.0	126.0	289.0	95.0	0.0	0.0	20.0						
27	0.0	0.0	0.0	0.0	385.0	71.0	73.0	148.0	39.0	0.0	14.0	19.0						
28	0.0	0.0	0.0	0.0	211.0	70.0	70.0	73.0	66.0	12.0	0.0	0.0						
29	0.0	29.0	0.0	0.0	94.0	52.0	69.0	57.0	66.0	0.0	4.0	23.0						
30	0.0	0.0	0.0	0.0	282.0	46.0	55.0	40.0	133.0	0.0	0.0	0.0						
31	0.0	0.0	0.0	0.0	477.0	47.0	51.0	36.0	0.0	0.0	0.0	19.0						
MEAN	2.42	3.85	1.73	3.33	156.58	273.43	106.52	223.32	124.43	21.38	6.57	8.20						
INCHES	0.027	0.340	0.019	0.036	1.727	2.919	1.175	2.464	1.329	0.236	0.070	0.080						
STA AV	0.438	0.403	0.909	0.180	0.385	2.016	2.147	2.119	2.434	1.817	1.695	0.190						

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00035589. Discharge is combined flow from Williamson Ditch and S-1 structure. Runoff data furnished by the U.S. Geological Survey. Discharge measurements generally made once a week.

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3

LOCATION: Okeechobee County, Florida. Runoff gaging site is approximately 11 mi. (airline) N-NW of City of Okeechobee on State Road #68. Northern reach of Taylor Creek Watershed. Lat. 27 deg. 23 min. 24 sec. N.; Long. 80 deg. 53 min. 42 sec. W.

AREA: 12224.00 acres 19.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)		VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.10	0.61	1.33	2.01	12.81	5.01	5.85	7.57	4.78	0.41	1.98	2.50	44.96
	Q	0.032	0.012	0.016	0.014	0.153	1.379	0.463	3.016	0.245	0.243	0.054	0.121	5.748
STA AV	P	1.68	2.24	3.00	2.15	4.73	7.83	6.90	6.83	5.61	3.84	1.25	1.49	47.55
	Q	0.395	0.300	0.868	0.160	0.236	1.472	2.088	2.200	2.378	1.669	1.000	0.145	12.911

NOTES: Watershed conditions: 1976: Improved pasture, 59%; range & forest, 30%; cropland, 1%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pnb. 1383, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 2 gages through Dec. 31, 1966; 3 gages for record period 1967-76. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Okeechobee 9 SW).

1976	DAILY PRECIPITATION (inches)												VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.18	0.0	0.23	0.01E	0.15E	0.77	0.05	0.0	0.0	0.0	0.0	0.10										
2	0.0	0.0	0.38	0.0	0.05	0.0	0.10E	0.0	0.0	0.0	0.20	0.0	0.0	0.0										
3	0.0	0.0	0.0	0.0	0.0	0.11E	0.06E	1.27E	0.19	0.0	1.19	0.0	0.0	0.0										
4	0.0	0.0	0.0	0.0	0.0	0.30E	0.0 E	0.01E	0.20	0.0	0.0	0.0	0.0	0.0										
5	0.0	0.0	0.08	0.0	0.0	0.08E	0.0 E	0.0	0.26	0.01	0.0	0.0	0.0	0.09										
6	0.0	0.0	0.09	0.93	0.22	0.75E	0.0 E	0.04	0.12	0.0	0.0	0.0	0.0	1.01										
7	0.04	0.0	0.15	0.59	0.0	0.0 E	0.38E	0.0	0.0	0.01	0.0	0.0	0.0	0.0										
8	0.0	0.0	0.0	0.49	0.47	0.05E	1.00	0.0	0.0	0.20	0.0	0.0	0.0	0.09										
9	0.0	0.0	0.0	0.0	0.10	1.64E	0.27	0.33	0.0	0.09	0.0	0.0	0.0	0.0										
10	0.0	0.0	0.28	0.0	0.0	0.10E	0.0	1.10	0.01	0.0	0.0	0.0	0.0	0.0										
11	0.0	0.0	0.04	0.0	0.84	0.01E	0.44	0.0	0.06	0.04	0.0	0.0	0.06	0.0										
12	0.0	0.0	0.0	0.0	0.16	0.0 E	0.04	0.38	0.05	0.0	0.0	0.0	0.09	0.0										
13	0.0	0.0	0.0	0.0	0.12	0.0 E	0.0	0.42	0.47	0.0	0.0	0.0	0.0	0.0										
14	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	1.64	0.05	0.0	0.0	0.0	0.0	0.0										
15	0.0	0.0	0.0	0.0	2.52	0.07E	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0										
16	0.0	0.0	0.0	0.0	0.30	0.09E	1.24	0.07	0.0	0.01	0.0	0.0	0.01	0.0										
17	0.0	0.0	0.0	0.0	0.56	0.0 E	0.11	0.37	0.09	0.01	0.0	0.0	0.0	0.0										
18	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.23	0.16	0.0	0.0	0.0	0.0	0.0										
19	0.0	0.0	0.0	0.0	0.0 E	0.25E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0										
20	0.0	0.0	0.0	0.0	0.0 E	0.04E	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	0.18E	0.0 E	0.98	0.10	1.11	0.0	0.0	0.0	0.0	0.0										
22	0.0	0.0	0.13	0.0	2.73E	0.89E	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0										
23	0.0	0.0	0.0	0.0	0.28E	0.11E	0.74	0.0	0.0	0.0	0.0	0.0	0.09	0.0										
24	0.0	0.11	0.0	0.0	0.0 E	0.14E	0.02	0.06	0.08	0.0	0.0	0.0	0.10	0.0										
25	0.0	0.14	0.0	0.0	0.35E	0.04E	0.16	0.15	0.0	0.04	0.0	0.0	0.0	0.0										
26	0.0	0.12	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0										
27	0.06	0.06	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
28	0.0	0.05	0.0	0.0	0.49E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
29	0.0	0.13	0.0	0.0	0.77E	0.04E	0.16	0.0	0.74	0.0	0.0	0.0	0.04	0.0										
30	0.0	0.0	0.0	0.0	1.59E	0.29E	0.0	0.0	0.90	0.0	0.59	0.0	0.0	0.0										
31	0.0	0.0	0.0	0.0	0.85E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0										
TOTAL	0.10	0.61	1.33	2.01	12.81	5.01	5.85	7.57	4.78	0.41	1.98	2.50	44.96											
STA AV	1.68	2.24	3.00	2.15	4.73	7.83	6.90	6.83	5.61	3.84	1.25	1.49	12.911											

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-2, p. 08.002-1. Thiessen weighted average of 3 rain gages. STA AV values are based on record period July 1, 1955-1976.

1976												
MEAN DAILY DISCHARGE (cfs)						VERO BEACH, FLORIDA (TAYLOR CREEK)				WATERSHED W-3		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.00	0.20	0.40	0.10	0.0	57.00	0.70	4.00	6.70	13.00	0.50	1.60
2	1.30	0.20	0.40	0.10	0.0	37.00	0.70	7.00	5.40	18.00	0.50	1.80
3	1.00	0.20	0.40	0.10	0.0	24.00	0.90	4.30	4.30	14.00	2.40	1.60
4	0.90	0.20	0.30	0.10	0.0	24.00	0.80	5.40	3.40	11.00	2.60	1.40
5	0.90	0.20	0.30	0.10	0.0	30.00	0.70	11.00	2.60	8.80	1.60	1.00
6	1.00	0.20	0.30	0.20	0.0	36.00	0.50	12.00	2.10	7.20	1.20	1.40
7	1.30	0.20	0.40	0.20	0.0	16.00	0.40	12.00	1.80	5.90	1.00	3.20
8	1.00	0.20	0.70	0.30	0.0	11.30	3.20	11.00	7.50	4.60	0.90	2.80
9	1.00	0.20	0.50	1.40	0.0	25.00	15.00	9.70	7.00	4.60	0.60	2.80
10	1.00	0.20	0.30	1.80	0.0	153.00	8.50	12.00	5.40	4.30	0.80	2.40
11	0.90	0.20	0.30	0.70	0.0	110.00	5.40	24.00	4.30	3.80	0.70	2.40
12	0.70	0.20	0.30	0.40	0.10	60.00	9.30	19.00	3.60	3.50	0.70	2.20
13	0.40	0.20	0.20	0.30	0.10	36.00	5.60	26.00	3.40	3.00	0.70	2.40
14	0.30	0.20	0.20	0.20	0.10	21.00	3.60	63.00	4.10	2.80	0.80	2.60
15	0.30	0.20	0.20	0.20	0.30	14.00	2.00	252.00	4.60	2.40	0.70	2.60
16	0.30	0.20	0.20	0.10	0.60	11.00	1.20	130.00	4.10	2.20	0.70	2.40
17	0.30	0.20	0.20	0.10	1.00	8.30	5.10	95.00	3.40	2.00	0.80	2.20
18	0.20	0.20	0.20	0.10	1.40	3.90	9.70	180.00	2.80	2.00	0.60	2.00
19	0.20	0.20	0.20	0.10	0.70	4.30	9.70	162.00	2.40	1.80	0.90	1.80
20	0.20	0.20	0.20	0.10	0.50	3.20	12.00	104.00	2.20	1.60	0.90	1.40
21	0.20	0.20	0.20	0.10	0.50	1.30	25.00	126.00	2.00	1.40	0.90	1.40
22	0.30	0.20	0.20	0.10	0.80	1.60	33.00	76.00	4.30	1.00	0.60	1.60
23	0.30	0.20	0.20	0.10	7.20	3.00	21.00	54.00	7.00	0.80	0.80	1.80
24	0.30	0.20	0.20	0.10	8.20	4.80	22.00	39.00	6.20	0.80	0.70	2.20
25	0.20	0.20	0.20	0.0	4.60	4.60	12.00	26.00	5.40	3.70	0.70	2.20
26	0.30	0.30	0.20	0.0	3.60	3.40	8.10	22.00	5.10	0.70	0.70	2.50
27	0.30	0.30	0.20	0.0	2.60	2.20	6.20	17.00	4.10	0.60	0.70	2.20
28	0.30	0.30	0.20	0.0	1.60	1.60	4.70	14.00	3.20	0.60	0.70	1.80
29	0.30	0.30	0.20	0.0	2.40	0.70	3.80	12.00	2.60	0.60	0.70	1.60
30	0.20	0.30	0.20	0.0	9.20	0.60	3.30	9.70	4.60	0.60	0.80	1.40
31	0.20	0.30	0.10	0.0	33.00	0.60	5.60	8.10	0.60	0.60	0.60	1.40
MEAN	0.532	0.214	0.268	0.237	2.532	23.613	7.666	49.974	4.187	4.032	0.917	2.003
INCHES	0.032	0.012	0.016	0.014	0.153	1.379	0.463	3.016	0.245	0.243	0.054	0.121
STA AV	0.395	0.300	0.668	0.160	0.236	1.472	2.056	2.200	2.378	1.669	1.000	0.145

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



VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED #5

LOCATION: Okeechobee County, Florida; 125 feet upstream from control structure 7, 450 feet upstream from confluence with Taylor Creek, 3.6 miles north of town of Okeechobee, Florida. Lat. 27 deg. 16 min. 40 sec. N.; Long. 80 deg. 53 min. 44 sec. W.

AREA: 29992.00 acres 32.86 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)		VERO BEACH, FLORIDA (WILLIAMSON DITCH)											WATERSHED #5	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.59	1.32	0.51	2.88	13.81	7.28	5.32	7.41	5.74	3.69	2.06	2.03	49.94
	Q	0.083	0.057	0.055	0.064	2.822	4.156	1.635	2.417	1.259	0.532	0.162	0.154	13.294
STA AV	P	1.73	2.15	2.60	1.13	5.42	9.94	7.39	7.27	5.24	4.51	1.34	1.34	49.50
	Q	0.473	0.304	0.714	0.158	0.485	2.390	2.728	2.345	1.608	1.612	0.468	0.282	13.734

NOTES: Watershed Conditions: 1976: Vegetative cover - Improved pasture - 60%; unimproved pasture and range with little timber - 15%; woodland - 10%; citrus - 5%; marsh-swamp - 5%; urban, roads, etc. - 5%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began April 1964, part-year records not included in STA AV. Precipitation Thiessen weighted using 3 gages. Station averages computed from 2 Thiessen weighted gages for record period 1964-1975 and 3 Thiessen weighted gages for 1976. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued 1971, afterwards use Okeechobee 9 SW). Watershed area was changed effective Jan. 1975 to reflect physical alterations to the drainage area.

1976		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	0.20E	0.07E	1.41	0.22	0.0 I	0.0	0.0 E	0.0	0.0	0.0	0.0 T	
2	0.0	0.0	0.03E	0.0 E	0.10	0.0	0.03	0.23	0.0 E	0.0	0.30	0.10		
3	0.0	0.0	0.0	0.0 E	0.0	0.53	0.09	2.12E	0.0 E	0.0	1.49	0.0	0.0	
4	0.0	0.0	0.0	0.0 E	0.0	0.57	0.0	0.0 E	0.54E	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0 E	0.0	1.30	0.0	0.0 E	0.17E	0.0	0.0	0.0	0.0 T	
6	0.0	0.0	0.0	0.48E	0.10	0.57	0.27	0.07E	0.0 E	0.0	0.0	0.69		
7	0.0	0.0	0.03	0.79E	0.10	0.03	0.04E	0.0 E	0.0	0.0	0.0	0.10		
8	0.16	0.0	0.0	1.54E	0.03	0.14	1.72E	0.0 E	0.0 E	0.0	0.0	0.0 T		
9	0.0	0.0	0.0	0.0 E	0.43	1.39	0.11E	0.61E	0.0 E	0.07	0.0	0.0		
10	0.0	0.0	0.01	0.0 E	0.66	0.46	0.06E	0.07E	0.06E	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0 E	0.48	0.07	0.13E	0.0 E	0.50E	0.0	0.0	0.39		
12	0.0	0.0	0.0	0.0 E	0.07	0.0	0.12E	0.0 E	0.0 E	0.0	0.0	0.07		
13	0.0	0.0	0.0	0.0 E	0.03	0.0	0.0 E	1.08E	0.44E	0.0	0.0	0.0		
14	0.03	0.0	0.0	0.0	0.0	0.0	0.0 E	0.20E	0.10E	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	2.16	0.30	0.0 E	0.07E	0.0 E	0.0	0.0	0.13		
16	0.0	0.0	0.0	0.0	0.69	0.13	1.34E	1.25E	0.0 E	0.52	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.20	0.0	0.41E	0.06E	0.0 E	0.07	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0 E	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.04	0.0 E	0.60E	0.0 E	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.03E	0.0 E	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.03	0.0	0.23	0.25E	2.26E	0.0	0.0	0.0		
22	0.0	0.0	0.23E	0.0	1.73	0.97	0.0 I	0.0 E	0.20E	0.0	0.0	0.0 E		
23	0.0	0.0	0.01E	0.0	2.14	0.26	0.38	0.0 E	0.0 E	0.0	0.0	0.13E		
24	0.0	0.30	0.0 E	0.0	0.0	0.23	0.03	0.61E	0.0	0.0	0.0	0.10E		
25	0.0	0.17	0.0 E	0.0	0.69	0.0	0.0	0.07	0.0	0.0	0.0	0.0 E		
26	0.0	0.39	0.0 E	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.35E		
27	0.40	0.13E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E		
28	0.0	0.16E	0.0 E	0.0	0.03	0.0	0.0	0.0	0.03	0.03	0.0	0.0 E		
29	0.0	0.47E	0.0 E	0.0	1.10	0.0	0.0	0.0	0.88	0.0	0.0	0.0 E		
30	0.0	0.0	0.0 E	0.0	0.86	0.04	0.0	0.0	0.46	0.0	0.27	0.0 E		
31	0.0	0.0	0.0 E	0.0	0.77	0.0	0.36	0.09E	0.0	0.0	0.0	0.0 E		
TOTAL		0.59	1.62	0.51	2.88	13.81	7.28	5.32	7.41	5.74	0.69	2.06	2.03	
STA AV		1.73	2.19	2.60	1.13	5.42	9.94	7.39	7.27	5.24	4.31	1.34	1.34	

NOTES: For daily air temperatures in the vicinity, see p. 08.002-1. Precipitation values are Thiessen weighted averages of three gages. STA AV values are based on 12 yr (1965-1976) record period.

1976		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	4.20	1.40	3.90	0.90	4.30	363.00	11.00	4.60	13.00	77.09	2.70	3.60	
2	3.90	1.60	3.30	0.90	11.00	217.00	7.70	3.90	9.10	56.00	2.40	3.30	
3	3.90	1.60	2.70	1.20	5.70	114.00	7.30	19.00	6.50	33.00	19.00	3.00	
4	3.50	1.60	3.00	1.40	3.90	117.00	6.90	102.00	19.00	18.00	18.00	2.40	
5	3.30	2.40	2.40	1.40	2.10	195.00	6.10	68.00	98.00	11.00	9.60	2.40	
6	3.00	3.00	2.10	1.80	1.60	243.00	5.40	36.00	72.00	9.10	6.50	3.90	
7	2.70	2.40	2.10	2.70	1.40	195.00	5.70	23.00	40.00	6.50	6.50	5.70	
8	2.70	1.60	2.10	7.60	1.40	90.00	41.00	13.00	23.00	3.90	5.70	4.60	
9	2.70	1.60	1.80	2.30	1.60	88.00	186.00	12.00	13.00	2.70	4.60	3.60	
10	2.40	1.20	1.60	6.50	14.00	363.00	110.00	34.00	9.10	3.30	3.90	3.00	
11	2.40	1.20	1.60	5.70	37.00	348.00	62.00	26.00	7.30	3.30	3.90	3.30	
12	2.40	0.90	1.40	3.60	24.00	233.00	65.00	14.00	9.60	3.60	3.60	5.40	
13	2.40	0.70	1.40	2.40	30.00	105.00	43.00	51.00	12.00	3.30	3.60	5.70	
14	2.40	0.70	1.20	1.60	35.00	61.00	25.00	238.00	20.00	3.00	3.30	5.00	
15	2.40	0.80	1.20	1.60	39.00	44.00	14.00	207.00	20.00	3.00	3.00	4.60	
16	2.40	0.90	1.40	1.40	120.00	56.00	16.00	121.00	12.00	3.60	3.00	8.60	
17	2.40	1.40	1.40	1.20	141.00	54.00	70.00	256.00	9.10	7.70	3.00	8.60	
18	2.10	1.60	1.40	0.70	100.00	40.00	220.00	126.00	6.90	6.50	3.00	6.50	
19	1.60	1.80	1.40	1.20	70.00	31.00	152.00	107.00	5.40	5.00	3.00	5.40	
20	1.60	2.10	1.20	1.20	34.00	37.60	80.00	83.00	4.60	4.20	3.00	4.60	
21	1.60	2.10	0.90	1.20	14.00	29.00	48.00	65.00	5.70	3.60	3.30	3.90	
22	1.60	1.80	0.90	1.20	12.00	31.00	37.00	65.00	227.00	3.00	3.30	3.30	
23	1.40	1.60	1.20	0.90	198.00	155.00	25.00	47.00	172.00	2.40	3.00	3.00	
24	1.20	1.40	0.80	0.40	348.00	166.00	54.00	40.00	91.00	2.10	2.70	3.30	
25	1.20	2.10	0.70	0.30	264.00	98.00	51.00	134.00	58.00	2.10	2.70	3.60	
26	1.20	2.70	0.80	0.50	247.00	73.00	34.00	103.00	34.00	2.10	3.00	3.90	
27	1.40	3.00	0.70	1.20	164.00	48.00	23.00	59.00	22.00	2.40	3.60	4.60	
28	2.70	2.40	1.20	1.20	92.00	32.00	13.00	32.00	14.00	2.70	3.30	5.00	
29	2.40	2.70	0.90	1.20	64.00	23.00	8.60	20.00	16.00	3.30	3.60	4.60	
30	1.80		0.70	1.20	206.00	16.00	6.50	12.00	61.00	3.00	3.30	3.90	
31	1.60		0.70		291.00		5.40	10.00		2.70		3.30	
MEAN	2.36	1.75	1.55	1.89	83.13	122.17	46.50	68.76	37.01	9.45	4.75	4.37	
INCHES	0.083	0.057	0.055	0.064	2.922	4.156	1.635	2.417	1.259	0.332	0.162	0.154	
STA AV	0.473	0.304	0.714	0.158	0.485	2.390	2.729	2.545	1.605	1.612	0.486	0.282	

NOTES: To convert mean daily discharge in CFS to IN/DAY after 1975, multiply by 0.00113334. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV values are based on 12 yr (1965-1976) record period.

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

LOCATION: Oconee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Oconee River Basin. Lat. 33 deg. 53 min. 38 sec. N.; Long. 83 deg. 25 min. 30 sec. W.

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	3.82	2.13	9.78	0.74	8.43	1.96	3.45	2.99	2.96	5.68	5.38	5.61	52.93																
	Q	0.209	0.003	2.379	0.0	0.199	0.0	0.040	0.002	0.005	0.022	0.162	0.222	3.204																
STA AV	P	4.80	4.63	6.18	4.23	4.23	3.77	4.93	3.91	3.25	2.92	3.62	4.73	51.21																
	Q	0.457	0.364	0.781	0.413	0.346	0.198	0.344	0.284	0.032	0.057	0.262	0.260	3.799																

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1976	3-16	0.574	3-16	0.483	3-16	0.863	3-16	1.735	3-15	2.079	3-15	2.264	3-14	2.268	3- 9	2.289

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
4-25	2.710	6-26	1.840	6-26	2.540	6-26	3.480	6-26	3.740	6-26	3.780	11-26	5.680	11-22	6.640
1945		1963		1963		1963		1963		1963		1948		1948	

NOTES: Watershed conditions: 1976: Excellent coastal bermudagrass pasture. Fertilized and cut as follows: May 17 hay cut, applied 5000 lbs. NH4NO3, June 28 hay cut, July 7 hay cut, August 31 half cut, Sept. 2 remaining half cut, Nov. 19 rye planted. A total of 4,345 cow-days of grazing. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 10-1-8. Precipitation and runoff 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 (1940-1976).

1976 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	61	36	51	37	75	47	63	39	76	60	84	62	84	65	94	68	84	54	75	54	60	34	48	20			
2	61	30	46	28	81	43	71	41	72	54	79	65	86	57	88	69	87	65	80	51	62	31	54	22			
3	53	37	57	28	81	51	79	39	73	51	82	60	87	60	80	67	72	67	80	54	66	30	53	26			
4	38	24	68	29	81	49	78	50	71	38	62	59	79	70	85	60	76	66	77	54	61	35	57	26			
5	39	18	70	36	80	59	67	45	76	38	73	58	72	64	88	57	87	66	75	54	51	28	58	28			
6	39	20	63	34	62	47	72	43	79	49	76	49	71	64	92	60	85	63	76	55	61	25	50	38			
7	38	31	47	28	67	39	77	43	80	64	80	52	82	63	87	68	78	66	77	68	67	33	50	41			
8	43	21	51	26	58	36	74	41	66	52	86	54	88	60	85	68	86	66	72	63	51	27	44	27			
9	37	14	60	32	58	44	66	40	74	46	87	59	90	64	88	67	86	66	63	47	62	23	49	21			
10	51	16	71	28	60	38	72	33	75	49	86	61	89	68	89	63	82	54	69	44	70	41	50	28			
11	49	23	66	42	70	37	78	39	78	59	89	60	92	66	89	65	80	45	68	42	71	41	52	46			
12	56	30	66	28	57	47	71	46	83	58	92	63	92	77	90	64	82	46	70	43	49	41	60	52			
13	62	30	72	42	68	44	75	40	84	54	91	66	91	70	90	66	78	49	77	42	50	31	56	39			
14	56	31	74	50	59	39	79	50	78	62	85	69	91	60	90	65	69	60	78	45	39	34	48	33			
15	52	23	66	44	54	47	82	50	80	63	85	63	94	65	91	68	72	60	78	40	46	37	52	38			
16	50	25	78	40	67	36	80	51	76	61	88	72	92	70	90	68	82	64	78	50	55	42	57	42			
17	32	21	75	57	53	31	80	46	79	63	86	71	88	67	83	67	82	54	64	52	51	42	63	36			
18	38	15	71	52	65	28	85	46	66	52	85	69	87	62	81	59	86	53	58	37	70	42	71	40			
19	41	12	68	42	70	40	88	50	73	39	84	71	86	64	80	61	86	57	56	36	66	50	69	34			
20	48	18	70	35	74	52	85	54	80	43	76	70	94	67	76	66	84	67	63	47	57	49	56	32			
21	52	28	73	41	68	47	82	60	83	50	82	64	91	64	82	65	80	58	60	40	58	35	35	20			
22	48	30	59	38	60	36	80	56	79	51	84	62	94	66	88	68	79	50	68	33	46	30	38	13			
23	63	28	57	34	66	33	87	48	73	63	86	65	93	69	91	71	80	47	70	38	50	25	43	25			
24	61	44	66	28	70	33	84	47	79	61	84	68	94	71	90	67	84	53	66	46	59	35	52	23			
25	66	50	68	30	67	55	76	60	76	61	88	66	96	70	86	67	82	56	64	56	65	34	43	21			
26	61	56	70	40	74	50	69	47	75	61	90	68	94	70	88	72	84	68	67	50	54	43	46	37			
27	58	31	74	39	73	54	73	38	73	62	88	69	92	70	86	70	85	70	54	40	62	50	57	34			
28	48	25	76	35	75	41	75	39	75	63	90	69	88	69	86	70	85	68	53	31	66	56	54	43			
29	54	33	75	40	74	54	65	43	74	59	92	67	90	71	90	70	82	69	61	28	56	23	45	30			
30	61	32			69	60	65	55	83	62	85	66	86	71	82	67	71	55	62	40	40	20	55	21			
31	63	27			68	46			86	61			90	70	81	60			59	41			55	24			
AV.	51	28	66	37	68	44	76	46	77	55	84	64	88	67	87	66	81	59	68	46	57	36	52	31			
MEAN	39.4		51.3		56.0		61.0		65.9		74.1		77.6		76.3		70.3		57.1		46.5		41.7				
STA AV	54	33	57	34	64	41	73	47	79	56	86	64	88	69	87	68	83	63	74	50	62	39	56	35			

NOTES: STA AV values are based on 8 yr (1969-76) record period.



1976 DAILY PRECIPITATION (inches) WATKINSVILLE, GEORGIA WATERSHED #1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.62	0.0	0.0	0.18	0.37	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
3	0.31	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.02	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0
6	0.0	0.01	0.0	0.0	0.0	0.0	1.17	1.53	0.0	0.0	0.0	1.76
7	0.58	0.0	0.0	0.0	0.04	0.0	0.0	0.06	0.13	1.05	0.0	0.14
8	0.0	0.0	0.25	0.0	0.44	0.0	0.0	0.0	0.0	2.60	0.0	0.0
9	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.23	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	0.14	0.0	0.0	0.04	0.14	0.0	0.0	0.0	0.0	0.0	0.06	0.20
12	0.0	0.0	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.13
13	0.19	0.0	0.54	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	1.22	0.0	0.95	0.17
15	0.0	0.0	2.02	0.0	2.63	0.0	0.0	0.42	0.0	0.0	2.12	0.55
16	0.0	0.0	2.37	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.0	0.05
17	0.06	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.32	0.0	0.0
18	0.0	0.23	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	0.09	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.45	0.0	0.0	0.0	0.34	0.0	0.0	0.25	0.49	0.07	0.62
21	0.0	0.82	0.40	0.0	0.0	0.06	0.03	0.11	0.10	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.06	0.21	0.27	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	0.21	0.0	0.0	0.0	0.29	0.0	0.44	0.0	0.99
26	1.28	0.0	0.0	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.53	0.0
27	1.26	0.0	0.15	0.0	1.02	0.0	0.37	0.07	0.0	0.0	0.16	0.0
28	0.0	0.0	0.0	0.0	2.03	0.0	0.0	0.10	0.0	0.0	1.22	0.0
29	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.08	1.26	0.0	0.13	0.0
30	0.0	0.0	0.90	0.47	0.0	0.28	0.0	0.0	0.0	0.55	0.0	0.0
31	0.0	0.0	1.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.82	2.13	9.78	0.74	8.43	1.96	3.45	2.99	2.96	5.68	5.38	5.61
STA AV	4.80	4.63	6.18	4.23	4.23	3.77	4.93	3.91	3.25	2.92	3.62	4.73

NOTES: Daily precipitation values from rain gage R1-W1. STA AV values are based on 37 yr (1940-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) WATKINSVILLE, GEORGIA WATERSHED #1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.001	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	0.001	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	0.014	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	0.019	0.002	0.0	0.0	0.0	0.133
7	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.006
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	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	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019
13	0.0	0.0	0.012	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	0.248	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.124	0.009
16	0.0	0.0	1.581	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	0.001
21	0.0	0.002	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	0.011
26	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.161	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	0.027	0.0	0.0	0.0	0.0	0.0	0.006	0.0
29	0.0	0.0	0.0	0.0	0.114	0.0	0.0	0.0	0.004	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	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0054	0.0001	0.0619	0.0	0.0052	0.0	0.0010	0.0	0.0001	0.0006	0.0044	0.0058
INCHES	0.209	0.003	2.379	0.0	0.199	0.0	0.040	0.002	0.005	0.022	0.162	0.222
STA AV	0.457	0.364	0.781	0.413	0.346	0.198	0.344	0.284	0.032	0.057	0.262	0.260

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.239669. STA AV values are based on 37 yr (1940-76) record period.

1976 SELECTED RUNOFF EVENT			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 15 - 16, 1976										
3-15	RG 000001 0.0	0.001	3-15	RG 000001 835	0.0	0.0	3-15	1100	0.005	0.0
				855	0.0600	0.02		1109	0.012	0.0001
				930	0.1371	0.10		1135	0.010	0.0003
				955	0.1200	0.15		1300	0.010	0.0010
				1030	0.1714	0.25		1326	0.016	0.0013
WATERSHED CONDITIONS: Dormant Coastal Sermudagrass. Excellent cover.				1100	0.1200	0.31		1344	0.005	0.0015
				1215	0.0800	0.41		1414	0.0	0.0016
				1255	0.1500	0.51		1522	0.004	0.0017
				1337	0.0143	0.52		1618	0.004	0.0019
				1415	0.0632	0.56		1646	0.001	0.0019
				1544	0.0607	0.65		1712	0.011	0.0021
				1618	0.0	0.65		1736	0.036	0.0025
				1706	0.1375	0.76		1748	0.046	0.0030
				1722	0.1125	0.79		1758	0.061	0.0034
				1750	0.2786	0.92		1813	0.119	0.0046
				1821	0.1161	0.98		1833	0.140	0.0068
				1826	1.6800	1.12		1850	0.245	0.0096
				1840	0.2143	1.17		1857	0.544	0.0120
				1900	0.1200	1.21		1907	0.623	0.0170
				1930	0.2200	1.32		1915	0.727	0.0217
				2000	0.0400	1.34		1927	0.754	0.0293
				2102	0.0871	1.43		1945	0.700	0.0406
				2140	0.3947	1.68		2010	0.684	0.0555
				2210	0.3200	1.84		2049	0.379	0.0733
				2240	0.2000	1.94		2122	0.297	0.0829
			3-16	2340	0.0800	2.02		2132	0.337	0.0857
				55	0.0	2.02		2148	0.568	0.0919
				138	0.0140	2.03		2200	0.967	0.0998
				145	0.5143	2.09		2211	1.253	0.1103
				244	0.0508	2.14		2222	1.423	0.1230
				310	0.3692	2.30		2245	2.438	0.1612
				317	1.4571	2.47		2301	2.787	0.1972
				345	0.0857	2.51		2312	2.639	0.2229
				415	0.4000	2.71		2328	2.258	0.2566
				445	0.5000	2.96		2350	1.615	0.2933
				516	0.2903	3.11		2400	1.284	0.3058
				525	1.8667	3.39	3-16	30	0.648	0.3307
				545	0.2100	3.46		43	0.834	0.3390
				607	0.6818	3.71		117	0.492	0.3584
				624	0.1412	3.75		204	0.323	0.3749
				650	0.5308	3.98		212	0.404	0.3774
				750	0.2000	4.18		222	0.347	0.3807
				803	0.5077	4.29		256	0.366	0.3911
				832	0.1862	4.38		311	0.445	0.3963
				840	0.0750	4.39		324	0.601	0.4022
				900	0.0	4.39		339	1.069	0.4130
								346	1.980	0.4221
								355	3.203	0.4422
								406	4.172	0.4771
								416	3.650	0.5108
								426	4.184	0.5445
								442	4.870	0.6069
								450	4.928	0.6406
								457	4.794	0.6699
								507	5.044	0.7123
								528	7.184	0.8228
								534	6.945	0.8593
								539	7.112	0.8895
								547	7.118	0.9385
								604	11.122	1.0720
								616	9.531	1.1787
								622	9.731	1.2284
								627	9.310	1.2694
								641	8.989	1.3792
								656	7.321	1.4840
								702	7.244	1.5216
								709	7.309	1.5655
								717	7.596	1.6168
								728	6.956	1.6857
								740	5.734	1.7513

1976

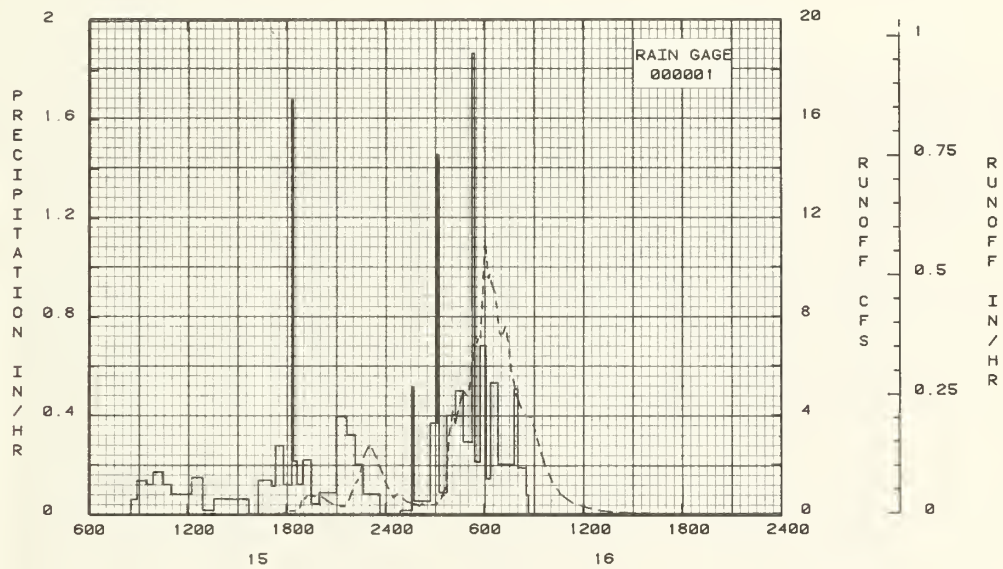
SELECTED RUNOFF EVENT

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)

EVENT OF MARCH 15 - 16, 1976 (CONTINUED)

3-16	800	4.707	1.8811
	815	4.262	1.8990
	834	3.939	1.9661
	852	3.908	2.0269
	920	2.746	2.1071
	942	1.914	2.1512
	1008	1.255	2.1867
	1038	0.773	2.2129
	1121	0.433	2.2352
	1229	0.203	2.2538
	1310	0.108	2.2593
	1346	0.067	2.2620



EVENT OF MARCH 15 - 16, 1976  
WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

LOCATION: Northumberland County, Pennsylvania 6 miles northeast of Klingerstown, Pennsylvania: Mahantango Creek Watershed, Susquehanna River Basin. Lat. 40 deg. 42 min. 16 sec. N.; Long. 76 deg. 35 min. 16 sec. W.

AREA: 1773.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													KLINGERSTOWN, 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
1976	P	3.89	2.30	3.20	2.81	4.10	6.38	3.71	2.62	5.37	7.97	0.95	2.20	45.50	P	3.89	2.30	3.20	2.81	4.10	6.38	3.71	2.62	5.37	7.97	0.95	2.20	45.50	
	Q	3.342	3.068	1.699	1.942	1.198	2.238	0.706	0.522	0.533	6.422	1.290	1.668	25.030	Q	3.342	3.068	1.699	1.942	1.198	2.238	0.706	0.522	0.533	6.422	1.290	1.668	25.030	
STA AV	P	2.53	2.19	3.09	2.97	4.33	6.11	3.44	3.24	5.15	2.97	3.48	3.24	42.75	P	2.53	2.19	3.09	2.97	4.33	6.11	3.44	3.24	5.15	2.97	3.48	3.24	42.75	
	Q	2.122	2.675	2.905	2.296	1.770	2.708	0.670	0.454	1.466	1.229	1.521	2.564	22.381	Q	2.122	2.675	2.905	2.296	1.770	2.708	0.670	0.454	1.466	1.229	1.521	2.564	22.381	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	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					
	10-7	0.373	10-7	0.324	10-7	0.574	10-7	1.318	10-7	1.974	10-7	2.707	10-7	3.382	10-6	4.214

MAXIMUMS FOR PERIOD OF RECORD																
	6-22	0.917	6-22	0.786	6-22	1.484	6-22	3.411	6-22	6.373	6-22	10.432	6-22	12.378	6-21	14.330
	1972		1972		1972		1972		1972		1972		1972		1972	

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 gages MB37 and MB37. Length of record 9 yr (1968-76). For topographic and geologic maps, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, pp. 16.006-8 and 16.006-9. For long-time precipitation records, see National Weather Service records at Selinsgrove, CAA Airport, Pennsylvania.

1976 DAILY AIP TEMPERATURE (degrees F)													KLINGERSTOWN, 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	34	24	38	28	58	39	53	33	58	42	72	62	73	55	73	53	77	46	58	52	42	27	27	0	
2	32	16	35	3	42	34	43	30	66	44	62	46	78	52	76	44	64	46	61	54	49	18	31	8	
3	34	29	28	3	38	31	52	34	55	40	75	42	81	51	77	47	70	41	69	53	42	37	17	0	
4	30	17	39	16	56	36	45	34	53	33	74	46	76	52	79	48	76	49	71	43	49	31	27	15	
5	26	10	25	20	66	48	54	31	71	31	76	42	82	54	82	53	76	56	70	41	40	31	34	13	
6	31	7	24	8	48	22	55	32	77	48	62	45	83	54	78	64	70	42	67	54	49	26	40	12	
7	36	22	22	9	49	22	55	34	70	45	82	52	77	62	74	65	79	38	73	56	46	26	50	29	
8	31	11	32	17	38	24	50	32	58	35	86	52	74	61	74	64	79	50	68	56	34	23	29	16	
9	17	4	32	12	27	23	48	28	66	31	87	53	79	55	72	62	84	53	67	44	33	14	31	16	
10	22	9	42	10	42	23	62	26	76	39	86	60	79	51	75	58	69	46	54	36	46	22	48	29	
11	26	18	47	32	43	29	52	26	67	56	84	60	79	64	84	53	70	40	56	31	40	28	48	29	
12	33	16	41	27	35	19	46	24	60	41	79	60	74	60	85	58	82	44	60	28	40	24	42	34	
13	45	14	48	36	50	29	62	24	68	35	66	56	64	60	85	62	84	48	70	34	37	21	40	8	
14	46	23	40	21	44	26	70	28	76	52	74	61	76	62	84	64	86	50	56	33	45	19	32	7	
15	31	22	44	25	51	25	75	38	80	62	88	65	81	61	78	60	74	60	71	34	39	18	44	17	
16	38	26	58	30	35	26	82	47	73	62	81	66	81	64	71	53	67	61	55	34	44	19	38	18	
17	30	7	58	38	28	18	87	49	72	57	81	60	74	49	80	49	75	56	47	34	45	16	34	26	
18	16	4	46	36	36	11	91	53	66	41	85	60	78	46	78	52	70	54	46	26	46	23	38	19	
19	26	1	56	38	63	31	89	55	50	40	82	68	82	51	78	51	79	51	46	20	59	23	48	17	
20	35	20	43	25	74	39	86	54	71	46	82	68	85	58	81	48	72	50	55	44	42	30	51	31	
21	31	22	54	24	67	38	82	58	72	51	81	71	76	66	85	51	68	43	48	31	42	25	31	15	
22	23	6	58	27	41	22	72	47	68	43	81	70	80	64	90	59	60	36	45	26	32	25	26	12	
23	15	2	31	18	51	18	72	46	68	38	84	67	69	64	88	58	72	34	51	24	32	21	34	13	
24	27	14	54	19	64	29	67	39	66	44	82	64	85	66	86	60	65	36	46	37	32	20	24	10	
25	33	9	67	32	56	33	52	47	62	46	85	70	74	51	83	59	69	36	53	42	39	24	31	10	
26	58	33	65	33	67	28	51	37	54	41	84	61	77	45	88	66	65	46	42	30	58	24	34	18	
27	56	28	60	32	62	44	45	33	74	41	88	58	78	55	78	65	68	56	39	26	62	40	22	15	
28	28	19	60	28	56	39	60	38	75	45	87	60	86	57	82	65	64	38	42	17	52	38	27	17	
29	37	24	62	28	57	29	63	36	69	61	83	64	79	68	82	56	64	35	57	20	38	12	25	7	
30	26	19			55	42	65	33	69	62	80	64	81	68	70	46	54	42	52	24	20	2	16	13	
31	28	13			47	41			72	62			81	64	72	37			52	38			14	9	
AV.	32	16	45	23	50	29	63	38	67	46	80	59	78	58	80	56	72	46	56	36	42	24	33	16	
MEAN	23.8		34.3		39.7		50.2		56.4		69.6		68.0		67.8		59.1		46.3		33.1		24.5		
STA AV	34	19	36	20	45	29	59	38	67	48	76	57	81	61	80	60	73	52	60	42	48	33	37	25	

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 2400 the preceding day to 2400 the date shown. Data recorded at MD38 meteorological station. STA AV values are based on 9 yr (1968-76) record period.

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



1976 DAILY PRECIPITATION (inches) KLINGESTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.20E	0.65	0.05	0.80	0.45	0.30E	0.05E	0.0 E	0.0 E	0.20E	0.0	0.0
2	0.0 E	0.10	0.10	0.15	0.05	0.0 E	0.0 E	0.0 E	0.15E	0.05E	0.0	0.0
3	0.35E	0.3	0.0	0.0	0.15	0.0 E	0.10E	0.0 E	0.0 E	0.28E	0.10	0.0
4	0.0 E	0.0	0.30	0.05	0.0	0.0 E	0.0 E	0.0 E	0.0 E	0.0 E	0.05	0.0
5	0.0 E	0.20	0.10	0.0	0.0	0.0 E	0.0 E	0.0 E	0.0 E	0.0 E	0.05	0.0
6	0.0 E	0.10	0.05	0.0	0.0	0.15E	0.0 E	0.05E	0.0 E	0.0 E	0.05	0.15
7	0.25E	0.0	0.10	0.0	0.10	0.0 E	0.45E	0.15E	0.0 E	0.09E	0.05	1.35
8	0.0 E	0.0	0.0	0.0	0.0	0.0 E	0.10E	0.50E	0.0 E	1.78E	0.0	0.0
9	0.0	0.3	0.25	0.0	0.0	0.0 E	0.0 E	0.15E	0.0 E	3.35E	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0 E	0.05E	0.15E	1.35E	0.0 E	0.05	0.0
11	0.10	0.0	0.10	0.0	0.25	0.0 E	0.86E	0.0 E	0.0 E	0.05E	0.0	0.0
12	0.0	0.0	0.20	0.0	0.0	0.0 E	0.0 E	0.0 E	0.05E	0.05E	0.0	0.0
13	0.20	0.0	0.20	0.0	0.0	0.0 E	0.05E	0.29E	0.05E	0.05E	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0 E	0.15E	0.05E	0.0 E	0.0	0.0
15	0.0	0.3	0.0	0.0	0.0 E	0.05E	0.20E	0.98E	0.10E	0.05E	0.0	0.0
16	0.0	0.50	0.10	0.05	1.35E	0.10E	0.0 E	0.05E	1.10E	0.0 E	0.0	0.0
17	0.0	0.15	0.0	0.05	0.05E	0.05E	0.0 E	0.05E	0.31E	0.0 E	0.0	0.0
18	0.0	0.30	0.0	0.05	0.55E	0.05E	0.0 E	0.0 E	0.05E	0.0 E	0.0	0.0
19	0.0	0.3	0.0	0.05	0.05E	0.05E	0.0 E	0.0 E	0.0 E	0.0 E	0.0	0.05
20	0.05	0.0	0.0	0.41	0.25E	1.10E	0.0 E	0.05E	0.10E	0.74E	0.0	0.20
21	0.05	0.0	0.30	0.0	0.10E	1.18E	0.0 E	0.05E	0.0 E	0.05E	0.0	0.0
22	0.0	0.10	0.0	0.05	0.0 E	0.95E	0.0 E	0.0 E	0.0 E	0.0 E	0.0	0.0
23	0.0	0.0	0.05	0.0	0.0 E	1.70E	0.90E	0.0 E	0.0 E	0.0 E	0.0	0.0
24	0.05	0.0	0.05	0.05	0.0 E	0.0 E	0.0 E	0.0 E	0.0 E	0.21E	0.0	0.0
25	0.05	0.0	0.0	0.90	0.10E	0.0 E	0.0 E	0.0 E	0.0 E	0.27E	0.0	0.10
26	1.19	0.05	0.0	0.10	0.20E	0.0 E	0.0 E	0.0 E	0.80E	0.0 E	0.05	0.15
27	1.30	0.05	0.95	0.0	0.0 E	0.0 E	0.0 E	0.0 E	0.86E	0.0	0.05	0.10
28	0.10	0.05	0.0	0.0	0.05E	0.40E	0.0 E	0.0 E	0.0 E	0.0	0.05	0.05
29	0.0	0.05	0.0	0.05	0.15E	0.05E	0.79E	0.0 E	0.0 E	0.0	0.45	0.0
30	0.0	0.0	0.0	0.05	0.25E	0.25E	0.0 E	0.0 E	0.40E	0.25	0.0	0.05
31	0.0	0.0	0.30	0.0	0.0 E	0.0	0.16E	0.0 E	0.0	0.50	0.0	0.0
TOTAL	3.89	2.30	3.20	2.81	4.10	6.38	3.71	2.62	5.37	7.97	0.95	2.20
STA AV	2.53	2.19	3.09	2.97	4.33	6.11	3.44	3.24	5.15	2.97	3.48	3.24

NOTES: Precipitation values are Thiessen weighted average of rain gages MB37 and MB37. STA AV values are based on 9 yr (1968-76) record period.

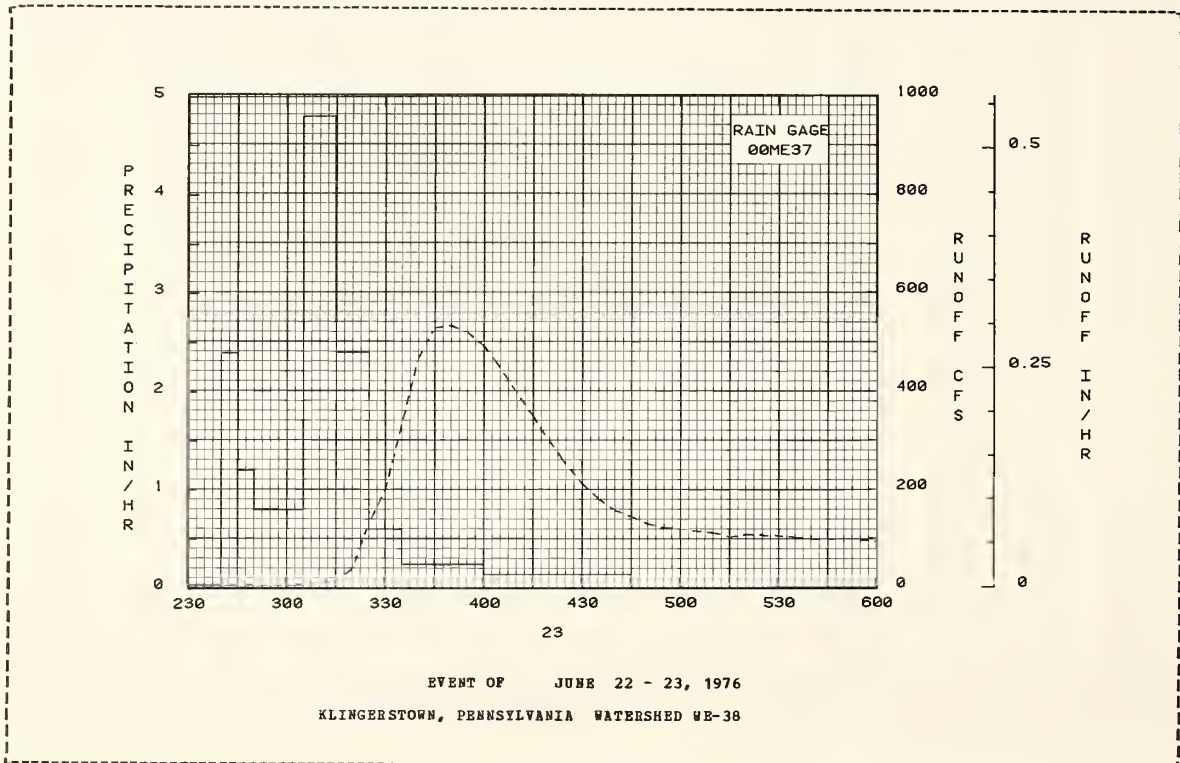
1976 MEAN DAILY DISCHARGE (cfs) KLINGESTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	10.16	15.69	3.26	22.95E	3.09	1.91	3.40	0.97	0.56	3.70E	10.76	1.20
2	7.78	13.18	3.18	19.36E	2.91	1.95	2.77	0.85	0.65	5.78E	9.25	1.19
3	7.33	6.61	3.12	12.28E	2.63	1.57	2.39	0.78	0.56E	10.10E	7.84	1.08
4	5.84	5.26	3.59	9.30E	2.23	1.40	2.20	0.73	0.57E	5.44E	6.81	1.15
5	4.43	4.45	3.32	7.37E	2.06	1.28	1.92	0.69	0.54E	4.16E	5.72	1.06
6	3.82	4.10	3.13	6.33E	2.01	1.35	1.68	0.73	0.46E	6.30E	4.84	1.03
7	3.70	3.63	2.94	5.33E	1.96	1.27	2.09	0.79	0.44E	16.0.10E	4.26	23.41
8	3.49	3.40	2.69	4.57E	1.71	1.16	1.71	1.44	0.42E	85.47E	3.76	16.69
9	2.99	2.96	2.60	3.95E	1.64	1.12	1.53	0.91	0.41E	23.71E	3.38	9.46
10	2.66	2.87	2.69	3.56E	1.59	1.05	1.36	1.17	2.27E	13.28E	3.24	7.08
11	2.53	11.69	2.94	3.37E	1.71	1.01	5.22	0.87	0.78E	9.67E	3.02	5.84
12	2.46	7.68	2.78	2.97E	1.60	0.94	2.43	0.81	0.63E	8.00E	2.72	5.23
13	2.81	7.45	5.02	2.79E	1.41	0.89	1.90	0.98	0.53E	6.53E	2.48	4.09
14	11.31	6.25	5.21	2.56E	1.34	0.89	1.64	0.88	0.48E	5.30E	2.34	3.58
15	3.81	3.57	5.47	2.39E	1.27	0.86	1.58	4.74	0.49E	4.38E	2.20	3.26
16	3.00	23.35	5.38	2.19E	3.77	0.89	1.43	4.68	2.12E	3.84E	2.04	3.15
17	2.16	21.06	4.63	1.96E	5.45	0.84	1.25	2.89	2.09E	3.27E	1.91	2.96
18	2.81	13.37	3.93	1.82E	6.99	0.74	1.14	1.93	1.65E	5.25E	1.93	2.52
19	1.86	12.27	3.74	1.74E	5.98	0.72	1.08	1.50	1.31E	10.05E	1.82	2.30
20	1.61	9.31	3.41	2.23E	5.44	2.44	1.03	1.29	1.15E	12.23E	1.67	2.33
21	1.66	7.57	3.80	1.85E	5.21	5.16	1.05	1.16	1.02E	14.44E	1.64	2.33
22	1.57	8.71	3.21	1.69E	3.99	8.21	0.99	1.08	0.87E	9.76E	1.53	2.33
23	3.02	7.24	2.91	1.53E	3.46	67.97	1.84	0.99	0.79E	7.91E	1.40	2.33
24	1.40	5.97	2.80	1.54E	3.20	23.79	1.31	0.90	0.71E	8.60E	1.36	2.33
25	1.25	5.12	2.73	3.80E	2.86	11.34	1.04	0.87	0.69E	15.42E	1.31	2.33
26	52.25	4.55	2.54	3.56E	2.91	7.26	0.94	0.81	1.52E	15.74E	1.29	2.33
27	48.88	4.09	5.74	3.23E	2.40	5.41	0.92	0.82	4.60E	13.46	1.29	2.33
28	25.88	3.76	8.51	3.07	2.08	5.03	0.84	0.79	4.38E	9.74	1.23	2.33
29	12.32	3.45	8.23	2.82	1.98	4.24	1.62	0.69	3.51E	7.61	1.83	2.33
30	8.04	7.01E	7.01E	2.60	2.43	4.02	1.23	0.59	3.54E	6.49	1.24	2.33
31	6.18	6.02E	6.02E	1.58	1.58	1.58	1.05	0.56	0.0	12.47	0.0	2.33
MEAN	8.032	7.882	4.082	4.822	2.880	5.557	1.697	1.255	1.324	16.392	3.204	4.009
INCHES	3.342	3.368	1.699	1.942	1.198	2.236	0.706	0.522	0.533	6.822	1.290	1.668
STA AV	2.122	2.675	2.905	2.296	1.770	2.708	0.670	0.454	1.466	1.229	1.521	2.564

NOTES: To convert mean daily discharge in CFS to IN/DAY, 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 values are based on 9 yr (1968-76) record period.



1976 ANTECEDENT CONDITIONS			1976 RAINFALL						1976 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 JUNE 22 - 23, 1976											
6-22	RG 00ME37 0.30	0.110	6-22	2400	0.0	0.0	6-22	2400	7.271	0.0	
			6-23	240	0.0375	0.10	6-23	40	7.025	0.0003	
				245	2.4000	0.30		245	7.025	0.0085	
				250	1.2001	0.40		305	8.037	0.0089	
				305	0.8000	0.60		315	15.186	0.0095	
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%.											
				310	4.7999	1.00		320	40.143	0.0108	
				315	4.8001	1.40		325	130.881	0.0148	
				320	2.4000	1.60		330	199.490	0.0225	
				325	2.4000	1.80		335	331.136	0.0348	
				335	0.6000	1.90		340	466.592	0.0534	
				400	0.2400	2.00		345	529.612	0.0766	
				445	0.1333	2.10		350	533.064	0.1014	
								355	519.333	0.1259	
								400	492.530	0.1495	
								405	447.698	0.1714	
								410	396.750	0.1911	
								415	349.523	0.2085	
								420	298.593	0.2236	
								425	252.493	0.2364	
								430	211.045	0.2472	
								435	181.112	0.2564	
								440	157.187	0.2643	
								445	144.439	0.2713	
								450	129.425	0.2777	
								455	120.897	0.2835	
								510	111.395	0.2888	
								515	102.365	0.2937	
								520	107.467	0.2986	
								535	102.365	0.3034	
								540	98.638	0.3081	
								555	96.201	0.3126	
								600	92.614	0.3170	

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



MCCREDIE, MISSOURI STATIDN RESERVDIR #-1

LDCATIDN: Callaway County, Mo.: 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missonri River Basin.  
 Lat. 38 deg. 56 min. 54 sec. N.; Long. 91 deg. 54 min. 37 sec. W.

AREA: 153.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													MCCREDIE, MISSOURI STATIDN RESERVDIR #-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.78	1.37	3.72	1.96	2.47	2.47	0.05	0.41	0.83	5.81	1.04	0.36	21.77	
	Q 0.270	0.812	1.136	0.021	0.0	0.016	0.0	0.0	0.0	0.025	0.019	0.0	2.300	
STA AV	P 1.54	1.59	2.84	3.65	4.27	4.35	3.44	2.95	3.82	3.54	2.08	1.77	35.84	
	Q 0.702	0.707	1.259	1.109	0.873	0.986	0.474	0.140	0.494	0.989	0.447	0.440	8.621	

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.					
1976	3- 4 0.236	3- 4 0.174	3- 4 0.309	3- 4 0.535	3- 4 0.600	3- 3 0.921	3- 3 0.997	2-26 0.997				

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

NOTES: Watershed conditions: 42% Pasture and meadow; 37% corn; 13% soybeans; 2% grain sorghum; and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan. 1, 1941. Runoff amounts, or rates, which are reported as inches or inches per hour, respectively, were computed with a constant watershed area of 153 acres, including reservoir surface area. For topographic map of watershed, see hydrologic data 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 (1890-1976).

1976 DAILY AIR TEMPERATURE (degrees F)														MCCREDIE, MISSOURI STATIDN RESERVDIR #-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	35	30	38	31	70	42	59	36	64	48	79	60	78	55	85	58	87	64	90	45	62	32	36	25
2	42	28	20	16	80	61	78	35	64	48	76	60	78	58	82	62	87	60	90	50	65	41	34	19
3	30	16	35	4	74	36	78	50	55	30	76	52	71	55	82	55	86	58	88	54	63	38	44	14
4	18	6	37	19	72	33	62	40	70	32	75	57	78	62	86	64	89	65	76	60	48	29	38	19
5	35	14	25	21	69	23	66	38	77	56	76	60	84	58	89	64	88	49	64	48	46	22	39	20
6	46	25	22	16	45	21	73	42	73	44	78	58	84	59	89	63	90	55	58	37	61	34	37	28
7	43	6	32	7	55	26	75	50	58	36	83	52	87	64	76	56	88	53	55	37	57	32	19	0
8	6	-5	40	26	45	33	71	42	64	36	84	57	89	67	79	48	88	62	58	35	51	19	23	4
9	24	-3	59	28	54	32	62	34	68	38	84	57	90	64	84	54	79	56	65	39	65	39	49	19
10	36	16	70	50	54	38	73	38	67	49	83	60	91	69	94	62	75	43	68	36	63	30	48	25
11	38	20	64	33	59	33	72	52	74	52	84	61	91	68	94	67	82	45	79	46	42	27	28	15
12	47	24	59	33	59	32	62	29	76	46	84	63	92	72	86	69	84	53	83	52	33	17	43	27
13	45	32	59	37	40	24	73	42	76	53	89	67	94	72	92	63	88	57	83	50	32	16	35	10
14	33	15	53	29	52	23	79	51	66	48	88	67	94	70	89	63	89	63	76	38	41	18	51	26
15	41	22	68	52	41	34	79	63	70	56	88	67	92	70	84	61	85	63	76	52	46	24	51	28
16	40	21	70	50	39	23	78	67	66	54	79	52	85	66	82	63	82	54	59	31	46	22	47	28
17	28	10	67	34	52	23	76	67	66	51	84	55	78	52	85	61	82	48	49	28	56	27	55	34
18	36	10	52	41	68	36	76	59	67	45	84	66	87	53	85	58	87	54	51	30	70	36	61	31
19	35	29	55	39	75	47	59	48	75	43	74	51	92	66	85	52	89	62	50	42	69	36	57	39
20	34	14	64	32	74	54	70	57	78	50	78	50	93	68	85	53	73	63	49	39	54	32	25	18
21	35	28	64	36	61	36	69	53	83	55	82	50	94	73	88	59	73	47	55	32	50	28	25	8
22	44	21	45	24	45	34	79	48	83	56	82	60	95	68	91	59	83	43	58	25	37	22	42	17
23	57	31	60	25	64	31	82	57	78	55	78	60	96	67	90	61	82	59	57	45	38	26	40	22
24	57	33	70	41	64	49	82	62	69	51	80	64	96	74	90	63	78	48	54	48	50	23	53	17
25	43	30	66	47	63	42	62	42	69	44	80	60	93	62	86	63	78	58	49	43	64	37	46	26
26	25	18	63	37	73	60	50	33	72	46	84	59	96	66	93	64	70	58	52	36	62	38	44	27
27	28	2	75	37	72	39	50	39	72	55	88	66	97	70	94	64	67	57	50	38	38	19	59	27
28	43	20	74	42	60	42	51	42	74	56	78	73	89	71	94	63	68	56	50	28	21	13	50	20
29	43	32	68	50	62	48	62	36	76	54	83	67	91	71	85	53	68	54	51	30	24	8	29	6
30	43	36			62	42	64	40	76	60	83	58	90	67	88	52	78	45	50	38	32	12	22	2
31	35	26			53	36			79	60			90	74	87	62			55	41			9	-10
AV.	37	20	54	32	60	37	69	46	71	49	81	60	89	66	87	60	81	55	63	40	50	27	40	19
MEAN	28.4		43.3		48.3		57.8		59.9		70.6		77.2		73.6		68.3		51.7		38.1		29.6	
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 36 yr (1941-76) record period.

1969 DAILY PRECIPITATION (inches)												
MCCREDIE, MISSOURI STATION RESERVOIR W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.06	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	0.09	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.01	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0
5	0.0	0.29	0.0	0.0	0.15	0.01	0.0	0.09	0.0	1.40	0.0	0.0
6	0.01	0.0	0.0	0.0	0.34	0.06	0.0	0.18	0.0	0.0	0.0	0.25
7	0.04	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	0.08	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	0.19	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	0.0
13	0.46	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.21	0.0	0.34	0.06	0.05	0.0	0.0	0.0	0.0	0.0
16	0.0	0.56	0.04	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.03	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0
20	0.0	0.26	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.56	0.0	0.04	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	0.04	0.0	0.0	0.0	2.64	0.10	0.0
24	0.0	0.0	0.0	0.03	0.0	2.08	0.0	0.0	0.0	0.0	0.0	0.0
25	0.15	0.0	0.0	0.07	0.0	0.0	0.0	0.06	0.39	0.0	0.36	0.0
26	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.58	0.0
27	0.0	0.0	0.02	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.01	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.11
29	0.0	0.0	0.37	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.87	0.0	0.0
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
TOTAL	0.78	1.87	3.72	1.96	2.47	2.47	0.05	0.41	0.83	5.81	1.04	0.36
STA AV	1.54	1.59	2.84	3.65	4.27	4.35	3.44	2.95	3.82	3.54	2.08	1.77

NOTES: Precipitation data are Thiessen weighted values for 4 recording rain gages and 1 non-recording rain gage. STA AV values are for 36 yr (1941-76) record period.

1976 MEAN DAILY DISCHARGE (cfs)												
MCCREDIE, MISSOURI STATION RESERVOIR W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.653	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.267	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	0.402	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	5.829	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.220	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	0.715	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.125	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	0.830	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	2.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.018	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	0.137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	2.336	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	0.106	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	0.217	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.123	0.0
27	0.0	0.0	0.296	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	0.384	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.163	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	0.0564	0.1811	0.2372	0.0046	0.0	0.0035	0.0	0.0	0.0	0.0053	0.0041	0.0
INCHES	0.270	0.812	1.136	0.021	0.0	0.016	0.0	0.0	0.0	0.025	0.019	0.0
STA AV	0.702	0.707	1.259	1.109	0.873	0.986	0.474	0.140	0.494	0.989	0.447	0.440

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.155557. STA AV values are for 36 yr (1941-76) record period.



COSHOCTON, OHIO WATERSHED 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Mnskingma River Basin. Lat. 40 deg. 22 min. 25 sec. N.; Long. 81 deg. 47 min. 42 sec. W.

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
1976	P	2.74	2.89	4.08	2.22	2.10	5.04	5.16	3.66	2.12	2.59	0.60	1.20	34.40
	Q	0.095	0.169	0.001	0.000	0.000	0.001	0.006	0.001	0.0	0.0	0.0	0.0	0.273
STA AV	P	2.01	2.31	3.96	3.34	3.82	4.38	4.08	3.26	2.57	2.37	2.50	2.45	37.04
	Q	0.041	0.081	0.090	0.061	0.009	0.124	0.143	0.035	0.019	0.009	0.007	0.001	0.619

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1976	2-10	0.079	2-10	0.075	2-10	0.125	2-10	0.168	2-10	0.169	2-9	0.169	2-8	0.169
	2-10	0.079	2-10	0.075	2-10	0.125	2-10	0.168	2-10	0.169	2-9	0.169	2-8	0.169

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6-12	3.640	6-12	1.310	7-5	1.427	7-5	2.470	7-5	2.470	7-5	2.470	6-29	2.597
	1957		1957		1969		1969		1969		1969		1969	

NOTES: Watershed conditions: Pasture with a cover of orchardgrass. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.1-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1947 to Apr. 25, 1957 and Dec. 31, 1957 to March 29, 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 102
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03S	0.0	0.20M	0.06	0.77	0.0 T	0.01	0.0 T	0.0	0.0	0.0	0.0	
2	0.17	0.0 T	0.15	0.09M	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.18	0.0	0.36	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	0.69	0.05M	0.0	0.0	0.0	0.0	0.10	0.0	0.0 T	0.0	0.0	
5	0.0	0.55M	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	
6	0.0	0.02S	0.0	0.0	0.25	0.0	0.0	0.50	0.0	0.08	0.0	0.42	0.0	
7	0.53S	0.0	0.0	0.0	0.04	0.0	0.15	0.85	0.0	0.0 T	0.0 T	0.14	0.0	
8	0.14S	0.07S	0.0	0.0	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0 T	0.0 T	
9	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.55	0.49	0.0 T	0.0	0.0	
10	0.0	0.0	0.32	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0 T	0.0	0.0	
11	0.12M	0.0	0.0	0.02	0.04	0.38	1.64	0.0	0.0	0.0	0.0	0.0 T	0.0 T	
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	
13	0.50	0.0	0.03S	0.0	0.0	0.0	0.0	0.60	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	0.31	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.02E	0.0	0.0	0.04	0.0	0.50	0.59	0.0	0.0 T	0.0	0.0	0.0	
16	0.10S	0.22E	0.23S	0.0	0.56	0.40	0.52	0.0	0.28	0.0	0.0	0.0 T	0.0 T	
17	0.0	0.24	0.0	0.0	0.20	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	
18	0.0	1.22	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.02S	0.0	0.0 T	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.17S	0.0	0.35	0.0	0.0	0.12	0.0	0.0	0.31	0.55	0.0	0.0	0.24M	
21	0.06S	0.40	0.77	0.93	0.0	0.0	0.07	0.0	0.0	0.0 T	0.06S	0.04S	0.04S	
22	0.01S	0.10	0.0	0.26	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	
23	0.0	0.02S	0.0	0.0	0.0	0.02	0.30	0.0	0.0	0.18	0.0	0.0 T	0.0 T	
24	0.0	0.0	0.0	0.0	0.0	1.44	0.01	0.0	0.0	0.60	0.05M	0.0	0.0	
25	0.37	0.0	0.06	0.67	0.0 T	0.30	0.0	0.54	0.0	0.0 T	0.0	0.0	0.15SZ	
26	0.28M	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.14	0.41	0.0	0.12	0.16SZ	0.16SZ	
27	0.0	0.0 T	0.24	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.09	0.01SZ	0.01SZ	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.12	0.0	0.0	0.18S	0.01SZ	0.01SZ	
29	0.02S	0.0	0.0 T	0.0	0.0	0.12	0.11	0.0	0.0	0.0	0.10S	0.02SZ	0.02SZ	
30	0.07S	0.01	0.0	0.0	0.0	0.44	0.0 T	0.0	0.04	0.30	0.0	0.01SZ	0.01SZ	
31	0.0	0.57	0.62				0.10	0.0		0.39		0.0	0.0	
TOTAL	2.74	2.89	4.08	2.22	2.10	5.04	5.16	3.66	2.12	2.59	0.60	1.20		
STA AV	2.01	2.31	3.96	3.34	3.82	4.38	4.08	3.26	2.57	2.37	2.50	2.45		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y101. STA AV values are based on 28 yr (1937-Jan. 1947, April 1957-Dec. 1957, March 1960-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

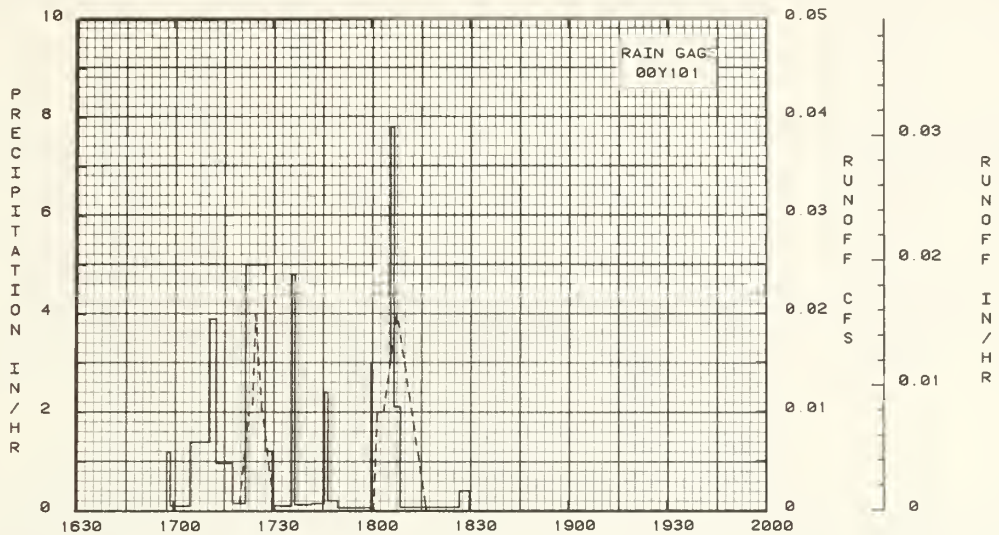


1976		MEAN DAILY DISCHARGE (cfs)										COSHOCTON, OHIO WATERSHED 102												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.0	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	0.0	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	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	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
10	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	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	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	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	0.0	0.0	0.0	0.0	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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
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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.002	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	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	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.0	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
MEAN	0.0002	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.095	0.169	0.001	0.000	0.000	0.001	0.006	0.001	0.0	0.0	0.0	0.0	0.006	0.001	0.006	0.001	0.006	0.001	0.006	0.001	0.006	0.001	0.006	0.001
STA AV	0.041	0.381	0.090	0.061	0.009	0.124	0.143	0.035	0.019	0.009	0.007	0.001	0.043	0.035	0.019	0.009	0.007	0.001	0.043	0.035	0.019	0.009	0.007	0.001

NOTES: To convert CFS to IN/DAY, multiply by 18.8902. STA AV values are based on 28 yr (1937-Jan. 1947, April 1957-Dec. 1957, March 1960-76) record period, part-year records included.

1976		SELECTED RUNOFF EVENT										COSHOCTON, OHIO WATERSHED 102											
ANTECEDENT CONDITIONS			RAINFALL									RUNOFF											
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.									
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	Mo-Day	of Day	(cfs)	(inches)									
EVENT OF JULY 11, 1976																							
7-11	RG 00Y101 0.0	0.0	7-11	RG 00Y101 1658	0.0	0.0	7-11	1708	0.0	0.0	7-11	1708	0.0	0.0									
				1659	1.2003	0.02		1711	0.001	0.0000		1711	0.001	0.0000									
				1705	0.0999	0.03		1720	0.001	0.0001		1720	0.001	0.0001									
				1711	1.4000	0.17		1723	0.010	0.0004		1723	0.010	0.0004									
				1713	3.9001	0.30		1724	0.013	0.0005		1724	0.013	0.0005									
WATERSHED CONDITIONS: Orchardgrass pasture.				1718	0.9598	0.38		1725	0.017	0.0007		1725	0.017	0.0007									
				1722	0.1501	0.39		1727	0.013	0.0011		1727	0.013	0.0011									
				1728	5.0000	0.89		1731	0.003	0.0015		1731	0.003	0.0015									
				1730	1.1998	0.93		1733	0.001	0.0016		1733	0.001	0.0016									
				1736	0.1001	0.94		1736	0.001	0.0016		1736	0.001	0.0016									
				1737	4.8012	1.02		1740	0.0	0.0016		1740	0.0	0.0016									
				1742	0.1199	1.03		1748	0.0	0.0016		1748	0.0	0.0016									
				1746	0.1499	1.04		1753	0.0	0.0016		1753	0.0	0.0016									
				1747	2.4005	1.08		1758	0.0	0.0016		1758	0.0	0.0016									
				1750	0.1999	1.09		1800	0.003	0.0017		1800	0.003	0.0017									
				1800	0.0600	1.10		1801	0.005	0.0017		1801	0.005	0.0017									
				1806	3.0000	1.40		1802	0.010	0.0018		1802	0.010	0.0018									
				1807	7.8019	1.53		1804	0.010	0.0021		1804	0.010	0.0021									
				1809	2.0998	1.60		1808	0.025	0.0030		1808	0.025	0.0030									
				1827	0.0667	1.62		1817	0.003	0.0047		1817	0.003	0.0047									
				1830	0.4001	1.64		1823	0.0	0.0048		1823	0.0	0.0048									
								1840	0.0	0.0048		1840	0.0	0.0048									

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.78772000.



EVENT OF JULY 11, 1976  
COSHOCTON, OHIO WATERSHED 102

COSHOCTON, OHIO WATERSHED 129

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walkonding River, Muskingum River Basin. Lat. 40 deg. 22 min. 19 sec. N.; Long. 81 deg. 47 min. 52 sec. W.

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	
1976	P 2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06	32.96	
	Q 1.546	0.642	0.290	0.110	0.004	0.029	1.117	0.015	0.001	0.0	0.0	0.089	3.843	
STA AV	P 2.66	2.42	3.50	3.42	3.75	3.92	4.23	3.01	2.66	2.11	2.42	2.34	36.45	
	Q 0.151	0.189	0.159	0.095	0.048	0.150	0.147	0.059	0.051	0.015	0.011	0.045	1.118	

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	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date				
1976	7-11 2.781	7-11 0.860	7-11 0.921	7-11 0.921	7-11 0.921	1-25 0.949	1-24 1.134	1-18 1.114				

MAXIMUMS FOR PERIOD OF RECORD												
	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
	7-11 1976	2.781	6-12 1957	0.980	9-1 1950	1.010	3-4 1963	1.530	3-4 1963	2.420	3-4 1963	2.900
												3-3 1963
												3-3 1963
												4.000

NOTES: Watershed conditions: Grass 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 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April, 1938. Runoff measurements discontinued June 1972 to March 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 129	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02S	0.0	0.12M	0.09	0.78	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0		
2	0.16	0.0 T	0.11	0.09M	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.15	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
4	0.0	0.0	0.68	0.05M	0.0	0.0	0.0	0.0	0.08	0.0	0.0 T	0.0		
5	0.0	0.65M	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.50	0.0	0.07	0.0	0.43		
7	0.51S	0.0	0.0	0.0	0.06	0.0	0.11	0.90	0.0	0.0 T	0.0 T	0.14		
8	0.11S	0.03S	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.49	0.49	0.0 T	0.0		
10	0.0	0.0	0.29	0.0	0.0	0.0	0.30	0.0	0.0 T	0.0	0.02	0.0		
11	0.08M	0.0	0.0	0.02	0.04	0.26	1.77	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
13	0.46	0.0	0.02S	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0		
15	0.0	0.02	0.0	0.0	0.06	0.0	0.31	0.59	0.0	0.0 T	0.0	0.0		
16	0.08S	0.24	0.20S	0.0	0.54	0.35	0.54	0.0	0.29	0.0	0.0	0.0 T		
17	0.0	0.22	0.0	0.0	0.21	0.0	0.0	0.0	0.24	0.0	0.0	0.0		
18	0.0	1.12	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01S	0.0	0.0 T	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.15S	0.0	0.38	0.0	0.0	0.12	0.0	0.0	0.30	0.54	0.0	0.18M		
21	0.05S	0.39	0.71	0.86	0.0	0.0	0.02	0.0	0.0	0.0 T	0.04S	0.03S		
22	0.01S	0.10M	0.0	0.23	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0 T	0.0		
23	0.0	0.01S	0.0	0.0	0.0	0.02	0.25	0.0	0.0	0.19	0.0	0.0 T		
24	0.0	0.0	0.0	0.0	0.0	1.33	0.05	0.0	0.0	0.61	0.05M	0.0		
25	0.44	0.0	0.08	0.64	0.0 T	0.28	0.0	0.41	0.0	0.0 T	0.0	0.12SZ		
26	0.30M	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.17	0.36	0.0	0.13	0.11SZ		
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.04	0.0	0.15	0.0 T	0.07	0.02S		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.13	0.0	0.0	0.25S	0.0 T		
29	0.01S	0.0	0.0 T	0.0	0.0	0.17	0.11	0.0	0.0	0.0	0.04S	0.02S		
30	0.09S	0.01	0.0	0.0	0.0	0.39	0.02	0.0	0.04	0.34	0.0	0.01S		
31	0.0		0.57		0.56		0.36	0.0		0.32		0.0		
TOTAL	2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06		
STA AV	2.66	2.42	3.50	3.42	3.75	3.92	4.23	3.01	2.66	2.11	2.42	2.34		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 100. STA AV values are based on 38 yr (1938-76) record period, part-year records included (gage 100 discontinued June 1972 to March 1974). Codes 'E' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

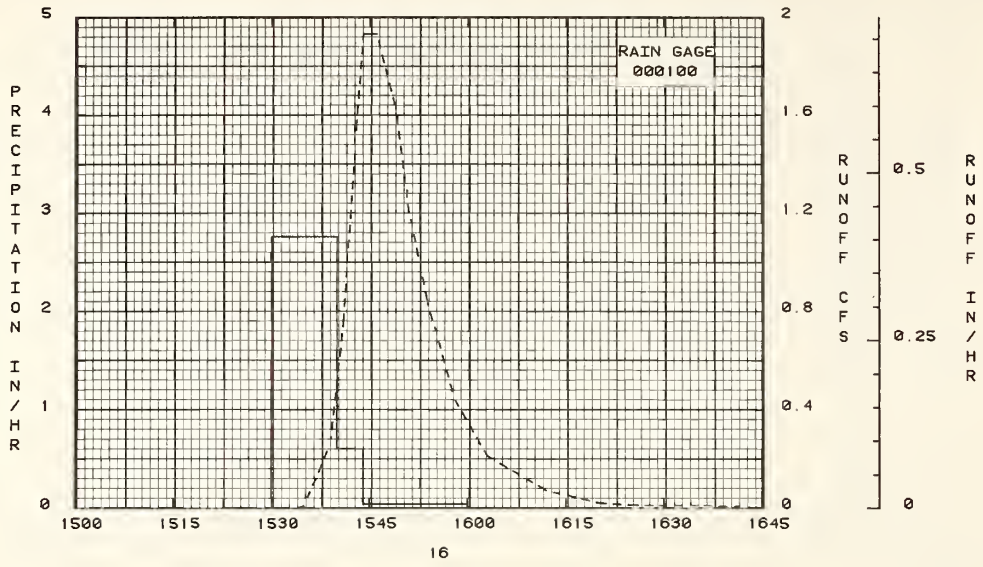
1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 129												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.012	0.0	0.0	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	T 0.0	0.0	0.0	0.0	0.0	0.0	0.008
7	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	T 0.0	0.0	0.0	0.002
8	0.0	0.0	0.0	0.0	0.0	0.0	0.003	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	T 0.0	0.0	0.0
10	0.0	0.057	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0
11	0.0	0.011	0.0	0.0	0.0	0.0	T 0.105	0.0	0.0	0.0	0.0	0.0
12	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0
14	0.056	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	T 0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	T 0.0	0.019	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0
18	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.021	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.001	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	0.018	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
25	0.070	0.0	0.0	0.005	0.0	0.003	0.0	0.0	T 0.0	0.0	0.0	0.0
26	0.039	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	T 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	T 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	T 0.0	0.0
MEAN	0.0057	0.0025	0.0011	0.0004	0.0	0.0031	0.0041	0.0001	0.0	0.0	0.0	0.0003
INCHES	1.586	0.642	0.290	0.110	0.004	0.029	1.117	0.015	0.001	0.0	0.0	0.089
STA AV	0.151	0.189	0.159	0.095	0.048	0.150	0.147	0.059	0.051	0.015	0.011	0.045

NOTES: To convert CFS to IN/DAY, multiply by 8.7829. STA AV values are based on 38 yr (1938-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 129												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 16, 1976												
7-16	RG 000109 0.03	0.0	7-16	1530	0.0	0.0	7-16	1534	0.0	0.0		
				1540	2.7599	0.46		1535	0.006	0.0000		
				1544	0.6001	0.50		1539	0.265	0.0033		
				1600	0.0375	0.51		1541	0.764	0.0096		
								1543	1.580	0.0239		
WATERSHED CONDITIONS: Badly tramped grass pasture, very sparse growth.									1544	1.930	0.0346	
								1546	1.930	0.0582		
								1549	1.620	0.0906		
								1551	1.203	0.1078		
								1554	0.620	0.1263		
								1558	0.438	0.1417		
								1603	0.209	0.1515		
								1612	0.067	0.1591		
								1620	0.025	0.1613		
								1626	0.012	0.1620		
								1635	0.006	0.1625		
								1733	0.0	0.1630		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.36609003.





EVENT OF JULY 16, 1976  
COSHOCTON, OHIO WATERSHED 129

COSHOCTON, OHIO WATERSHED 135

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Manskingum River Basin. Lat. 40 deg. 22 min. 20 sec. N.; Long. 81 deg. 47 min. 48 sec. W.

AREA: 2.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 135	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06	32.96
	Q	0.034	0.303	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0	0.498
STA AV	P	2.66	2.42	3.50	3.41	3.74	3.92	4.23	3.02	2.66	2.11	2.41	2.34	36.43
	Q	0.040	0.126	0.105	0.034	0.016	0.095	0.069	0.036	0.036	0.035	0.001	0.010	0.601

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge Date	1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	Maximum Volume for Selected Time Interval											
					6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.		
1976	7-11	0.453	7-11	0.149	2-10	0.225	2-10	0.303	2-10	0.393	2-9	0.303	2-8	0.303	2-2	0.303

MAXIMOMS FOR PERIOD OF RECORD															
Maximum Discharge Date	1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.	
6-12 1957	2.380	6-12 1957	0.920	9-1 1950	0.940	3-4 1963	1.550	3-4 1963	2.190	3-4 1963	2.510	3-3 1963	3.060	3-3 1963	3.070

NOTES: Watershed conditions: Cover of improved pasture. For map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.4-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1370, pp. 26.4-1 and 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April 1938. Runoff measurement discontinued Dec. 1969 to March 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 135	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02S	0.0	0.12M	0.09	0.78	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0		
2	0.16	0.0 T	0.11	0.09M	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.15	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
4	0.0	0.0	0.68	0.05M	0.0	0.0	0.0	0.0	0.08	0.0	0.0 T	0.0		
5	0.0	0.65M	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.50	0.0	0.07	0.0	0.43		
7	0.51S	0.0	0.0	0.0	0.06	0.0	0.11	0.90	0.0	0.0 T	0.0 T	0.14		
8	0.11S	0.03S	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.49	0.49	0.0 T	0.0		
10	0.0	0.0	0.29	0.0	0.0	0.0	0.30	0.0	0.0 T	0.0	0.02	0.0		
11	0.08M	0.0	0.0	0.02	0.04	0.26	1.77	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0 T	0.0		
13	0.46	0.0	0.02S	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0		
15	0.0	0.02	0.0	0.0	0.06	0.0	0.31	0.59	0.0	0.0 T	0.0	0.0		
16	0.08S	0.24	0.29S	0.0	0.54	0.35	0.54	0.0	0.29	0.0	0.0	0.0 T		
17	0.0	0.22	0.0	0.0	0.21	0.0	0.0	0.0	0.24	0.0	0.0	0.0		
18	0.0	1.12	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01S	0.0	0.0 T	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.15S	0.0	0.38	0.0	0.0	0.12	0.0	0.0	0.30	0.54	0.0	0.18M		
21	0.05S	0.39	0.71	0.86	0.0	0.0	0.08	0.0	0.0	0.0 T	0.04S	0.03S		
22	0.01S	0.10M	0.0	0.23	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0 T	0.0		
23	0.0	0.31S	0.0	0.0	0.0	0.02	0.25	0.0	0.0	0.19	0.0	0.0 T		
24	0.0	0.0	0.0	0.0	0.0	1.33	0.05	0.0	0.0	0.61	0.05M	0.0		
25	0.44	0.0	0.08	0.64	0.0 T	0.28	0.0	0.41	0.0	0.0 T	0.0	0.12SZ		
26	0.30M	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.17	0.36	0.0	0.13	0.11SZ		
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.04	0.0	0.15	0.0 T	0.07	0.02S		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.13	0.0	0.0	0.25S	0.0 T		
29	0.01S	0.0	0.0 T	0.0	0.0	0.17	0.11	0.0	0.0	0.0	0.04S	0.02S		
30	0.09S	0.0	0.01	0.0	0.0	0.39	0.02	0.0	0.04	0.34	0.0	0.01S		
31	0.0	0.0	0.57	0.0	0.56	0.0	0.06	0.0	0.0	0.32	0.0	0.0		
TOTAL	2.61	2.85	3.84	2.01	2.07	4.72	5.13	3.56	1.95	2.56	0.60	1.06		
STA AV	2.66	2.42	3.50	3.41	3.74	3.92	4.23	3.02	2.66	2.11	2.41	2.34		

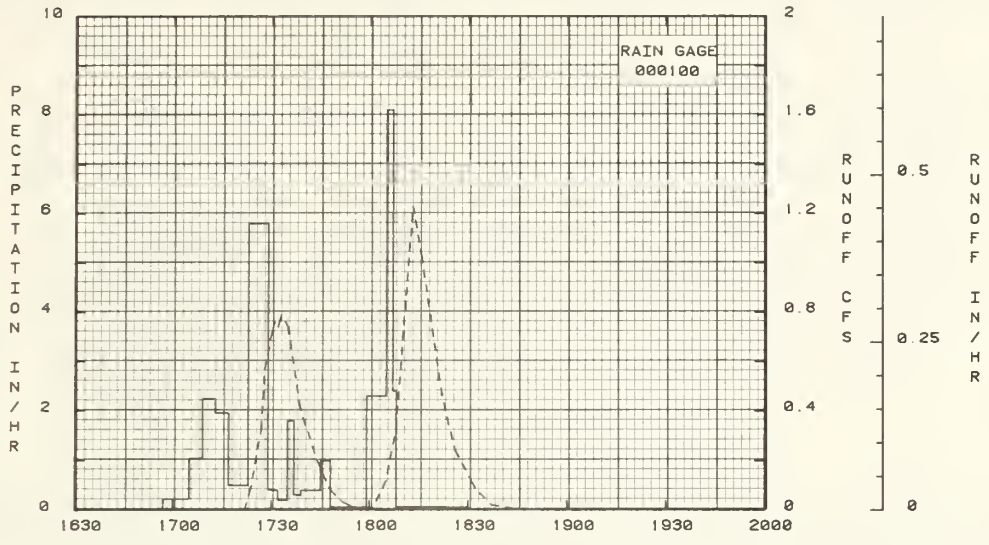
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 100. STA AV values are based on 38 yr (1938-76) record period, part-year records included (Gage 100 discontinued June 1972 to March 1974). Code 'R' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates accurately measured total for series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 135												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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	0.034	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	0.018	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	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.001	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	0.0012	0.0	0.0	0.0	0.0	0.0006	0.0	0.0	0.0	0.0	0.0
INCHES	0.034	0.303	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0
STA AV	0.040	0.126	0.105	0.034	0.016	0.095	0.069	0.036	0.036	0.035	0.001	0.010

NOTES: To convert CFS to IN/DAY, multiply by 8.8483. STA AV values are based on 35 yr (1938-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 135												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 11, 1976												
7-11	0.0	0.0	7-11	1657	0.0	0.0	7-11	1722	0.0	0.0		
				1705	0.2250	0.03		1724	0.099	0.0006		
				1709	1.0499	0.13		1727	0.328	0.0045		
				1713	2.2501	0.25		1728	0.566	0.0073		
				1717	1.9498	0.38		1730	0.712	0.0151		
				1723	0.5000	0.43		1731	0.764	0.0197		
				1729	5.8090	1.01		1732	0.738	0.0243		
				1732	0.4001	1.03		1733	0.792	0.0290		
				1735	0.1999	1.04		1735	0.738	0.0384		
				1737	1.7999	1.10		1739	0.400	0.0524		
				1739	0.3003	1.11		1744	0.196	0.0615		
				1745	0.3999	1.15		1748	0.082	0.0650		
				1748	1.0001	1.20		1752	0.030	0.0663		
				1759	0.0545	1.21		1755	0.009	0.0667		
				1805	2.3001	1.44		1758	0.006	0.0668		
				1807	8.1020	1.71		1801	0.006	0.0669		
				1808	2.3984	1.75		1805	0.118	0.0685		
				1830	0.0545	1.77		1808	0.328	0.0726		
								1810	0.686	0.0788		
								1813	1.230	0.0965		
								1816	0.998	0.1170		
								1818	0.820	0.1282		
								1822	0.458	0.1439		
								1826	0.236	0.1524		
								1832	0.090	0.1584		
								1837	0.025	0.1602		
								1842	0.006	0.1637		
								1847	0.0	0.1608		
								1852	0.0	0.1698		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.3686800.



11  
EVENT OF JULY 11, 1976  
COSHOCTON, OHIO WATERSHED 135



COSHOCTON, OHIO WATERSHED 123

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 23 sec. N.; Long. 81 deg. 47 min. 20 sec. W.

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	2.60	2.80	3.76	2.23	2.09	4.87	5.06	3.47	1.98	2.64	0.57	1.05	33.12	P	2.71	2.44	3.50	3.50	3.77	4.13	4.29	3.03	2.70	2.28	2.61	2.47	37.42	
	Q	1.083	1.273	0.545	0.0	0.0	0.0	0.230	0.0	0.0	0.0	0.0	0.0	3.131	Q	0.377	0.414	0.450	0.250	0.128	0.243	0.191	0.109	0.058	0.026	0.058	0.160	2.475	
STA AV														STA AV															
1976	P	2.71	2.44	3.50	3.50	3.77	4.13	4.29	3.03	2.70	2.28	2.61	2.47	37.42	P	2.71	2.44	3.50	3.50	3.77	4.13	4.29	3.03	2.70	2.28	2.61	2.47	37.42	
	Q	0.377	0.414	0.450	0.250	0.128	0.243	0.191	0.109	0.058	0.026	0.058	0.160	2.475	Q	0.377	0.414	0.450	0.250	0.128	0.243	0.191	0.109	0.058	0.026	0.058	0.160	2.475	

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

1976	Maximum Discharge Date	Rate	Maximum Volume for Selected Time Interval													
			1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1976	7-11	0.573	3-4	0.200	2-11	0.281	2-18	0.493	2-10	0.553	2-17	0.666	2-16	0.666	2-10	1.076

MAXIMUMS FOR PERIOD OF RECORD

6-12 1957	5.970	6-12 1957	1.370	6-12 1957	1.480	7-5 1969	2.054	7-5 1969	2.131	1-21 1959	2.330	1-21 1959	2.330	3-4 1964	2.660
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NOTES: Watershed conditions: meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, 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 Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY AIR TEMPERATURE (degrees F)														COSHOCTON, OHIO WATERSHED 123													
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	32	29	34	2	62	40	42	35	59	50	67	59	70	58	71	56	71	58	69	49	45	31	33	15			
2	39	29	12	-2	66	54	40	34	68	47	68	54	76	55	72	54	69	54	70	55	49	30	29	1			
3	39	18	30	4	72	57	63	32	47	38	73	54	76	60	75	54	74	51	71	50	49	36	20	-5			
4	18	7	32	24	75	54	56	25	57	37	75	55	73	56	76	58	74	59	74	52	38	29	28	20			
5	17	4	24	20	67	30	57	34	75	47	73	54	74	58	78	61	66	55	76	52	38	30	31	15			
6	34	9	21	12	39	29	62	38	72	59	75	51	81	63	70	61	70	50	64	51	46	30	41	22			
7	36	20	24	7	41	28	59	39	59	40	83	58	75	62	62	56	78	52	54	49	41	31	37	15			
8	20	-1	31	22	37	21	43	29	55	37	84	60	76	62	65	56	83	56	53	47	31	23	23	15			
9	6	-5	36	16	38	30	47	27	67	35	86	66	78	57	70	56	82	59	49	42	49	23	32	15			
10	19	0	54	36	49	28	60	29	72	51	85	63	81	60	79	57	63	51	55	40	45	34	47	29			
11	33	19	54	29	44	29	51	32	67	42	85	63	88	69	80	60	75	45	59	47	36	31	40	23			
12	25	21	50	24	59	32	48	24	62	36	86	67	72	60	81	67	79	54	67	42	35	25	38	27			
13	45	23	52	30	52	28	60	31	76	44	86	64	74	56	78	67	82	57	73	50	40	22	29	15			
14	32	21	40	23	45	25	70	40	74	65	85	65	83	56	76	60	78	61	60	41	39	23	43	15			
15	29	16	60	32	46	33	77	54	74	65	83	69	87	66	69	61	70	60	71	46	42	28	46	32			
16	32	16	59	47	35	22	79	60	67	57	77	61	77	61	72	55	65	59	54	39	45	22	41	29			
17	16	5	61	42	25	17	80	59	65	47	75	59	71	58	76	51	66	62	47	35	52	22	35	29			
18	16	1	56	40	51	23	82	61	51	42	84	59	77	54	79	60	74	59	50	33	45	33	40	26			
19	33	5	48	34	59	47	80	59	59	37	74	60	79	58	81	61	76	55	57	35	52	31	57	30			
20	32	18	53	33	73	52	81	57	77	49	65	56	81	62	79	62	68	60	47	39	44	22	51	21			
21	23	15	58	39	55	32	72	56	70	53	68	59	78	68	82	60	61	45	44	34	38	23	20	12			
22	21	11	52	25	41	22	66	53	65	47	76	60	78	68	84	65	61	37	43	29	30	22	25	10			
23	35	9	34	22	55	28	65	50	63	41	79	62	83	70	86	65	75	47	46	24	29	18	29	9			
24	42	23	61	30	66	42	80	48	65	43	69	64	79	62	85	65	62	45	52	39	30	20	24	4			
25	48	21	63	45	61	47	63	39	59	45	75	64	75	58	85	70	67	45	52	40	51	23	32	24			
26	50	30	60	46	72	43	39	35	63	43	80	61	80	59	73	68	65	53	40	33	56	47	32	20			
27	30	20	62	36	63	43	42	34	70	48	84	63	81	64	80	69	65	54	38	29	60	37	24	8			
28	27	17	54	44	55	40	51	35	71	53	81	65	83	64	80	68	57	47	41	23	39	19	29	18			
29	33	23	69	44	59	43	60	39	72	59	83	65	79	70	70	53	65	40	51	27	21	3	28	0			
30	30	21			77	54	64	39	76	56	73	62	78	67	69	48	62	51	47	34	19	1	18	2			
31	28	19			59	40			75	63			77	58	75	49			48	35				12	-6		
AV.	30	15	46	28	55	36	61	41	66	48	78	61	78	61	76	60	70	53	56	40	41	26	33	16			
MEAN	22.4		37.1		45.4		51.1		57.0		69.4		69.8		68.0		61.5		47.8		33.4		24.3				
STA AV	36	21	38	22	51	33	59	40	69	50	76	59	80	62	79	62	71	54	61	43	49	33	38	24			

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV values are based on 38 yr (1939-76) record period.

1976 DAILY PRECIPITATION (inches) COSHOCTON, OHIO WATERSHED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.01S	0.0	0.20M	0.06	0.71	0.0 T	0.01	0.0 T	0.0	0.0	0.0
2	0.14	0.0 T	0.15	0.06M	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.16	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
4	0.0	0.0	0.69	0.05M	0.0	0.0	0.0	0.0	0.10	0.0	0.0 T	0.0
5	0.0	0.52M	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
6	0.0	0.02S	0.0	0.0	0.24	0.0	0.0	0.48	0.0	0.08	0.0	0.43
7	0.56S	0.0	0.0	0.0	0.05	0.0	0.13	0.92	0.0	0.0 T	0.0 T	0.15
8	0.07S	0.05S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T
9	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.53	0.50	0.0 T	0.0
10	0.0	0.0	0.31	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.03	0.0
11	0.12M	0.0	0.0	0.03	0.03	0.42	1.61	0.0	0.0	0.0	0.0	0.0 T
12	0.0	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
13	0.45	0.0	0.02S	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0
15	0.0	0.02	0.0	0.0	0.04	0.0	0.45	0.56	0.0	0.0 T	0.0	0.0
16	0.10S	0.23	0.15S	0.0	0.62	0.35	0.46	0.0	0.29	0.0	0.0	0.0 T
17	0.0	0.23	0.0	0.0	0.20	0.0	0.0	0.0	0.21	0.0	0.0	0.0
18	0.0	1.15	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0 T	0.0	0.0 T	0.0	0.0	0.99	0.0	0.0	0.0	0.0	0.0	0.0
20	0.11S	0.0	0.33	0.0	0.0	0.10	0.0	0.0	0.29	0.56	0.0	0.18M
21	0.06S	0.37	0.71	0.95	0.0	0.0	0.06	0.0	0.0	0.0 T	0.05S	0.02S
22	0.01S	0.08M	0.0	0.24	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0 T	0.0
23	0.0	0.02S	0.0	0.0	0.0	0.03	0.27	0.0	0.0	0.20	0.0	0.0 T
24	0.0	0.0	0.0	0.0	0.0	1.42	0.03	0.0	0.0	0.63	0.04M	0.0
25	0.44	0.0	0.07	0.70	0.0 T	0.31	0.0	0.40	0.0	0.0 T	0.0	0.11SZ
26	0.31M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.15	0.36	0.0	0.12	0.11SZ
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.04	0.0	0.16	0.0 T	0.06	0.01SZ
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.10	0.0	0.0	0.18S	0.01SZ
29	0.01S	0.0	0.0 T	0.0	0.0	0.09	0.14	0.0	0.0	0.0	0.09S	0.02SZ
30	0.06S	0.0	0.0 T	0.0	0.0	0.44	0.0 T	0.0	0.04	0.35	0.0	0.01SZ
31	0.0	0.55	0.0	0.60	0.0	0.0	0.11	0.0	0.0	0.32	0.0	0.0
TOTAL	2.60	2.80	3.76	2.23	2.09	4.87	5.06	3.47	1.98	2.64	0.57	1.05
STA AV	2.71	2.44	3.50	3.50	3.77	4.13	4.29	3.03	2.70	2.28	2.61	2.47

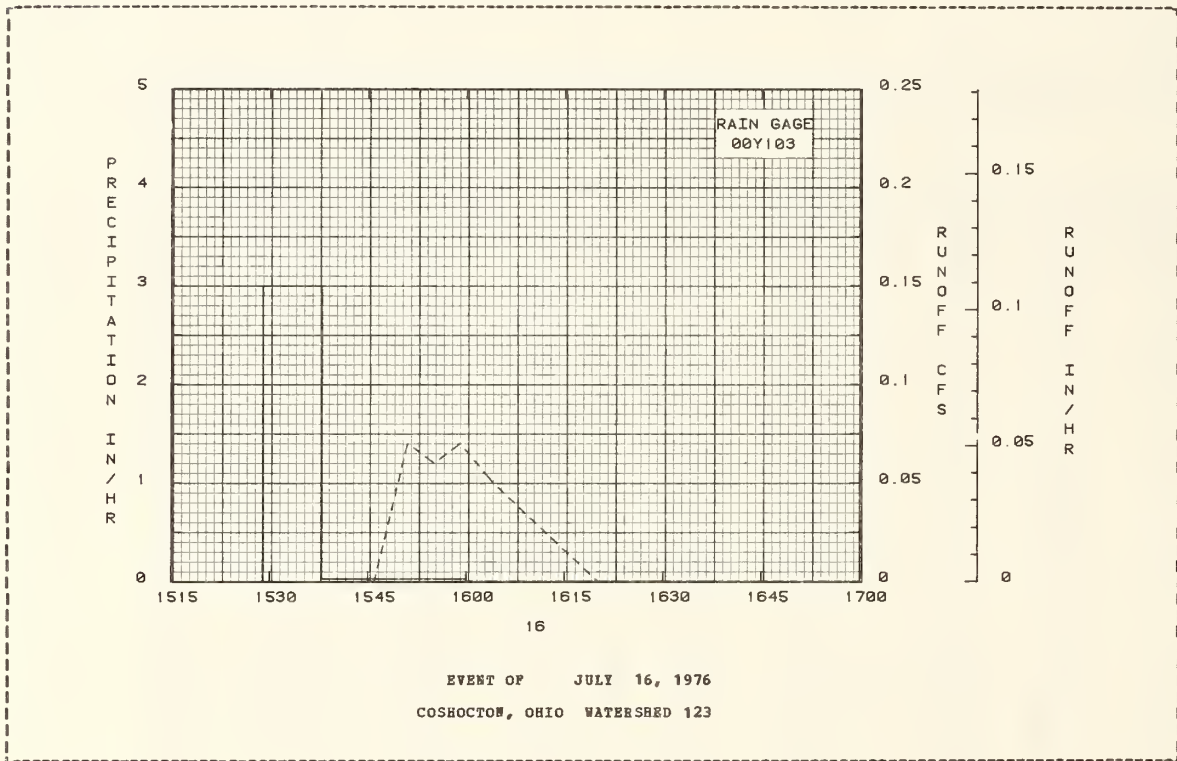
NOTES: Precipitation amounts are for rain gage Y103. STA AV values are based on 38 yr (1939-76) record period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.015	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	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.003	0.0	0.0	0.0	0.0	0.012	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	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.010	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	0.001	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	0.038	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 T	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.002	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	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.010	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	0.0020	0.0025	0.0010	0.0	0.0	0.0	0.0004	0.0	0.0	0.0	0.0	0.0
INCHES	1.083	1.273	0.545	0.0	0.0	0.0	0.230	0.0	0.0	0.0	0.0	0.0
STA AV	0.387	0.414	0.450	0.250	0.128	0.243	0.191	0.109	0.058	0.026	0.058	0.160

NOTES: To convert CFS to IN/DAY, multiply by 17.3735. STA AV values are based on 38 yr (1939-76) record period.

1976 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 123							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 16, 1976										
7-16	RG 00Y103 0.0	0.0	7-16	1529	0.0	0.0	7-16	1539	0.0	0.0
				1533	3.0002	0.20		1546	0.002	0.0001
				1537	3.0000	0.40		1551	0.070	0.0024
				1538	3.0002	0.45		1555	0.060	0.0056
				1600	0.0273	0.46		1559	0.074	0.0088
WATERSHED CONDITIONS: Field of alfalfa and orchardgrass.								1604	0.046	0.0124
							1620	0.002	0.0171	
							1715	0.0	0.0177	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.72389000.



COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 11 sec. N.; Long. 81 deg. 47 min. 39 sec. W.

AREA: 1.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 109														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1976	P	2.23	2.75	3.76	2.28	2.08	4.86	4.97	3.49	1.86	2.57	0.49	1.11	32.45														
	Q	0.732	0.368	0.004	0.0	0.0	0.0	0.207	0.0	0.0	0.0	0.0	0.0	1.331														
STA AV	P	2.60	2.29	3.42	3.43	3.76	4.10	4.30	2.96	2.71	2.22	2.53	2.36	36.68														
	Q	0.079	0.177	0.107	0.045	0.084	0.247	0.267	0.142	0.043	0.010	0.091	0.017	1.218														

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		7-11	0.577	7-11	0.187	7-11	0.195	2-10	0.339	2-10	0.375	1-24	0.429	1-24	0.646	1-18	0.721
MAXIMUMS FOR PERIOD OF RECORD																	
		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	2.560
		1941		1941		1940		1969		1963		1963		1963		1963	

NOTES: Watershed conditions: Meadow with a stand of orchardgrass and alfalfa. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage Y102. Precipitation and runoff records began Nov. 1936. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 109													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.01S	0.0	0.20M	0.09	0.78	0.0 T	3.0 T	0.0 T	0.0	0.0	0.0															
2	0.15	0.0 T	0.10	0.10M	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
3	0.16	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
4	0.0	0.0	0.71	0.05M	0.0	0.0	0.0	0.0	0.07	0.0	0.0 T	0.0															
5	0.0	0.54M	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0															
6	0.0	0.33S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.38	0.0	0.42															
7	0.42S	0.0	0.0	0.0	0.06	0.0	0.11	0.81	0.0	0.0 T	0.0 T	0.16															
8	0.03S	0.37S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T															
9	0.0	0.0	0.03S	0.0	0.0	0.0	0.0	0.0	0.48	0.49	0.0 T	0.0															
10	0.0	0.0	0.28	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0 T	0.0															
11	0.06M	0.0	0.0	0.02	0.04	0.30	1.72	0.0	0.0	0.0	0.0	0.0 T															
12	0.0	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0															
13	0.47	0.0	0.03S	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0															
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0															
15	0.0	0.33	0.0	0.0	0.05	0.0	0.35	0.58	0.0	0.0 T	0.0	0.0															
16	0.08S	0.21	0.06S	0.0	0.57	0.35	0.51	0.0	0.23	0.0	0.0	0.0 T															
17	0.0	0.21	0.0	0.0	0.17	0.0	0.0	0.0	0.23	0.0	0.0	0.0															
18	0.0	1.16E	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
19	0.01S	0.0	0.0 T	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0															
20	0.10S	0.0	0.37	0.0	0.0	0.11	0.0	0.0	0.30	0.55	0.0	0.23M															
21	0.03S	0.39	0.71	0.95	0.0	0.0	0.08	0.0	0.0	0.0 T	0.06S	0.02S															
22	0.01S	0.39M	0.0	0.25	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0 T	0.0															
23	0.0	0.01S	0.0	0.0	0.0	0.03	0.29	0.0	0.0	0.20	0.0	0.0 T															
24	0.0	0.0	0.0	0.0	0.0	1.35	0.01	0.0	0.0	0.58	0.05M	0.0															
25	0.39	0.0	0.09	0.71	0.0 T	0.34	0.0	0.41	0.0	0.0 T	0.0	0.12SZ															
26	3.28M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.16	0.35	0.0	0.12	0.11SZ															
27	0.0	0.0 T	0.24	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.11	0.01SZ															
28	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.15	0.0	0.0	0.13S	0.01SZ															
29	0.01S	0.0	0.0 T	0.0	0.0	0.15	0.10	0.0	0.0	0.0	0.02S	0.02SZ															
30	0.04S	0.0	0.0 T	0.0	0.0	0.41	0.0 T	0.0	0.04	0.31	0.0	0.01SZ															
31	0.0	0.0	0.55	0.60	0.0	0.0	0.10	0.0	0.0	0.36	0.0	0.0															
TOTAL	2.23	2.75	3.76	2.28	2.08	4.86	4.97	3.49	1.86	2.57	0.49	1.11															
STA AV	2.60	2.29	3.42	3.43	3.76	4.10	4.30	2.96	2.71	2.22	2.53	2.36															

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y102. STA AV values are based on 39 yr (1938-76) record period, part-year records included. Codes 'B' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates that an accurately measured total for a series of days has been divided equally among coded days.

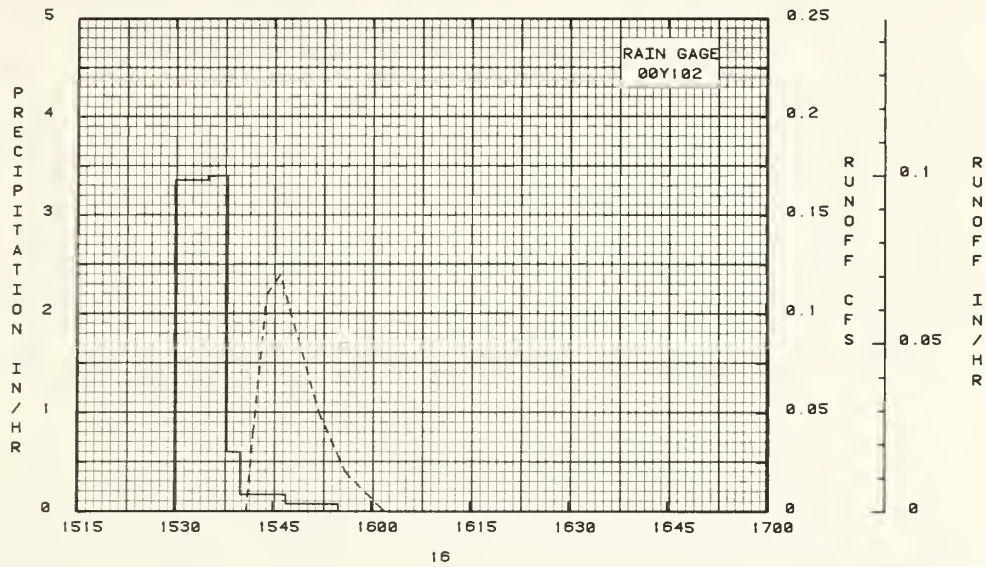


1976		MEAN DAILY DISCHARGE (cfs)						COSHOCTON, OHIO WATERSHED 109					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.027	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	0.014	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	0.009	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	T	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	0.001	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
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	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.012	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	0.0017	0.0010	0.0	0.0	0.0	0.0	0.0095	0.0	0.0	0.0	0.0	0.0	
INCHES	0.732	0.388	0.004	0.0	0.0	0.0	0.207	0.0	0.0	0.0	0.0	0.0	
STA AV	0.079	0.177	0.107	0.045	0.084	0.247	0.267	0.142	0.043	0.010	0.001	0.017	

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV values are based on 39 yr (1936-76) record period, part-year records included.

1976			SELECTED RUNOFF EVENT						COSHOCTON, OHIO WATERSHED 109			
ANTECEDENT CONDITIONS			RAINFALL						RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 16, 1976												
7-16	RG 00Y102	0.0	7-16	RG 00Y102	1530	0.0	0.0	7-16	1541	0.0	0.0	
	0.01			1535	3.3602	0.26		1542	0.035	0.0002		
				1538	3.4000	0.45		1544	0.113	0.0016		
				1540	0.5997	0.47		1546	0.123	0.0039		
				1547	0.1715	0.49		1552	0.047	0.0089		
				1555	0.0750	0.59		1556	0.023	0.0103		
								1602	0.004	0.0111		
								1608	0.362	0.0113		
								1653	0.0	0.0115		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.58683000.



16  
 EVENT OF JULY 16, 1976  
 COSHOCTON, OHIO WATERSHED 109

COSHOCTON, OHIO WATERSHED 110

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin. Lat. 40 deg. 21 min. 54 sec. N.; Long. 81 deg. 47 min. 42 sec. W.

AREA: 1.27 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 110															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	33.17															
	Q	0.574	0.545	0.060	0.005	0.002	0.007	0.110	0.003	0.0	0.0	0.0	0.0	1.307															
STA AV	P	2.60	2.22	3.30	3.31	3.59	3.91	4.13	2.88	2.68	2.14	2.46	2.32	35.55															
	Q	0.231	0.238	0.344	0.130	0.104	0.313	0.273	0.094	0.128	0.028	0.016	0.080	1.979															

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.						
1976	3-21 0.092	2-18 0.083	2-18 0.125	1-25 0.261	1-25 0.433	1-25 0.563	1-24 0.568	1-18 0.568						

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	7-28 1950	4.440	9- 1 1950	2.240	9- 1 1950	3.160	9- 1 1950	3.190	9- 1 1950	3.190	9- 1 1950	3.200	3- 3 1963	4.120
													3- 1 1963	5.050

NOTES: Watershed conditions: Pasture with cover of orchardgrass. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.14-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.15-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Apr. 1939. Runoff measurements discontinued March 1970 to March 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 110													
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	0.02S	0.0	0.21M	0.09	0.83	0.0 I	0.0 T	0.0 T	0.0	0.0	0.0	1	0.0	0.02S	0.0	0.21M	0.09	0.83	0.0 I	0.0 T	0.0	0.0				
2	0.14	0.0 T	0.07	0.07M	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.14	0.0 T	0.07	0.07M	0.25	0.0	0.0	0.0	0.0	0.0				
3	0.16	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.16	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T				
4	0.0	0.0	0.62	0.05M	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	4	0.0	0.0	0.62	0.05M	0.0	0.0	0.0	0.04	0.0	0.0 T				
5	0.0	0.51M	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	5	0.0	0.51M	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T				
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.06	0.0	0.43	6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.06				
7	0.45S	0.0	0.0	0.0	0.06	0.0	0.08	0.81	0.0	0.0 T	0.0 T	0.15	7	0.45S	0.0	0.0	0.0	0.06	0.0	0.0	0.81	0.0	0.0 T				
8	0.08S	0.03S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T	8	0.08S	0.03S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0				
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.56	0.50	0.0 T	0.0	9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.56	0.50				
10	0.0	0.0	0.29	0.0	0.0	0.0	0.31	0.0	0.02	0.0	0.01	0.0	10	0.0	0.0	0.29	0.0	0.0	0.0	0.31	0.0	0.02	0.0				
11	0.12M	0.0	0.0	0.03	0.04	0.24	1.86	0.0	0.0	0.0	0.0	0.0 T	11	0.12M	0.0	0.0	0.03	0.04	0.24	1.86	0.0	0.0	0.0				
12	0.0	0.0 T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	12	0.0	0.0 T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
13	0.49	0.0	0.02S	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	13	0.49	0.0	0.02S	0.0	0.0	0.0	0.0	0.59	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0				
15	0.0	0.02	0.0	0.0	0.06	0.0	0.22	0.58	0.0	0.0 T	0.0	0.0	15	0.0	0.02	0.0	0.0	0.06	0.0	0.22	0.58	0.0	0.0 T				
16	0.07S	0.21	0.16S	0.0	0.61	0.34	0.49	0.0	0.23	0.0	0.0	0.0 T	16	0.07S	0.21	0.16S	0.0	0.61	0.34	0.49	0.0	0.23	0.0				
17	0.0	0.23	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0	17	0.0	0.23	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0				
18	0.0	1.18	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	1.18	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0				
19	0.01S	0.0	0.0 T	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	19	0.01S	0.0	0.0 T	0.0	0.0	1.01	0.0	0.0	0.0	0.0				
20	0.06S	0.0	0.34	0.0	0.0	0.11	0.0	0.0	0.31	0.56	0.0	0.16M	20	0.06S	0.0	0.34	0.0	0.0	0.11	0.0	0.0	0.31	0.56				
21	0.04S	0.38	0.72	0.96	0.0	0.0	0.05	0.0	0.0	0.0 T	0.05S	0.01S	21	0.04S	0.38	0.72	0.96	0.0	0.0	0.05	0.0	0.0	0.05S				
22	0.01S	0.09M	0.0	0.22	0.0	0.01	0.01	0.0	0.0	0.0	0.0 T	0.0	22	0.01S	0.09M	0.0	0.22	0.0	0.01	0.01	0.0	0.0	0.0				
23	0.0	0.01S	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.20	0.0	0.0 T	23	0.0	0.01S	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.20				
24	0.0	0.0	0.0	0.0	0.0	1.45	0.06	0.0	0.0	0.60	0.05M	0.0	24	0.0	0.0	0.0	0.0	0.0	1.45	0.06	0.0	0.0	0.60				
25	0.42	0.0	0.08	0.74	0.0 T	0.47	0.0	0.39	0.0	0.0 T	0.0	0.13SZ	25	0.42	0.0	0.08	0.74	0.0 T	0.47	0.0	0.39	0.0	0.0				
26	0.30M	0.0	0.01	0.0	0.0	0.0	0.0	0.17	0.35	0.0	0.17	0.12SZ	26	0.30M	0.0	0.01	0.0	0.0	0.0	0.0	0.17	0.35	0.0				
27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.02	0.0	0.15	0.0 T	0.06	0.01S	27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.02	0.0	0.15	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.17S	0.0 T	28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.17	0.0	0.0				
29	0.02S	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.0	0.11S	0.02S	29	0.02S	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.0				
30	0.06S	0.0	0.02	0.0	0.0	0.42	0.01	0.0	0.02	0.35	0.0	0.01S	30	0.06S	0.0	0.02	0.0	0.0	0.42	0.01	0.0	0.02	0.35				
31	0.0	0.0	0.53	0.0	0.65	0.0	0.12	0.0	0.0	0.30	0.0	0.0	31	0.0	0.0	0.53	0.0	0.65	0.0	0.12	0.0	0.0	0.0				
TOTAL	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	TOTAL	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04		
STA AV	2.60	2.22	3.30	3.31	3.59	3.91	4.13	2.88	2.68	2.14	2.46	2.32	STA AV	2.60	2.22	3.30	3.31	3.59	3.91	4.13	2.88	2.68	2.14	2.46	2.32		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV values are based on 38 yr (1939-76) record period, part-year records included. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

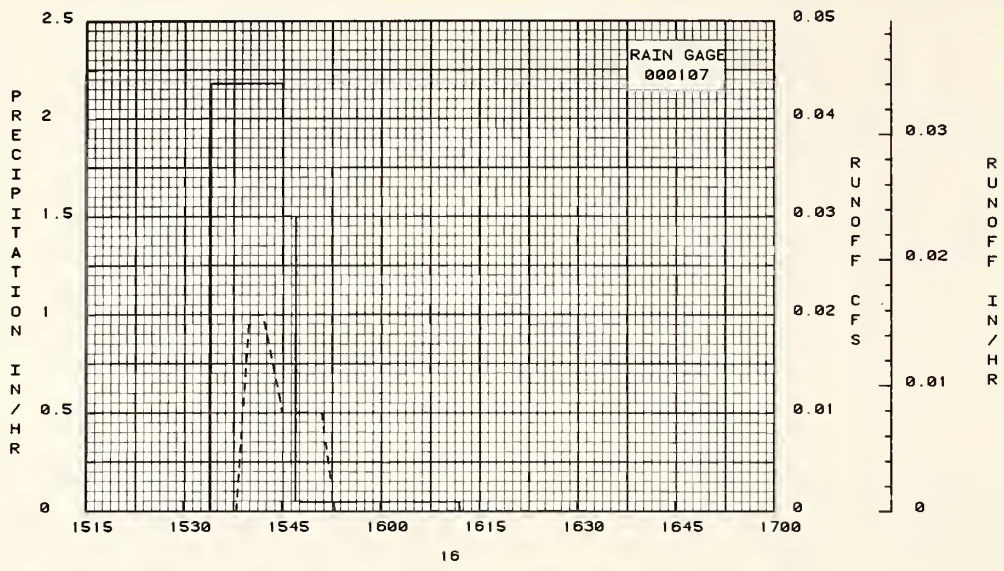
1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 110												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.001	0.0	0.0	0.0	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 T	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	0.014	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.005	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 T	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 T	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 T	0.0	0.0	0.0 T	0.0	0.0 T	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	0.014	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	0.002	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	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 T	0.0	0.0	0.0	0.0	0.0	0.0
25	0.013	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
26	0.017	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	0.0010	0.0010	0.0001	0.0	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0
INCHES	0.574	0.545	0.060	0.005	0.002	0.007	0.110	0.003	0.0	0.0	0.0	0.0
STA AV	0.231	0.238	0.344	0.130	0.104	0.313	0.273	0.094	0.126	0.028	0.016	0.080

NOTES: To convert CFS to IN/DAY, multiply by 18.7415. STA AV values are based on 34 yr (1939-March 1970, March 1974-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 110												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF JULY 16, 1976												
7-16	RG 000107 0.02	0.0	7-16	EG 000107 1534	0.0	0.0	7-16	1538	0.0	0.0		
				1545	2.1818	0.40		1539	0.012	0.0001		
				1547	1.5001	0.45		1540	0.020	0.0003		
				1612	0.0480	0.47		1542	0.025	0.0009		
								1545	0.012	0.0016		
								1549	0.009	0.0021		
								1551	0.006	0.0023		
								1553	0.004	0.0025		
								1600	0.002	0.0027		
								1651	0.0	0.0034		
WATERSHED CONDITIONS:												
Pasture with cover of orchardgrass.												

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.75090000.





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EVENT OF JULY 16, 1976  
COSHOCKTON, OHIO WATERSHED 110

COSHOCTON, OHIO WATERSHED 121

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin. Lat. 40 deg. 21 min. 39 sec. N.; long. 81 deg. 48 min. 02 sec. W.

AREA: 1.42 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 121																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																
1976	P	2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	0.50	1.00	32.27																
	Q	1.247	0.581	0.071	0.0	0.0	0.0	0.055	0.000	0.0	0.0	0.0	0.250	2.304																
STA AV	P	2.58	2.15	3.20	3.23	3.63	3.94	4.24	2.90	2.72	2.15	2.42	2.27	35.43																
	Q	0.249	0.241	0.322	0.166	0.060	0.199	0.202	0.110	0.071	0.017	0.011	0.049	1.697																
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	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date	Date	Date	Date	Date	Date	Date													
1976		7-11	0.349	2-10	0.177	2-10	0.313	1-13	0.547	1-13	0.503	1-13	0.620	1-12	0.620	1-18	0.622													
MAXIMUMS FOR PERIOD OF RECORD																														
		8-23	7.820	9- 1	1.320	9- 1	1.390	9- 1	1.390	9- 1	1.390	9- 1	1.390	3- 3	1.660	3- 1	1.870													
		1944		1950		1950		1950		1950		1950		1963		1963														

NOTES: Watershed conditions: Meadow and pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.19-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation and runoff records began Apr. 1939. Runoff measurements discontinued March 1970 to April 6, 1972 and Nov. 1972 to April 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 121													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.01S	0.0	0.19M	0.07	0.79	0.0 T	0.01	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	0.0	0.0	0.0	0.0		
2	0.16	0.0 T	0.07	0.06M	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	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.13	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	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	0.59	0.05M	0.0	0.0	0.0	0.0	0.0	0.02	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	0.0		
5	0.0	0.50M	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	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.02S	0.0	0.0	0.22	0.0	0.0	0.47	0.0	0.09	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45		
7	0.36S	0.0	0.0	0.0	0.04	0.0	0.16	0.79	0.0	0.0 T	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		
8	0.06S	0.01S	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.55	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	0.0		
10	0.0	0.0	0.32	0.0	0.0	0.0	0.31	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		
11	0.10M	0.0	0.0	0.02	0.04	0.30	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	0.0	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	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	0.0	0.0	0.0	0.0		
13	0.51	0.0	0.02S	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	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	0.42	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		
15	0.0	0.03	0.0	0.0	0.06	0.0	0.07	0.62	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	0.0	0.0	0.0		
16	0.07S	0.19	0.06S	0.0	0.59	0.35	0.43	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 T		
17	0.0	0.24	0.0	0.0	0.18	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	0.0	0.0	0.0		
18	0.0	1.15	0.0 T	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	0.0	0.0		
19	0.01S	0.0	0.0 T	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0	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	0.08S	0.0	0.35	0.0	0.0	0.05	0.0	0.0	0.29	0.55	0.0	0.19M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19M		
21	0.02S	0.38	0.70	0.95	0.0	0.0	0.08	0.0	0.0	0.0 T	0.06S	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S		
22	0.01S	0.10M	0.0	0.22	0.0	0.03	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		
23	0.0	0.01S	0.0	0.0	0.0	0.0	0.37	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 T		
24	0.0	0.0	0.0	0.0	0.0	1.35	0.01	0.0	0.0	0.55	0.05M	0.0	0.0	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	0.39	0.0	0.07	0.68	0.0 T	0.41	0.0	0.35	0.0	0.0 T	0.0	0.07SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07SZ		
26	0.30M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.17	0.34	0.0	0.09	0.08SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08SZ		
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0	0.0	0.01SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01SZ		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.19	0.0	0.0	0.15S	0.01SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01SZ		
29	0.01S	0.0	0.0 T	0.0	0.0	0.21	0.10	0.0	0.0	0.0	0.07S	0.02SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02SZ		
30	0.05S	0.0	0.0 T	0.0	0.0	0.35	0.01	0.0	0.05	0.32	0.0	0.01SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01SZ		
31	0.0	0.0	0.57	0.0	0.61	0.0	0.10	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	0.0	0.0	0.0	0.0		
TOTAL		2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	1.00	32.27														
STA AV		2.58	2.15	3.20	3.23	3.63	3.94	4.24	2.90	2.72	2.15	2.42	2.27														

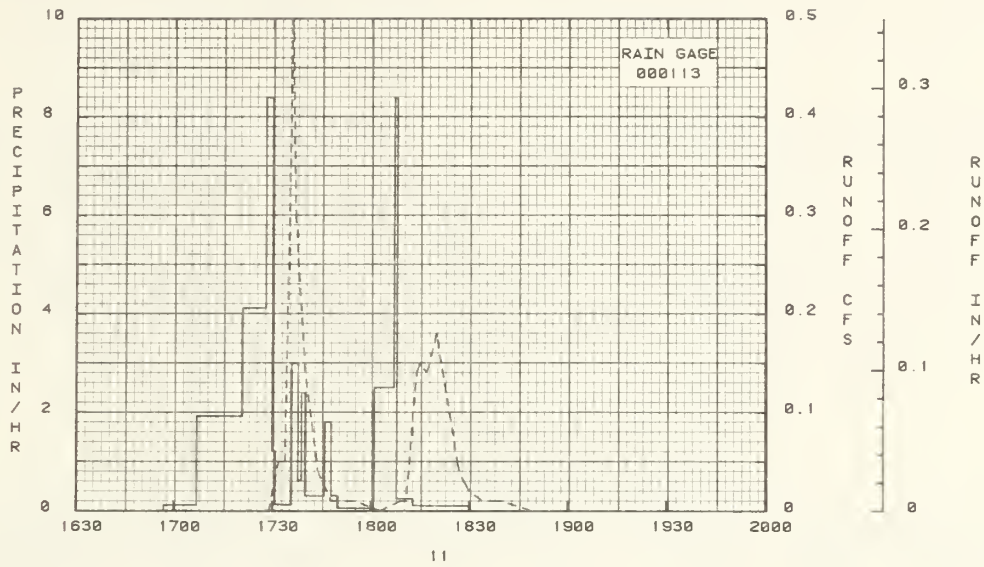
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 113. STA AV values are based on 38 yr record period, part-year records included. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days. Code 'E' may reflect estimated storm duration rather than estimated rainfall amounts.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 121												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	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
3	0.0	T 0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.003	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	0.008
7	0.0	0.0	0.0	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
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	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.001	0.0	0.0	0.0	0.0	0.003	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	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0
14	0.004	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	0.001	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0
17	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
18	0.0	0.009	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	T 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	0.001	0.002	0.0	0.0	0.0	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
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	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0
26	0.010	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	0.0024	0.0014	0.0001	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0005
INCHES	1.247	0.681	0.071	0.0	0.0	0.0	0.055	0.000	0.0	0.0	0.0	0.250
STA AV	0.246	0.241	0.322	0.166	0.060	0.199	0.202	0.110	0.071	0.017	0.011	0.049

NOTES: To convert CFS to IN/DAY, multiply by 16.7617. STA AV values are based on 36 yr (1939-March 1970, April 1972-Nov. 1972, April 1974-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 121												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 11, 1976												
7-11	RG 000113 0.0	0.0	7-11	RG 000113 1657	0.0	0.0	7-11	1713	0.0	0.0		
				1707	0.1200	0.02		1723	0.0	0.0		
				1721	1.9286	0.47		1729	0.004	0.0001		
				1728	4.1144	0.95		1732	0.046	0.0010		
				1730	8.3982	1.23		1733	0.053	0.0016		
				1731	1.2003	1.25		1734	0.046	0.0022		
				1736	0.1201	1.26		1736	0.500	0.0085		
				1738	2.9997	1.36		1737	0.296	0.0132		
				1739	0.6006	1.37		1740	0.138	0.0207		
				1740	2.3996	1.41		1744	0.035	0.0248		
				1746	0.3000	1.44		1748	0.012	0.0259		
				1748	1.7999	1.50		1750	0.012	0.0261		
				1750	0.3003	1.51		1755	0.006	0.0267		
				1801	0.0545	1.52		1803	0.004	0.0271		
				1807	2.5000	1.77		1809	0.006	0.0275		
				1808	8.3943	1.91		1811	0.009	0.0276		
				1813	0.2401	1.93		1813	0.099	0.0289		
				1830	0.1059	1.96		1814	0.138	0.0303		
								1815	0.149	0.0320		
								1817	0.138	0.0353		
								1818	0.149	0.0370		
								1820	0.184	0.0408		
								1827	0.041	0.0500		
								1830	0.025	0.0512		
								1834	0.012	0.0520		
								1840	0.006	0.0527		
								1849	0.004	0.0532		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.69841000.



11  
 EVENT OF JULY 11, 1976  
 COSHOCTON, OHIO WATERSHED 121



COSHOCTON, OHIO WATERSHED 106

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tmscarawas River, Mnskingum River Basin. Lat. 40 deg. 21 min. 43 sec. N.; Long. 81 deg. 47 min. 56 sec. W.

AREA: 1.56 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						COSHOCTON, OHIO WATERSHED 106							
	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976 P	2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	0.50	1.00	32.27
1976 Q	0.673	0.215	0.219	0.0	0.0	0.010	0.400	0.001	0.0	0.0	0.0	0.0	1.517
STA AV P	2.59	2.15	3.21	3.25	3.63	3.95	4.25	2.91	2.72	2.16	2.43	2.28	35.53
STA AV Q	0.233	0.262	0.112	0.123	0.105	0.260	0.278	0.176	0.137	0.016	0.032	0.073	1.808

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976	7-11	2.047	7-11	0.387	7-11	0.399	7-11	0.395	7-11	0.399	1-25	0.647	1-25	0.663	1-19	0.663

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	8-23	7.630	9- 1	1.260	9- 1	1.380	9- 1	1.350	2-23	1.410	2-23	2.000	2-19	2.440
	1964		1950		1950		1950		1962		1962		1962	

NOTES: Watershed conditions: Meadow and pasture. 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 113. Precipitation and runoff records began Apr. 1939. Runoff measurements discontinued Nov. 1972 to April 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976	DAILY PRECIPITATION (inches)					COSHOCTON, OHIO WATERSHED 106							
Day	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01S	0.0	0.19H	0.07	0.79	0.0 T	0.01	0.0 T	0.0	0.0	0.0	
2	0.16	0.0 T	0.07	0.06H	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.13	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
4	0.0	0.0	0.59	0.05H	0.0	0.0	0.0	0.0	0.02	0.0	0.0 T	0.0	
5	0.0	0.50H	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
6	0.0	0.02S	0.0	0.0	0.22	0.0	0.0	0.47	0.0	0.09	0.0	0.45	
7	0.36S	0.0	0.0	0.0	0.04	0.0	0.16	0.79	0.0	0.0 T	0.0 T	0.15	
8	0.06S	0.01S	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.0	0.0	0.0 T	
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.55	0.49	0.0 T	0.0	
10	0.0	0.0	0.32	0.0	0.0	0.0	0.31	0.0	0.04	0.0	0.01	0.0	
11	0.10H	0.0	0.0	0.02	0.04	0.30	1.96	0.0	0.0	0.0	0.0	0.0 T	
12	0.0	0.0 T	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
13	0.51	0.0	0.02S	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	
15	0.0	0.03	0.0	0.0	0.06	0.0	0.07	0.62	0.0	0.0 T	0.0	0.0	
16	0.07S	0.19	0.06S	0.0	0.59	0.35	0.43	0.0	0.24	0.0	0.0	0.0 T	
17	0.0	0.24	0.0	0.0	0.18	0.0	0.0	0.0	0.18	0.0	0.0	0.0	
18	0.0	1.15	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01S	0.0	0.0 T	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.08S	0.0	0.35	0.0	0.0	0.05	0.0	0.0	0.29	0.55	0.0	0.19H	
21	0.02S	0.38	0.70	0.95	0.0	0.0	0.08	0.0	0.0	0.0 T	0.06S	0.01S	
22	0.01S	0.10H	0.0	0.22	0.0	0.03	0.01	0.0	0.0	0.0	0.0 T	0.0	
23	0.0	0.01S	0.0	0.0	0.0	0.01	0.37	0.0	0.0	0.21	0.0	0.0 T	
24	0.0	0.0	0.0	0.0	0.0	1.35	0.01	0.0	0.0	0.55	0.05H	0.0	
25	0.39	0.0	0.07	0.68	0.0 T	0.41	0.0	0.35	0.0	0.0 T	0.0	0.07SZ	
26	0.30H	0.0	0.0 T	0.0	0.0	0.0	0.0	0.17	0.34	0.0	0.09	0.08SZ	
27	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.03	0.0	0.16	0.0 T	0.07	0.01SZ	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.19	0.0	0.0	0.15S	0.01SZ	
29	0.01S	0.0	0.0 T	0.0	0.0	0.21	0.10	0.0	0.0	0.0	0.07S	0.02SZ	
30	0.05S	0.0	0.0 T	0.0	0.0	0.35	0.01	0.0	0.05	0.32	0.0	0.01SZ	
31	0.0	0.0	0.57	0.0	0.61	0.0	0.10	0.0	0.0	0.33	0.0	0.0	
TOTAL	2.26	2.64	3.56	2.17	2.04	4.82	5.16	3.71	1.87	2.54	0.50	1.00	
STA AV	2.59	2.15	3.21	3.25	3.63	3.95	4.25	2.91	2.72	2.16	2.43	2.28	

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 113. STA AV values are based on 38 yr (1939-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSRED 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
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	0.005	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	0.012	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	0.026	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	0.001	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	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	0.005	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	0.008	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
26	0.036	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	0.0014	0.0005	0.0005	0.0	0.0	0.0	0.0008	0.0	0.0	0.0	0.0	0.0
INCHES	0.673	0.215	0.219	0.0	0.0	0.010	0.400	0.001	0.0	0.0	0.0	0.0
STA AV	0.233	0.262	0.112	0.123	0.105	0.260	0.278	0.176	0.137	0.016	0.032	0.073

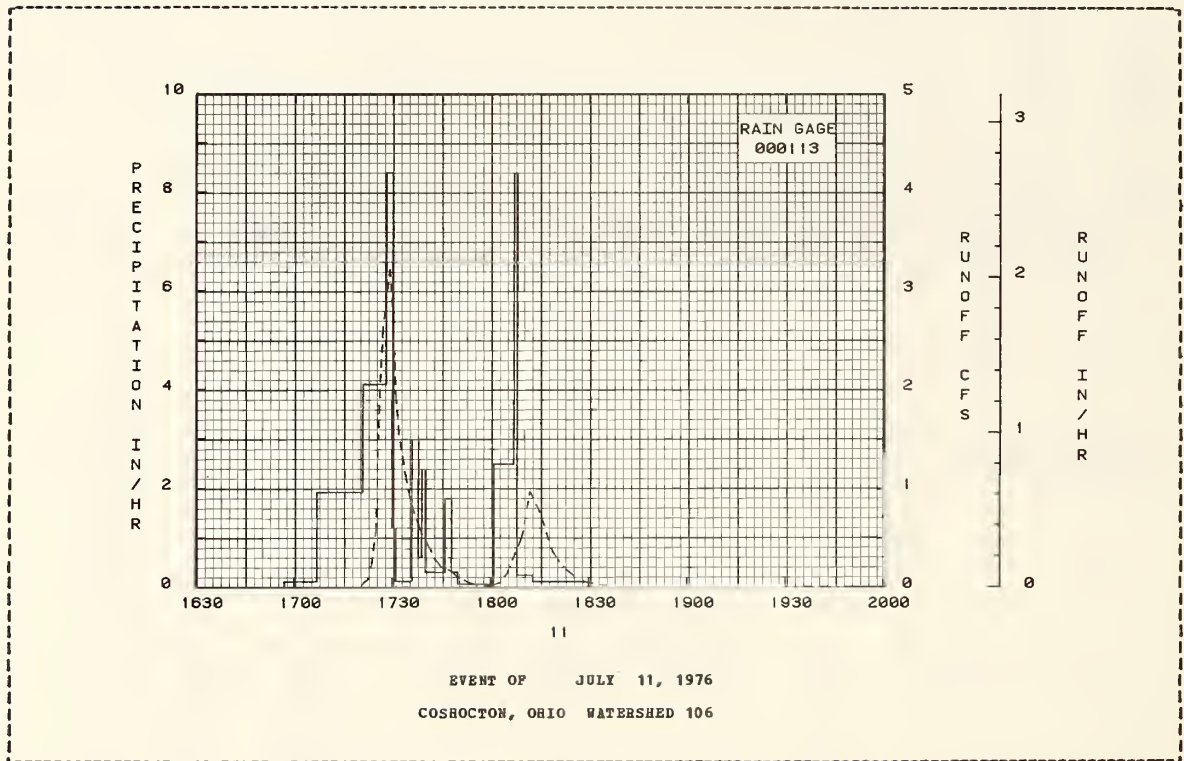
NOTES: To convert CFS to IN/DAY, multiply by 15.2575. STA AV values are based on 37 yr (1939-Nov. 1972, April 1974-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSRED 106											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 11, 1976											
7-11	0.0	0.0	7-11	1657	0.0	0.0	7-11	1704	0.0	0.0	
				1707	0.1200	0.02		1705	0.0	0.0	
				1721	1.9286	0.47		1710	0.002	0.0001	
				1728	4.1144	0.95		1719	0.002	0.0002	
				1730	8.3982	1.23		1720	0.004	0.0003	
WATERSRED CONDITIONS: Pescue cover (pasture and meadow).				1731	1.2033	1.25		1723	0.099	0.0019	
				1736	0.1201	1.26		1724	0.256	0.0040	
				1738	2.9997	1.36		1725	0.566	0.0086	
				1739	0.6006	1.37		1726	1.930	0.0216	
				1740	2.3996	1.41		1727	2.640	0.0460	
				1746	0.3000	1.44		1729	3.220	0.1081	
				1748	1.7999	1.50		1730	2.800	0.1400	
				1750	0.3003	1.51		1731	1.930	0.1650	
				1801	0.0545	1.52		1732	1.540	0.1834	
				1807	2.5000	1.77		1734	1.130	0.2117	
				1808	8.3943	1.91		1736	0.820	0.2324	
				1813	0.2401	1.93		1739	0.543	0.2540	
				1830	0.1059	1.96		1741	0.419	0.2642	
								1743	0.280	0.2716	
								1745	0.196	0.2767	
								1748	0.160	0.2823	
								1750	0.099	0.2851	
								1753	0.053	0.2875	
								1756	0.025	0.2887	
								1800	0.009	0.2894	
								1803	0.046	0.2903	
								1805	0.138	0.2923	
								1809	0.458	0.3049	
								1810	0.566	0.3103	
								1812	0.967	0.3266	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.63573000.

1976 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 106							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 11, 1976 (CONTINUED)										
							7-11	1815	0.764	0.3541
								1819	0.363	0.3779
								1821	0.265	0.3846
								1823	0.184	0.3894
								1826	0.099	0.3939
								1829	0.046	0.3962
								1838	0.002	0.3984
								1900	0.0	0.3987

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.63573000.



COSHOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 38 sec. N.; Long. 81 deg. 47 min. 07 sec. W.

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	
1976 P	2.95	2.75	3.56	2.33	2.04	4.79	5.14	3.81	2.08	2.57	0.54	1.07	33.63	
1976 Q	2.744	3.044	2.079	1.069	0.347	0.327	1.125	0.317	0.123	0.205	0.136	0.157	11.673	
STA AV P	2.69	2.40	3.53	3.40	3.75	4.15	4.25	2.92	2.74	2.26	2.54	2.42	37.04	
STA AV Q	1.802	1.977	2.846	2.336	1.448	0.951	0.669	0.277	0.276	0.226	0.482	1.044	14.334	

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976	7-11	0.534	7-11	0.385	7-11	0.515	7-11	0.591	7-11	0.622	2-18	0.817	2-17	1.054	2-16	1.852

MAXIMUMS FOR PERIOD OF RECORD																	
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
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 (approximate percentages): Woods, 27%; grassland, 50%; miscellaneous, 4%; cultivated 19%; 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. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA 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.

1976 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 196	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.01S	0.0	0.22M	0.06	0.72	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0		
2	0.15	0.0 T	0.05	0.07M	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.17	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
4	0.0	0.0	0.59	0.05M	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0		
5	0.0	0.59M	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
6	0.0	0.03S	0.0	0.0	0.23	0.0	0.0	0.48	0.0	0.10	0.0	0.45		
7	0.60S	0.0	0.0	0.0	0.05	0.0	0.12	0.85	0.0	0.0 T	0.0 T	0.15		
8	0.09S	0.01S	0.0	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.62	0.45	0.0 T	0.0		
10	0.0	0.0	0.32	0.0	0.0	0.0	0.35	0.0	0.0 T	0.0	0.02	0.0		
11	0.18M	0.0	0.0	0.04	0.05	0.42	1.73	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
13	0.52	0.0	0.03S	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0		
15	0.0	0.01E	0.0	0.0	0.07	0.0	0.30	0.68	0.0	0.0 T	0.0	0.0		
16	0.14S	0.23	0.10S	0.0	0.56	0.36	0.53	0.0	0.30	0.0	0.0	0.0 T		
17	0.0	0.24	0.0	0.0	0.21	0.0	0.0	0.0	0.2M	0.0	0.0	0.0		
18	0.0	1.14	0.0 T	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01S	0.0	0.0 T	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.15S	0.0	0.34	0.0	0.0	0.10	0.0	0.0	0.29	0.55	0.0	0.16M		
21	0.08S	0.38	0.70	1.00	0.0	0.0	0.05	0.0	0.0	0.0 T	0.04S	0.01S		
22	0.01S	0.10M	0.0	0.20	0.0	0.03	0.01	0.0	0.0	0.0	0.0 T	0.0		
23	0.0	0.01S	0.0	0.0	0.0	0.02	0.30	0.0	0.0	0.21	0.0	0.0 T		
24	0.0	0.0	0.0	0.0	0.0	1.40	0.06	0.0	0.0	0.61	0.05M	0.0		
25	0.42	0.0	0.08	0.75	0.0 T	0.42	0.0	0.45	0.0	0.0 T	0.0	0.13SZ		
26	0.32M	0.0	0.0 T	0.0	0.0	0.0	0.0	0.15	0.35	0.0	0.12	0.12SZ		
27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.03	0.0	0.15	0.0 T	0.08	0.01SZ		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.17	0.0	0.0	0.16S	0.01SZ		
29	0.02S	0.0	0.0	0.0	0.0	0.16	0.09	0.0	0.0	0.0	0.07S	0.02SZ		
30	0.09S	0.0	0.01	0.0	0.0	0.38	0.0 T	0.0	0.05	0.34	0.0	0.01SZ		
31	0.0		0.54		0.57		0.18	0.0		0.31		0.0		
TOTAL	2.95	2.75	3.56	2.33	2.04	4.79	5.14	3.81	2.08	2.57	0.54	1.07		
STA AV	2.69	2.40	3.53	3.40	3.75	4.15	4.25	2.92	2.74	2.26	2.54	2.42		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 108. STA AV values are based on 40 yr (1937-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

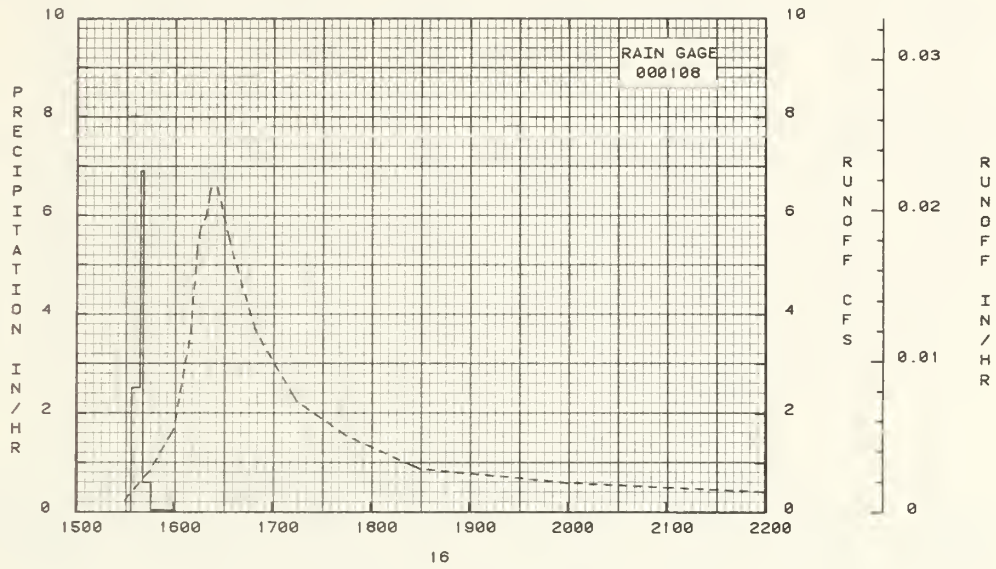


1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 196												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.090	0.590	0.503	0.834	0.320	0.451	0.095	0.073	0.050	0.039	0.147	0.042
2	0.949	0.429	0.471	0.952	0.290	0.129	0.079	0.056	0.050	0.036	0.095	0.037
3	1.436	0.406	0.566	0.780	0.272	0.085	0.066	0.052	0.048	0.034	0.091	0.031
4	0.808	0.406	3.276	0.732	0.211	0.071	0.060	0.050	0.044	0.033	0.085	0.030
5	0.658	0.394	1.317	0.644	0.189	0.066	0.056	0.052	0.040	0.031	0.079	0.030
6	0.594	0.350	0.976	0.562	0.180	0.064	0.054	0.105	0.039	0.035	0.076	0.060
7	0.610	0.294	0.817	0.503	0.231	0.060	0.060	0.501	0.039	0.037	0.073	0.275
8	0.534	0.280	0.729	0.452	0.164	0.056	0.964	0.090	0.039	0.036	0.066	0.075
9	0.463	0.261	0.661	0.417	0.148	0.052	0.130	0.068	0.121	0.098	0.060	0.064
10	0.440	1.970	0.697	0.383	0.138	0.048	0.221	0.064	0.071	0.055	0.054	0.081
11	0.431	1.729	0.697	0.339	0.140	0.057	7.685	0.060	0.046	0.042	0.048	0.108
12	0.383	0.818	0.611	0.308	0.123	0.081	0.950	0.056	0.040	0.037	0.044	0.092
13	2.497	1.114	0.577	0.289	0.118	0.048	0.511	0.053	0.039	0.036	0.042	0.082
14	2.161	0.758	0.489	0.270	0.114	0.046	0.383	0.656	0.039	0.034	0.042	0.072
15	1.058	0.752	0.452	0.251	0.115	0.046	0.282	0.693	0.039	0.033	0.042	0.058
16	0.815	1.383	0.464	0.226	0.253	0.065	0.636	0.181	0.061	0.033	0.042	0.054
17	0.610	1.533	0.394	0.196	0.186	0.063	0.310	0.115	0.082	0.033	0.042	0.054
18	0.545	10.335	0.417	0.182	0.152	0.046	0.204	0.095	0.059	0.033	0.042	0.050
19	0.517	3.077	0.417	0.176	0.115	0.222	0.170	0.085	0.058	0.033	0.042	0.049
20	0.477	1.805	0.418	0.170	0.098	0.092	0.153	0.076	0.096	0.101	0.042	0.088
21	0.440	1.612	4.010	0.507	0.088	0.060	0.149	0.068	0.050	0.066	0.042	0.052
22	0.417	2.414	1.168	0.715	0.079	0.050	0.148	0.062	0.040	0.043	0.040	0.046
23	0.394	1.290	0.946	0.379	0.076	0.049	0.207	0.058	0.036	0.041	0.037	0.046
24	0.489	1.071	0.817	0.299	0.073	0.551	0.141	0.058	0.031	0.391	0.033	0.046
25	1.414	0.921	0.754	0.820	0.071	0.967	0.095	0.136	0.030	0.103	0.047	0.046
26	8.237	0.817	0.661	0.735	0.068	0.145	0.085	0.106	0.054	0.064	0.063	0.052
27	2.186	0.729	0.706	0.454	0.066	0.106	0.082	0.079	0.074	0.054	0.060	0.058
28	1.436	0.644	0.565	0.383	0.066	0.095	0.081	0.088	0.051	0.048	0.058	0.058
29	1.140	0.562	0.503	0.339	0.066	0.085	0.090	0.084	0.044	0.046	0.050	0.058
30	0.925	0.477	0.477	0.308	0.064	0.206	0.079	0.060	0.047	0.057	0.042	0.056
31	0.780		0.910		0.140		0.089	0.054		0.842		0.054
MEAN	1.1270	1.3360	0.8538	0.4537	0.1425	0.1388	0.4618	0.1302	0.0520	0.0841	0.0576	0.0647
INCHES	2.744	3.044	2.079	1.069	0.347	0.327	1.125	0.317	0.123	0.205	0.136	0.157
STA AV	1.802	1.977	2.846	2.336	1.448	0.951	0.669	0.277	0.276	0.226	0.482	1.044

NOTES: To convert CFS to IN/DAY, multiply by 0.0786. STA AV values are based on 40-yr (1937-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 196										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 16 - 17, 1976										
7-16	RG 000108 0.03	0.016	7-16	RG 000108 1534	0.0	0.0	7-16	1530	0.242	0.0
				1539	2.5201	0.21		1545	0.831	0.0004
				1541	6.8999	0.44		1600	1.690	0.0015
				1546	0.6000	0.49		1610	3.620	0.0029
				1600	0.0428	0.50		1614	5.400	0.0039
WATERSHED CONDITIONS: Woods, 27%; grassland, 50%; cultivated, 19%; miscellaneous, 4%. Water- shed in improved practice.										
								1616	5.780	0.0045
								1619	5.970	0.0055
								1622	6.560	0.0065
								1626	6.560	0.0079
								1634	5.400	0.0105
								1650	3.620	0.0145
								1715	2.230	0.0185
								1745	1.540	0.0215
								1830	0.872	0.0245
								2000	0.593	0.0281
								2100	0.503	0.0299
								2400	0.406	0.0344
							7-17	1200	0.318	0.0486
								1330	0.280	0.0500
								2400	0.226	0.0587

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00327310.



16  
 EVENT OF JULY 16 - 17, 1976  
 COSHOCTON, OHIO WATERSHED 196

COSHOCTON, OHIO WATERSHED 174

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tnsclaravas River, Muskingum River Basin. Lat. 40 deg. 21 min. 50 sec. N.; Long. 81 deg. 47 min. 32 sec. W.

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	
1976	P	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	33.17
	Q	1.966	2.040	1.241	0.435	0.113	0.180	0.803	0.139	0.011	0.040	0.003	0.017	6.989
STA AV	P	2.38	2.27	3.57	3.30	3.28	3.15	3.78	2.95	2.70	2.02	2.54	2.54	34.57
	Q	1.107	1.349	2.103	1.439	0.636	0.268	0.412	0.115	0.149	0.112	0.345	0.641	8.675

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976	7-11	0.637	7-11	0.439	7-11	0.553	7-11	0.604	7-11	0.620	1-25	0.780	1-25	0.908	2-15	1.363		

MAXIMUMS FOR PERIOD OF RECORD													
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
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
1969		1961		1961		1969		1969		1969		1964	1964
													3-4
													3.710

NOTES: Watershed conditions (approximate percentages): 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. 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. 26.38-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 174	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02S	0.0	0.21M	0.09	0.83	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0		
2	0.14	0.0 T	0.07	0.07M	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.16	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
4	0.0	0.0	0.62	0.05M	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0		
5	0.0	0.51M	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.06	0.0	0.43		
7	0.45S	0.0	0.0	0.0	0.06	0.0	0.08	0.81	0.0	0.0 T	0.0 T	0.15		
8	0.08S	0.03S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0 T		
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.56	0.50	0.0 T	0.0		
10	0.0	0.0	0.29	0.0	0.0	0.0	0.31	0.0	0.02	0.0	0.01	0.0		
11	0.12M	0.0	0.0	0.03	0.04	0.24	1.86	0.0	0.0	0.0	0.0	0.0 T		
12	0.0	0.0 T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
13	0.49	0.0	0.02S	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0		
15	0.0	0.02	0.0	0.0	0.06	0.0	0.22	0.58	0.0	0.0 T	0.0	0.0		
16	0.07S	0.21	0.16S	0.0	0.61	0.34	0.49	0.0	0.23	0.0	0.0	0.0 T		
17	0.0	0.23	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0		
18	0.0	1.18	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01S	0.0	0.0 T	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.06S	0.0	0.34	0.0	0.0	0.11	0.0	0.0	0.31	0.56	0.0	0.16M		
21	0.04S	0.38	0.72	0.96	0.0	0.0	0.05	0.0	0.0	0.0 T	0.05S	0.01S		
22	0.01S	0.09M	0.0	0.22	0.0	0.01	0.01	0.0	0.0	0.0	0.0 T	0.0		
23	0.0	0.01S	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.20	0.0	0.0 T		
24	0.0	0.0	0.0	0.0	0.0	1.45	0.06	0.0	0.0	0.60	0.05M	0.0		
25	0.42	0.0	0.08	0.74	0.0 T	0.47	0.0	0.39	0.0	0.0 T	0.0	0.13SZ		
26	0.30M	0.0	0.01	0.0	0.0	0.0	0.0	0.17	0.35	0.0	0.17	0.12SZ		
27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.02	0.0	0.15	0.0 T	0.06	0.01S		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.17S	0.0 T		
29	0.02S	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.0	0.11S	0.02S		
30	0.06S	0.0	0.02	0.0	0.0	0.42	0.01	0.0	0.02	0.35	0.0	0.01S		
31	0.0	0.0	0.53	0.0	0.65	0.0	0.12	0.0	0.0	0.30	0.0	0.0		
TOTAL	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04		
STA AV	2.38	2.27	3.57	3.30	3.28	3.15	3.78	2.95	2.70	2.02	2.62	2.54		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV values are based on 17 yr (1960-76) record period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

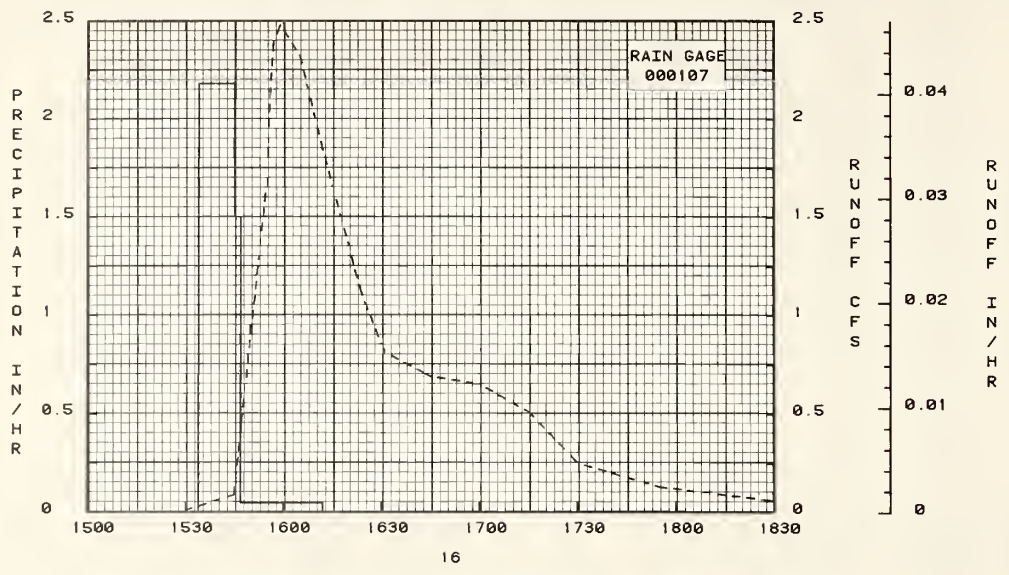
1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 174												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.120	0.036	0.027	0.074	0.019	0.062	0.0 T	0.001	0.001	0.0	0.002	0.0
2	0.092	0.027	0.027	0.098	0.020	0.005	0.0	0.0 T	0.0 T	0.0	0.0 T	0.0
3	0.194	0.021	0.046	0.059	0.017	0.002	0.0	0.0	0.0	0.0	0.0	0.0
4	0.065	0.019	0.619	0.050	0.013	0.002	0.0	0.0	0.0	0.0	0.0	0.0
5	0.047	0.017	0.149	0.042	0.011	0.002	0.0	0.0	0.0	0.0	0.0	0.0
6	0.039	0.017	0.089	0.036	0.011	0.002	0.0	0.001	0.0	0.0 T	0.0	0.003
7	0.039	0.015	0.064	0.030	0.017	0.002	0.0	0.072	0.0	0.0	0.0	0.034
8	0.033	0.013	0.050	0.024	0.011	0.002	0.137	0.002	0.0	0.0	0.0	0.001
9	0.024	0.011	0.042	0.021	0.008	0.002	0.003	0.001	0.004	0.002	0.001	0.0
10	0.021	0.522	0.054	0.019	0.007	0.001	0.016	0.001	0.003	0.001	0.002	0.0
11	0.021	0.201	0.052	0.017	0.007	0.001	1.350	0.001	0.001	0.0	0.0 T	0.0
12	0.019	0.071	0.040	0.015	0.008	0.0 T	0.072	0.0 T	0.0 T	0.0	0.0	0.0
13	0.504	0.111	0.039	0.013	0.006	0.0	0.014	0.001	0.0	0.0	0.0	0.0
14	0.268	0.051	0.030	0.013	0.005	0.0	0.007	0.092	0.0	0.0	0.0	0.0
15	0.112	0.052	0.027	0.011	0.005	0.0	0.011	0.098	0.0	0.0	0.0	0.0
16	0.074	0.195	0.031	0.010	0.025	0.001	0.099	0.006	0.0 T	0.0	0.0	0.0
17	0.050	0.182	0.024	0.010	0.012	0.0	0.018	0.002	0.001	0.0	0.0	0.0
18	0.042	1.623	0.029	0.008	0.009	0.0	0.007	0.002	0.001	0.0	0.0	0.0
19	0.039	0.293	0.027	0.007	0.005	0.033	0.005	0.001	0.0 T	0.0	0.0	0.0
20	0.033	0.163	0.027	0.007	0.004	0.004	0.005	0.001	0.005	0.003	0.0	0.001
21	0.027	0.160	0.680	0.049	0.003	0.001	0.005	0.001	0.001	0.003	0.0	0.0
22	0.024	0.297	0.113	0.058	0.002	0.0	0.005	0.001	0.0	0.001	0.0	0.0
23	0.021	0.112	0.083	0.029	0.002	0.0	0.009	0.001	0.0	0.001	0.0	0.0
24	0.075	0.083	0.064	0.019	0.002	0.111	0.005	0.001	0.0	0.033	0.0	0.0
25	0.434	0.064	0.050	0.091	0.002	0.144	0.002	0.006	0.0	0.004	0.0	0.0
26	1.468	0.050	0.042	0.056	0.002	0.004	0.002	0.005	0.001	0.0 T	0.0 T	0.0
27	0.199	0.042	0.049	0.033	0.002	0.0 T	0.002	0.002	0.001	0.0	0.0 T	0.0
28	0.106	0.036	0.033	0.024	0.002	0.0	0.002	0.002	0.001	0.0	0.0	0.0
29	0.073	0.030	0.027	0.021	0.002	0.0 T	0.001	0.002	0.001	0.0	0.0	0.0
30	0.055		0.024	0.019	0.002	0.016	0.0 T	0.001	0.0 T	0.001	0.0	0.0
31	0.042		0.091		0.008		0.001	0.001		0.039		0.0
MEAN	0.1407	0.1561	0.0888	0.0322	0.0081	0.0133	0.0575	0.0100	0.0008	0.0028	0.0002	0.0012
INCHES	1.966	2.040	1.241	0.435	0.113	0.180	0.803	0.139	0.011	0.040	0.003	0.017
STA AV	1.107	1.349	2.103	1.439	0.636	0.268	0.412	0.115	0.149	0.112	0.345	0.641

NOTES: To convert CFS to IN/DAY, multiply by 0.45079. STA AV values are based on 17 yr (1960-76) record period, part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 174												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 16 - 17, 1976												
7-16	EG 000107	0.02	0.003	7-16	EG 000107							
					1534	0.0	0.0	7-16	1530	0.007	0.0	
					1545	2.1818	0.40		1545	0.094	0.0002	
					1547	1.5001	0.45		1555	1.700	0.0030	
					1612	0.0480	0.47		1556	2.160	0.0036	
									1557	2.400	0.0044	
WATERSHED CONDITIONS:									1559	2.480	0.0059	
Cover of hardwoods, 15%;									1605	2.320	0.0104	
reforested, 2%; grassland,									1612	1.840	0.0150	
67%; miscellaneous, 16%.									1624	1.100	0.0205	
									1631	0.814	0.0226	
									1645	0.691	0.0259	
									1700	0.653	0.0290	
									1715	0.514	0.0318	
									1730	0.252	0.0336	
									1755	0.131	0.0351	
									1930	0.064	0.0380	
									2115	0.039	0.0397	
									2400	0.027	0.0414	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01878000.





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EVENT OF JULY 16 - 17, 1976  
 COSHOCTON, OHIO WATERSHED 174

COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tnsclarawas River, Muskingnm Hiver Basin. Lat. 40 deg. 21 min. 47 sec. N.; Long. 81 deg. 47 min. 23 sec. W.

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
1976	P	2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	33.17
	Q	2.405	2.621	1.971	0.902	0.280	0.321	0.981	0.256	0.081	0.109	0.056	0.089	10.073
STA AV	P	2.40	2.32	3.43	3.20	3.25	3.15	3.78	2.95	2.70	2.02	2.62	2.54	34.36
	Q	1.531	1.829	2.907	2.142	1.239	0.526	0.571	0.174	0.238	0.228	0.519	0.961	12.865

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Maximum Discharge Date	1 Hour Date Vol.	Maximum Volume for Selected Time Interval													
		2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.								
1976	7-11 0.434	7-11 0.328	7-11 0.445	7-11 0.506	7-11 0.537	1-25 0.702	2-17 0.878	2-16 1.590							
MAXIMUMS FOR PERIOD OF RECORD															
7-5 1969	0.959	4-25 1961	0.680	4-25 1961	0.930	7-5 1969	1.620	7-5 1969	1.979	7-5 1969	2.269	3-9 1964	2.600	3-4 1964	3.890

NOTES: Watershed conditions (approximate percentages): 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.

1976	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 194	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02S	0.0	0.21M	0.09	0.83	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0
2	0.14	0.0 T	0.07E	0.07M	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.16	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 T
4	0.0	0.0	0.62	0.05M	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0	0.0
5	0.0	0.51M	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
6	0.0	0.05S	0.0	0.0	0.24	0.0	0.0	0.46	0.0	0.06	0.0	0.0	0.43	0.0
7	0.45S	0.0	0.0	0.0	0.06	0.0	0.08	0.81	0.0	0.0 T	0.0 T	0.0 T	0.15	0.0
8	0.08S	0.03S	0.0	0.0	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0 T
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.56	0.50	0.0 T	0.0	0.0	0.0
10	0.0	0.0	0.29	0.0	0.0	0.0	0.31	0.0	0.02	0.0	0.01E	0.0	0.0	0.0
11	0.12M	0.0	0.0	0.03E	0.04E	0.24	1.86	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0 T
12	0.0	0.0 T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
13	0.49E	0.0	0.02S	0.0	0.0	0.0	0.0	0.59	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	0.41	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.02E	0.0	0.0	0.06	0.0	0.22	0.58	0.0	0.0 T	0.0	0.0	0.0	0.0
16	0.07S	0.21	0.16S	0.0	0.61	0.34	0.49	0.0	0.23	0.0	0.0	0.0	0.0 T	0.0
17	0.0	0.23	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0
18	0.0	1.18	0.0 T	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.01S	0.0	0.0 T	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.06S	0.0	0.34	0.0	0.0	0.11	0.0	0.0	0.31	0.56	0.0	0.16M	0.0	0.0
21	0.04S	0.38	0.72	0.96	0.0	0.0	0.05	0.0	0.0	0.0 T	0.05S	0.01S	0.0	0.0
22	0.01S	0.09S	0.0	0.22	0.0	0.01	0.01	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
23	0.0	0.01S	0.0	0.0	0.0	0.04	0.29	0.0	0.0	0.20	0.0	0.0 T	0.0	0.0 T
24	0.0	0.0	0.0	0.0	0.0	1.45	0.06	0.0	0.0	0.60	0.05M	0.0	0.0	0.0
25	0.42	0.0	0.08	0.74	0.0 T	0.47	0.0	0.39	0.0	0.0 T	0.0	0.13SZ	0.0	0.0
26	0.30S	0.0	0.01	0.0	0.0	0.0	0.0	0.17	0.35	0.0	0.17	0.12SZ	0.0	0.0
27	0.0	0.0 T	0.21	0.0 T	0.0	0.0	0.02	0.0	0.15	0.0 T	0.06	0.01S	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.17S	0.0 T	0.0	0.0
29	0.02S	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.0	0.11S	0.02S	0.0	0.0
30	0.06S	0.0	0.02	0.0	0.0	0.42	0.01	0.0	0.02	0.35	0.0	0.01S	0.0	0.0
31	0.0	0.0	0.53E	0.0	0.65	0.0	0.12	0.0	0.0	0.30	0.0	0.0	0.0	0.0
TOTAL		2.43	2.73	3.69	2.28	2.28	5.07	5.03	3.58	1.85	2.57	0.62	1.04	33.17
STA AV		2.40	2.32	3.43	3.20	3.25	3.15	3.78	2.95	2.70	2.02	2.62	2.54	34.36

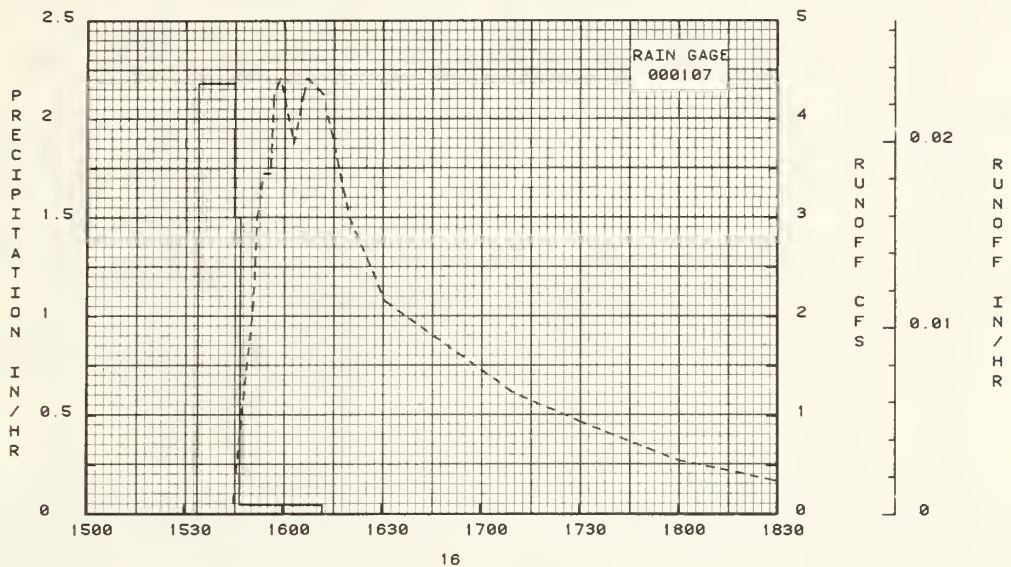
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV values are based on 17 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 194												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.638	0.277	0.274	0.470	0.129	0.249	0.052	0.042	0.021	0.015	0.034	0.010
2	0.529	0.215	0.276	0.537	0.131	0.073	0.042	0.032	0.018	0.015	0.028	0.010
3	0.356	0.215	0.360	0.437	0.116	0.052	0.037	0.028	0.015	0.015	0.024	0.010
4	0.147	0.201	2.570	0.399	0.103	0.042	0.037	0.028	0.015	0.015	0.018	0.010
5	0.339	0.176	0.741	0.359	0.094	0.037	0.032	0.028	0.015	0.015	0.015	0.010
6	0.340	0.152	0.545	0.322	0.092	0.037	0.028	0.061	0.015	0.020	0.015	0.047
7	0.322	0.165	0.458	0.289	0.108	0.037	0.032	0.292	0.015	0.021	0.015	0.153
8	0.274	0.142	0.397	0.258	0.086	0.037	0.534	0.047	0.015	0.010	0.015	0.036
9	0.229	0.121	0.359	0.229	0.079	0.037	0.072	0.037	0.068	0.043	0.015	0.024
10	0.215	1.237	0.387	0.215	0.072	0.032	0.126	0.032	0.027	0.014	0.015	0.025
11	0.215	1.010	0.380	0.201	0.074	0.042	4.078	0.024	0.021	0.010	0.015	0.033
12	0.201	0.438	0.344	0.176	0.065	0.039	0.526	0.021	0.021	0.010	0.012	0.028
13	1.628	0.567	0.323	0.152	0.058	0.028	0.246	0.029	0.021	0.010	0.010	0.028
14	1.115	0.362	0.274	0.131	0.058	0.028	0.164	0.346	0.021	0.010	0.010	0.028
15	0.570	0.369	0.258	0.121	0.058	0.028	0.143	0.342	0.021	0.010	0.010	0.024
16	0.420	0.785	0.253	0.112	0.135	0.046	0.340	0.080	0.028	0.010	0.010	0.018
17	0.291	0.823	0.229	0.103	0.086	0.038	0.154	0.058	0.037	0.010	0.010	0.015
18	0.243	5.339	0.239	0.103	0.071	0.024	0.112	0.052	0.021	0.010	0.010	0.015
19	0.243	1.560	0.229	0.103	0.052	0.154	0.094	0.042	0.015	0.010	0.010	0.019
20	0.243	0.985	0.233	0.103	0.047	0.057	0.086	0.032	0.047	0.050	0.010	0.037
21	0.229	0.925	2.261	0.306	0.047	0.037	0.086	0.028	0.018	0.017	0.010	0.018
22	0.201	1.289	0.675	0.322	0.047	0.032	0.086	0.024	0.012	0.010	0.010	0.012
23	0.188	0.717	0.545	0.165	0.047	0.028	0.129	0.021	0.010	0.011	0.010	0.010
24	0.256	0.592	0.458	0.131	0.042	0.353	0.082	0.021	0.010	0.146	0.010	0.010
25	0.961	0.501	0.399	0.371	0.037	0.490	0.058	0.067	0.010	0.037	0.015	0.010
26	5.181	0.437	0.322	0.310	0.037	0.103	0.058	0.050	0.023	0.021	0.025	0.010
27	1.201	0.378	0.355	0.201	0.037	0.079	0.058	0.032	0.030	0.018	0.018	0.010
28	0.755	0.322	0.289	0.176	0.037	0.072	0.062	0.035	0.018	0.012	0.015	0.010
29	0.570	0.289	0.274	0.152	0.037	0.065	0.058	0.034	0.015	0.010	0.015	0.010
30	0.439		0.258	0.131	0.037	0.142	0.042	0.021	0.015	0.019	0.012	0.010
31	0.359		0.517		0.081		0.047	0.021		0.227		0.010
MEAN	0.6096	0.7102	0.4995	0.2363	0.0710	0.0840	0.2486	0.0649	0.0213	0.0275	0.0148	0.0226
INCHES	2.405	2.621	1.971	0.902	0.280	0.321	0.981	0.256	0.081	0.109	0.056	0.089
STA AV	1.531	1.829	2.907	2.142	1.239	0.526	0.571	0.174	0.238	0.228	0.519	0.961

NOTES: To convert CFS to IN/DAY, multiply by 0.12728. STA AV values are based on 17 yr period.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 194											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 16 - 17, 1976											
7-16	RG 000107 0.02	0.012	7-16	RG 000107 1534	0.0	0.0	7-16	1545	0.121	0.0	
				1545	2.1818	0.40		1551	2.150	0.0006	
				1547	1.5001	0.45		1552	3.000	0.0008	
				1612	0.0480	0.47		1554	3.450	0.0014	
								1556	3.450	0.0020	
WATERSHED CONDITIONS: 21% hardwoods; 2% re-forested; 58% grassland; 11% cultivated; 8% miscellaneous. Watershed in improved practice.								1557	4.250	0.0023	
								1559	4.420	0.0031	
								1603	3.750	0.0046	
								1606	4.250	0.0056	
								1607	4.420	0.0060	
								1612	4.250	0.0079	
								1620	3.000	0.0105	
								1631	2.150	0.0130	
								1710	1.230	0.0188	
								1730	0.940	0.0207	
								1800	0.545	0.0227	
								1900	0.340	0.0250	
								2000	0.274	0.0267	
								2200	0.215	0.0293	
								2400	0.188	0.0314	
								7-17	2400	0.121	0.0511

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00530300.



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EVENT OF JULY 16 - 17, 1976  
COSHOCTON, OHIO WATERSHED 194



COSHOCTON, OHIO WATERSHED 182

LOCATION: Coshocton Co., Ohio; 10 mi NE of Coshocton, Tuscarawas River, Walhounding River, Muskingum River Basin.  
 Lat. 40 deg. 21 min. 36 sec. N.; Long. 81 deg. 46 min. 55 sec. W.

AREA: 69.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 182															
		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
1976	P	2.89	2.72	3.56	2.21	1.89	4.72	5.55	3.95	2.12	2.58	0.70	1.01	33.90															
	Q	2.612	2.631	1.924	0.992	0.273	0.180	0.948	0.256	0.050	0.055	0.037	0.070	10.028															
STA AV	P	2.58	2.27	3.66	3.54	3.54	2.99	4.22	3.04	3.00	2.28	2.80	2.86	36.78															
	Q	1.547	1.677	2.427	1.741	1.112	0.249	0.753	0.115	0.340	0.203	0.345	0.974	11.482															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1976	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	2-18	0.111		2-18	0.101	2-18	0.180	2-18	0.356	2-18	0.451	2-18	0.659	2-17	0.855	2-16	1.557

MAXIMUMS FOR PERIOD OF RECORD																				
Year	Date	Vol.	Year	Date	Vol.	Year	Date	Vol.	Year	Date	Vol.	Year	Date	Vol.						
1969	7-5	0.966	1969	7-5	0.486	1969	7-5	0.696	1969	7-5	1.537	1969	7-5	1.832	1964	3-9	2.640	1964	3-4	3.960

NOTES: Watershed conditions (approximate percentages): Cover of 3% hardwoods, 9% pastured woodland, 5% reforested, 49% grassland, 34% cultivated, prevailing practice except for 10% of area which was strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 26.40-2. For Geology description, see foregoing reference, p. 26.40-1. Gage for Watershed 182 is 400 ft. upstream from that of Watershed 183, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164 and earlier publications of this series. Precipitation data from rain gage 119. Precipitation and runoff records began January, 1964. Runoff measurements discontinued Dec. 31, 1970 to May 1974. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1976 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 182													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1	0.0	0.0	0.0	0.15H	0.06	0.82	0.0	0.0	0.01	0.0	0.0	0.0		1	0.0	0.0	0.0	0.15H	0.06	0.82	0.0	0.0	0.0	0.0	0.0		
2	0.14	0.0	0.06	0.10H	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2	0.14	0.0	0.06	0.10H	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.16	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3	0.16	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.41	0.04H	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0		4	0.0	0.0	0.41	0.04H	0.0	0.0	0.0	0.07	0.0	0.0	0.0		
5	0.0	0.69H	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5	0.0	0.69H	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.03S	0.0	0.0	0.22	0.0	0.0	0.50	0.0	0.10	0.0	0.46		6	0.0	0.03S	0.0	0.0	0.22	0.0	0.50	0.0	0.10	0.0	0.46		
7	0.59S	0.0	0.0	0.0	0.05	0.0	0.25	0.84	0.0	0.0	0.0	0.14		7	0.59S	0.0	0.0	0.0	0.05	0.0	0.25	0.84	0.0	0.0	0.14		
8	0.15S	0.01S	0.0	0.0	0.0	0.0	1.46	0.0	0.0	0.0	0.0	0.0		8	0.15S	0.01S	0.0	0.0	0.0	0.0	1.46	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.65	0.45	0.0	0.0		9	0.0	0.0	0.01S	0.0	0.0	0.0	0.0	0.65	0.45	0.0	0.0		
10	0.0	0.0	0.31	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.02	0.0		10	0.0	0.0	0.31	0.0	0.0	0.0	0.39	0.0	0.02	0.0	0.0		
11	0.15H	0.0	0.0	0.04	0.04	0.53	1.72	0.0	0.0	0.0	0.0	0.0		11	0.15H	0.0	0.0	0.04	0.04	0.53	1.72	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		12	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.51	0.0	0.02S	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0		13	0.51	0.0	0.02S	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0		
15	0.0	0.02	0.0	0.0	0.06	0.0	0.23	0.73	0.0	0.0	0.0	0.0		15	0.0	0.02	0.0	0.0	0.06	0.0	0.23	0.73	0.0	0.0	0.0		
16	0.11S	0.21	0.19S	0.0	0.51	0.37	0.53	0.0	0.33	0.0	0.0	0.0		16	0.11S	0.21	0.19S	0.0	0.51	0.37	0.53	0.0	0.33	0.0	0.0		
17	0.0	0.23	0.0	0.0	0.20	0.0	0.0	0.0	0.20	0.0	0.0	0.0		17	0.0	0.23	0.0	0.0	0.20	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
18	0.0	1.09	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		18	0.0	1.09	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01S	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0		19	0.01S	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.14S	0.0	0.34	0.0	0.0	0.09	0.0	0.0	0.30	0.56	0.0	0.19H		20	0.14S	0.0	0.34	0.0	0.0	0.09	0.0	0.30	0.56	0.0	0.19H		
21	0.05S	0.35	0.65	0.96	0.0	0.0	0.06	0.0	0.0	0.0	0.05S	0.01S		21	0.05S	0.35	0.65	0.96	0.0	0.0	0.06	0.0	0.0	0.05S	0.01S		
22	0.01S	0.08H	0.0	0.18	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0		22	0.01S	0.08H	0.0	0.18	0.0	0.01	0.01	0.0	0.0	0.0	0.0		
23	0.0	0.01S	0.0	0.0	0.0	0.03	0.30	0.0	0.0	0.21	0.0	0.0		23	0.0	0.01S	0.0	0.0	0.0	0.03	0.30	0.0	0.0	0.21	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.30	0.06	0.0	0.0	0.60	0.05H	0.0		24	0.0	0.0	0.0	0.0	0.0	1.30	0.06	0.0	0.60	0.05H	0.0	0.0	
25	0.43	0.0	0.09	0.74	0.0	0.31	0.0	0.40	0.0	0.0	0.0	0.08SZ		25	0.43	0.0	0.09	0.74	0.0	0.31	0.0	0.40	0.0	0.0	0.0	0.08SZ	
26	0.33H	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.34	0.0	0.19	0.08SZ		26	0.33H	0.0	0.0	0.0	0.0	0.0	0.17	0.34	0.0	0.19	0.0	0.08SZ	
27	0.0	0.0	0.21	0.0	0.0	0.0	0.03	0.0	0.16	0.0	0.07	0.01SZ		27	0.0	0.0	0.21	0.0	0.0	0.0	0.03	0.0	0.16	0.0	0.07	0.01SZ	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.19	0.0	0.0	0.25S	0.01SZ		28	0.0	0.0	0.0	0.0	0.0	0.15	0.19	0.0	0.0	0.25S	0.01SZ		
29	0.01S	0.0	0.0	0.0	0.0	0.16	0.07	0.0	0.0	0.0	0.07S	0.02SZ		29	0.01S	0.0	0.0	0.0	0.0	0.16	0.07	0.0	0.0	0.07S	0.02SZ		
30	0.10S	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.07	0.37	0.0	0.01SZ		30	0.10S	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.07	0.37	0.0	0.01SZ	
31	0.0	0.0	0.57	0.52	0.52	0.52	0.29	0.0	0.29	0.29	0.0	0.0		31	0.0	0.0	0.57	0.52	0.52	0.52	0.29	0.0	0.29	0.29	0.0	0.0	
TOTAL	2.89	2.72	3.56	2.21	1.89	4.72	5.55	3.95	2.12	2.58	0.70	1.01		TOTAL	2.89	2.72	3.56	2.21	1.89	4.72	5.55	3.95	2.12	2.58	0.70	1.01	
STA AV	2.58	2.27	3.66	3.54	3.54	2.99	4.22	3.04	3.00	2.28	2.80	2.86		STA AV	2.58	2.27	3.66	3.54	3.54	2.99	4.22	3.04	3.00	2.28	2.80	2.86	

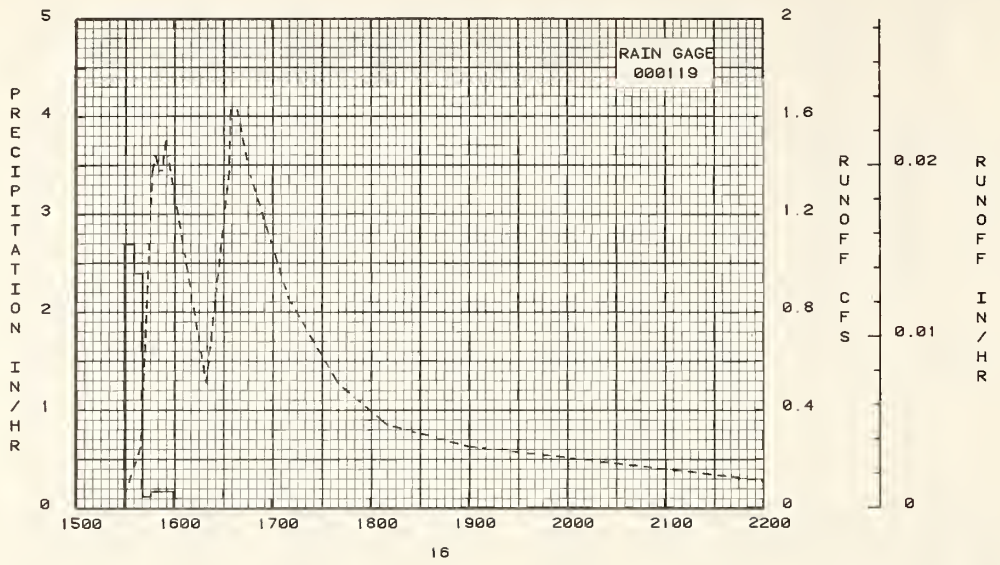
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 119. STA AV values are based on 13 yr (1964-76) record period. Code 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1976		MEAN DAILY DISCHARGE (cfs)										COSHOCTON, OHIO WATERSHED 182											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.233	0.139	0.110	0.192	0.058	0.070	0.006	0.008	0.005	0.001	0.012	0.001											
2	0.186	0.099	0.109	0.223	0.052	0.020	0.004	0.007	0.005	0.001	0.008	0.001											
3	0.310	0.083	0.147	0.171	0.050	0.013	0.002	0.007	0.005	0.001	0.006	0.001											
4	0.162	0.083	0.642	0.155	0.042	0.010	0.002	0.007	0.005	0.001	0.005	0.001											
5	0.128	0.078	0.272	0.139	0.039	0.008	0.002	0.006	0.005	0.001	0.005	0.001											
6	0.110	0.068	0.214	0.123	0.040	0.006	0.002	0.015	0.005	0.002	0.005	0.001											
7	0.131	0.062	0.179	0.110	0.041	0.005	0.003	0.077	0.005	0.001	0.004	0.001											
8	0.118	0.059	0.155	0.099	0.033	0.005	0.182	0.013	0.004	0.001	0.003	0.001											
9	0.094	0.055	0.139	0.088	0.030	0.004	0.022	0.010	0.020	0.009	0.003	0.001											
10	0.083	0.430	0.162	0.078	0.027	0.003	0.033	0.008	0.007	0.002	0.003	0.009											
11	0.085	0.325	0.176	0.073	0.027	0.015	1.611	0.007	0.005	0.001	0.003	0.011											
12	0.078	0.172	0.137	0.068	0.024	0.006	0.161	0.006	0.005	0.001	0.003	0.010											
13	0.790	0.194	0.126	0.059	0.021	0.002	0.083	0.008	0.005	0.001	0.003	0.010											
14	0.437	0.141	0.105	0.055	0.021	0.002	0.064	0.0124	0.005	0.001	0.003	0.008											
15	0.253	0.149	0.099	0.050	0.021	0.002	0.063	0.196	0.005	0.001	0.003	0.007											
16	0.214	0.291	0.100	0.046	0.043	0.007	0.179	0.041	0.009	0.001	0.003	0.006											
17	0.171	0.327	0.088	0.042	0.032	0.004	0.080	0.024	0.008	0.001	0.003	0.005											
18	0.139	1.926	0.098	0.039	0.027	0.002	0.044	0.021	0.003	0.001	0.003	0.004											
19	0.118	0.580	0.094	0.036	0.024	0.022	0.030	0.019	0.002	0.001	0.002	0.005											
20	0.099	0.359	0.091	0.033	0.019	0.007	0.027	0.015	0.008	0.013	0.002	0.012											
21	0.094	0.347	0.784	0.130	0.015	0.003	0.027	0.011	0.002	0.004	0.002	0.005											
22	0.088	0.477	0.215	0.150	0.013	0.002	0.027	0.010	0.001	0.001	0.002	0.004											
23	0.083	0.258	0.187	0.077	0.013	0.002	0.032	0.008	0.001	0.001	0.002	0.003											
24	0.145	0.214	0.171	0.059	0.011	0.080	0.019	0.007	0.001	0.028	0.002	0.003											
25	0.411	0.187	0.163	0.194	0.010	0.166	0.011	0.023	0.001	0.006	0.004	0.003											
26	1.567	0.171	0.139	0.140	0.010	0.018	0.008	0.020	0.006	0.004	0.004	0.003											
27	0.422	0.155	0.158	0.083	0.008	0.008	0.007	0.013	0.006	0.003	0.003	0.003											
28	0.286	0.139	0.123	0.068	0.007	0.006	0.008	0.013	0.002	0.003	0.002	0.003											
29	0.233	0.123	0.110	0.059	0.007	0.004	0.009	0.011	0.002	0.002	0.001	0.002											
30	0.196		0.099	0.055	0.007	0.021	0.007	0.005	0.002	0.006	0.001	0.002											
31	0.171		0.231		0.022		0.015	0.005		0.058		0.002											
MEAN	0.2464	0.2553	0.1815	0.0967	0.0257	0.0175	0.0894	0.0242	0.0049	0.0052	0.0036	0.0066											
INCHES	2.612	2.631	1.924	0.992	0.273	0.180	0.948	0.256	0.050	0.055	0.037	0.070											
STA AV	1.547	1.677	2.427	1.741	1.112	0.249	0.753	0.115	0.340	0.203	0.345	0.974											

NOTES: To convert CFS to IN/DAY, multiply by 0.34198. STA AV values are based on 10 yr (1964-Dec. 1970, May 1974-76) record period. Part-year records included.

1976		SELECTED RUNOFF EVENT										COSHOCTON, OHIO WATERSHED 182											
ANTECEDENT CONDITIONS			RUNOFF			RAINFALL			RUNOFF														
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.													
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)													
EVENT OF JULY 16 - 17, 1976																							
RG 000119			RG 000119																				
7-16	0.01	0.014	7-16	1530	0.0	0.0	7-16	1530	0.055	0.0													
				1536	2.7000	0.27	1540	0.252	0.0004														
				1541	2.4000	0.47	1547	1.380	0.0017														
				1546	0.1199	0.48	1549	1.440	0.0024														
				1600	0.1715	0.52	1551	1.380	0.0031														
WATERSHED CONDITIONS:																							
Cover of 3%, hardwoods; 9%,																							
pastured woodland; 5%, re-																							
forested; 49%, grassland;																							
34%, cultivated miscel-																							
laneous.																							
				1553			1553	1.380	0.0037														
				1555			1555	1.500	0.0044														
				1558			1558	1.380	0.0054														
				1620			1620	0.514	0.0104														
				1634			1634	1.380	0.0135														
				1635			1635	1.630	0.0139														
				1639			1639	1.630	0.0154														
				1646			1646	1.380	0.0179														
				1710			1710	0.858	0.0243														
				1740			1740	0.514	0.0292														
				1810			1810	0.342	0.0323														
				1900			1900	0.252	0.0358														
				2110			2110	0.147	0.0419														
				2400			2400	0.105	0.0470														

NOTES: To convert runoff in CFS TO IN/HR, multiply by 0.01424900.



EVENT OF JULY 16 - 17, 1976  
 COSHOCTON, OHIO WATERSHED 182



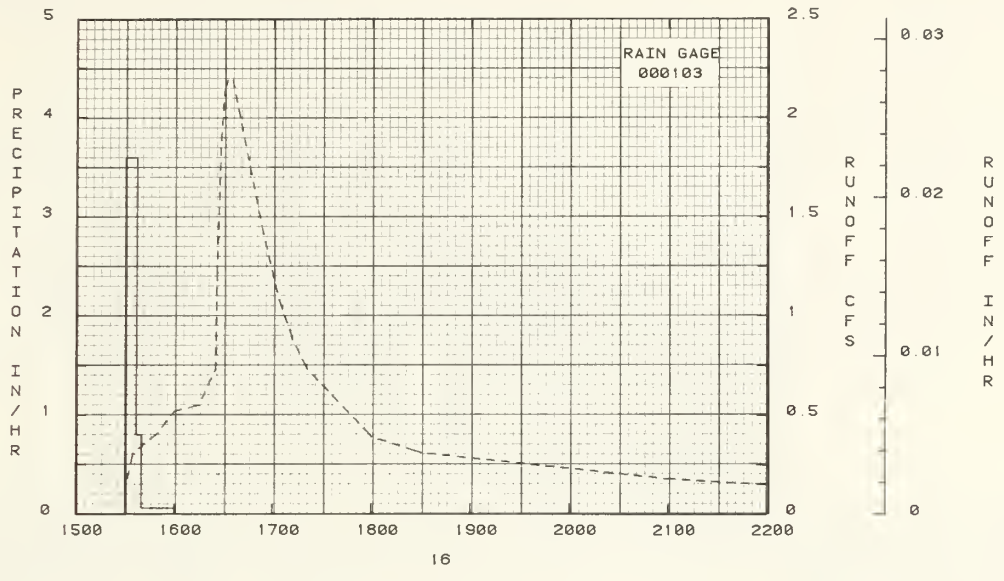


1976 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 166												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.272	0.175	0.142	0.180	0.047	0.078	0.047	0.024	0.011	0.009	0.033	0.003
2	0.255	0.136	0.135	0.189	0.044	0.047	0.034	0.021	0.013	0.007	0.024	0.003
3	0.323	0.118	0.147	0.161	0.046	0.027	0.024	0.021	0.015	0.007	0.021	0.003
4	0.219	0.112	0.581	0.142	0.030	0.021	0.021	0.021	0.015	0.007	0.018	0.003
5	0.182	0.107	0.329	0.124	0.024	0.018	0.018	0.014	0.015	0.007	0.015	0.003
6	0.173	0.096	0.276	0.112	0.022	0.015	0.015	0.015	0.013	0.009	0.015	0.008
7	0.182	0.076	0.242	0.101	0.031	0.015	0.017	0.166	0.009	0.009	0.013	0.096
8	0.158	0.071	0.211	0.091	0.024	0.013	0.235	0.038	0.007	0.007	0.011	0.022
9	0.142	0.096	0.182	0.081	0.021	0.011	0.058	0.024	0.011	0.023	0.012	0.013
10	0.124	0.511	0.184	0.071	0.021	0.011	0.081	0.021	0.011	0.022	0.011	0.019
11	0.118	0.363	0.172	0.062	0.018	0.012	0.880	0.021	0.011	0.016	0.011	0.033
12	0.112	0.212	0.161	0.058	0.013	0.009	0.251	0.021	0.011	0.009	0.009	0.027
13	0.445	0.230	0.148	0.054	0.011	0.007	0.175	0.023	0.011	0.007	0.007	0.024
14	0.467	0.183	0.124	0.045	0.011	0.007	0.131	0.146	0.011	0.007	0.007	0.021
15	0.311	0.187	0.112	0.041	0.011	0.007	0.105	0.152	0.011	0.009	0.007	0.021
16	0.267	0.336	0.118	0.037	0.030	0.009	0.219	0.063	0.015	0.011	0.007	0.021
17	0.212	0.336	0.101	0.034	0.035	0.007	0.114	0.042	0.012	0.009	0.007	0.018
18	0.162	1.217	0.117	0.030	0.032	0.005	0.072	0.034	0.009	0.007	0.007	0.013
19	0.142	0.650	0.112	0.027	0.018	0.031	0.054	0.030	0.007	0.005	0.007	0.013
20	0.135	0.459	0.108	0.024	0.015	0.025	0.050	0.024	0.013	0.010	0.007	0.049
21	0.130	0.419	0.647	0.081	0.013	0.015	0.050	0.018	0.009	0.011	0.007	0.024
22	0.124	0.479	0.311	0.128	0.011	0.015	0.050	0.015	0.007	0.011	0.005	0.013
23	0.118	0.337	0.276	0.081	0.011	0.015	0.077	0.013	0.007	0.009	0.003	0.011
24	0.168	0.293	0.227	0.054	0.011	0.143	0.058	0.011	0.007	0.108	0.003	0.011
25	0.356	0.256	0.201	0.118	0.011	0.305	0.042	0.025	0.007	0.045	0.005	0.011
26	1.356	0.226	0.158	0.124	0.011	0.119	0.034	0.040	0.010	0.021	0.010	0.009
27	0.511	0.196	0.175	0.076	0.011	0.077	0.034	0.027	0.013	0.015	0.011	0.007
28	0.380	0.175	0.142	0.062	0.011	0.054	0.035	0.020	0.011	0.013	0.009	0.007
29	0.303	0.161	0.130	0.054	0.011	0.042	0.035	0.024	0.011	0.011	0.007	0.005
30	0.251		0.115	0.045	0.011	0.102	0.038	0.013	0.012	0.017	0.005	0.003
31	0.211		0.159		0.015		0.033	0.011		0.116		0.003
MEAN	0.2685	0.2327	0.2028	0.0831	0.0203	0.0420	0.0996	0.0368	0.0108	0.0185	0.0105	0.0167
INCHES	2.501	2.464	1.889	0.749	0.189	0.379	0.928	0.343	0.098	0.172	0.095	0.156
STA AV	1.136	1.404	1.829	1.162	0.954	0.248	1.128	0.132	0.040	0.073	0.230	0.802

NOTES: To convert CFS to IN/DAY, multiply by 0.300526. STA AV values are based on 8 yr (1967-76) record period. Part-year records included.

1976 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 166												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 16 - 17, 1976												
7-16	RG 000103 0.04	0.023	7-16	1530	0.0	0.0	7-16	1530	0.107	0.0		
				1537	3.6000	0.42		1535	0.311	0.0002		
				1540	0.7999	0.46		1550	0.409	0.0013		
				1600	0.0600	0.48		1600	0.521	0.0023		
								1615	0.545	0.0040		
WATERSHED CONDITIONS:												
Cover of 4%, hardwoods;									1625	0.729	0.0053	
6%, reforested; 67%, grass-									1626	1.250	0.0055	
land; 17%, cultivated; 6%,									1628	1.890	0.0062	
miscellaneous, contour strip									1630	2.140	0.0070	
cropped.									1632	2.190	0.0079	
								1635	2.190	0.0093		
								1654	1.410	0.0164		
								1704	1.070	0.0190		
								1712	0.877	0.0207		
								1721	0.729	0.0222		
								1800	0.388	0.0267		
								1830	0.311	0.0289		
								2100	0.182	0.0366		
								2240	0.155	0.0401		
								2400	0.142	0.0426		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.101252100.



EVENT OF JULY 16 - 17, 1976  
 COSHOCTON, OHIO WATERSHED 166

STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

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
1976	P	0.0	0.33	2.24	3.79	2.12	0.60	1.28	1.69	4.21	1.81	0.21	0.09	18.37
	Q	0.0	0.0	0.025	0.177	0.001	0.0	0.0	0.0	0.011	0.005	0.0	0.0	0.219
STA AV	P	0.65	1.37	1.98	2.66	4.63	3.89	3.83	2.89	4.30	2.64	1.68	1.18	31.39
	Q	0.209	0.262	0.852	0.903	1.526	0.974	0.499	0.225	0.793	0.727	0.638	0.355	7.963

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	5 Hours	12 Hours	1 Day	2 Days	8 Days								
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1976	4-20	0.055	4-20	0.049	4-20	0.086	4-20	0.122	4-19	0.133	4-19	0.140	4-18	0.140	4-12	0.162

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
4-18	6.993	3- 8	3.516	8- 8	3.812	7-15	3.963	10- 2	4.519	7-14	5.185	11- 2	5.720	10-28	10.140
1957		1973		1973		1951		1959		1951		1974		1974	

NOTES: Watershed conditions: All native grass pasture located in region (H-80) of the Central Rolling Red Prairies land resource area. For map of watershed, see Hydrologic Data for Experimental Agricultural Watershed 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. STA AV precipitation data from R-3 recording rain gage record through 1964 combined with data from R-1 for 1965 through 1976. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV values. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1976 DAILY PRECIPITATION (inches)														STILLWATER, OKLAHOMA WATERSHED W-1
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	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	0.94	1.45	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0		
5	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	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	0.09		
7	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.57	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	0.26	0.0	0.0	0.0		
10	0.0	0.17	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.05	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0		
12	0.0	0.0	0.0	0.92	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.08	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	0.45	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.55	0.08	0.36	0.0	0.0	1.10	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0	0.0	0.01	0.0	0.0		
19	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.71	0.03	0.0	0.0		
20	0.0	0.0	0.0	0.44	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	0.45	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	1.20	0.04	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.22	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	0.05	0.0	0.0		
28	0.0	0.0	0.12	0.82	0.0	0.19	0.18	0.03	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.03	0.0	0.84	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.08	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.33	2.24	3.79	2.12	0.60	1.28	1.69	4.21	1.81	0.21	0.09		
STA AV	0.65	1.07	1.98	2.66	4.63	3.89	3.83	2.89	4.30	2.64	1.68	1.18		

NOTES: Amounts recorded at rain gage R-1 used for current monthly totals and for runoff events. STA AV values are based on 26 yr (1951-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)					STILLWATER, OKLAHOMA WATERSHED W-1						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.001	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	0.002	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	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.001	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	0.008	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 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.011	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	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.088	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	0.005	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.011	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	0.002	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	0.0006	0.0041	0.0	0.0	0.0	0.0	0.0003	0.0001	0.0	0.0	
INCHES	0.0	0.0	0.025	0.177	0.001	0.0	0.0	0.0	0.011	0.005	0.0	0.0	
STA AV	0.209	0.262	0.852	0.903	1.526	0.974	0.499	0.225	0.793	0.727	0.638	0.355	

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

1976			SELECTED RUNOFF EVENT							STILLWATER, OKLAHOMA WATERSHED W-1			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF APRIL 19 - 20, 1976													
4-19	RG 000001 0.45	0.014	4-19	RG 000001 2358	0.0	0.0	4-19	2400	0.0	0.0			
				2400	0.3000	0.01	4-20	8	0.007	0.0000			
			4-20	12	0.4500	0.10		25	0.020	0.0003			
				23	0.2182	0.14		31	0.042	0.0004			
				38	0.2000	0.19		40	0.067	0.0009			
WATERSHED CONDITIONS: 100% of area in native grass pasture in fair condition.				55	0.2471	0.26		50	0.113	0.0018			
				110	0.2400	0.32		56	0.165	0.0026			
				115	0.3600	0.35		103	0.221	0.0040			
				125	0.2400	0.39		108	0.281	0.0052			
				150	0.0	0.39		113	0.360	0.0068			
				212	0.1636	0.45		118	0.461	0.0088			
								124	0.631	0.0121			
								140	0.862	0.0236			
								154	0.933	0.0363			
								214	0.862	0.0541			
								248	0.631	0.0792			
								310	0.461	0.0911			
								326	0.360	0.0976			
								346	0.281	0.1040			
								404	0.221	0.1084			
								425	0.165	0.1124			
								452	0.113	0.1162			
								528	0.067	0.1194			
								600	0.042	0.1211			
								654	0.020	0.1228			
								850	0.007	0.1243			

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





STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.0	0.26	2.12	3.51	1.99	0.68	1.32	1.56	3.79	1.77	0.30	0.09	17.39															
	Q	0.0	0.0	0.002	0.123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.125															
STA AV	P	0.65	1.07	1.98	2.56	4.52	3.83	3.78	2.87	4.11	2.58	1.64	1.17	30.75															
	Q	0.119	0.249	0.678	0.707	1.321	0.789	0.412	0.063	0.679	0.590	0.409	0.215	6.232															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	4-20	0.046	4-20	0.041	4-20	0.070	4-20	0.116	4-19	0.119	4-19	0.121	4-18	0.121	4-13	0.123
MAXIMUMS FOR PERIOD OF RECORD																
	7-15	4.739	7-15	2.896	7-15	3.486	7-15	3.796	10-2	4.957	10-1	5.185	10-1	6.083	9-30	6.143
	1951		1951		1951		1951		1959		1959		1959		1959	

NOTES: Watershed conditions: All native grass cover, 32% in hay meadow and 68% in pasture. The pasture was grazed using normal procedures for the year. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, APS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gage. Precipitation and runoff records began July 1951. STA AV values are based on 26 yr (1951-76) record period. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV values. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1976 DAILY PRECIPITATION (inches)														STILLWATER, OKLAHOMA WATERSHED W-3													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1	0.0	0.0	0.0	0.0	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	0.96	1.34	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	0.57	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	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	4	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	
5	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	5	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.52	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	0.09	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	
7	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	7	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.48	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	0.48	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	0.29	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	
10	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	10	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.07	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	11	0.0	0.07	0.39	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.91	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.91	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.07	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	0.07	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	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	0.40	0.0	0.0	0.0	0.16	0.0	0.0	0.11	0.0	0.0	15	0.0	0.0	0.0	0.40	0.0	0.0	0.16	0.0	0.11	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	16	0.0	0.0	0.0	0.04	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.45	0.11	0.41	0.0	0.0	0.0	1.03	0.0	0.0	0.0	17	0.0	0.0	0.0	0.45	0.11	0.41	0.0	0.0	1.03	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.03	0.0	0.0	18	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.03	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.68	0.02	0.0	0.0	19	0.0	0.0	0.0	0.56	0.0	0.0	0.68	0.02	0.0	0.0	0.0	0.0	
20	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	20	0.0	0.0	0.0	0.31	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	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	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	0.42	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	0.42	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	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	0.92	0.04	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.92	0.04	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.53	0.0	0.17	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	0.03	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.11	0.75	0.0	0.21	0.20	0.04	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.11	0.75	0.0	0.21	0.20	0.04	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.81	0.0	0.0	29	0.0	0.0	0.18	0.0	0.0	0.0	0.04	0.0	0.81	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.09	0.0	0.0	0.0	
31	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	31	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.26	2.12	3.51	1.99	0.68	1.32	1.56	3.79	1.77	0.30	0.09	17.39	TOTAL	0.0	0.26	2.12	3.51	1.99	0.68	1.32	1.56	3.79	1.77	0.30	0.09	17.39
STA AV	0.65	1.07	1.98	2.56	4.52	3.83	3.78	2.87	4.11	2.58	1.64	1.17	6.232	STA AV	0.65	1.07	1.98	2.56	4.52	3.83	3.78	2.87	4.11	2.58	1.64	1.17	6.232

NOTES: Amounts recorded at rain gage R-3 used for current monthly totals and for runoff events. STA AV values are based on 26 yr (1951-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)										STILLWATER, OKLAHOMA 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	0.0	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	0.005	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	0.003	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	0.002	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	0.005	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	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.460	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	0.003	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	0.0003	0.0159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	0.002	0.123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.119	0.249	0.678	0.707	1.321	0.789	0.412	0.063	0.679	0.590	0.409	0.215	

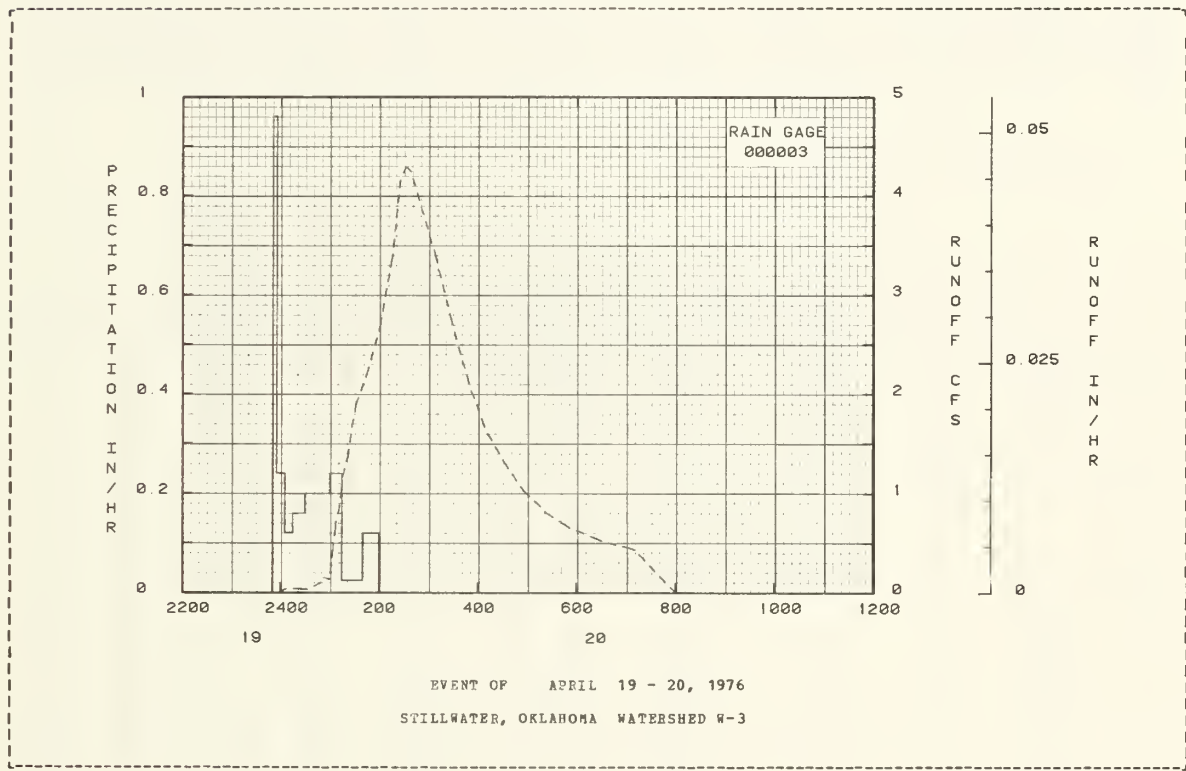
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258714.

1976		SELECTED RUNOFF EVENT										STILLWATER, OKLAHOMA WATERSHED #=3	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF APRIL 19 - 20, 1976													
4-19	RG 000003 0.48	0.002	4-19	RG 000003 2350	0.0	0.0	4-19	2400	0.014	0.0			
					0.9600	0.08	4-20	7	0.039	0.0000			
			4-20	5	0.2400	0.12		16	0.037	0.0001			
				15	0.1200	0.14		33	0.028	0.0002			
				30	0.1600	0.18		49	0.103	0.0004			
WATERSHED CONDITIONS:													
	100% of area in native			100	0.2000	0.28		53	0.146	0.0005			
	grass; 32% in hay meadow in			115	0.2400	0.34		100	0.131	0.0006			
	good condition, 46% in pas-			140	0.0240	0.35		105	0.505	0.0009			
	ture in fair condition, and			200	0.1200	0.39		108	0.721	0.0013			
	22% in pasture in poor							112	0.877	0.0018			
	condition.												
								115	1.093	0.0024			
								118	1.254	0.0030			
								122	1.373	0.0039			
								127	1.668	0.0053			
								132	1.891	0.0069			
								145	2.199	0.0117			
								201	2.687	0.0187			
								216	3.413	0.0269			
								225	4.165	0.0330			
								232	4.294	0.0384			
								238	4.238	0.0430			
								308	3.391	0.0635			
								329	2.686	0.0750			
								349	2.101	0.0836			
								408	1.661	0.0900			
								432	1.305	0.0964			
								456	1.023	0.1014			
								524	0.796	0.1060			
								552	0.651	0.1096			
								630	0.525	0.1136			

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

1976 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 19 - 20, 1976 (CONTINUED)										
							4-20	710	0.430	0.1171
								800	0.0	0.1190
								850	0.0	0.1190

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





RIESEL (WACO), TEXAS WATERSHED C

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 31 min. 11 sec. N.; Long. 96 deg. 53 min. 34 sec. W.

AREA: 579.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED C	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.16	1.27	2.70	7.75	6.65	1.75	6.82	0.10	5.34	6.94	1.71	3.26	44.45	
	Q	0.0	0.0	0.0	2.022	1.741	0.257	1.577	0.0	0.0	2.362	0.062	1.787	9.807	
STA AV	P	1.93	2.64	2.23	4.05	4.03	3.24	1.95	2.57	3.46	3.49	2.97	2.38	34.95	
	Q	0.498	0.638	0.621	1.094	0.923	0.609	0.249	0.165	0.332	0.567	0.521	0.600	6.817	

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										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
1976	5-31	0.681	5-31	0.591	5-31	0.921	10-4	1.545	10-4	1.840	10-4	1.905	10-4	1.916	10-2	1.918

MAXIMUMS FOR PERIOD OF RECORD																
	3-29	1.580	3-29	1.500	3-29	2.520	3-29	3.550	3-29	3.800	3-29	4.480	9-7	4.780	4-19	8.760
	1965		1965		1965		1965		1965		1965		1942		1957	

NOTES: Watershed conditions: 76% pasture; 15% row grain sorghum; 4% fall planted oats; 2% gravel and paved roads; 3% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began 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 gages 5, 14 and 20. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY AIR TEMPERATURE (degrees F)														RIESEL (WACO), TEXAS WATERSHED C											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	72	49	70	35	81	48	78	44	71	55	89	60	93	70	96	69	87	68	88	58	66	44	58	27	
2	72	43	82	35	82	63	79	44	82	49	88	67	93	69	98	73	77	69	88	61	74	44	59	29	
3	45	31	80	41	80	61	78	64	82	48	87	65	93	71	94	72	87	71	86	61	75	40	69	29	
4	46	24	79	54	84	67	77	64	80	56	88	67	93	70	92	66	94	71	85	67	70	50	68	35	
5	44	29	75	41	81	45	80	55	77	59	87	65	85	68	97	70	93	75	78	58	67	38	66	45	
6	61	40	47	31	54	41	73	55	83	56	87	65	80	68	98	71	93	68	70	45	75	43	57	45	
7	60	21	51	26	51	44	73	58	82	54	88	62	87	68	101	73	94	68	70	49	75	50	48	27	
8	38	12	73	33	63	44	74	50	73	56	87	65	88	71	103	75	94	70	62	44	76	41	62	31	
9	53	19	78	42	53	39	77	55	73	22	88	55	80	71	103	72	93	70	78	39	75	46	63	34	
10	69	41	76	60	69	39	76	56	80	56	87	63	80	69	102	73	90	65	86	54	77	53	64	52	
11	69	43	74	58	70	56	76	62	86	65	92	65	85	73	99	70	87	64	87	53	78	52	63	33	
12	73	34	74	51	76	61	80	55	83	60	90	70	87	70	95	69	89	64	87	52	52	38	50	36	
13	74	53	74	57	77	35	79	63	82	61	89	69	88	88	98	71	89	59	81	60	46	30	54	41	
14	69	34	76	55	58	39	78	66	77	54	88	69	88	82	97	70	90	68	82	58	36	30	54	41	
15	65	63	76	60	77	36	79	62	79	54	91	71	87	70	95	70	90	67	80	65	46	28	53	43	
16	64	39	77	62	68	38	77	50	82	62	92	68	87	68	97	70	91	68	65	52	42	32	65	40	
17	70	34	78	59	68	36	76	68	83	59	90	72	86	69	96	69	91	69	67	45	50	34	65	39	
18	74	36	77	46	76	44	76	54	79	52	91	74	91	72	96	72	91	68	73	44	63	40	61	50	
19	74	34	78	44	79	61	77	63	79	54	92	69	91	69	95	69	90	71	73	42	59	46	64	55	
20	66	40	81	59	89	67	78	55	78	63	84	61	92	69	94	68	91	67	62	34	71	50	65	36	
21	69	24	76	41	83	44	78	51	82	63	92	61	91	70	94	66	82	61	64	40	71	43	45	23	
22	70	35	59	32	89	44	82	58	85	64	90	72	91	71	93	69	83	55	65	44	72	34	51	33	
23	77	39	75	32	76	48	80	64	86	66	93	72	92	70	94	69	88	59	74	60	57	39	58	30	
24	73	53	74	33	65	53	86	69	90	64	94	71	93	71	96	69	88	63	72	61	64	48	57	33	
25	66	48	70	46	80	64	83	83	90	70	93	65	94	73	97	67	90	65	66	51	64	55	56	49	
26	74	31	78	43	81	64	84	50	85	62	88	74	94	70	96	70	93	67	74	40	81	54	66	30	
27	53	22	77	48	79	63	78	60	84	61	90	70	93	69	98	70	93	62	59	47	80	36	69	27	
28	61	26	76	50	81	61	80	62	82	53	89	71	94	71	98	71	83	58	53	41	36	24	67	32	
29	71	37	79	56	88	45	80	58	88	60	92	69	95	70	96	69	76	58	48	42	81	19	68	39	
30	74	37			85	47	69	54	88	70	92	69	95	72	97	68	85	56	66	38	56	22	67	43	
31	70	39			72	40			89	62			95	71	87	69			67	43				67	16
AV.	65	36	74	46	75	50	78	53	82	58	90	68	90	71	97	70	89	65	73	50	65	40	61	36	
MEAN	50.5		59.9		62.3		68.3		69.9		78.6		80.4		83.3		77.1		61.4		52.3		48.5		
STA AV	56	38	62	40	69	47	77	56	83	63	89	70	93	72	93	72	88	66	81	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 values are based on 38 yr (1939-76) period.

1976		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	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	0.0					
2	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.92	0.0	0.0	0.0					
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.38	0.0	0.0					
4	0.0	0.0	0.42	0.26	0.0	0.0	0.0	1.65	0.0	0.0	3.46	0.0					
5	0.0	0.15	0.0	0.57	1.25	0.0	0.08	0.0	0.0	0.0	0.99	0.0					0.91
6	0.0	0.0	0.23	0.0	0.0	0.0	2.33	0.0	0.0	0.0	0.0	0.0					0.24
7	0.0	0.0	0.54	0.49	0.29	0.0	0.01	0.0	0.0	0.13	0.0	0.0					0.0
8	0.0	0.0	0.35	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0					0.0
9	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
10	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0					1.54
11	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.57
12	0.0	0.0	0.0	0.0	0.60	0.0	0.02	0.0	0.0	0.0	0.0	0.12					0.0
13	0.0	0.0	0.10	0.0	0.04	0.0	0.08	0.0	0.0	0.0	0.0	0.15					0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	1.38	0.0 T	0.23	0.0					0.0
15	0.0	0.0	0.0	0.69	0.0	0.32	0.95	0.0	0.0	0.03	0.17	0.0					0.0
16	0.0	0.0	0.0	0.52	0.0	0.0	1.04	0.04	0.0	0.15	0.0	0.0					0.0
17	0.0	0.85	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0					0.0
18	0.0	0.0	0.0	3.34	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01					0.0
19	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.15	0.23	0.39	0.0					0.0
20	0.0	0.27	0.0	0.47	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0					0.0
21	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
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0					0.0
23	0.0	0.0	0.30	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0
24	0.05	0.0	0.58	0.10	0.0	0.07	0.0	0.0	0.0	0.12	0.0	0.0					0.0
25	0.04	0.0	0.0	0.0	0.95	1.17	0.03	0.0	0.0	0.0	0.64	0.0					0.0
26	0.0	0.0	0.0	0.0	0.04	0.01	0.0	0.0	0.54	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	0.80	0.0	0.0	0.0	0.0	1.04	0.05	0.0	0.0					0.0
29	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.05	0.0	1.78	0.0	0.0					0.0
30	0.0	0.0	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0
31	0.02	0.0	0.0	2.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0
TOTAL	0.16	1.27	2.70	7.75	6.65	1.75	6.82	0.10	5.34	6.54	1.71	3.26					
STA AV	1.93	2.64	2.23	4.05	4.03	3.24	1.95	2.57	3.46	3.49	2.97	2.38					

NOTES: Precipitation values are Thiessen weighted average of rain gages 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 values are based on 31 yr (1938-July 1943, March 1949-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976		MEAN 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	0.053	5.855	0.0	0.0	0.0	0.0	0.031	0.004					
2	0.0	0.0	0.0	0.0	0.013	0.317	0.0	0.0	0.0	0.0	0.010	0.002					
3	0.0	0.0	0.0	0.0	0.003	0.032	0.0	0.0	0.0	0.0	0.004	0.002					
4	0.0	0.0	0.0	0.0	0.0 T	0.008	0.019	0.0	0.0	10.824	0.002	0.001					
5	0.0	0.0	0.0	0.0	3.637	0.001	0.011	0.0	0.0	35.587	0.001	0.163					
6	0.0	0.0	0.0	0.0	2.549	0.0 T	22.615	0.0	0.0	0.211	0.001	8.260					
7	0.0	0.0	0.0	0.0	0.208	0.0	0.745	0.0	0.0	0.020	0.0 T	0.536					
8	0.0	0.0	0.0	0.0	0.210	0.0 T	0.062	0.0	0.0	0.005	0.0	0.136					
9	0.0	0.0	0.0	0.0	0.070	0.0	0.013	0.0	0.0	0.001	0.0	0.059					
10	0.0	0.0	0.0	0.0	0.425	0.0	0.010	0.0	0.0	0.0	0.0	3.889					
11	0.0	0.0	0.0	0.0	0.112	0.0	0.006	0.0	0.0	0.0	0.0 T	28.729					
12	0.0	0.0	0.0	0.0	0.086	0.0	0.001	0.0	0.0	0.0	0.0 T	1.001					
13	0.0	0.0	0.0	0.0	5.738	0.0	0.0 T	0.0	0.0	0.0	0.009	0.266					
14	0.0	0.0	0.0	0.0	0.297	0.0	0.0 T	0.0	0.0	0.0	0.011	0.129					
15	0.0	0.0	0.0	0.0	0.066	0.0	1.203	0.0	0.0	0.0	0.008	0.084					
16	0.0	0.0	0.0	0.121	0.023	0.0	7.709	0.0	0.0	0.0	0.005	0.053					
17	0.0	0.0	0.0	0.0	0.006	0.0	5.531	0.0	0.0	0.0	0.005	0.035					
18	0.0	0.0	0.0	31.077	0.003	0.0	0.352	0.0	0.0	0.0	0.004	0.027					
19	0.0	0.0	0.0	8.049	0.001	0.0	0.065	0.0	0.0	0.0	0.010	0.026					
20	0.0	0.0	0.0	3.704	0.001	0.0	0.012	0.0	0.0	0.0	0.009	0.016					
21	0.0	0.0	0.0	0.174	0.002	0.0	0.003	0.0	0.0	0.0	0.005	0.009					
22	0.0	0.0	0.0	0.024	0.0 T	0.0	0.001	0.0	0.0	0.0	0.003	0.006					
23	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.004					
24	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.004					
25	0.0	0.0	0.0	0.001	0.005	0.0	0.0	0.0	0.0	0.0	0.157	0.034					
26	0.0	0.0	0.0	0.001	0.002	0.0	0.0	0.0	0.0	0.0	1.017	0.002					
27	0.0	0.0	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.156	0.003					
28	0.0	0.0	0.0	0.004	0.0 T	0.0	0.0	0.0	0.0	0.0	0.035	0.004					
29	0.0	0.0	0.0	5.751	0.0 T	0.0	0.0	0.0	0.0	9.481	0.013	0.003					
30	0.0	0.0	0.0	0.274	0.0	0.0	0.0	0.0	0.0	1.203	0.006	0.003					
31	0.0	0.0	0.0	28.832	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0 T					
MEAN	0.0	0.0	0.0	1.6396	1.3660	0.2084	1.2373	0.0	0.0	1.8536	0.0503	1.4019					
INCHES	0.0	0.0	0.0	2.022	1.741	0.257	1.577	0.0	0.0	2.362	0.062	1.787					
STA AV	0.438	0.538	0.621	1.094	0.923	0.609	0.249	0.165	0.332	0.567	0.521	0.600					

NOTES: To convert mean daily discharge in CPS 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 values are based on 31 yr (1938-July 1943, March 1949-76) record period.

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED C							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976										
4-18	RG 000014 0.0	0.0	4-18	RG 000014 35	0.0	0.0	4-18	314	0.013	0.0
				39	0.9000	0.06		319	0.031	0.0
				45	0.6000	0.12		323	0.077	0.0000
				100	0.0800	0.14		324	0.119	0.0000
				130	0.1000	0.19		326	0.166	0.0000
WATERSHED CONDITIONS: 76% pasture; 15% row grain sorghum; 4% fall planted oats; 2% gravel and paved roads; 3% other. Approx. 90% of other is Johnson- grass and weeds in Conser- vation reserve, neither tilled nor grazed.				159	0.1034	0.24		329	0.309	0.0000
				210	0.3273	0.30		331	0.385	0.0001
				229	0.2211	0.37		333	0.444	0.0001
				234	0.6000	0.42		335	0.566	0.0001
				239	0.3600	0.45		339	1.055	0.0002
				259	0.2700	0.54		341	1.703	0.0003
				304	0.9600	0.62		343	3.019	0.0004
				314	0.2400	0.66		345	5.452	0.0006
				319	0.7200	0.72		347	8.053	0.0010
				324	0.8400	0.79		349	10.699	0.0016
				329	1.2000	0.89		351	13.001	0.0023
				334	0.7200	0.95		353	14.434	0.0030
				339	1.2000	1.05		355	16.189	0.0039
				344	0.9600	1.13		357	17.651	0.0049
				359	0.0800	1.15		359	18.973	0.0059
				414	0.2800	1.22		401	19.975	0.0070
				429	0.1200	1.25		404	20.467	0.0088
				444	0.2000	1.30		406	20.715	0.0099
				459	0.3600	1.39		409	20.765	0.0117
				529	0.0800	1.43		413	20.122	0.0141
				544	0.2000	1.48		417	19.208	0.0163
				559	0.4000	1.58		421	17.695	0.0184
				629	0.2200	1.69		425	16.398	0.0204
				659	0.1000	1.74		427	15.859	0.0213
				729	0.2600	1.87		429	15.453	0.0222
				744	0.2400	1.93		431	15.655	0.0231
				759	0.1200	1.96		433	16.822	0.0240
				859	0.0700	2.03		435	18.973	0.0250
				959	0.0800	2.11		437	21.630	0.0262
				1029	0.2800	2.25		442	28.394	0.0297
				1059	0.1000	2.30		445	32.594	0.0324
				1159	0.0200	2.32		449	38.415	0.0364
				1229	0.1600	2.40		454	43.569	0.0423
								459	48.275	0.0488
								504	53.148	0.0560
								509	57.411	0.0639
								514	61.923	0.0725
								519	65.861	0.0816
								524	67.899	0.0911
								529	69.242	0.1009
								534	69.859	0.1108
								539	69.242	0.1208
								549	67.657	0.1403
								559	65.624	0.1593
								609	63.062	0.1777
								619	60.911	0.1954
								629	59.690	0.2126
								700	56.243	0.2639
								729	54.886	0.3099
								800	53.351	0.3578
								830	52.745	0.4032
								900	51.551	0.4479
								920	49.605	0.4768
								940	46.422	0.5042
								1000	43.135	0.5298
								1020	40.600	0.5537
								1050	38.733	0.5876
								1109	38.336	0.6085
								1130	37.863	0.6314
								1150	37.317	0.6528
								1159	37.162	0.6624
								1209	37.240	0.6730
								1219	37.706	0.6837
								1229	37.472	0.6944
								1239	36.777	0.7050

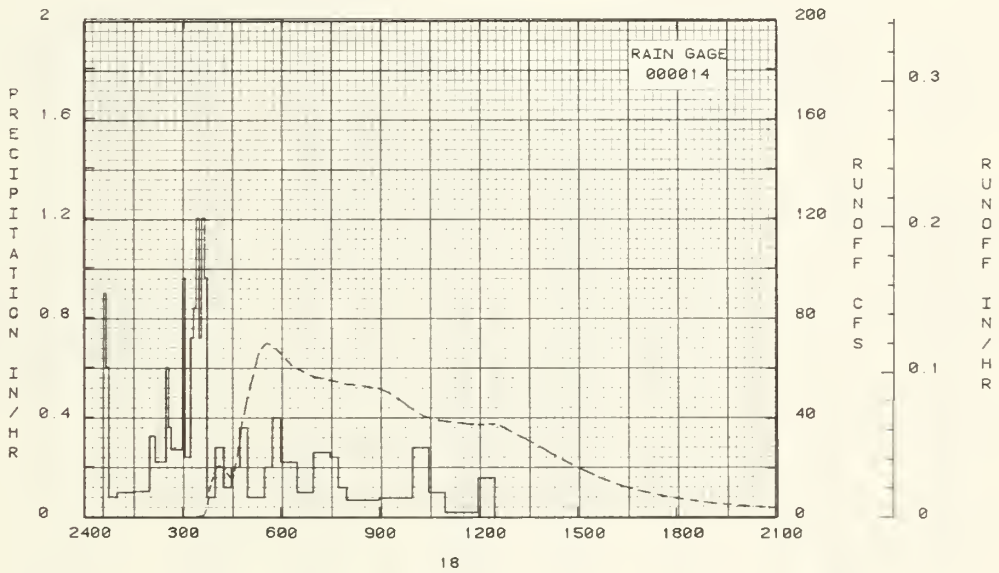
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)
								Acc.
								(inches)

EVENT OF APRIL 18, 1976 (CONTINUED)

4-18	1259	34.455	0.7254
	1319	32.175	0.7444
	1339	29.812	0.7621
	1400	27.273	0.7792
	1420	24.613	0.7940
	1449	21.373	0.8131
	1510	19.114	0.8252
	1530	17.037	0.8355
	1539	16.106	0.8398
	1559	14.473	0.8485
	1619	12.931	0.8563
	1639	11.645	0.8633
	1659	10.607	0.8697
	1729	9.115	0.8781
	1759	7.930	0.8854
	1859	6.088	0.8975
	1959	4.885	0.9069
	2040	4.316	0.9122
	2049	4.254	0.9133

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



EVENT OF APRIL 18, 1976  
 RIESEL (WACO), TEXAS WATERSHED C



RIESEL (WACO), TEXAS WATERSHED D

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 30 min. 38 sec. N.; Long. 96 deg. 53 min. 22 sec. W.

AREA: 1110.00 acres 1.73 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						RIESEL (WACO), TEXAS WATERSHED D							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976 P	0.17	1.35	2.88	8.21	7.00	1.88	6.59	0.10	5.48	7.08	1.79	3.35	45.92
1976 Q	0.0	0.0	0.001	1.623	1.895	0.205	1.347	0.0	0.008	3.385	0.041	2.010	10.715
STA AV P	1.99	2.63	2.29	4.03	3.95	3.29	1.95	2.47	3.42	3.35	2.90	2.39	34.67
STA AV Q	0.508	0.617	0.645	1.109	1.002	0.613	0.256	0.183	0.332	0.598	0.508	0.590	6.960

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					
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976	5-31	0.843	5-31	0.767	10-4	1.213	10-4	2.625	10-4	2.929	10-4	2.988	10-4	2.998	10-1	2.999

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	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		1957	

NOTES: Watershed conditions: 65% pasture; 13% row grain sorghum; 9% fall planted oats; 2% gravel and paved roads; 11% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20 and 26A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	DAILY PRECIPITATION (inches)					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	0.0	0.85	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.95	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.37	0.0	0.0	0.0	
4	0.0	0.0	0.46	0.31	0.0	0.0	1.76	0.0	0.0	3.43	0.0	0.0	
5	0.0	0.15	0.0	0.55	1.29	0.0	0.15	0.0	0.0	1.02	0.0	0.85	
6	0.0	0.0	0.23	0.0	0.0	0.0	1.83	0.0	0.0	0.0	0.0	0.36	
7	0.0	0.0	0.57	0.53	0.30	0.0	0.03	0.0	0.0	0.16	0.0	0.0	
8	0.0	0.0	0.40	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.33	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	0.17	0.0	0.0	0.0	0.0	1.59	
11	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.59	
12	0.0	0.0	0.0	0.0	0.62	0.0	0.08	0.0	0.0	0.0	0.14	0.0	
13	0.0	0.0	0.11	0.0	0.04	0.0	0.09	0.0	0.0	0.0	0.18	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	1.41	0.02	0.25	0.0 T	
15	0.0	0.0	0.0	0.75	0.0	0.33	0.98	0.0	0.0	0.07	0.09	0.0	
16	0.0	0.0	0.0	0.60	0.0	0.0	1.01	0.03	0.0	0.12	0.0	0.0	
17	0.0	0.93	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	3.47	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	
19	0.05	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.15	0.23	0.46	0.0	
20	0.0	0.27	0.0	0.51	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.03	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.38	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.03	0.0	0.64	0.08	0.0	0.06	0.0	0.0	0.0	0.12	0.0	0.0	
25	0.07	0.0	0.0	0.0	1.06	1.25	0.03	0.0	0.0	0.0	0.66	0.0	
26	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.54	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	0.87	0.0	0.0	0.0	0.0	1.13	0.05	0.0	0.0	
29	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.04	0.0	1.86	0.0	0.0	
30	0.0	0.0	0.09	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.02	0.0	0.0	0.0	2.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.17	1.35	2.88	8.21	7.00	1.88	6.59	0.10	5.48	7.08	1.79	3.39	
STA AV	1.99	2.63	2.29	4.03	3.95	3.29	1.95	2.47	3.42	3.35	2.90	2.39	

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 32 yr (1937-July 1943, March 1949-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 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	0.06	9.23	0.0	0.0	0.0	0.0	0.05	0.01
2	0.0	0.0	0.0	0.0	0.01	0.28	0.0	0.0	0.0	0.0	0.02	0.01
3	0.0	0.0	0.0	0.0	0.0 T	0.05	0.0	0.0	0.0	0.0	0.01	0.00
4	0.0	0.0	0.0	0.0	0.0	0.01	0.24	0.0	0.0	30.51	0.00	0.00
5	0.0	0.0	0.0	0.0	5.03	0.00	0.01	0.0	0.0	108.93	0.00	0.10
6	0.0	0.0	0.0	0.0	4.00	0.0	38.15	0.0	0.0	0.36	0.0	12.77
7	0.0	0.0	0.0	0.02	0.27	0.0	1.03	0.0	0.0	0.04	0.0	0.86
8	0.0	0.0	0.04	0.0 T	0.21	0.0	0.09	0.0	0.0	0.01	0.0	0.22
9	0.0	0.0	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0 T	0.0	0.09
10	0.0	0.0	0.0	0.0	0.34	0.0	0.02	0.0	0.0	0.0	0.0	9.50
11	0.0	0.0	0.0	0.0	0.10	0.0	0.02	0.0	0.0	0.0	0.0	67.40
12	0.0	0.0	0.0	0.0	0.08	0.0	0.00	0.0	0.0	0.0	0.0	1.67
13	0.0	0.0	0.0	0.0	7.49	0.0	0.0	0.0	0.0	0.0	0.01	0.44
14	0.0	0.0	0.0	0.0	0.38	0.0	0.00	0.0	0.18	0.0	0.01	0.21
15	0.0	0.0	0.0	0.00	0.06	0.0	1.93	0.0	0.00	0.0	0.01	0.13
16	0.0	0.0	0.0	0.27	0.01	0.0	12.02	0.0	0.0	0.0	0.00	0.09
17	0.0	0.0	0.0	0.00	0.00	0.0	8.60	0.0	0.0	0.0	0.00	0.06
18	0.0	0.0	0.0	55.43	0.0	0.0	0.56	0.0	0.0	0.0	0.00	0.05
19	0.0	0.0	0.0	14.74	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.05
20	0.0	0.0	0.0	5.70	0.0	0.0	0.02	0.0	0.0	0.0	0.03	0.03
21	0.0	0.0	0.0	0.25	0.0	0.0	0.00	0.0	0.0	0.0	0.01	0.01
22	0.0	0.0	0.0	0.02	0.0	0.0	0.00	0.0	0.0	0.0	0.01	0.01
23	0.0	0.0	0.0	0.00	0.0	0.0	0.0 T	0.0	0.0	0.0	0.00	0.01
24	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.01
25	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.16	0.01
26	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	1.24	0.00
27	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.22	0.00
28	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.20	0.0	0.05	0.00
29	0.0	0.0	0.0	6.21	0.0	0.0	0.0	0.0	0.0	15.79	0.02	0.00
30	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	2.00	0.01	0.00
31	0.0	0.0	0.0	0.0	69.49	0.0	0.0	0.0	0.0	0.22	0.0	0.0 T
MEAN	0.0	0.0	0.0017	2.8339	2.8503	0.3186	2.0262	0.0	0.0125	5.0922	0.0636	3.0242
INCHES	0.0	0.0	0.001	1.823	1.895	0.205	1.347	0.0	0.008	3.385	0.041	2.010
STA AV	0.506	0.17	0.645	1.105	1.002	0.613	0.256	0.183	0.332	0.598	0.508	0.590

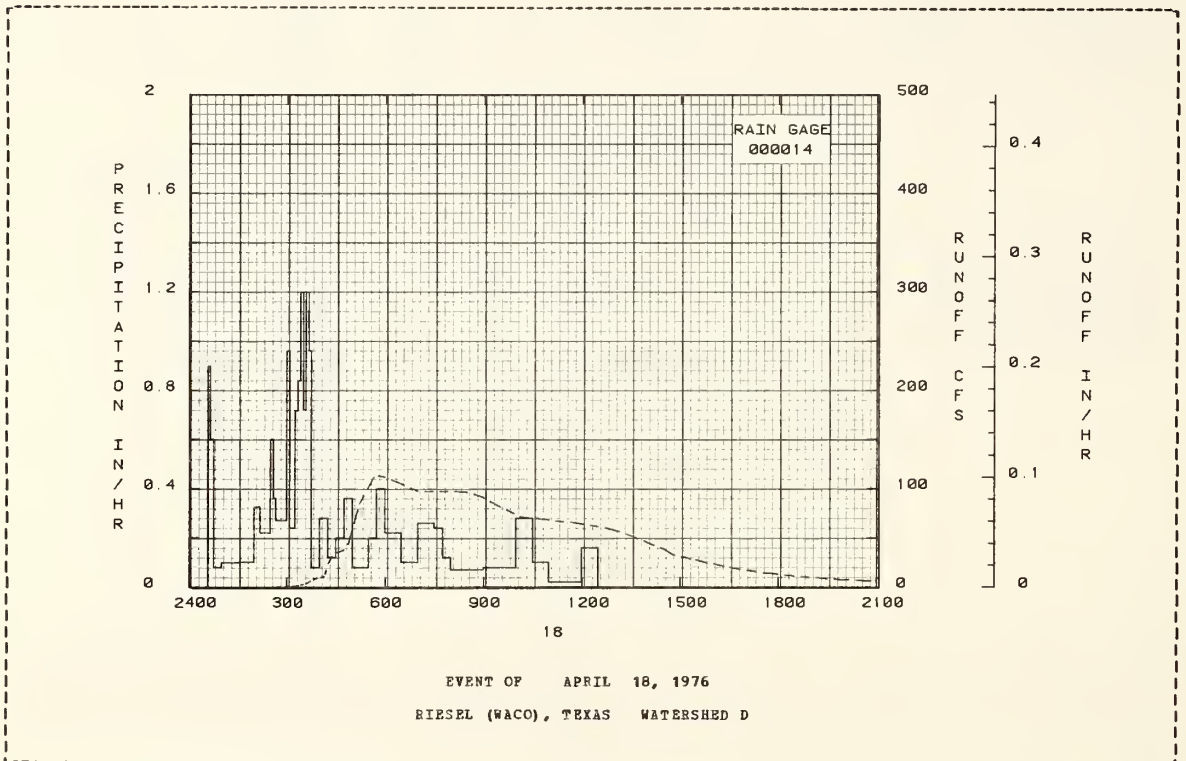
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.021443. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 32 yr (1937-July 1943, March 1945-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED D											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
4-18	RG 000014	0.000	4-18	35	0.0	0.0	4-18	243	0.399	0.0	
	D.0			39	0.9000	0.06		249	0.466	0.0000	
				45	0.6000	0.12		257	0.586	0.0001	
				100	0.0800	0.14		304	0.879	0.0002	
				130	0.1000	0.19		309	1.070	0.0002	
				159	0.1034	0.24		313	1.299	0.0003	
				210	0.3273	0.30		317	1.661	0.0004	
				229	0.2211	0.37		320	1.881	0.0005	
				234	0.6000	0.42		325	2.542	0.0006	
				239	0.3600	0.45		329	3.009	0.0008	
				259	0.2700	0.54		335	4.335	0.0011	
				304	0.9600	0.62		343	6.409	0.0018	
				314	0.2400	0.66		349	8.446	0.0024	
				319	0.7200	0.72		355	9.400	0.0032	
				324	0.8400	0.79		402	9.951	0.0043	
				329	1.2000	0.89		407	11.253	0.0050	
				334	0.7200	0.95		410	14.003	0.0056	
				339	1.2000	1.05		412	17.406	0.0061	
				344	0.9600	1.13		415	24.479	0.0070	
				359	0.0800	1.15		422	31.084	0.0099	
				414	0.2800	1.22		433	35.808	0.0154	
				429	0.1200	1.25		444	38.093	0.0214	
				444	0.2000	1.30		452	44.687	0.0264	
				459	0.3600	1.39		459	58.042	0.0317	
				529	0.0800	1.43		505	69.637	0.0374	
				544	0.2000	1.48		509	78.351	0.0418	
				559	0.4000	1.58		513	85.241	0.0467	
				629	0.2200	1.69		520	93.266	0.0560	
				659	0.1000	1.74		530	103.069	0.0706	
				729	0.2600	1.87		539	112.152	0.0850	

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED D							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
4-18	744	0.2400	1.93	4-18	547	113.427	0.0985			
	759	0.1200	1.96		559	111.645	0.1186			
	859	0.0700	2.03		621	106.921	0.1544			
	959	0.0800	2.11		659	97.274	0.2122			
	1029	0.2800	2.25		809	97.274	0.3136			
	1059	0.1000	2.30		829	96.372	0.3424			
	1159	0.0200	2.32		900	90.669	0.3856			
	1229	0.1600	2.40		930	81.051	0.4239			
					1009	71.208	0.4681			
					1059	67.923	0.5199			
					1149	65.089	0.5694			
					1249	59.400	0.6251			
					1309	56.125	0.6423			
					1329	52.307	0.6584			
					1359	45.174	0.6802			
					1429	38.521	0.6989			
					1449	32.065	0.7094			
					1509	30.193	0.7186			
					1519	28.860	0.7230			
					1529	27.445	0.7272			
					1549	24.829	0.7350			
					1609	22.731	0.7421			
					1620	21.286	0.7457			
					1632	19.961	0.7494			
					1650	18.229	0.7545			
					1719	15.719	0.7618			
					1759	13.036	0.7704			
					1829	11.253	0.7758			
					1929	8.658	0.7847			
					2009	7.399	0.7895			
					2049	6.473	0.7936			

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



RIESEL (WACO), TEXAS WATERSHED G

LOCATION: McLennan and Falls Counties, Texas; 16 mi. S.E. of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 59 sec. N.; Long. 96 deg. 52 min. 06 sec. W.

AREA: 4360.00 acres 6.64 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED G															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.16	1.11	2.85	8.23	7.23	1.99	5.89	0.08	5.10	5.97	1.67	3.12	43.42															
	Q	0.0	0.0	0.0	1.620	1.421	0.614	0.997	0.0	0.008	1.351	0.049	1.476	7.736															
STA AV	P	2.14	2.67	2.27	3.82	3.67	3.67	2.23	2.76	3.63	3.57	2.92	2.61	36.17															
	Q	0.705	0.740	0.705	0.802	0.749	0.914	0.278	0.148	0.342	0.504	0.557	0.641	7.085															

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	Date	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days					
		Date	Date	Date	Date	Vol.	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		5-31	0.219	5-31	0.216	5-31	0.420	5-31	1.016	5-31	1.238	5-31	1.290	4-18	1.367	4-14	1.483

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

NOTES: Watershed conditions: 40% pasture; 1% cotton; 4% corn; 12% fall planted small grain, largely oats; 20% sorghum; 2% gravel and paved roads; 21% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED G													
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	0.45	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	1.00	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.0	0.38	0.49	0.0	0.03	1.48	0.0	0.0	0.0	2.54	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
5	0.0	0.77	0.0	0.52	1.56	0.01	0.04	0.0	0.0	0.0	0.91	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75				
6	0.0	0.0	0.24	0.0	0.0	0.0	1.22	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	0.23				
7	0.0	0.0	0.51	0.54	0.37	0.0	0.03	0.0	0.0	0.0	0.16	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.45	0.0	0.0	0.0	0.01	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				
9	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.0	0.22	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	1.51				
11	0.0	0.0	0.0	0.0	0.09	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	0.58				
12	0.0	0.0	0.0	0.0	0.55	0.0	0.03	0.0	0.0	0.0	0.0	0.14	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.13	0.0	0.04	0.0	0.04	0.0	0.0	0.0	0.0	0.17	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.98	0.01	0.26	0.05	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.73	0.0	0.34	1.03	0.0	0.0	0.07	0.07	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.46	0.0	0.0	1.26	0.03	0.0	0.10	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
17	0.0	0.81	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.0	0.0	0.0	3.36	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
19	0.06	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.23	0.21	0.45	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.23	0.0	0.48	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.43	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	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.02	0.0	0.63	0.08	0.0	0.05	0.0	0.0	0.0	0.11	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.08	0.0	0.0	0.0	1.33	1.27	0.01	0.0	0.0	0.0	0.58	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.48	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	1.53	0.08	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.03	0.0	1.78	0.0	0.0	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.0	0.08	0.0	0.0	0.05	0.0	0.0	0.01	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.02		0.0		2.69		0.0	0.0		0.0		0.0	31	0.02										0.0			
TOTAL	0.15	1.11	2.85	8.73	7.23	1.99	5.89	0.03	5.10	5.97	1.67	3.12	STA AV	2.14	2.67	2.27	3.82	3.67	3.87	2.23	2.76	3.63	3.57	2.92	2.61		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV values are based on 24 yr record period. Estimate codes may indicate that non-significant event totals are included.



1976 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	0.80	109.50	0.0	0.0	0.0	0.0	0.48	0.06
2	0.0	0.0	0.0	0.0	0.38	2.02	0.0	0.0	0.0	0.0	0.24	0.05
3	0.0	0.0	0.0	0.0	0.22	0.42	0.0	0.0	0.0	0.0	0.10	0.05
4	0.0	0.0	0.0	0.0	0.06	0.22	1.22	0.0	0.0	1.05	0.05	0.04
5	0.0	0.0	0.0	0.0	46.91	0.09	0.19	0.0	0.0	187.70	0.03	0.27
6	0.0	0.0	0.0	0.0	30.62	0.03	36.01	0.0	0.0	2.36	0.02	21.70
7	0.0	0.0	0.0	0.05	6.45	0.02	4.44	0.0	0.0	0.25	0.02	3.61
8	0.0	0.0	0.0	0.07	3.64	0.02	0.39	0.0	0.0	0.06	0.01	1.07
9	0.0	0.0	0.0	0.00	0.94	0.00	0.08	0.0	0.0	0.01	0.01	0.53
10	0.0	0.0	0.0	0.0	1.54	0.00	0.03	0.0	0.0	0.00	0.02	8.81
11	0.0	0.0	0.0	0.0	0.75	0.0	0.06	0.0	0.0	0.0	0.02	211.22
12	0.0	0.0	0.0	0.0	0.34	0.0	0.01	0.0	0.0	0.0	0.04	10.33
13	0.0	0.0	0.0	0.0	17.82	0.0	0.00	0.0	0.0	0.0	0.18	3.56
14	0.0	0.0	0.0	0.0	2.00	0.0	0.0	0.0	0.0	0.0	0.23	2.42
15	0.0	0.0	0.0	0.0	0.43	0.0	7.57	0.0	0.0	0.0	0.08	1.97
16	0.0	0.0	0.0	0.91	0.14	0.01	78.83	0.0	0.0	0.0	0.05	1.26
17	0.0	0.0	0.0	0.31	0.03	0.13	49.81	0.0	0.0	0.0	0.03	0.84
18	0.0	0.0	0.0	158.69	0.00	0.04	3.65	0.0	0.0	0.0	0.03	0.64
19	0.0	0.0	0.0	89.02	0.00	0.01	0.82	0.0	0.0	0.0	0.18	0.73
20	0.0	0.0	0.0	22.32	0.00	0.0	0.19	0.0	0.0	0.00	0.49	0.63
21	0.0	0.0	0.0	1.95	0.00	0.0	0.05	0.0	0.0	0.00	0.19	0.31
22	0.0	0.0	0.0	0.27	0.01	0.0	0.05	0.0	0.0	0.0	0.08	0.26
23	0.0	0.0	0.0	0.06	0.09	0.0	0.02	0.0	0.0	0.0 T	0.05	0.23
24	0.0	0.0	0.0	0.04	0.02	0.0	0.00	0.0	0.0	0.00	0.04	0.21
25	0.0	0.0	0.0	0.01	12.13	0.43	0.0	0.0	0.0	0.01	0.37	0.21
26	0.0	0.0	0.0	0.00	5.84	0.03	0.0	0.0	0.0	0.00	4.23	0.16
27	0.0	0.0	0.0	0.00	0.52	0.00	0.0	0.0	0.0	0.0 T	1.31	0.14
28	0.0	0.0	0.0	0.93	0.11	0.0	0.0	0.0	1.48	0.0 T	0.30	0.11
29	0.0	0.0	0.0	57.31	0.14	0.0	0.0	0.0	0.02	44.92	0.12	0.09
30	0.0	0.0	0.0	3.05	0.03	0.0	0.0	0.0	0.0	10.70	0.07	0.09
31	0.0	0.0	0.0		129.44		0.0	0.0		1.56		0.05
MEAN	0.0	0.0	0.0	11.165	8.432	3.766	5.917	0.0	0.050	8.020	0.302	8.763
INCHES	0.0	0.0	0.0	1.820	1.421	0.614	0.997	0.0	0.008	1.351	0.049	1.476
STA AV	0.705	0.740	0.705	0.802	0.749	0.914	0.278	0.148	0.342	0.504	0.557	0.641

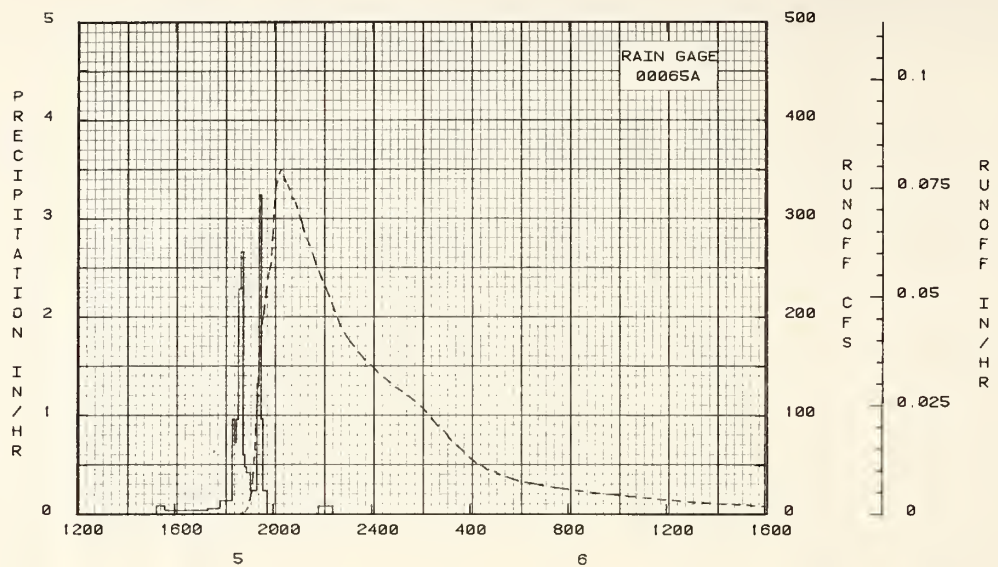
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV values are based on 24 yr record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED G											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OP MAY 5 - 6, 1976											
5- 5	RG 00055A 0.17	0.000	5- 5	RG 00065A 1515	0.0	0.0	5- 5	1430	0.068	0.0	
				1535	0.0900	0.03		1500	0.071	0.0000	
				1620	0.0400	0.06		1528	0.078	0.0000	
				1720	0.0400	0.10		1558	0.084	0.0000	
				1750	0.0600	0.13		1628	0.086	0.0000	
WATERSHED CONDITIONS: 40% pasture; 1% cotton; 4% corn; 12% fall planted oats; 20% sorghum; 2% gravel and paved roads; 21% other. Approx. 90% of other is John- songrass and weeds in conser- vation reserve, neither tilled nor grazed.				1820	0.1400	0.20		1727	0.094	0.0001	
				1825	0.9600	0.28		1743	0.096	0.0001	
				1830	0.7200	0.34		1758	0.101	0.0001	
				1835	0.9600	0.42		1804	0.106	0.0001	
				1840	2.2800	0.61		1807	0.111	0.0001	
				1847	2.6571	0.92		1812	0.122	0.0001	
				1850	0.6000	0.95		1818	0.152	0.0001	
				1855	0.4800	0.99		1824	0.170	0.0001	
				1905	0.4200	1.06		1827	0.212	0.0001	
				1920	0.2400	1.12		1832	0.415	0.0001	
				1925	1.3200	1.23		1837	0.572	0.0001	
				1930	3.2400	1.50		1842	0.912	0.0001	
				1935	0.9600	1.58		1847	1.432	0.0001	
				1945	0.2400	1.62		1852	2.741	0.0002	
				1950	0.0	1.62		1859	6.650	0.0003	
				2150	0.0	1.62		1903	15.081	0.0004	
				2225	0.0857	1.67		1908	23.592	0.0008	
								1912	43.000	0.0013	
								1918	91.000	0.0028	
								1923	131.000	0.0049	
								1927	163.000	0.0071	
								1934	200.000	0.0119	
								1938	212.000	0.0150	
								1943	231.000	0.0192	
								1948	244.000	0.0237	

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

1976 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS			WATERSHED 6				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 5 - 6, 1976 (CONTINUED)										
							5- 5	1954	255.000	0.0293
								1957	281.000	0.0324
								2004	332.000	0.0405
								2008	338.000	0.0455
								2013	346.000	0.0520
								2018	350.000	0.0586
								2024	342.000	0.0664
								2029	337.000	0.0728
								2034	334.000	0.0791
								2038	329.000	0.0841
								2043	322.000	0.0903
								2049	315.000	0.0975
								2053	316.000	0.1023
								2057	309.999	0.1070
								2108	296.000	0.1196
								2114	286.000	0.1262
								2127	272.000	0.1399
								2143	253.000	0.1557
								2159	237.000	0.1705
								2215	221.000	0.1844
								2229	205.000	0.1956
								2243	190.000	0.2060
								2259	179.000	0.2172
								2316	170.000	0.2284
								2329	163.000	0.2365
								2343	156.000	0.2450
								2400	150.000	0.2548
							5- 6	15	143.000	0.2631
								30	138.000	0.2710
								44	133.000	0.2782
								59	128.000	0.2856
								113	124.000	0.2922
								130	119.000	0.3000
								145	114.000	0.3066
								159	109.000	0.3125
								214	103.000	0.3185
								229	95.000	0.3241
								242	89.000	0.3286
								259	83.000	0.3341
								315	74.000	0.3389
								329	69.000	0.3427
								346	63.000	0.3469
								400	57.000	0.3501
								415	52.000	0.3532
								430	49.000	0.3560
								443	45.000	0.3583
								501	43.000	0.3613
								513	40.000	0.3632
								529	38.000	0.3655
								557	33.696	0.3693
								630	31.230	0.3734
								700	29.001	0.3768
								731	26.884	0.3801
								800	25.144	0.3829
								859	22.029	0.3882
								944	20.188	0.3917
								1028	18.318	0.3949
								1158	14.773	0.4006

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



EVENT OF MAY 5 - 6, 1976  
 RISEL (WACO), TEXAS WATERSHED G

RIESEL (WACO), TEXAS WATERSHED W-1

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 27 sec. N.; Long. 96 deg. 52 min. 48 sec. W.

AREA: 174.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.19	1.14	2.58	8.93	6.64	2.57	6.68	0.13	6.51	5.11	1.65	2.83	44.96	
	Q 0.0	0.302	0.121	2.994	2.639	0.130	2.045	0.004	0.565	1.660	0.184	1.545	11.890	
STA AV	P 2.20	2.60	2.52	4.04	4.26	3.31	1.92	2.21	2.89	3.05	2.93	2.57	34.49	
	Q 0.519	0.523	0.738	1.050	1.280	0.649	0.169	0.088	0.233	0.358	0.445	0.544	6.697	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
1976	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval									
	Rate	Vol.	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date	Vol.	Vol.	Vol.	Vol.	
	5-31	0.905	5-5 0.643	5-5 0.878	7-16 1.202	7-16 1.381	4-18 1.623	7-15 1.818	4-13 2.033				
	5-1 1944	4.510	5-1 1944 2.990	5-1 1944 5.570	5-1 1944 6.910	5-1 1944 6.920	5-1 1944 7.050	4-30 1944 9.200	4-29 1944 11.060				

NOTES: Watershed conditions: 12% sorghum; 86% pasture; 2% roads. Area reported as 174 acres beginning 1969. Previously reported as 176 acres prior publications. 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 gages 75A, 85, W-2, W-2A and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	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	0.74	0.0	0.0	0.30	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	1.02	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.36	0.0	0.0	0.0
4	0.0	0.0	0.07	0.77	0.0	0.0	1.34	0.0	0.0	1.66	0.0	0.0
5	0.0	0.03	0.0	0.46	2.13	0.0	0.0	0.0	0.0	0.94	0.0	0.59
6	0.0	0.0	0.26	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.23
7	0.0	0.0	0.48	0.57	0.35	0.0	0.02	0.0	0.0	0.13	0.0	0.0
8	0.0	0.0	0.47	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.12	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	0.19	0.0	0.0	0.0	0.0	1.32
11	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.59
12	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.13	0.0
13	0.0	0.0	0.06	0.0	0.07	0.0	0.03	0.0	0.0	0.0	0.16	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.38	0.0	0.28	0.10
15	0.0	0.0	0.0	0.68	0.0	0.49	1.23	0.0	0.0	0.08	0.04	0.0
16	0.0	0.0	0.0	0.45	0.0	0.0	2.11	0.09	0.0	0.11	0.0	0.0
17	0.0	0.84	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	3.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.03	0.0	0.0	0.0 T	0.0	0.11	0.0	0.0	0.29	0.22	0.48	0.0
20	0.0	0.27	0.0	0.54	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.43	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.03	0.0	0.69	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0
25	0.09	0.0	0.0	0.0	1.79	1.13	0.0	0.0	0.0	0.0	0.56	0.0
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.42	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	1.54	0.0	0.0	0.0	0.0	3.58	0.06	0.0	0.0
29	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.03	0.0	1.79	0.0	0.0
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
31	0.04	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.19	1.14	2.58	8.93	6.64	2.57	6.68	0.13	6.51	5.11	1.65	2.83
STA AV	2.20	2.60	2.52	4.04	4.26	3.31	1.92	2.21	2.89	3.05	2.93	2.57

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A, 89, W-2, W-2A, and W-5A. Records began July 1937; part-year amounts not included in averages. STA AV based on 39 yr (1937-76) record period. Estimate codes may indicate that non-significant event totals are included.



1976 MEAN DAILY DISCHARGE (cfs)												RIESEL (WACO), 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	0.012	0.660	0.002	0.006	0.0	0.001	0.020	0.023	2	0.0	0.0	0.0	0.0	0.006	0.024	0.0	0.006	0.005	0.001	0.016	0.023	
3	0.0	0.0	0.0	0.0	0.005	0.015	0.0	0.004	0.005	0.001	0.015	0.024	4	0.0	0.0	0.0	0.075	0.005	0.017	0.205	0.003	0.001	1.050	0.014	0.022	
5	0.0	0.0	0.0	0.0	0.195	7.594	0.014	0.008	0.003	0.0	6.280	0.014	0.075	6	0.0	0.0	0.0	0.026	0.591	0.012	0.828	0.002	0.0	0.031	0.015	1.314
7	0.0	0.0	0.0	0.0	0.253	0.120	0.012	0.029	0.002	0.0	0.011	0.012	0.061	8	0.0	0.0	0.414	0.022	0.051	0.011	0.010	0.001	0.0	0.009	0.012	0.036
9	0.0	0.0	0.006	0.0	0.0	0.020	0.010	0.013	0.001	0.0	0.006	0.015	0.033	10	0.0	0.0	0.0	0.0	0.024	0.008	0.021	0.0	0.0	0.006	0.016	1.477
11	0.0	0.0	0.0	0.0	0.018	0.007	0.014	0.0	0.0	0.005	0.015	7.130	12	0.0	0.0	0.0	0.0	0.031	0.008	0.012	0.0	0.0	0.005	0.013	0.209	
13	0.0	0.0	0.0	0.0	0.0	0.971	0.006	0.012	0.0	0.0	0.006	0.097	0.084	14	0.0	0.0	0.0	0.0	0.023	0.005	0.020	0.0	0.0	0.008	0.059	0.085
15	0.0	0.0	0.0	0.0	0.001	0.015	0.013	2.550	0.0	0.0	0.010	0.025	0.076	16	0.0	0.0	0.0	0.848	0.011	0.015	9.956	0.0	0.0	0.015	0.019	0.061
17	0.0	0.012	0.0	0.009	0.010	0.006	0.857	0.0	0.0	0.008	0.017	0.054	18	0.0	0.011	0.0	11.107	0.010	0.007	0.048	0.0	0.0	0.007	0.017	0.053	
19	0.0	0.0	0.0	1.245	0.010	0.012	0.018	0.0	0.0	0.016	0.104	0.060	20	0.0	0.0	0.0	1.656	0.012	0.005	0.014	0.0	0.0	0.009	0.091	0.042	
21	0.0	0.0	0.0	0.015	0.011	0.003	0.155	0.0	0.0	0.009	0.028	0.035	22	0.0	0.0	0.0	0.003	0.012	0.004	0.063	0.0	0.0	0.009	0.019	0.038	
23	0.0	0.0	0.0	0.003	0.014	0.004	0.019	0.0	0.0	0.012	0.018	0.037	24	0.0	0.0	0.451	0.004	0.010	0.002	0.018	0.0	0.0	0.014	0.021	0.037	
25	0.0	0.0	0.010	0.002	2.739	0.045	0.018	0.0	0.0	0.012	0.297	0.039	26	0.0	0.0	0.0	0.001	0.139	0.009	0.015	0.0	0.0	0.009	0.254	0.032	
27	0.0	0.0	0.0	0.001	0.017	0.006	0.012	0.0	0.0	0.008	0.034	0.031	28	0.0	0.0	0.0	0.389	0.015	0.004	0.010	0.0	4.115	0.009	0.020	0.028	
29	0.0	0.0	0.0	6.002	0.013	0.003	0.009	0.0	0.006	4.373	0.021	0.028	30	0.0	0.0	0.0	0.033	0.015	0.002	0.009	0.0	0.002	0.157	0.022	0.029	
31	0.0	0.0	0.0	6.773	0.002	0.007	0.0	0.0	0.034	0.022	0.022	0.022	MEAN	0.0	0.0005	0.0284	0.7296	0.6224	0.0317	0.4823	0.0009	0.1378	0.3914	0.0447	0.3645	
	INCHES	0.0	0.002	0.121	2.994	2.639	0.130	2.045	0.004	0.565	1.660	1.545	STA AV	0.515	0.523	0.738	1.050	1.280	0.649	0.169	0.088	0.233	0.358	0.445	0.544	

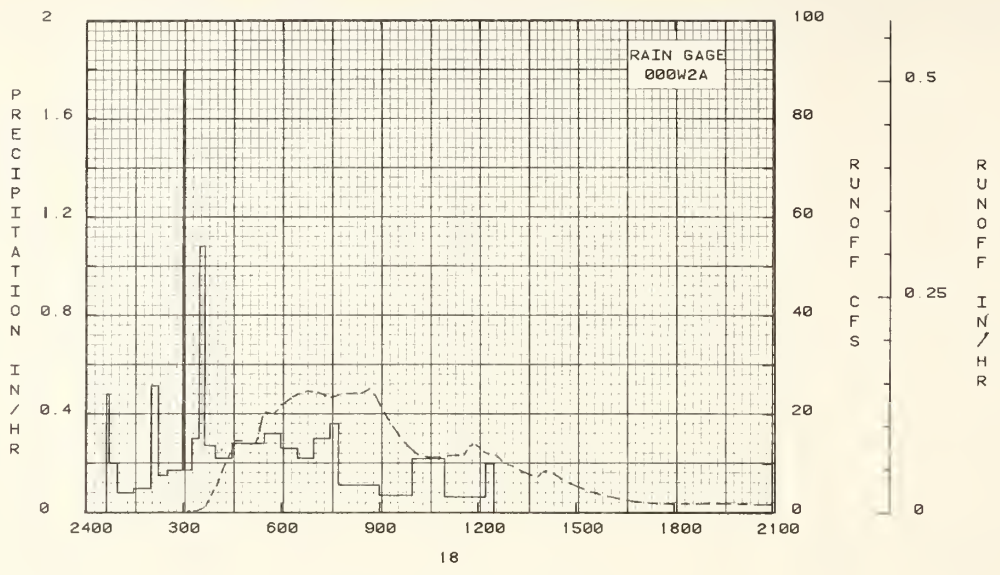
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.136791. Records began July 1937; part-year amounts not included in averages. STA AV based on 39 yr (1937-76) record period.

1976 SELECTED RUNOFF EVENT												RIESEL (WACO), TEXAS 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 APRIL 18, 1976																							
4-18	RG 000W2A	0.0	0.000	4-18	39	0.0	0.0	4-18	204	0.022	0.0	4-18	204	0.022	0.0	4-18	204	0.022	0.0				
					44	0.4800	0.04		207	0.032	0.0000		207	0.032	0.0000		207	0.032	0.0000				
					59	0.2000	0.09		213	0.040	0.0000		213	0.040	0.0000		213	0.040	0.0000				
					129	0.0800	0.13		223	0.051	0.0001		223	0.051	0.0001		223	0.051	0.0001				
					200	0.0968	0.18		233	0.075	0.0001		233	0.075	0.0001		233	0.075	0.0001				
WATERSHED CONDITIONS:																							
12% sorghum; 86% pasture, Bermudagrass, good cover moderately grazed; 2% gravel roads. Straight row cultivation, not terraced.																							
					214	0.5143	0.30		248	0.111	0.0003		248	0.111	0.0003		248	0.111	0.0003				
					230	0.1500	0.34		258	0.135	0.0004		258	0.135	0.0004		258	0.135	0.0004				
					258	0.1714	0.42		301	0.180	0.0004		301	0.180	0.0004		301	0.180	0.0004				
					301	1.8000	0.51		308	0.265	0.0006		308	0.265	0.0006		308	0.265	0.0006				
					315	0.1714	0.55		313	0.322	0.0007		313	0.322	0.0007		313	0.322	0.0007				
					329	0.3000	0.62		321	0.380	0.0010		321	0.380	0.0010		321	0.380	0.0010				
					339	1.0800	0.80		328	0.495	0.0013		328	0.495	0.0013		328	0.495	0.0013				
					359	0.2700	0.89		331	0.639	0.0014		331	0.639	0.0014		331	0.639	0.0014				
					429	0.2200	1.00		333	0.762	0.0016		333	0.762	0.0016		333	0.762	0.0016				
					459	0.2800	1.14		337	0.961	0.0019		337	0.961	0.0019		337	0.961	0.0019				
					529	0.2800	1.28		338	1.187	0.0020		338	1.187	0.0020		338	1.187	0.0020				
					559	0.3200	1.44		341	1.385	0.0024		341	1.385	0.0024		341	1.385	0.0024				
					629	0.2600	1.57		346	2.488	0.0033		346	2.488	0.0033		346	2.488	0.0033				
					659	0.2200	1.68		351	3.539	0.0047		351	3.539	0.0047		351	3.539	0.0047				
					729	0.3000	1.83		356	4.534	0.0066		356	4.534	0.0066		356	4.534	0.0066				
					744	0.3600	1.92		401	5.458	0.0090		401	5.458	0.0090		401	5.458	0.0090				
					859	0.1120	2.06		406	6.743	0.0115		406	6.743	0.0115		406	6.743	0.0115				
					959	0.0700	2.13		411	8.358	0.0155		411	8.358	0.0155		411	8.358	0.0155				
					1059	0.2200	2.35		416	9.799	0.0198		416	9.799	0.0198		416	9.799	0.0198				
					1214	0.0640	2.43		421	10.910	0.0247		421	10.910	0.0247		421	10.910	0.0247				
					1229	0.2000	2.48		426	12.064	0.0302		426	12.064	0.0302		426	12.064	0.0302				
									431	13.150	0.0362		431	13.150	0.0362		431	13.150	0.0362				
									433	13.874	0.0387		433	13.874	0.0387		433	13.874	0.0387				
									436	14.498	0.0428		436	14.498	0.0428		436	14.498	0.0428				
									446	14.498	0.0565		446	14.498	0.0565		446	14.498	0.0565				

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
				4-18				458	13.987	0.0728
								506	13.818	0.0834
								512	13.987	0.0913
								516	15.132	0.0968
								521	17.217	0.1045
								525	19.399	0.1114
								531	20.299	0.1228
								540	20.040	0.1400
								546	20.105	0.1514
								553	20.885	0.1651
								559	21.810	0.1772
								616	23.156	0.2135
								621	23.497	0.2246
								631	24.116	0.2472
								646	24.601	0.2819
								656	24.393	0.3052
								706	24.323	0.3284
								721	23.634	0.3625
								731	23.292	0.3848
								746	23.978	0.4185
								801	24.116	0.4528
								816	24.254	0.4872
								826	24.254	0.5103
								841	25.090	0.5454
								851	23.703	0.5686
								901	21.544	0.5901
								916	18.703	0.6188
								936	15.424	0.6512
								951	13.426	0.6717
								1010	11.639	0.6943
								1031	11.168	0.7171
								1051	11.272	0.7384
								1110	11.692	0.7591
								1125	11.692	0.7758
								1135	11.904	0.7870
								1140	12.657	0.7928
								1145	13.538	0.7991
								1150	13.874	0.8056
								1156	13.705	0.8134
								1204	13.094	0.8236
								1210	12.332	0.8309
								1219	11.904	0.8412
								1233	11.639	0.8569
								1244	10.450	0.8684
								1254	9.750	0.8780
								1304	9.358	0.8871
								1319	8.451	0.8998
								1339	7.579	0.9150
								1350	7.400	0.9228
								1355	7.988	0.9265
								1359	8.404	0.9296
								1406	8.498	0.9352
								1420	7.760	0.9460
								1434	6.743	0.9557
								1450	5.902	0.9653
								1514	4.759	0.9774
								1544	3.675	0.9894
								1619	2.823	1.0002
								1659	2.169	1.0097
								1729	1.893	1.0155
								1800	1.839	1.0210
								1844	1.866	1.0288
								1904	1.947	1.0324
								1944	1.893	1.0397
								2014	1.839	1.0450
								2039	1.760	1.0493

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



18  
 EVENT OF APRIL 18, 1976  
 RIESEL (WACO), TEXAS WATERSHED W-1

RIESEL (WACO), TEXAS WATERSHED W-6

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 24 sec. N.; Long. 96 deg. 53 min. 11 sec. W.

AREA: 42.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.19	1.37	2.34	9.78	7.68	1.90	6.94	0.17	6.70	5.85	1.77	3.30	48.49	
	Q 0.0	0.0	0.011	2.736	1.755	0.305	1.091	0.003	0.576	1.298	0.045	0.947	8.768	
STA AV	P 2.01	2.50	2.35	4.08	4.00	3.36	1.88	2.35	3.01	3.26	2.90	2.41	34.11	
	Q 0.331	0.410	0.532	0.778	0.800	0.531	0.106	0.045	0.199	0.287	0.346	0.432	4.796	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		2 Days		8 Days					
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1976	9-28	1.123	5-5	0.544	5-5	0.744	10-4	0.993	10-4	1.025	4-18	1.592	4-18	1.836	4-16	1.964

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
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: 7% gravel and paved road; 91% pasture; 2% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1154, p. 42.7-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4 and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	DAILY PRECIPITATION (inches)												RIESEL (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	0.0	0.0	0.01	0.0	0.0	0.40	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	1.09	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.40	0.0	0.0	0.0		
4	0.0	0.0	0.07	1.20	0.0	0.0	1.09	0.0	0.0	1.87	0.0	0.0		
5	0.0	0.04	0.0	0.12	2.29	0.0	0.0	0.0	0.0	1.07	0.0	0.62		
6	0.0	0.0	0.29	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.30		
7	0.0	0.0	0.51	0.62	0.34	0.0	0.0	0.0	0.0	0.20	0.0	0.0		
8	0.0	0.0	0.55	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	1.49		
11	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.78		
12	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	0.0	0.0	0.05	0.0	0.05	0.0	0.06	0.0	0.0	0.0	0.19	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.35	0.0	0.22	0.11		
15	0.0	0.0	0.0	0.79	0.0	0.48	1.22	0.0	0.0	0.12	0.03	0.0		
16	0.0	0.0	0.0	0.41	0.0	0.0	1.97	0.13	0.0	0.15	0.0	0.0		
17	0.0	1.02	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.03	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.38	0.26	0.54	0.0		
20	0.0	0.31	0.0	0.63	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.56	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.04	0.0	0.74	0.03	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0		
25	0.09	0.0	0.0	0.0	1.85	1.29	0.0	0.0	0.0	0.0	0.64	0.0		
26	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.50	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	1.59	0.0	0.0	0.0	0.0	3.44	0.08	0.0	0.0		
29	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.03	0.0	1.94	0.0	0.0		
30	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
31	0.03	0.0	0.0	1.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.19	1.37	2.34	9.78	7.68	1.90	6.94	0.17	6.70	5.85	1.77	3.30		
STA AV	2.01	2.50	2.35	4.08	4.00	3.36	1.88	2.35	3.01	3.26	2.90	2.41		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, and W-5A. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV values are based on 34 yr record period. Estimate codes may indicate that non-significant event totals are included.



1976 Day	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS WATERSHED W-6						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0 T	0.028	0.0	0.002	0.0	0.0	0.002	0.0 T
2	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.001	0.0	0.0	0.002	0.0
3	0.0	0.0	0.0	0.0	0.0	0.033	0.0	0.001	0.0	0.0	0.002	0.0 T
4	0.0	0.0	0.0	0.0	0.0	0.449	0.0	0.001	0.0	0.589	0.002	0.0
5	0.0	0.0	0.0	0.003	1.460	0.004	0.0	0.001	0.0	1.237	0.001	0.008
6	0.0	0.0	0.0	0.0 T	0.052	0.003	0.024	0.0 T	0.0	0.0 T	0.001	0.084
7	0.0	0.0	0.0	0.020	0.041	0.004	0.0 T	0.0	0.0	0.0 T	0.001	0.001
8	0.0	0.0	0.001	0.0 T	0.010	0.003	0.0	0.0	0.0	0.001	0.001	0.001
9	0.0	0.0	0.0	0.0	0.009	0.003	0.0	0.0	0.0	0.0 T	0.001	0.001
10	0.0	0.0	0.0	0.0	0.013	0.002	0.001	0.0	0.0	0.0	0.001	0.325
11	0.0	0.0	0.0	0.0	0.011	0.002	0.0 T	0.0	0.0	0.0 T	0.002	1.120
12	0.0	0.0	0.0	0.0	0.033	0.001	0.0	0.0	0.0	0.0 T	0.001	0.020
13	0.0	0.0	0.0	0.0	0.134	0.001	0.0	0.0	0.0	0.0	0.007	0.010
14	0.0	0.0	0.0	0.0	0.004	0.0	0.001	0.0	0.0	0.0 T	0.002	0.021
15	0.0	0.0	0.0	0.0	0.004	0.002	0.115	0.0	0.0	0.0 T	0.001	0.014
16	0.0	0.0	0.0	0.067	0.003	0.001	1.570	0.0	0.0	0.001	0.001	0.011
17	0.0	0.0	0.0	0.0	0.003	0.0	0.097	0.0	0.0	0.0	0.001	0.009
18	0.0	0.0	0.0	2.735	0.003	0.0 T	0.013	0.0	0.0	0.0	0.001	0.010
19	0.0	0.0	0.0	0.153	0.003	0.0 T	0.003	0.0	0.0	0.001	0.009	0.011
20	0.0	0.0	0.0	0.537	0.003	0.0	0.003	0.0	0.0	0.0	0.003	0.003
21	0.0	0.0	0.0	0.001	0.003	0.0	0.071	0.0	0.0	0.0	0.0 T	0.003
22	0.0	0.0	0.0	0.0	0.002	0.0	0.009	0.0	0.0	0.0	0.0	0.004
23	0.0	0.0	0.0	0.0	0.002	0.0	0.004	0.0	0.0	0.0	0.0	0.004
24	0.0	0.0	0.018	0.0	0.001	0.0	0.004	0.0	0.0	0.0	0.0 T	0.004
25	0.0	0.0	0.0	0.0	0.455	0.002	0.004	0.0	0.0	0.0	0.028	0.003
26	0.0	0.0	0.0	0.0	0.009	0.0	0.004	0.0	0.0	0.0	0.007	0.002
27	0.0	0.0	0.0	0.0	0.002	0.0	0.004	0.0	0.0	0.0	0.0 T	0.002
28	0.0	0.0	0.0	0.211	0.003	0.0	0.004	0.0	1.024	0.0	0.0 T	0.002
29	0.0	0.0	0.0	1.135	0.002	0.0	0.003	0.0	0.0	0.465	0.0	0.003
30	0.0	0.0	0.0	0.001	0.003	0.0	0.002	0.0	0.0	0.008	0.0 T	0.003
31	0.0	0.0	0.0	0.0	0.852	0.0	0.001	0.0	0.0	0.002	0.0	0.003
MEAN	0.0	0.0	0.0006	0.1621	0.1006	0.0181	0.0625	0.0002	0.0341	0.0744	0.0027	0.0543
INCHES	0.0	0.0	0.011	2.736	1.755	0.305	1.091	0.003	0.576	1.298	0.045	0.947
STA AV	0.331	0.410	0.532	0.778	0.800	0.531	0.106	0.045	0.199	0.287	0.346	0.432

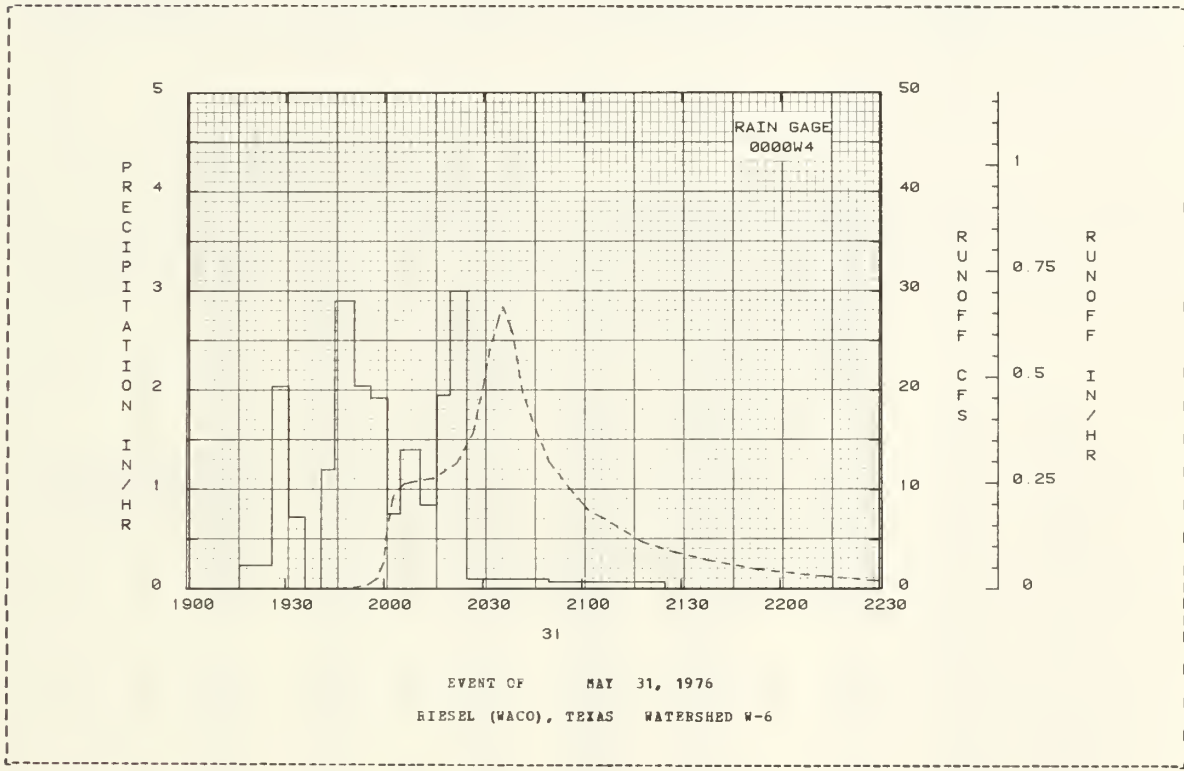
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562687. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV values are based on 34 yr (1939-July 1943, Jan. 1946-76) record period.

1976			RIESEL (WACO), TEXAS WATERSHED W-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31, 1976										
5-31	0.31	0.003	5-31	1916	0.0	0.0	5-31	1930	0.004	0.0
				1926	0.2400	0.04		1933	0.010	0.0000
				1931	2.0402	0.21		1938	0.042	0.0001
				1936	0.7200	0.27		1943	0.069	0.0002
				1941	0.0	0.27		1946	0.067	0.0002
WATERSHED CONDITIONS: 91% pasture, Bernadagrass, good cover, moderately grazed; 7% gravel roads; 2% Johnsongrass and weeds, not tilled or grazed.				1945	1.2000	0.35		1949	0.094	0.0003
				1951	2.8999	0.64		1951	0.172	0.0004
				1956	2.0400	0.81		1953	0.277	0.0006
				2001	1.9200	0.97		1955	0.409	0.0009
				2005	0.7500	1.02		1958	1.090	0.0018
				2011	1.4000	1.16		2000	2.693	0.0032
				2016	0.8399	1.23		2001	6.136	0.0050
				2020	1.9501	1.36		2003	9.479	0.0111
				2025	3.0000	1.61		2006	10.587	0.0228
				2050	0.0960	1.65		2010	10.867	0.0396
				2125	0.0686	1.69		2015	11.151	0.0611
								2022	12.647	0.0937
								2027	15.711	0.1214
								2030	20.422	0.1425
								2032	24.163	0.1600
					2035	27.579	0.1903			
					2036	28.404	0.2012			
					2039	25.621	0.2329			
					2042	19.699	0.2595			
					2046	16.021	0.2874			
					2050	12.781	0.3099			
					2056	10.196	0.3368			
					2100	8.622	0.3515			
					2102	7.883	0.3580			
					2107	7.003	0.3725			

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31, 1976 (CONTINUED)										
							5-31	2118	4.711	0.3977
								2128	3.679	0.4141
								2138	2.891	0.4269
								2153	1.991	0.4412

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



RIESEL (WACO), TEXAS WATERSHED W-10

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 12 sec. N.; Long. 96 deg. 53 min. 00 sec. W.

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.21	1.55	3.59	8.94	7.02	1.69	6.77	0.13	6.28	4.96	1.56	2.80	45.50															
	Q	0.0	0.021	0.284	3.760	2.371	0.180	2.213	0.0	0.067	1.972	0.130	1.633	12.650															
STA AV	P	2.03	2.52	2.29	4.04	3.89	3.36	1.84	2.44	3.01	3.22	2.87	2.36	33.87															
	Q	0.527	0.531	0.535	1.003	0.943	0.637	0.169	0.115	0.300	0.494	0.538	0.596	6.437															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976	5-5	0.685	5-5	0.473	5-5	0.679	7-16	1.091	7-16	1.242	4-18	1.812	4-18	2.013	4-15	2.619

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
5-10 1941	5.010	4-19 1957	2.310	4-19 1957	2.550	5-11 1957	3.000	11-22 1940	3.330	9-16 1974	3.789	4-24 1966	5.160	5-19 1957	8.290

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, terraced. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1154, p. 42.7-5 (Revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-10												
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	0.09	0.0	0.0	0.38	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.05	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.26	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.07	0.76	0.0	0.0	0.86	0.0	0.0	1.63	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.03	0.0	0.46	1.92	0.0	0.0	0.0	0.0	0.91	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55		
6	0.0	0.0	0.20	0.0	0.27	0.0	1.16	0.0	0.0	0.0	0.0	0.25	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25		
7	0.0	0.0	0.96	0.56	0.35	0.0	0.05	0.0	0.0	0.14	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	1.04	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		
9	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	1.27	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27		
11	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.63	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63		
12	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.12	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12		
13	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.22	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.24	0.15	0.0	0.10	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15		
15	0.0	0.0	0.0	0.67	0.0	0.41	1.29	0.0	0.0	0.06	0.07	0.0	15	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	0.45	0.0	0.0	2.04	0.08	0.0	0.11	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.04	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.28	0.19	0.45	0.0	19	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45		
20	0.0	0.31	0.0	0.69	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	20	0.0	0.31	0.0	0.69	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	0.75	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.47	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.47	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.74	0.02	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	24	0.0	0.0	0.74	0.02	0.0	0.0	0.0	0.0	0.0	0.15		
25	0.14	0.0	0.0	0.0	1.61	1.10	0.0	0.0	0.0	0.55	0.0	0.0	25	0.14	0.0	0.0	0.0	1.61	1.10	0.0	0.0	0.0	0.55		
26	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.45	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	2.08	0.0	0.0	0.0	0.0	3.45	0.05	0.0	0.0	28	0.0	0.0	0.0	2.08	0.0	0.0	0.0	0.0	0.0	0.05		
29	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.72	0.0	0.0	29	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.72		
30	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	30	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.05		
31	0.03	0.0	0.0	0.0	1.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31	0.03	0.0	0.0	0.0	1.73	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.21	1.55	3.59	8.94	7.02	1.69	6.77	0.13	6.28	4.96	1.56	2.80													
STA AV	2.03	2.52	2.29	4.04	3.89	3.36	1.84	2.44	3.01	3.22	2.87	2.36													

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-6. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 34 yr (1938-July 1943, March 1946-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0 T	0.147	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.002	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	0.006	0.0	0.0	0.0	0.0	0.0	0.114	0.0	0.0
5	0.0	0.0	0.0	0.033	0.728	0.0	0.0	0.0	0.0	0.722	0.0	0.002
6	0.0	0.0	0.0	0.009	0.129	0.0	0.156	0.0	0.0	0.001	0.0	0.225
7	0.0	0.0	0.0	0.081	0.015	0.0	0.002	0.0	0.0	0.0	0.0	0.009
8	0.0	0.0	0.075	0.017	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
9	0.0	0.0	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.193
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.891
12	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.025
13	0.0	0.0	0.0	0.0	0.211	0.0	0.0	0.0	0.0	0.0	0.001	0.003
14	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.003	0.001
15	0.0	0.0	0.0	0.0 T	0.0	0.0	0.338	0.0	0.0	0.0	0.0 T	0.001
16	0.0	0.0	0.0	0.292	0.0	0.0	1.036	0.0	0.0	0.0	0.0	0.0 T
17	0.0	0.017	0.0	0.001	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0 T	0.0	1.370	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.221	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0
20	0.0	0.0	0.0	0.281	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0
21	0.0	0.0	0.0	0.002	0.0	0.0	0.113	0.0	0.0	0.0	0.0 T	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.026	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	0.152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.005	0.0	0.242	0.0 T	0.0	0.0	0.0	0.0	0.042	0.0
26	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.048	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
28	0.0	0.0	0.0	0.106	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.0
29	0.0	0.0	0.0	0.705	0.0	0.0	0.0	0.0	0.0	0.757	0.0	0.0
30	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0
31	0.0	0.0	0.0	0.0	0.601	0.0	0.0	0.0	0.0	0.001	0.0	0.0
MEAN	0.0	0.0006	0.0076	0.1043	0.0633	0.0050	0.0591	0.0	0.0018	0.0526	0.0036	0.0436
INCHES	0.0	0.021	0.234	3.780	2.371	0.180	2.213	0.0	0.067	1.972	0.130	1.633
STA AV	0.527	0.531	0.585	1.003	0.943	0.637	0.169	0.115	0.300	0.494	0.538	0.596

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 34 yr (1938-July 1943, May 1946-76) record period.

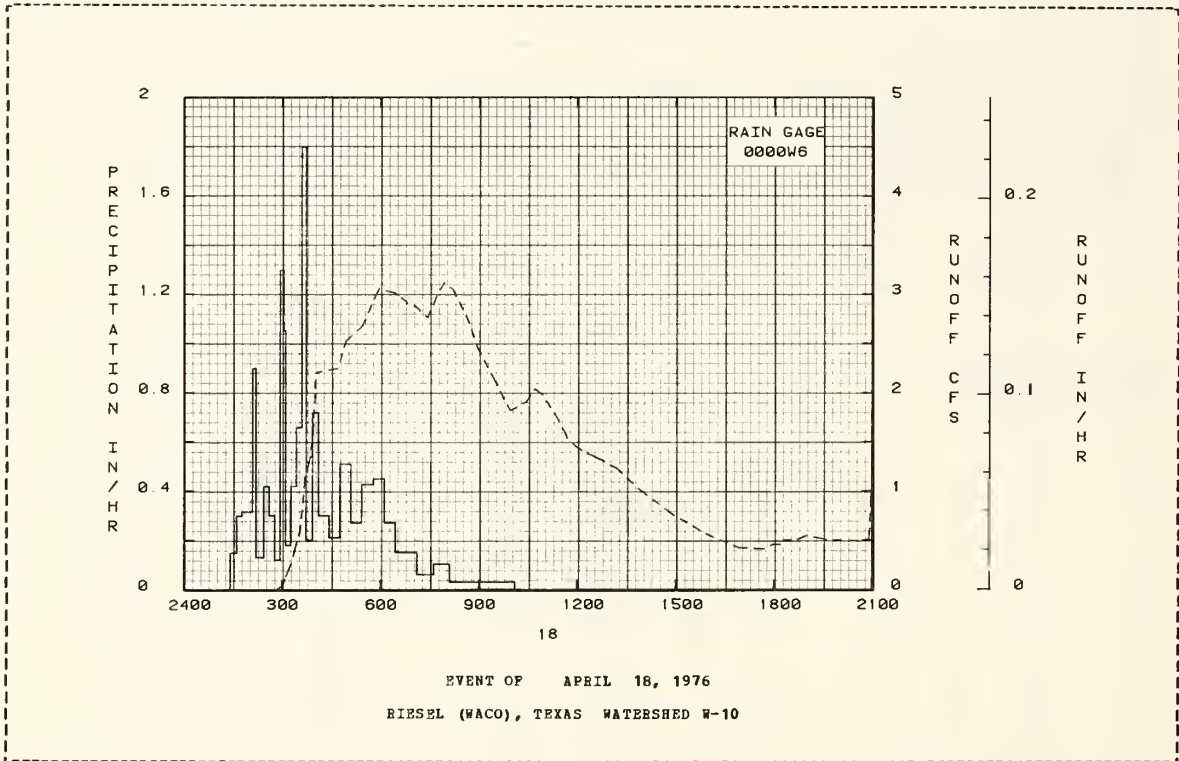
1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-10											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
4-18	EG 0000W6 0.0	0.0	4-18	EG 0000W6 125	0.0	0.0	4-18	227	0.0	0.0	
				137	0.1500	0.03		237	0.0	0.0	
				147	0.3000	0.08		242	0.001	0.0	
				206	0.3158	0.18		247	0.004	0.0000	
				212	0.9000	0.27		252	0.010	0.0000	
				226	0.1286	0.30		256	0.028	0.0001	
				235	0.4200	0.37		302	0.066	0.0003	
				246	0.3000	0.42		305	0.109	0.0006	
				256	0.1200	0.44		307	0.139	0.0008	
				302	1.3000	0.57		317	0.269	0.0025	
				306	1.0500	0.64		322	0.390	0.0039	
				316	0.1800	0.67		327	0.478	0.0057	
				326	0.4200	0.74		332	0.577	0.0079	
				336	0.6600	0.85		337	0.807	0.0108	
				344	1.8000	1.09		342	1.153	0.0149	
				356	0.2000	1.13		352	1.348	0.0254	
				406	0.7200	1.25		357	1.678	0.0317	
				426	0.3000	1.35		402	2.209	0.0399	
				446	0.2100	1.42		412	2.224	0.0585	
				506	0.5100	1.59		442	2.252	0.1148	
				526	0.2700	1.68		457	2.535	0.1449	
				547	0.4286	1.83		527	2.677	0.2105	
				607	0.4500	1.98		557	3.063	0.2828	
				627	0.2700	2.07		627	3.011	0.3592	
				707	0.1500	2.17		649	2.908	0.4138	
				737	0.0600	2.20		702	2.875	0.4454	
				806	0.1034	2.25		726	2.758	0.5021	
				1006	0.0300	2.31		742	2.977	0.5406	
								756	3.116	0.5764	
								812	3.046	0.6177	

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



ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	842	2.710	0.6902
								857	2.459	0.7227
								927	2.139	0.7806
								957	1.824	0.8305
								1027	1.912	0.8775
								1042	2.044	0.9024
								1057	1.977	0.9277
								1127	1.714	0.9741
								1142	1.540	0.9946
								1157	1.453	1.0134
								1227	1.358	1.0488
								1249	1.297	1.0733
								1312	1.229	1.0977
								1357	1.003	1.1398
								1457	0.750	1.1839
								1557	0.565	1.2170
								1657	0.418	1.2418
								1742	0.413	1.2575

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



RIESEL (WACO), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Waco; Brazos Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 36 sec. W.

AREA: 309.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.17	0.93	2.69	9.00	7.24	1.99	6.03	0.10	5.63	5.31	1.57	2.83	43.49	
	Q 0.0	0.0	0.019	2.117	1.920	0.126	1.230	0.0	0.144	1.059	0.133	1.350	8.098	
STA AV	P 2.11	2.49	2.32	3.98	3.93	3.42	1.91	2.18	2.88	3.12	2.75	2.39	33.49	
	Q 0.517	0.537	0.571	0.813	0.736	0.596	0.165	0.046	0.163	0.246	0.364	0.437	5.191	

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.					
1976	5-31 0.594	5-31 0.480	5-31 0.636	5-31 0.815	7-16 0.862	4-18 1.134	4-18 1.228	4-28 1.424					

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	4-19 1957	2.543	5-19 1957	2.150	4-19 1957	2.740	4-19 1957	3.480	4-19 1957	3.660	3-29 1965	3.980	11-22 1940	4.770	4-19 1957	9.360

NOTES: Watershed conditions: 71% pasture; 5% cotton; 6% fall planted small grain, largely oats; 15% row grain sorghum; 3% gravel, paved roads and other. 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 gages 69, 69B, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	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	0.0	0.0	0.04	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.34	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.12	0.71	0.0	0.0	1.31	0.0	0.0	1.89	0.0	0.0	0.0	0.0
5	0.0	0.02	0.0	0.52	2.00	0.02	0.19	0.0	0.0	0.86	0.0	0.0	0.0	0.66
6	0.0	0.0	0.27	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.20
7	0.0	0.0	0.43	0.58	0.30	0.0	0.03	0.0	0.0	0.13	0.0	0.0	0.0	0.0
8	0.0	0.0	0.47	0.0	0.0	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	0.20	0.0	0.01	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	0.19	0.0	0.0	0.0	0.0	0.0	0.0	1.32
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0
12	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0
13	0.0	0.0	0.10	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.13	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.48	0.0	0.22	0.1D	0.0	0.0
15	0.0	0.0	0.0	0.58	0.0	0.42	1.20	0.0	0.0	0.08	0.08	0.0	0.0	0.0
16	0.0	0.0	0.0	0.53	0.0	0.0	1.94	0.06	0.0	0.09	0.0	0.0	0.0	0.0
17	0.0	0.57	0.0	0.0	0.0	0.15	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	3.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.03	0.0	0.0	0.01	0.0	0.08	0.0	0.0	0.26	0.22	0.47	0.0	0.0	0.0
20	0.0	0.24	0.0	0.50	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
21	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
22	0.0	0.1	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.47	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.02	0.0	0.70	0.07	0.0	0.0 T	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
25	0.09	0.0	0.0	0.0	1.64	1.21	0.0	0.0	0.0	0.01	0.56	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.06	0.01	0.0	0.0	0.41	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
28	0.0	0.0	0.0	1.52	0.0	0.0	0.0	0.0	2.75	0.07	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.03	0.0	1.86	0.0	0.0	0.0	0.0
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
31	0.03	0.0	0.0	0.0	2.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.17	0.93	2.69	9.00	7.24	1.99	6.03	0.10	5.63	5.31	1.57	2.83		
STA AV	2.11	2.49	2.32	3.98	3.93	3.42	1.91	2.18	2.88	3.12	2.75	2.39		

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, 84A, 89, and W-2A. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 35 yr (1937-July 1943, May 1946-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs)													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	0.0	0.069	1.301	0.001	0.0	0.0	0.0	0.036	0.023				
2	0.0	0.0	0.0	0.0	0.039	0.079	0.001	0.0	0.0	0.0	0.031	0.025				
3	0.0	0.0	0.0	0.0	0.028	0.034	0.001	0.0	0.0	0.0	0.027	0.026				
4	0.0	0.0	0.0	0.0	0.022	0.040	0.460	0.0	0.0	1.190	0.023	0.025				
5	0.0	0.0	0.0	0.069	8.495	0.029	0.011	0.0	0.0	6.805	0.018	0.155				
6	0.0	0.0	0.0	0.025	1.152	0.018	0.166	0.0	0.0	0.031	0.017	1.700				
7	0.0	0.0	0.0	0.165	0.361	0.020	0.030	0.0	0.0	0.009	0.015	0.101				
8	0.0	0.0	0.082	0.046	0.205	0.017	0.003	0.0	0.0	0.010	0.011	0.051				
9	0.0	0.0	0.008	0.002	0.118	0.009	0.002	0.0	0.0	0.006	0.021	0.051				
10	0.0	0.0	0.002	0.0	0.144	0.006	0.014	0.0	0.0	0.005	0.023	2.652				
11	0.0	0.0	0.001	0.0	0.077	0.003	0.009	0.0	0.0	0.005	0.015	10.297				
12	0.0	0.0	0.0	0.0	0.091	0.001	0.003	0.0	0.0	0.005	0.008	0.536				
13	0.0	0.0	0.0	0.0	1.479	0.001	0.002	0.0	0.0	0.005	0.118	0.222				
14	0.0	0.0	0.0	0.0	0.075	0.001	0.003	0.0	0.0	0.006	0.098	0.243				
15	0.0	0.0	0.0	0.0	0.044	0.001	2.444	0.0	0.0	0.008	0.038	0.203				
16	0.0	0.0	0.0	0.825	0.030	0.004	10.964	0.0	0.0	0.015	0.022	0.147				
17	0.0	0.0	0.0	0.020	0.020	0.001	1.537	0.0	0.0	0.008	0.015	0.116				
18	0.0	0.0	0.0	13.605	0.015	0.001	0.122	0.0	0.0	0.005	0.014	0.123				
19	0.0	0.0	0.0	1.846	0.013	0.001	0.036	0.0	0.0	0.013	0.141	0.148				
20	0.0	0.0	0.0	1.953	0.014	0.001	0.022	0.0	0.0	0.008	0.140	0.074				
21	0.0	0.0	0.0	0.050	0.012	0.0	0.025	0.0	0.0	0.004	0.037	0.060				
22	0.0	0.0	0.0	0.030	0.009	0.0	0.042	0.0	0.0	0.004	0.017	0.070				
23	0.0	0.0	0.0	0.034	0.009	0.0	0.020	0.0	0.0	0.007	0.015	0.069				
24	0.0	0.0	0.142	0.036	0.006	0.0	0.013	0.0	0.0	0.009	0.017	0.076				
25	0.0	0.0	0.014	0.023	1.964	0.060	0.014	0.0	0.0	0.010	0.294	0.067				
26	0.0	0.0	0.001	0.020	0.278	0.004	0.011	0.0	0.0	0.005	0.418	0.052				
27	0.0	0.0	0.0	0.019	0.026	0.001	0.005	0.0	0.0	0.003	0.042	0.055				
28	0.0	0.0	0.0	1.198	0.014	0.001	0.002	0.0	1.861	0.002	0.017	0.049				
29	0.0	0.0	0.0	7.401	0.008	0.001	0.001	0.0	0.006	5.141	0.017	0.042				
30	0.0	0.0	0.0	0.121	0.007	0.001	0.001	0.0	0.0	0.372	0.018	0.045				
31	0.0	0.0	0.0	0.0	10.109	0.001	0.001	0.0	0.0	0.056	0.022	0.022				
MEAN	0.0	0.0	0.0081	0.9162	0.8042	0.0546	0.5151	0.0	0.0622	0.4434	0.0574	0.5653				
INCHES	0.0	0.0	0.019	2.117	1.920	0.126	1.230	0.0	0.144	1.059	0.133	1.350				
STA AV	0.517	0.537	0.571	0.813	0.736	0.596	0.165	0.046	0.163	0.246	0.364	0.437				

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.077028. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 35 yr (1937-July 1943, May 1946-76) record period.

1976 SELECTED RUNOFF EVENT													RIESEL (WACO), TEXAS WATERSHED Y			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.						
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)						
EVENT OF APRIL 18, 1976																
4-18	0.0	0.0	4-18	45	0.0	0.0	4-18	235	0.020	0.0						
				55	0.3600	0.06		240	0.077	0.0000						
				104	0.0667	0.07		242	0.164	0.0000						
				125	0.0	0.07		245	0.338	0.0001						
				145	0.1500	0.12		249	0.560	0.0002						
WATERSHED CONDITIONS:																
71% pasture, Bermudagrass																
and native grass, good																
cover, moderately grazed;																
6% fall planted oats; 15%																
row grain sorghum; 5%																
cotton; 3% gravel roads																
and other. Cropland terraced,																
cultivated on contour.																
				204	0.0947	0.15		250	0.615	0.0002						
				208	0.7500	0.20		255	0.741	0.0004						
				214	0.5000	0.25		300	0.794	0.0006						
				233	0.1895	0.31		305	0.899	0.0008						
				300	0.1333	0.37		310	1.018	0.0011						
				304	1.6500	0.48		312	1.408	0.0012						
				324	0.2400	0.56		313	1.970	0.0013						
				334	0.2400	0.60		317	2.489	0.0018						
				346	1.0000	0.80		320	2.759	0.0022						
				404	0.2000	0.86		325	2.548	0.0029						
				414	0.2400	0.90		329	2.419	0.0034						
				424	0.1800	0.93		338	2.489	0.0046						
				444	0.1500	0.98		340	2.956	0.0049						
				504	0.3900	1.11		342	4.092	0.0053						
				524	0.1800	1.17		344	6.817	0.0059						
				544	0.2700	1.26		347	9.496	0.0072						
				601	0.3176	1.35		350	10.452	0.0088						
				624	0.2609	1.45		352	11.052	0.0099						
				705	0.1902	1.58		355	10.452	0.0116						
				735	0.3000	1.73		400	10.329	0.0144						
				755	0.2700	1.82		405	11.411	0.0173						
				803	0.2250	1.85		410	12.189	0.0205						
				833	0.1400	1.92		415	13.042	0.0239						
				1004	0.0725	2.03		420	15.948	0.0277						
				1024	0.3000	2.13		425	18.869	0.0324						

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

1976

## SELECTED FURNOFF EVENT

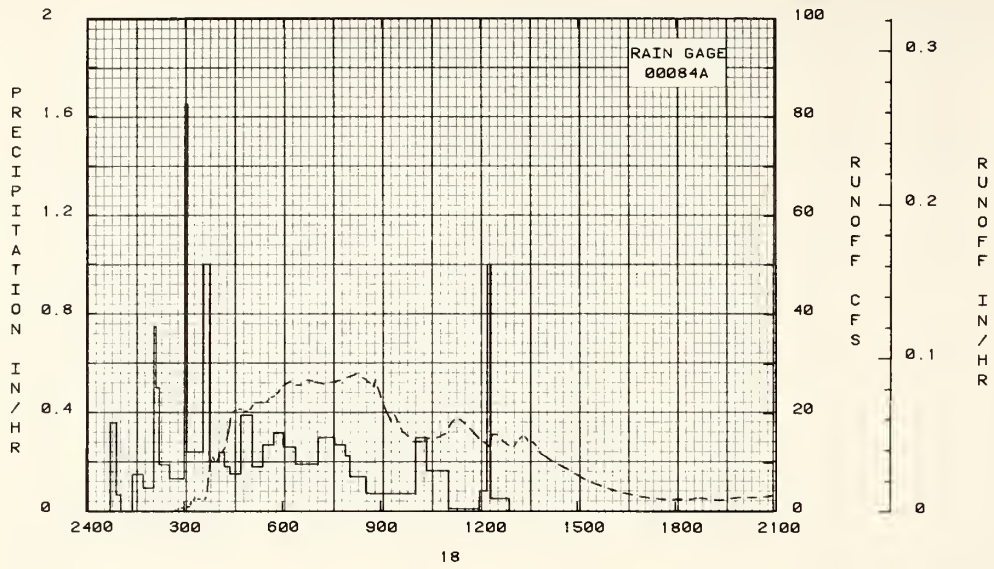
RIESEL (WACO), TEXAS

WATERSHED 7

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
4-18	1104	0.1650	2.24	4-18	430	20.343	0.0376			
	1201	0.0105	2.25		435	20.545	0.0431			
	1215	0.0857	2.27		440	20.647	0.0486			
	1221	1.0000	2.37		445	20.647	0.0541			
	1255	0.0529	2.40		450	20.192	0.0596			
					455	20.242	0.0650			
					500	20.698	0.0705			
					505	21.528	0.0761			
					510	22.059	0.0820			
					515	21.952	0.0879			
					520	22.220	0.0938			
					524	21.952	0.0985			
					530	22.220	0.1056			
					535	22.763	0.1116			
					540	23.205	0.1178			
					545	23.372	0.1240			
					550	23.993	0.1303			
					555	24.683	0.1368			
					600	25.448	0.1435			
					615	26.474	0.1644			
					625	25.627	0.1783			
					635	25.627	0.1920			
					645	26.597	0.2060			
					655	26.413	0.2201			
					659	26.169	0.2258			
					715	25.807	0.2480			
					745	26.597	0.2901			
					815	27.910	0.3338			
					840	25.988	0.3698			
					845	25.270	0.3767			
					850	26.658	0.3836			
					900	23.094	0.3969			
					909	20.393	0.4074			
					918	18.350	0.4167			
					925	19.547	0.4238			
					940	16.075	0.4381			
					950	15.201	0.4465			
					1000	14.130	0.4543			
					1015	14.091	0.4657			
					1021	14.520	0.4703			
					1029	14.958	0.4766			
					1044	14.999	0.4886			
					1059	15.864	0.5010			
					1109	17.686	0.5100			
					1114	18.585	0.5149			
					1124	18.727	0.5249			
					1134	17.840	0.5346			
					1144	16.721	0.5439			
					1159	14.838	0.5565			
					1209	13.976	0.5642			
					1219	13.079	0.5715			
					1224	15.654	0.5753			
					1234	15.654	0.5837			
					1244	14.246	0.5917			
					1254	13.410	0.5991			
					1303	13.262	0.6055			
					1309	14.130	0.6099			
					1314	14.798	0.6138			
					1319	15.201	0.6178			
					1324	15.201	0.6219			
					1329	14.441	0.6258			
					1339	13.976	0.6334			
					1344	13.373	0.6371			
					1353	11.711	0.6431			
					1414	10.268	0.6555			
					1444	8.498	0.6705			
					1514	6.490	0.6826			
					1544	5.258	0.6920			
					1559	4.675	0.6960			
					1629	3.773	0.7027			
					1659	3.010	0.7082			
					1729	2.658	0.7127			
					1759	2.512	0.7169			

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





EVENT OF APRIL 16, 1976  
RIESEL (WACO), TEXAS WATERSHED Y

RIESEL (WACO), TEXAS WATERSHED Y-2

LOCATION: Falls Co., Texas; 18 mi. SE Waco; Brazos River Basin. Lat. 31 deg. 28 min. 30 sec. N.; Long. 96 deg. 52 min. 46 sec. W.

AREA: 132.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976 P	0.14	0.88	2.74	9.04	7.26	1.97	5.81	0.10	5.49	5.41	1.60	2.88	43.32	
Q	0.0	0.0	0.0	2.347	2.080	0.082	1.303	0.0	0.184	1.246	0.058	1.233	8.532	
STA AV P	2.13	2.55	2.54	4.05	4.34	3.36	1.93	2.18	2.95	3.08	2.89	2.52	34.52	
Q	0.449	0.577	0.694	0.921	1.054	0.612	0.165	0.045	0.157	0.283	0.377	0.514	5.848	

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.					
1976 5-31 0.937	5-31 0.672	5-31 0.826	5-31 0.985	5-31 1.012	4-17 1.412	4-17 1.470	4-13 1.641					
5-1 1944 4.070	5-1 1944 3.110	5-1 1944 5.470	5-1 1944 7.080	5-1 1944 7.280	5-1 1944 7.460	4-30 1944 9.640	4-29 1944 10.600					

NOTES: Watershed conditions: 12% cotton; 15% fall planted small grain, largely oats; 13% row grain sorghum; 59% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (revised). Precipitation and runoff records began Jan. 1, 1939. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, and 84A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-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	0.02	0.0	0.0	0.21	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.04	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.33	0.0	0.0	0.0		
4	0.0	0.0	0.14	0.70	0.0	0.0	1.15	0.0	0.0	2.02	0.0	0.0		
5	0.0	0.02	0.0	0.55	1.95	0.01	0.46	0.0	0.0	0.83	0.0	0.69		
6	0.0	0.0	0.26	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.22		
7	0.0	0.0	0.51	0.58	0.27	0.0	0.02	0.0	0.0	0.10	0.0	0.0		
8	0.0	0.0	0.43	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.25	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	1.30		
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.58		
12	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	0.0	0.0	0.10	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.14	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.48	0.0	0.22	0.09		
15	0.0	0.0	0.0	0.65	0.0	0.41	1.15	0.0	0.0	0.07	0.08	0.0		
16	0.0	0.0	0.0	0.57	0.0	0.0	1.78	0.07	0.0	0.09	0.0	0.0		
17	0.0	0.64	0.0	0.0	0.0	0.16	0.0	0.0 T	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.03	0.0	0.0	0.01	0.0	0.09	0.0	0.0	0.26	0.23	0.48	0.0		
20	0.0	0.22	0.0	0.48	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.46	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.04	0.0	0.71	0.07	0.0	0.0 T	0.0	0.0	0.0	0.09	0.0	0.0		
25	0.04	0.0	0.0	0.0	1.61	1.20	0.0	0.0	0.0	0.0 T	0.57	0.0		
26	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.44	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	1.54	0.0	0.0	0.0	0.0	2.57	0.06	0.0	0.0		
29	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.03	0.0	1.92	0.0	0.0		
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0		
31	0.03	0.0	0.0	0.0	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.14	0.58	2.74	9.04	7.26	1.97	5.81	0.10	5.49	5.41	1.60	2.88		
STA AV	2.13	2.55	2.54	4.05	4.34	3.36	1.93	2.18	2.95	3.08	2.89	2.52		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69, 69B, 70, 75A, and 84A. Records began Jan. 1, 1939. STA AV based on 38 yr (1939-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs)												RIESEL (WACO), TEXAS WATERSHED Y-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.013	0.435	0.0	0.0	0.0	0.0	0.001	0.0 T	
2	0.0	0.0	0.0	0.0	0.002	0.004	0.0	0.0	0.0	0.0	0.0	0.001	
3	0.0	0.0	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.001	
4	0.0	0.0	0.0	0.0	0.0	0.003	0.431	0.0	0.0	1.107	0.0	0.001	
5	0.0	0.0	0.0	0.0	3.689	0.002	0.002	0.0	0.0	3.594	0.0	0.043	
6	0.0	0.0	0.0	0.0	0.408	0.0	0.062	0.0	0.0	0.006	0.0	0.423	
7	0.0	0.0	0.0	0.0	0.124	0.0	0.004	0.0	0.0	0.0	0.0	0.012	
8	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
9	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
10	0.0	0.0	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.0	1.116	
11	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	4.777	
12	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.176	
13	0.0	0.0	0.0	0.0	0.704	0.0	0.0	0.0	0.0	0.0	0.026	0.052	
14	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.023	0.068	
15	0.0	0.0	0.0	0.0	0.004	0.0	1.032	0.0	0.0	0.0	0.005	0.044	
16	0.0	0.0	0.0	0.150	0.001	0.0	5.048	0.0	0.0	0.0	0.001	0.024	
17	0.0	0.0	0.0	1.115	0.0	0.0	0.598	0.0	0.0	0.0	0.0	0.015	
18	0.0	0.0	0.0	6.794	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.014	
19	0.0	0.0	0.0	0.248	0.0	0.0	0.002	0.0	0.0	0.0	0.035	0.023	
20	0.0	0.0	0.0	0.794	0.0	0.0	0.0	0.0	0.0	0.0	0.033	0.010	
21	0.0	0.0	0.0	0.001	0.0	0.0	0.002	0.0	0.0	0.0	0.003	0.002	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.003	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
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	1.128	0.008	0.0	0.0	0.0	0.0	0.087	0.003	
26	0.0	0.0	0.0	0.0	0.077	0.0 T	0.0	0.0	0.0	0.0	0.103	0.002	
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.003	0.003	
28	0.0	0.0	0.0	0.475	0.0	0.0	0.0	0.0	1.019	0.0	0.0	0.003	
29	0.0	0.0	0.0	3.410	0.0	0.0	0.0	0.0	0.0 T	2.027	0.0	0.002	
30	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0	0.164	0.0	0.003	
31	0.0	0.0	0.0	0.0	5.258	0.0	0.0	0.0	0.0	0.010	0.0	0.002	
MEAN	0.0	0.0	0.0	0.4339	0.3722	0.0151	0.2332	0.0	0.0340	0.2228	0.0106	0.2205	
INCHES	0.0	0.0	0.0	2.347	2.080	0.082	1.303	0.0	0.184	1.246	0.058	1.233	
STA AV	0.449	0.577	0.694	0.921	1.054	0.612	0.165	0.045	0.157	0.283	0.377	0.514	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.180316. Records began Jan. 1, 1939. STA AV based on 38 yr (1939-76) record period.

1976 SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS WATERSHED Y-2						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 5 - 6, 1976										
5- 5	RG 00069B 0.0	0.0	5- 5	RG 00069B 43	0.0	0.0	5- 5	739	0.0	0.0
				102	0.0632	0.02		843	0.0	0.0
				122	0.1200	0.06		951	0.004	0.0000
				742	0.0079	0.11		1154	0.024	0.0002
				912	0.0	0.11		1300	0.018	0.0004
				922	0.0600	0.12		1442	0.019	0.0006
				932	0.1800	0.15		1547	0.021	0.0008
				949	0.0	0.15		1742	0.035	0.0012
				952	1.6000	0.23		1810	0.048	0.0014
				1113	0.0519	0.30		1815	0.052	0.0014
				1212	0.1119	0.41		1822	0.051	0.0014
				1222	0.3600	0.47		1825	0.078	0.0015
				1233	0.7091	0.60		1830	0.095	0.0015
				1242	1.8000	0.87		1835	0.103	0.0016
				1246	3.9000	1.13		1837	0.109	0.0016
				1252	0.6000	1.19		1840	0.161	0.0016
				1303	0.5455	1.29		1841	0.221	0.0017
				1312	0.1333	1.31		1843	0.262	0.0017
				1322	0.1200	1.33		1844	0.294	0.0018
				1327	2.0400	1.50		1847	0.356	0.0019
				1330	3.8000	1.69		1850	0.570	0.0020
				1353	0.1826	1.76		1852	0.646	0.0022
				1432	0.0	1.76		1855	0.817	0.0025
				1617	0.0114	1.78		1858	1.012	0.0028
				1622	0.4800	1.82		1900	1.149	0.0031
								1903	1.413	0.0036
								1904	1.730	0.0038
								1906	3.073	0.0044
								1908	7.300	0.0057
								1910	10.209	0.0078

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

1976

SELECTED RUNOFF EVENT

RIESEL (WACO), TEXAS WATERSHED Y-2

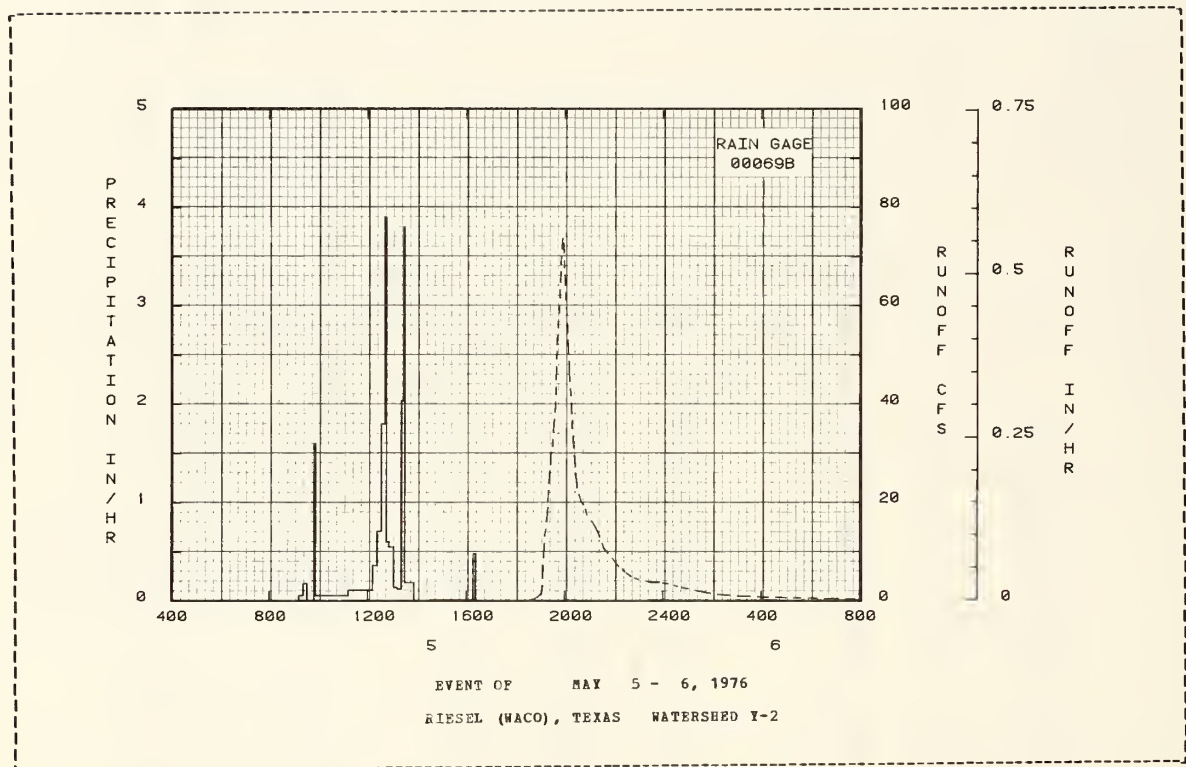
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 5 - 6, 1976 (CONTINUED)										
							5- 5	1912	13.696	0.0108
								1915	14.563	0.0161
								1919	18.845	0.0245
								1921	22.441	0.0297
								1923	25.036	0.0356
								1924	26.364	0.0389
								1926	29.203	0.0458
								1928	30.248	0.0533
								1930	31.383	0.0610
								1933	34.564	0.0734
								1935	36.963	0.0823
								1937	39.338	0.0919
								1938	40.504	0.0969
								1940	47.673	0.1079
								1942	54.050	0.1207
								1946	58.593	0.1489
								1948	61.794	0.1639
								1950	65.457	0.1799
								1951	68.485	0.1883
								1953	72.185	0.2059
								1955	73.748	0.2241
								1957	72.600	0.2425
								1958	70.634	0.2514
								2001	65.557	0.2770
								2004	59.363	0.3005
								2006	55.926	0.3149
								2009	50.188	0.3348
								2011	47.229	0.3470
								2012	44.597	0.3528
								2016	39.587	0.3739
								2019	34.960	0.3879
								2021	32.534	0.3963
								2024	29.203	0.4079
								2026	27.226	0.4150
								2028	25.090	0.4215
								2031	22.952	0.4306
								2040	20.209	0.4549
								2046	19.519	0.4698
								2051	18.514	0.4817
								2055	17.439	0.4907
								2111	15.370	0.5236
								2126	12.994	0.5502
								2135	10.597	0.5635
								2145	9.628	0.5762
								2156	8.533	0.5887
								2211	6.890	0.6032
								2221	6.393	0.6115
								2226	5.872	0.6153
								2231	5.542	0.6189
								2241	4.854	0.6254
								2250	4.603	0.6307
								2301	4.303	0.6369
								2331	3.693	0.6519
								2351	3.678	0.6611
								2400	3.528	0.6652
							5- 6	11	3.338	0.6699
								31	2.978	0.6778
								35	2.886	0.6793
								45	2.643	0.6827
								101	2.331	0.6877
								130	1.818	0.6953
								156	1.456	0.7006
								226	1.179	0.7055
								316	0.892	0.7120
								400	0.700	0.7164
								501	0.541	0.7211
								559	0.430	0.7247
								651	0.321	0.7271
								749	0.275	0.7293
								859	0.185	0.7313
								957	0.161	0.7326
								1157	0.133	0.7348
								1354	0.081	0.7363
								1552	0.054	0.7373
								1745	0.031	0.7379

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



1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 5 - 6, 1976 (CONTINUED)										
							5- 6	1944	0.019	0.7383
								2150	0.014	0.7386
								2400	0.009	0.7388

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



RIESEL (WACO), TEXAS WATERSHED Y-6

LOCATION: Falls Co., Texas; 18 mi. SE of Waco,; Brazos River Basin. Lat. 31 deg. 28 min. 26 sec. N.; Long. 96 deg. 53 min. 09 sec. W.

AREA: 16.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-6	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1976	P 0.13	0.90	2.71	9.05	7.20	1.93	5.78	0.13	5.60	5.45	1.62	2.82	43.32		
	Q 0.0	0.0	0.0	2.663	2.041	0.004	1.190	0.0	0.150	0.699	0.001	0.595	7.544		
STA AV	P 1.98	2.55	2.26	4.02	3.98	3.53	1.95	2.24	3.01	3.33	2.85	2.34	34.05		
	Q 0.296	0.351	0.354	0.689	0.744	0.590	0.157	0.049	0.136	0.355	0.354	0.349	4.454		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval												
	Date	Vol.	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date	Vol.	Vol.	Vol.	Vol.	Vol.			
	5-31	1.256	5-31	0.772	5-31	0.850	5-31	0.867	4-18	1.168	4-18	1.753	4-18	1.885	4-12	1.942
	6-10	3.791	3-29	1.900	3-29	2.340	3-29	2.950	3-29	3.130	3-29	3.670	11-22	4.870	4-19	8.490
	1941		1965		1965		1965		1965		1965		1940		1957	

NOTES: Watershed conditions: 54% cotton; 4% other; 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 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 69B and 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)														RIESEL (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	0.0	0.0	0.01	0.0	0.0	0.22	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	1.05	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.32	0.0	0.0	0.0			
4	0.0	0.0	0.13	3.68	0.0	0.0	0.65	0.0	0.0	2.04	0.0	0.0			
5	0.0	0.32	0.0	0.56	1.94	0.0	1.03	0.0	0.0	0.86	0.0	0.69			
6	0.0	0.0	0.24	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.22			
7	0.0	0.0	0.50	0.56	0.24	0.0	0.01	0.0	0.0	0.09	0.0	0.0			
8	0.0	0.0	0.49	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.31	0.0	0.03	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	1.23			
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.58			
12	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.10	0.0			
13	0.0	0.0	0.10	0.0	0.03	0.0	0.04	0.0	0.0	0.0	0.13	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.49	0.0	0.22	0.10			
15	0.0	0.0	0.0	0.58	0.0	0.42	1.10	0.0	0.0	0.07	0.11	0.0			
16	0.0	0.0	0.0	0.60	0.0	0.0	1.77	0.09	0.0	0.10	0.0	0.0			
17	0.0	0.66	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	3.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.03	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.25	0.22	0.47	0.0			
20	0.0	0.22	0.0	0.49	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.42	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.06	0.0	0.75	0.08	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0			
25	0.0	0.0	0.0	0.0	1.57	1.16	0.0	0.0	0.0	0.0	0.59	0.0			
26	0.0	0.0	0.0	0.0	0.05	0.03	0.0	0.0	0.44	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	1.58	0.0	0.0	0.0	0.0	2.68	0.07	0.0	0.0			
29	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.04	0.0	1.92	0.0	0.0			
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.04		0.0		2.32		0.0	0.0		0.0		0.0			
TOTAL	0.13	0.90	2.71	9.05	7.20	1.93	5.78	0.13	5.60	5.45	1.62	2.82			
STA AV	1.98	2.55	2.26	4.02	3.98	3.53	1.95	2.24	3.01	3.33	2.85	2.34			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69B and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV values are based on 33 yr (1939-July 1943, May 1947-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	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	0.0	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	0.079	0.0	0.0	0.227	0.0	0.0
5	0.0	0.0	0.0	0.0	0.489	0.0	0.0	0.0	0.0	0.342	0.0	0.001
6	0.0	0.0	0.0	0.0	0.010	0.0	0.001	0.0	0.0	0.0	0.0	0.002
7	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.001	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	0.080
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.322
12	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.003
13	0.0	0.0	0.0	0.0	0.031	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 T
15	0.0	0.0	0.0	0.0	0.0	0.0	0.094	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.008	0.0	0.0	0.638	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	1.186	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.110	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
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	0.249	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
26	0.0	0.0	0.0	0.0	0.001	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	0.108	0.0	0.0	0.0	0.0	0.103	0.0	0.0	0.0
29	0.0	0.0	0.0	0.386	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
31	0.0	0.0	0.0	0.0	0.593	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0608	0.0451	0.0001	0.0263	0.0	0.0034	0.0199	0.0	0.0132
INCHES	0.0	0.0	0.0	2.663	2.041	0.004	1.190	0.0	0.150	0.899	0.001	0.595
STA AV	0.290	0.351	0.388	0.689	0.744	0.590	0.157	0.049	0.136	0.355	0.354	0.349

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 values are based on 33 yr (1939-July 1943, May 1947-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-6										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976										
4-18	RG 00069B 0.0	0.0	4-18	RG 00069B 47	0.0	0.0	4-18	151	0.0	0.0
				141	0.1111	0.10		154	0.0	0.0
				156	0.0800	0.12		159	0.001	0.0
				206	0.1800	0.15		204	0.002	0.0000
				216	0.3600	0.21		209	0.004	0.0000
				227	0.2182	0.25		214	0.012	0.0001
				241	0.3000	0.32		219	0.017	0.0001
				257	0.1500	0.36		224	0.020	0.0002
				301	0.4500	0.39		229	0.036	0.0004
				306	1.0800	0.48		244	0.059	0.0011
				316	0.1200	0.50		254	0.087	0.0018
				326	0.3000	0.55		259	0.106	0.0023
				336	0.6600	0.66		304	0.161	0.0030
				347	0.8182	0.81		309	0.198	0.0039
				356	0.1333	0.83		314	0.328	0.0052
				412	0.3375	0.92		317	0.431	0.0064
				426	0.1286	0.95		322	0.476	0.0087
				456	0.2600	1.08		328	0.471	0.0116
				526	0.2200	1.19		332	0.568	0.0137
				556	0.2800	1.33		336	0.832	0.0165
				627	0.3097	1.49		339	1.052	0.0194
				657	0.1600	1.57		343	1.576	0.0247
				728	0.2710	1.71		346	2.269	0.0306
				756	0.2571	1.83		349	2.586	0.0379
				856	0.1100	1.94		354	2.965	0.0520
				957	0.0197	1.96		359	3.031	0.0672
				1056	0.2542	2.21		404	2.899	0.0822
				1157	0.0	2.21		409	2.756	0.0966
				1227	0.2000	2.31		414	2.819	0.1107
				1249	0.2455	2.40		424	2.453	0.1374

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

1976

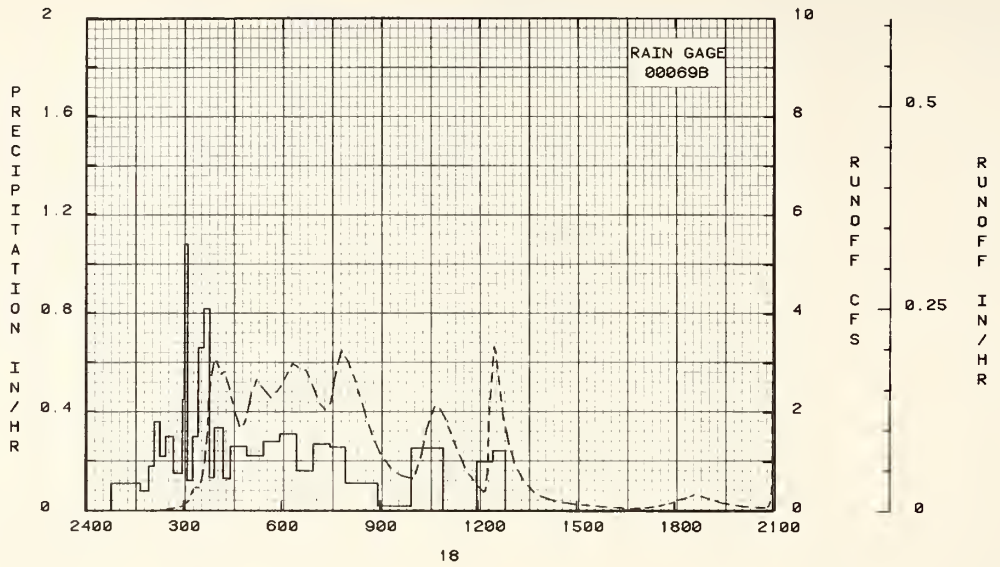
## SELECTED RUNOFF EVENT

RIESEL (WACO), TEXAS WATERSHED Y-6

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	434	1.970	0.1599
								442	1.698	0.1748
								450	1.740	0.1887
								454	1.847	0.1960
								459	2.121	0.2060
								504	2.381	0.2174
								514	2.662	0.2430
								524	2.482	0.2691
								540	2.283	0.3078
								558	2.527	0.3517
								619	2.981	0.4103
								629	2.899	0.4401
								644	2.835	0.4837
								659	2.439	0.5238
								709	2.157	0.5471
								719	2.039	0.5684
								729	2.181	0.5898
								734	2.541	0.6018
								739	2.819	0.6154
								744	3.082	0.6303
								749	3.254	0.6464
								800	3.031	0.6814
								815	2.601	0.7243
								830	2.027	0.7595
								845	1.537	0.7866
								900	1.155	0.8070
								920	0.845	0.8273
								940	0.701	0.8430
								1000	0.649	0.8567
								1005	0.749	0.8602
								1010	0.927	0.8645
								1015	1.122	0.8697
								1020	1.405	0.8761
								1025	1.657	0.8838
								1030	1.825	0.8927
								1040	2.109	0.9126
								1050	2.062	0.9338
								1100	1.836	0.9535
								1115	1.414	0.9783
								1135	0.865	1.0014
								1200	0.490	1.0185
								1210	0.381	1.0230
								1212	0.410	1.0238
								1214	0.485	1.0247
								1217	0.859	1.0267
								1219	1.814	1.0294
								1222	2.325	1.0357
								1225	2.787	1.0435
								1227	3.133	1.0495
								1229	3.343	1.0561
								1233	3.031	1.0690
								1237	2.709	1.0806
								1242	2.230	1.0932
								1246	1.836	1.1014
								1252	1.557	1.1117
								1256	1.351	1.1176
								1306	0.970	1.1294
								1322	0.627	1.1424
								1342	0.377	1.1525
								1356	0.287	1.1572
								1421	0.200	1.1634
								1457	0.143	1.1697
								1542	0.097	1.1752

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





EVENT OF APRIL 18, 1976  
RIESEL (WACO), TEXAS WATERSHED T-6

RIESEL (WACO), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 22 sec. N.; Long. 96 deg. 52 min. 54 sec. W.

AREA: 20.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.13	0.94	3.19	10.20	7.85	2.07	6.47	0.11	5.62	5.85	1.66	2.97	47.06	
	Q	0.0	0.0	0.0	0.873	1.020	0.115	1.675	0.0	0.737	1.405	0.055	1.297	7.175	
	STA AV P	1.92	2.56	2.35	4.14	3.91	3.65	2.03	2.25	3.11	3.47	2.69	2.36	34.63	
	Q	0.331	0.394	0.456	0.736	0.776	0.634	0.203	0.062	0.206	0.340	0.390	0.418	4.945	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	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.								
	9-26	1.118	9-28	0.455	9-28	0.539	10-4	0.822	10-4	0.920	12-10	0.995	7-15	1.353	9-28	1.683
MAXIMUMS FOR PERIOD OF RECORD																
	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	4-15	5.100
	1941		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 94% fall planted oats; 4% other; 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.

1976	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-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	0.04	0.0	0.0	0.21	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	1.14	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.37	0.0	0.0	0.0		
4	0.0	0.0	0.14	0.69	0.0	0.0	1.76	0.0	0.0	2.15	0.0	0.0		
5	0.0	0.02	0.0	0.60	2.19	0.0	0.0	0.0	0.0	0.91	0.0	0.0		0.72
6	0.0	0.0	0.29	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0		0.29
7	0.0	0.0	0.50	0.61	0.29	0.0	0.0	0.0	0.0	0.05	0.0	0.0		0.0
8	0.0	0.0	0.56	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0		0.0
9	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
10	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0		1.28
11	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.57
12	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.19		0.0
13	0.0	0.0	0.10	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.10		0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.47	0.0	0.21	0.11		0.0
15	0.0	0.0	0.0	0.63	0.0	0.43	1.29	0.0	0.0	0.06	0.10	0.0		0.0
16	0.0	0.0	0.0	0.69	0.0	0.0	1.99	0.08	0.0	0.04	0.0	0.0		0.0
17	0.0	0.58	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0		0.0
18	0.0	0.0	0.0	3.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
19	0.02	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.26	6.32	0.53	0.0		0.0
20	0.0	0.24	0.0	0.54	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		0.0
21	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
22	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
23	0.0	0.0	0.53	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
24	0.07	0.0	0.88	0.05	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0		0.0
25	0.01	0.0	0.0	0.0	1.72	1.37	0.0	0.0	0.0	0.0	0.62	0.0		0.0
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.46	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	1.87	0.0	0.0	0.0	0.0	2.49	0.07	0.0	0.0		0.0
29	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.63	0.0	2.18	0.0	0.0		0.0
30	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
31	0.03	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		6.13	0.94	3.19	10.20	7.85	2.07	6.47	0.11	5.62	5.85	1.66		2.97
STA AV		1.92	2.56	2.35	4.14	3.91	3.65	2.03	2.28	3.11	3.47	2.85		2.36

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 31 yr (1939-July 1943, Jan. 1949-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS WATERSHED Y-8					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.055	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	0.210	0.0	0.0	0.275	0.0	0.0
5	0.0	0.0	0.0	0.0	0.409	0.0	0.0	0.0	0.0	0.552	0.0	0.008
6	0.0	0.0	0.0	0.0	0.023	0.0	0.059	0.0	0.0	0.002	0.0	0.045
7	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.005
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	0.171
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.726
12	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.067
13	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.020
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029
15	0.0	0.0	0.0	0.0	0.0	0.0	0.316	0.0	0.0	0.0	0.0	0.017
16	0.0	0.0	0.0	0.006	0.0	0.0	0.735	0.0	0.0	0.0	0.0	0.010
17	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0	0.006
18	0.0	0.0	0.0	0.322	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.008
19	0.0	0.0	0.0	0.062	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.014
20	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.003
21	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.001
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	0.012	0.045	0.0	0.0	0.0	0.0	0.017	0.001
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
28	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.643	0.0	0.0	0.0
29	0.0	0.0	0.0	0.351	0.0	0.0	0.0	0.0	0.0	0.356	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	0.443	0.0	0.0	0.0	0.0	0.002	0.0	0.0
MEAN	0.0	0.0	0.0	0.0254	0.0287	0.0033	0.0472	0.0	0.0215	0.0396	0.0016	0.0366
INCHES	0.0	0.0	0.0	0.873	1.020	0.115	1.675	0.0	0.737	1.405	0.055	1.297
STA AV	0.331	0.394	0.456	0.736	0.775	0.634	0.203	0.062	0.206	0.340	0.390	0.418

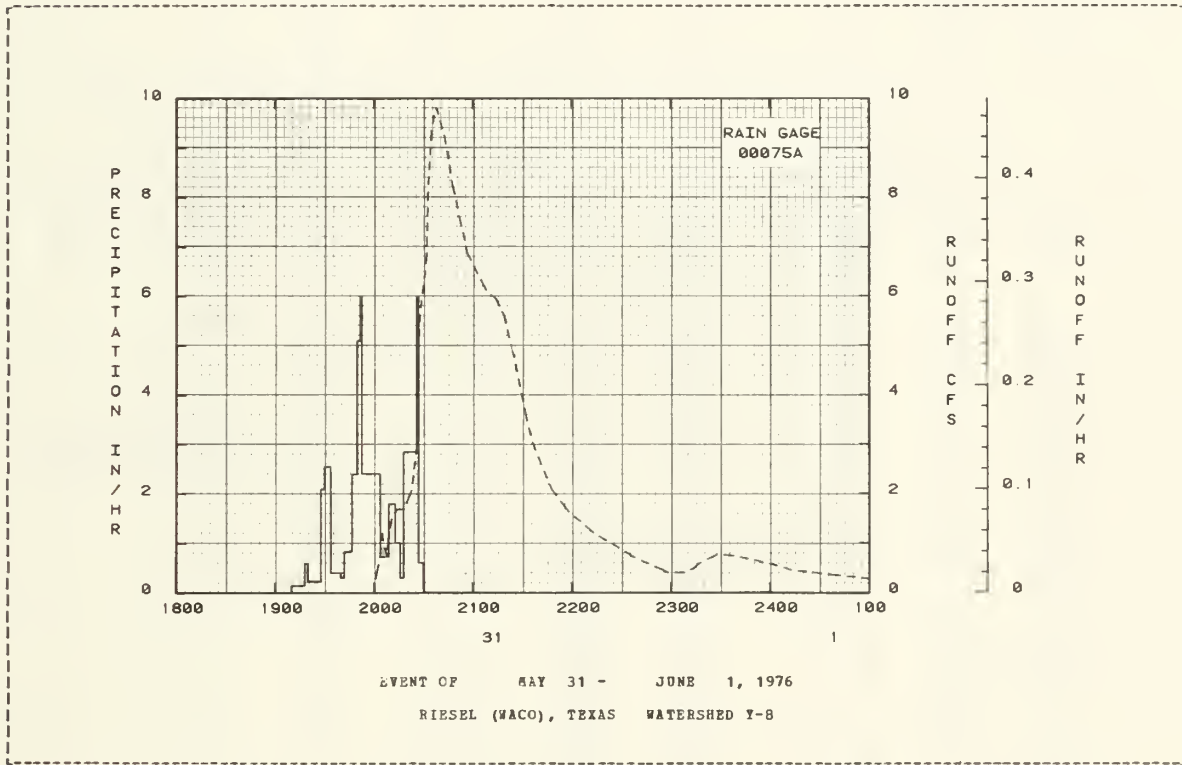
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.144310. Records began Mar. 1, 1939; station not in operation 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 31 yr (1935-July 1943, Jan. 1949-76) record period.

1976			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-8					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
			EVENT OF MAY 31 - JUNE 1, 1976								
5-31	RG 00075A 0.41	0.0	5-31	RG 00075A 1910	0.0	0.0	5-31	2000	0.0	0.0	
				1918	0.1499	0.02		2002	0.423	0.0003	
				1920	0.6001	0.04		2004	0.766	0.0013	
				1928	0.2250	0.07		2005	1.156	0.0021	
				1930	2.4002	0.14		2007	0.857	0.0037	
WATERSHED CONDITIONS: 94% fall planted oats; 4% other; 2% gravel roads. Cropland terraced, culti- vated on contour.				1934	2.5500	0.31		2008	0.736	0.0043	
				1940	0.3999	0.35		2009	1.158	0.0051	
				1942	0.3003	0.36		2011	1.504	0.0072	
				1947	0.8399	0.43		2014	1.690	0.0110	
				1950	2.4002	0.55		2018	1.650	0.0164	
				1952	5.1012	0.72		2023	2.068	0.0238	
				1953	5.9955	0.82		2026	2.958	0.0298	
				1957	2.4001	0.98		2027	4.719	0.0329	
				2004	2.4000	1.26		2028	5.618	0.0370	
				2009	0.7200	1.32		2032	6.740	0.0566	
				2013	1.8002	1.44		2033	8.116	0.0625	
				2016	0.9998	1.49		2035	9.364	0.0764	
				2018	0.3003	1.50		2038	9.831	0.0993	
				2022	2.8500	1.69		2043	9.226	0.1372	
				2026	2.8498	1.88		2048	8.219	0.1718	
				2027	5.9960	1.98		2053	7.429	0.2029	
				2030	0.6000	2.01		2057	6.861	0.2256	
				2400	0.0086	2.04		2108	6.123	0.2824	
								2114	5.937	0.3111	
								2119	5.595	0.3340	
								2125	4.762	0.3587	
								2133	3.474	0.3849	
								2138	2.869	0.3975	
								2148	2.084	0.4172	
								2158	1.632	0.4315	

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-8								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 31 - JUNE 1, 1976 (CONTINUED)											
							5-31	2213	1.209	0.4489	
								2238	0.704	0.4679	
								2258	0.405	0.4767	
								2308	0.405	0.4799	
								2313	0.476	0.4817	
								2318	0.611	0.4838	
								2328	0.768	0.4893	
								2338	0.736	0.4953	
								2400	0.581	0.5068	
							6- 1	13	0.449	0.5121	
								38	0.346	0.5200	
								59	0.284	0.5253	

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





RIESEL (WACO), TEXAS WATERSHED Y-10

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 31 sec. N.; Long. 96 deg. 53 min. 10 sec. W.

AREA: 18.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y-10	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.14	0.85	2.52	8.40	6.89	1.87	5.42	0.12	5.48	5.25	1.56	2.80	41.30	
	Q 0.0	0.0	0.0	3.813	1.809	0.031	0.644	0.0	0.127	1.858	0.005	1.687	9.975	
STA AV	P 2.05	2.47	2.29	4.00	3.98	3.43	1.91	2.21	3.01	3.22	2.80	2.38	33.75	
	Q 0.394	0.399	0.520	0.929	0.788	0.683	0.187	0.076	0.276	0.390	0.428	0.455	5.527	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	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.
1976	5-31	1.030	5-31	0.728	5-31	0.783	4-18	1.234	4-18	1.765	4-18	2.596	4-18	2.906	4-12	2.988

MAXIMUMS FOR PERIOD OF RECORD																
1957	4-19	3.730	4-19	2.900	4-19	3.480	3-29	4.130	3-29	4.270	4-23	4.620	4-23	5.340	4-19	10.570
	1957		1957		1957		1965		1965		1965		1965		1957	

NOTES: Watershed conditions: 54% sorghum; 3% other; 3% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69 and 69B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-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	0.22	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.99	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.30	0.0	0.0	0.0		
4	0.0	0.0	0.14	0.68	0.0	0.0	0.56	0.0	0.0	1.99	0.0	0.0		
5	0.0	0.2	0.0	0.55	1.79	0.0	1.02	0.0	0.0	0.80	0.0	0.67		
6	0.0	0.0	0.24	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.18		
7	0.0	0.0	0.46	0.55	0.24	0.0	0.03	0.0	0.0	0.12	0.0	0.0		
8	0.0	0.0	0.45	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.30	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	1.28		
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.59		
12	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.12	0.0		
13	0.0	0.0	0.11	0.0	0.03	0.0	0.05	0.0	0.0	0.0	0.16	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.49	0.0	0.23	0.08		
15	0.0	0.0	0.0	0.51	0.0	0.41	1.03	0.0	0.0	0.07	0.07	0.0		
16	0.0	0.0	0.0	0.53	0.0	0.0	1.61	0.08	0.0	0.13	0.0	0.0		
17	0.0	0.62	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.03	0.0	0.0	0.01	0.0	0.09	0.0	0.0	0.25	0.18	0.44	0.0		
20	0.0	0.21	0.0	0.44	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.40	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.04	0.0	0.64	0.09	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0		
25	0.03	0.0	0.0	0.0	1.52	1.07	0.0	0.0	0.0	0.0	0.54	0.0		
26	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.44	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	1.38	0.0	0.0	0.0	0.0	2.66	0.07	0.0	0.0		
29	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.03	0.0	1.79	0.0	0.0		
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
31	0.04	0.0	0.0	0.0	2.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.14	0.85	2.52	8.40	6.89	1.87	5.42	0.12	5.48	5.25	1.56	2.80		
STA AV	2.05	2.47	2.29	4.00	3.98	3.43	1.91	2.21	3.01	3.22	2.80	2.38		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69 and 69B. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 34 yr (1938-July 1943, May 1946-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS			WATERSHED I-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	0.024	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0005	0.0	0.0	0.316	0.0	0.0
5	0.0	0.0	0.0	0.0	0.413	0.0	0.0	0.0	0.0	0.679	0.0	0.003
6	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.001	0.0	0.023
7	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.480
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.793
12	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.014
13	0.0	0.0	0.0	0.0	0.120	0.0	0.0	0.0	0.0	0.0	0.0	0.001
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
15	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.001
16	0.0	0.0	0.0	0.001	0.0	0.0	0.468	0.0	0.0	0.0	0.0	0.0 T
17	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	1.985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.259	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	0.145	0.0	0.0	0.0	0.0	0.0	0.003	0.0
26	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.001	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	0.157	0.0	0.0	0.0	0.0	0.099	0.0	0.0	0.0
29	0.0	0.0	0.0	0.488	0.0	0.0	0.0	0.0	0.0	0.421	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0
31	0.0	0.0	0.0	0.0	0.635	0.0	0.0	0.0	0.0	0.001	0.0	0.0
MEAN	0.0	0.0	0.0	0.0393	0.0456	0.0008	0.0162	0.0	0.0033	0.0468	0.0001	0.0425
INCHES	0.0	0.0	0.0	3.813	1.809	0.031	0.644	0.0	0.127	1.858	0.005	1.687
STA AV	0.394	0.399	0.520	0.929	0.788	0.683	0.187	0.076	0.276	0.390	0.428	0.455

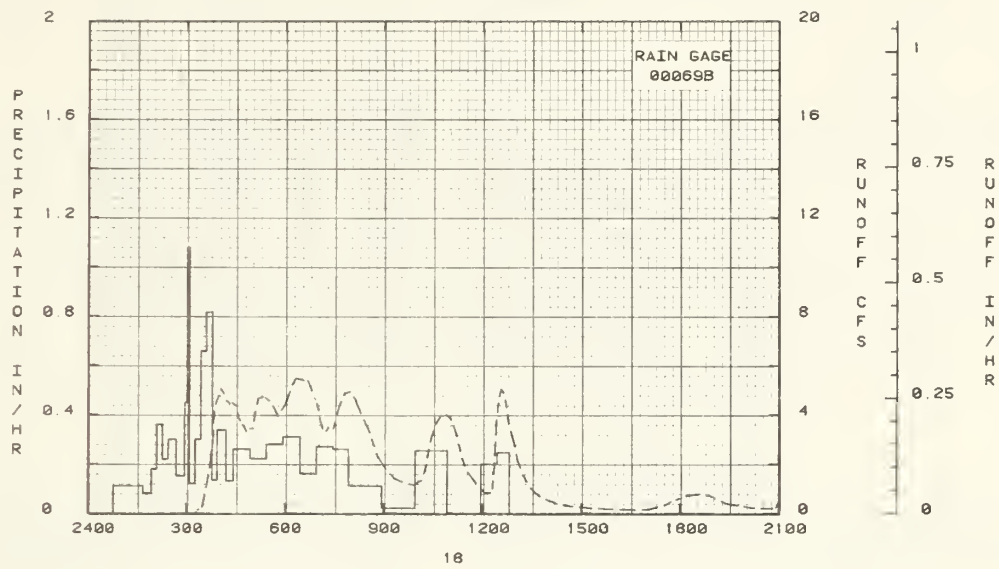
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.279659. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 34 yr (1938-July 1943, May 1946-76) record period.

1976		/SELECTED RUNOFF EVENT		RIESEL (WACO), TEXAS			WATERSHED I-10			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976										
4-18	0.0	0.0	4-18	47	0.0	0.0	4-18	316	0.0	0.0
				141	0.1111	0.10		318	0.045	0.0000
				156	0.0800	0.12		322	0.145	0.0004
				206	0.1300	0.15		323	0.172	0.0005
				216	0.3600	0.21		329	0.259	0.0017
WATERSHED CONDITIONS: 94% sorghum; 3% other; 3% gravel roads. Cropland terraced, contour culti- vation.										
				227	0.2182	0.25		334	0.750	0.0039
				241	0.3000	0.32		338	1.248	0.0075
				257	0.1500	0.36		344	2.112	0.0164
				301	0.4500	0.39		346	2.535	0.0205
				306	1.0800	0.48		349	3.063	0.0280
				316	0.1200	0.50		351	4.153	0.0344
				326	0.3000	0.55		353	4.437	0.0420
				336	0.6600	0.66		359	4.781	0.0666
				347	0.8182	0.81		403	5.044	0.0841
				356	0.1333	0.83		409	4.852	0.1105
				412	0.3375	0.92		413	4.573	0.1272
				426	0.1286	0.95		419	4.437	0.1512
				456	0.2600	1.08		424	4.482	0.1710
				526	0.2200	1.19		429	4.370	0.1907
				556	0.2800	1.33		438	3.719	0.2231
				627	0.3097	1.49		443	3.581	0.2393
				657	0.1600	1.57		449	3.316	0.2577
				728	0.2710	1.71		456	3.447	0.2787
				756	0.2571	1.83		502	3.447	0.2971
				856	0.1100	1.94		506	4.153	0.3106
				957	0.0197	1.96		511	4.688	0.3302
				1056	0.2542	2.21		519	4.734	0.3637
				1157	0.0	2.21		524	4.688	0.3886
				1227	0.2000	2.31		530	4.573	0.4093
				1249	0.2455	2.40		539	4.304	0.4448

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-10							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
				4-18				547	3.921	0.4741
								600	4.437	0.5224
								609	4.971	0.5600
								619	5.495	0.6065
								634	5.392	0.6790
								642	5.367	0.7173
								649	4.971	0.7494
								658	4.459	0.7871
								708	3.428	0.8222
								714	3.334	0.8402
								719	3.485	0.8554
								728	3.428	0.8830
								738	4.260	0.9172
								748	4.876	0.9577
								758	4.947	1.0014
								808	4.595	1.0438
								818	4.046	1.0822
								834	3.260	1.1341
								849	2.281	1.1711
								903	1.799	1.1964
								919	1.399	1.2192
								934	1.258	1.2369
								954	1.144	1.2582
								1009	1.327	1.2747
								1014	1.666	1.2814
								1020	2.310	1.2920
								1027	3.081	1.3087
								1036	3.679	1.3358
								1044	3.983	1.3630
								1054	4.004	1.3985
								1103	3.799	1.4297
								1114	3.099	1.4634
								1123	2.195	1.4846
								1134	1.631	1.5033
								1148	1.209	1.5209
								1204	0.814	1.5353
								1214	0.836	1.5426
								1219	1.012	1.5467
								1221	1.750	1.5492
								1224	2.908	1.5554
								1226	3.799	1.5614
								1229	4.482	1.5724
								1234	5.044	1.5936
								1238	4.876	1.6112
								1242	4.573	1.6280
								1244	4.282	1.6359
								1248	3.620	1.6499
								1253	3.206	1.6651
								1259	2.677	1.6807
								1304	2.153	1.6915
								1309	1.811	1.7003
								1314	1.518	1.7077
								1329	0.970	1.7243
								1344	0.676	1.7352
								1359	0.515	1.7432
								1414	0.390	1.7492
								1429	0.306	1.7538
								1444	0.273	1.7577
								1459	0.236	1.7611
								1519	0.201	1.7650
								1544	0.176	1.7691
								1614	0.150	1.7735
								1639	0.141	1.7767

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



EVENT OF APRIL 18, 1976  
RIESEL (WACO), TEXAS WATERSHED Y-10



RIESEL (WACO), TEXAS WATERSHED SW-12

LOCATION: McLennan Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 48 sec. N.; Long. 96 deg. 52 min. 59 sec. W.

AREA: 2.97 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED SW-12	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.15	0.30	2.36	8.28	7.12	1.88	5.50	0.10	5.28	5.30	1.51	2.93	41.21	
	Q 0.0	0.0	0.0	2.756	2.851	0.011	1.102	0.0	0.005	0.529	0.026	2.145	9.426	
STA AV	P 2.04	2.55	2.24	4.02	3.91	3.49	1.92	2.16	2.99	3.22	2.79	2.35	33.68	
	Q 0.476	0.621	0.625	0.751	0.685	0.458	0.109	0.016	0.121	0.157	0.256	0.436	4.710	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge 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.
		5-31	2.172	5-31	1.345	5-31	1.443	5-31	1.477	12-10	1.561	4-18	1.772	4-18	1.909	12-5

MAXIMUMS FOR PERIOD OF RECORD																
	6-3	4.403	3-29	3.070	3-29	3.830	3-29	4.620	3-29	4.800	3-29	5.340	3-29	5.390	4-15	8.530
	1973		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.

1976 DAILY PRECIPITATION (inches)													RIESEL (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	0.21	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.01	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.35	0.0	0.0		
4	0.0	0.0	0.12	0.91	0.0	0.0	0.0	1.45	0.0	0.0	2.04	0.0		
5	0.0	0.73	0.0	0.31	1.86	0.0	0.0	0.0	0.0	0.0	0.79	0.0		
6	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.19		
7	0.0	0.0	0.42	0.58	0.29	0.0	0.0	0.34	0.0	0.0	0.17	0.0		
8	0.0	0.0	0.43	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	0.17	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	0.20	0.0	0.0	0.0	0.0	1.37		
11	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.58		
12	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	0.0	0.0	0.09	0.0	0.08	0.0	0.0	0.01	0.0	0.0	0.15	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.52	0.0	0.10		
15	0.0	0.0	0.0	0.63	0.0	0.32	1.15	0.0	0.0	0.05	0.0	0.0		
16	0.0	0.0	0.0	0.41	0.0	0.0	0.0	1.65	0.06	0.0	0.10	0.0		
17	0.0	0.55	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.04	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.27	0.16	0.49	0.0		
20	0.0	0.22	0.0	0.43	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.47	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.53	0.07	0.0	0.03	0.0	0.0	0.0	0.12	0.0	0.0		
25	0.09	0.0	0.0	0.0	1.65	1.18	0.0	0.0	0.0	0.0	0.56	0.0		
26	0.0	0.0	0.0	0.0	0.08	0.03	0.0	0.0	0.42	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	1.28	0.0	0.0	0.0	0.0	2.36	0.05	0.0	0.0		
29	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.02	0.0	1.82	0.0	0.0		
30	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.02	0.0	0.0	0.0	2.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.15	0.60	2.36	8.28	7.12	1.86	5.50	0.10	5.28	5.30	1.51	2.93		
STA AV	2.04	2.55	2.24	4.02	3.91	3.49	1.92	2.16	2.99	3.22	2.79	2.35		

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 values are based on 34 yr record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (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	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
5	0.0	0.0	0.0	0.0	0.112	0.0	0.0	0.0	0.0	0.015	0.0	0.098
6	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.032
7	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.002
8	0.0	0.0	0.0	0.0	0.001	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	0.124
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.098
12	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.002
13	0.0	0.0	0.0	0.0	0.021	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	0.004	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.001	0.0	0.0	0.130	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.217	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.023	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	0.028	0.0	0.0	0.0	0.0	0.0	0.002	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.004	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
29	0.0	0.0	0.0	0.093	0.0	0.0	0.0	0.0	0.0	0.049	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
31	0.0	0.0	0.0	0.0	0.184	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0115	0.0115	0.0	0.0044	0.0	0.0	0.0021	0.0001	0.0080
INCHES	0.0	0.0	0.0	2.756	2.851	0.011	1.102	0.0	0.005	0.529	0.026	2.145
STA AV	0.476	0.521	0.625	0.751	0.685	0.458	0.109	0.016	0.121	0.157	0.256	0.436

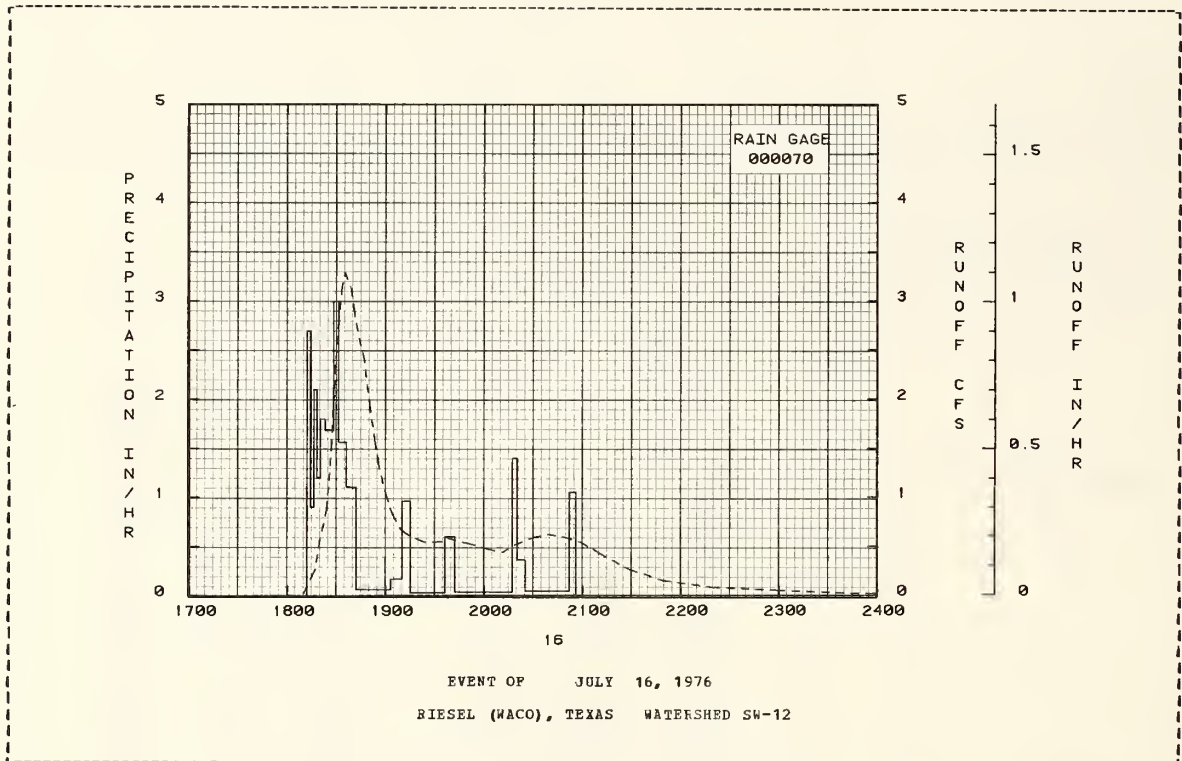
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.014025. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV values are based on 34 yr record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-12												
ANTECEDENT CONDITIONS			RAINFALL				FONCFF					
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 16, 1976												
7-16	0.40	0.056	7-16	1812	0.0	0.0	7-16	1810	0.026	0.0		
				1814	2.6999	0.09		1817	0.268	0.0057		
				1816	0.9060	0.12		1820	0.567	0.0129		
				1818	2.1002	0.19		1824	0.879	0.0292		
				1820	1.1996	0.23		1827	1.550	0.0498		
WATERSHED CONDITIONS: 100% native grass meadow, 12 to 14 inches.												
				1823	1.7999	0.32		1829	2.272	0.0713		
				1828	1.6800	0.46		1831	2.771	0.0994		
				1831	3.0002	0.61		1833	3.111	0.1321		
				1836	1.5599	0.74		1835	3.286	0.1677		
				1842	1.1000	0.85		1839	3.117	0.2350		
				1803	0.0572	0.87		1841	2.839	0.2721		
				1910	0.1715	0.39		1847	2.374	0.3592		
				1915	0.9606	0.97		1850	1.938	0.3552		
				1936	0.0286	0.98		1854	1.500	0.4334		
				1942	0.6000	1.04		1856	1.293	0.4490		
				2017	0.0343	1.06		1900	1.034	0.4749		
				2020	1.3998	1.13		1904	0.820	0.4955		
				2025	0.3602	1.16		1905	0.671	0.5162		
				2052	0.0444	1.18		1914	0.606	0.5240		
				2056	1.0501	1.25		1924	0.543	0.5661		
								1924	0.548	0.5964		
								1938	0.580	0.6090		
								1954	0.514	0.6577		
								2002	0.473	0.6797		
								2011	0.440	0.7025		
								2019	0.516	0.7238		
								2030	0.594	0.7576		
								2038	0.615	0.7681		
								2049	0.594	0.8217		
								2059	0.539	0.8532		

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-12							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 16, 1976 (CONTINUED)										
							7-16	2114	0.389	0.8920
								2129	0.257	0.9189
								2149	0.154	0.9416
								2219	0.083	0.9616
								2259	0.045	0.9758
								2344	0.024	0.9845
								2400	0.021	0.9865

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



RIESEL (WACO), TEXAS WATERSHED SW-17

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 45 sec. N.; Long. 96 deg. 53 min. 14 sec. W.

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	
1976	P 0.18	1.12	2.55	8.74	7.09	1.83	6.49	0.15	6.47	4.90	1.58	2.76	43.86	
	Q 0.0	0.001	0.007	3.066	2.382	0.096	1.706	0.0	0.338	1.632	0.004	1.326	10.558	
STA AV	P 1.95	2.58	2.27	4.13	3.85	3.45	2.02	2.33	3.12	3.41	2.90	2.39	34.42	
	Q 0.441	0.649	0.695	1.024	0.833	0.757	0.234	0.081	0.309	0.407	0.524	0.564	6.537	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days					
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1976	7-16	1.453	7-16	0.794	7-16	0.985	7-16	1.285	7-16	1.385	4-18	1.923	4-13	2.087	4-16	2.152

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	10-31	7.063	4-19	2.540	4-19	2.960	4-23	3.310	3-29	3.520	3-29	4.250	11-22	5.370	4-19	9.420
	1940		1957		1957		1957		1965		1965		1940		1957	

NOTES: Watershed conditions: 100% Bermudagrass 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.

1976	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	0.0	0.0	0.07	0.0	0.0	0.27	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.04	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.41	0.0	0.0	0.0		
4	0.0	0.0	0.07	0.81	0.0	0.0	1.50	0.0	0.0	1.63	0.0	0.0		
5	0.0	0.02	0.0	0.43	2.03	0.0	0.0	0.0	0.0	0.83	0.0	0.57		
6	0.0	0.0	0.26	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.22		
7	0.0	0.0	0.44	0.58	0.35	0.0	0.0	0.0	0.0	0.08	0.0	0.0		
8	0.0	0.0	0.45	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.09	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	0.19	0.0	0.0	0.0	0.0	1.27		
11	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.60		
12	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
13	0.0	0.0	0.09	0.0	0.03	0.0	0.03	0.0	0.0	0.0	0.18	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.35	0.0	0.24	0.10		
15	0.0	0.0	0.0	0.51	0.0	0.43	1.14	0.0	0.0	0.07	0.06	0.0		
16	0.0	0.0	0.0	0.66	0.0	0.0	1.95	0.10	0.0	0.15	0.0	0.0		
17	0.0	0.84	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.02	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.27	0.20	0.48	0.0		
20	0.0	0.25	0.0	0.52	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.48	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.04	0.0	0.68	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0		
25	0.05	0.0	0.0	0.0	1.74	1.11	0.0	0.0	0.0	0.0	0.52	0.0		
26	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	3.41	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	1.53	0.0	0.0	0.0	0.0	3.48	0.04	0.0	0.0		
29	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.03	0.0	1.78	0.0	0.0		
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
31	0.03	0.0	0.0	0.0	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.18	1.12	2.55	8.74	7.09	1.63	6.49	0.15	6.47	4.90	1.53	2.76		
STA AV	1.95	2.58	2.27	4.13	3.66	3.45	2.02	2.33	3.12	3.41	2.90	2.39		

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 values are based on 32 yr record period. Estimate codes may indicate that non-significant event totals are included.



1976 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	0.002	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.036	0.0	0.0
5	0.0	0.0	0.0	0.0	0.132	0.001	0.0	0.0	0.0	0.094	0.0	0.001
6	0.0	0.0	0.0	0.0	0.005	0.001	0.001	0.0	0.0	0.0	0.0	0.013
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	0.001	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.001	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	0.055
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.097
12	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
13	0.0	0.0	0.0	0.0	0.012	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 T	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0 T	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.008	0.0	0.0	0.170	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0 T	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.232	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.016	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	0.005	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	0.001	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	0.036	0.001	0.0	0.0	0.0	0.0	0.0 T	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0
29	0.0	0.0	0.0	0.094	0.0	0.0	0.0	0.0	0.0	0.075	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 T	0.0	0.0
31	0.0	0.0	0.0	0.0	0.113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0128	0.0097	0.0004	0.0069	0.0	0.0014	0.0065	0.0	0.0054
INCHES	0.0	0.001	0.007	3.066	2.382	0.096	1.706	0.0	0.338	1.632	0.004	1.326
STA AV	0.441	0.645	0.595	1.024	0.833	0.757	0.234	0.081	0.308	0.407	0.524	0.584

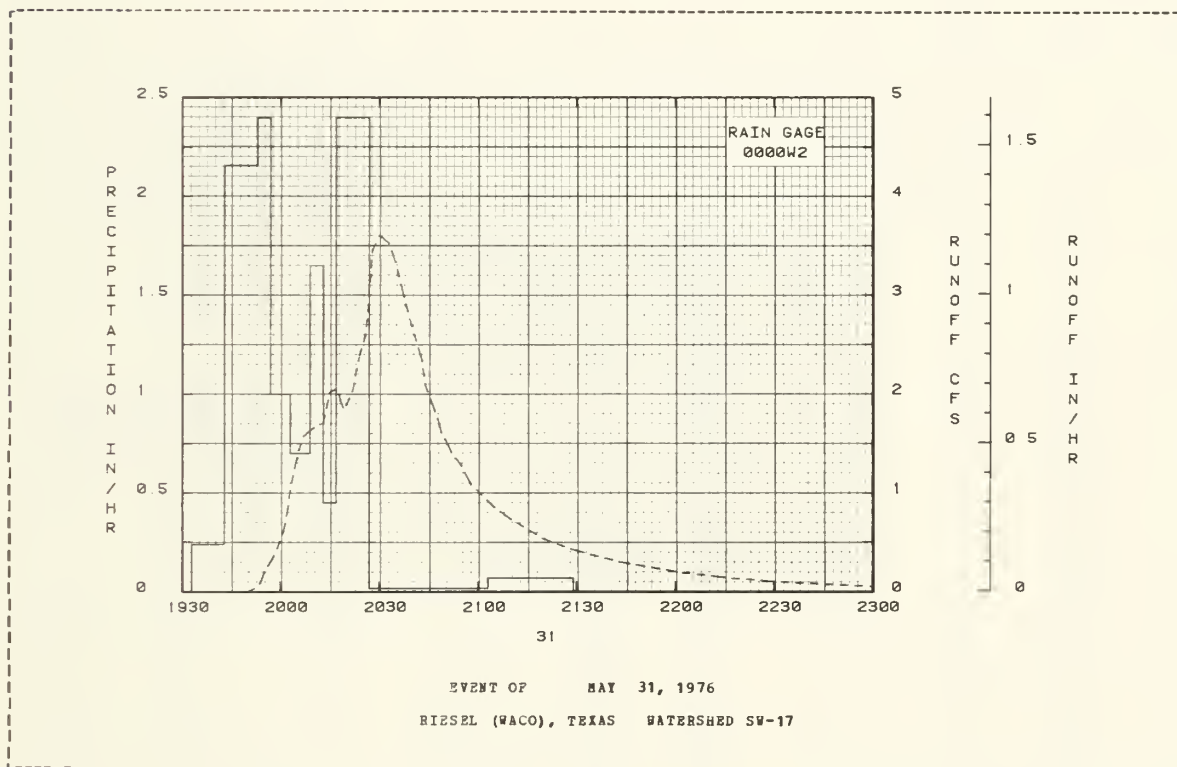
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.960419. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV values are based on 32 yr record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-17												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT CP MAY 31, 1976												
5-31	RG 0000W2 0.50	0.0	5-31	RG 0000W2	0.0	0.0	5-31	1945	0.0	0.0		
				1933	0.2401	0.04		1950	0.003	0.0000		
				1953	2.1600	0.40		1952	0.026	0.0002		
				1957	2.3998	0.56		1954	0.089	0.0008		
				2003	1.0001	0.66		1955	0.203	0.0016		
WATERSHED CONDITIONS: 100% Bermudagrass pasture, 4 to 6 inches high.												
				2009	0.7001	0.73		1957	0.300	0.0044		
				2013	1.6500	0.84		1959	0.435	0.0085		
				2017	0.4500	0.87		2001	0.616	0.0143		
				2023	2.3999	1.11		2002	0.802	0.0182		
				2027	2.4001	1.27		2003	1.032	0.0233		
				2103	0.0167	1.28		2005	1.360	0.0365		
				2129	0.0692	1.31		2007	1.564	0.0528		
								2010	1.657	0.0796		
								2013	1.710	0.1076		
								2014	1.673	0.1175		
								2015	2.015	0.1282		
								2017	2.063	0.1508		
								2018	1.967	0.1619		
								2019	1.864	0.1725		
								2020	1.887	0.1829		
								2022	2.039	0.2046		
								2024	2.393	0.2291		
								2026	2.615	0.2567		
								2027	3.059	0.2724		
								2028	3.457	0.2904		
								2030	3.606	0.3255		
								2033	3.515	0.3885		
								2035	3.330	0.4264		
								2037	3.047	0.4616		
								2040	2.682	0.5091		

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-17								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 31, 1976 (CONTINUED)											
				5-31				2043	2.331	0.5507	
								2044	2.088	0.5629	
								2047	1.818	0.5953	
								2049	1.610	0.6142	
								2052	1.407	0.6393	
								2055	1.275	0.6615	
								2058	1.076	0.6810	
								2105	0.854	0.7183	
								2110	0.728	0.7402	
								2120	0.526	0.7748	
								2130	0.413	0.8008	
								2144	0.290	0.8280	
								2200	0.198	0.8496	

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



RIESEL (WACO), TEXAS WATERSHED SW-19

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 35 sec. N.; Long. 96 deg. 53 min. 49 sec. W.

AREA: 3.25 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED SW-19	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94	41.49	
	Q 0.0	0.0	0.039	4.517	3.234	0.165	0.537	0.0	0.0	1.388	0.086	1.515	11.881	
STA AV	P 1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49	38.77	
	Q 0.727	0.596	0.618	1.441	1.166	0.618	0.369	0.308	0.429	1.019	0.646	0.813	6.449	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval			1 Day Date	2 Days Date	3 Days Date							
	Rate	Vol.	Vol.	6 Hours Date	12 Hours Date	Vol.	Vol.	Vol.								
	5-31	1.704	5-31	1.195	5-31	1.546	5-31	1.693	4-13	1.966	4-18	2.759	4-18	2.920	4-16	3.467
MAXIMUMS FOR PERIOD OF RECORD																
	11-17	2.936	11-17	1.727	11-17	2.269	10-31	2.621	10-31	3.095	10-30	4.148	10-30	4.157	10-30	4.412
	1971		1971		1971		1974		1974		1974		1974		1974	

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, USDA Misc. Pub. 1360, 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.

1976	DAILY PRECIPITATION (inches)												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	0.29	3.0	0.0	3.0		
2	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	1.01	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.34	0.0	0.0	0.0		
4	0.0	0.0	0.15	0.69	0.0	0.0	1.80	0.0	3.0	2.22	0.0	0.0		
5	0.0	0.03	0.0	0.57	1.44	0.0	0.0	0.0	6.0	6.97	0.0	0.0		
6	0.0	0.0	0.29	0.0	0.0	0.0	3.45	0.0	0.0	0.0	0.0	0.17		
7	0.0	0.0	0.57	0.56	0.36	0.0	0.07	0.0	0.0	0.18	0.0	0.0		
8	0.0	0.0	0.31	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.23	0.0	3.0	0.0	0.0	3.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	6.0	1.39		
11	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.64		
12	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	0.0	0.0	0.15	0.0	0.04	0.0	0.05	0.0	0.0	0.0	0.23	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.86	0.0	0.32	0.07		
15	0.0	0.0	0.0	0.86	0.0	0.31	0.97	0.0	0.0	0.07	0.0	0.0		
16	0.0	0.0	0.0	0.32	0.0	0.0	1.04	0.09	0.0	0.17	0.0	0.0		
17	0.0	0.74	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	3.26	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0		
19	0.08	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.39	0.20	0.44	0.0		
20	0.0	0.23	0.0	0.45	0.0	3.0	0.0	0.0	0.14	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	6.0	6.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.46	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.54	0.03	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0		
25	0.04	0.0	0.0	0.0	1.44	0.97	0.0	0.0	0.0	0.0	6.58	0.0		
26	0.0	0.0	0.0	0.0	0.09	0.05	0.0	0.0	0.52	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	1.97	0.04	0.0	0.0		
29	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.02	3.0	1.79	0.0	0.0		
30	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.02	0.0	0.0	2.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94		
STA AV	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49		

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 7 yr (1970-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) FIESEL (#ACO), 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	0.009	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.002	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	0.002	0.0	0.0	0.003	0.0	0.0	0.024	0.0	0.0
5	0.0	0.0	0.0	0.007	0.085	0.0	0.0	0.0	0.0	0.087	0.0	0.003
6	0.0	0.0	0.0	0.0 T	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.036
7	0.0	0.0	0.0	0.010	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0 T	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.001	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	0.0	0.0	0.0	0.0	0.0	0.0	0.165
12	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001
13	0.0	0.0	0.0	0.0	0.037	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	0.005	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.044	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.001	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.366	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.042	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.001	0.0	0.061	0.006	0.0	0.0	0.0	0.0	0.009	0.0
26	0.0	0.0	0.0	0.0	0.001	0.004	0.0	0.0	0.0	0.0	0.003	0.0
27	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.0	0.0	0.076	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 T	0.0	0.0
31	0.0	0.0	0.0	0.0	0.229	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0002	0.0206	0.0142	0.0008	0.0024	0.0	0.0	0.0061	0.0004	0.0084
INCHES	0.0	0.0	0.0039	4.517	3.234	0.165	0.537	0.0	0.0	1.388	0.086	1.915
STA AV	0.727	0.596	0.618	1.441	1.166	0.616	0.369	0.008	0.429	1.019	0.646	0.813

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.323585. Records began September 1, 1970. STA AV based on 7 yr (1970-76) record period.

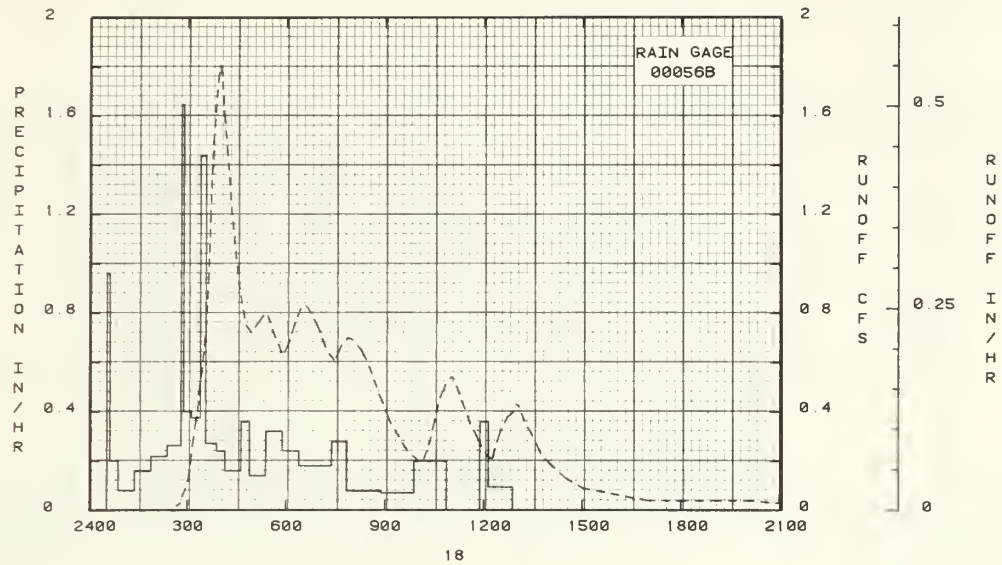
1976 SELECTED RUNOFF EVENT FIESEL (#ACO), TEXAS WATERSHED SW-19												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 18, 1976												
4-18	RG 00056B		4-18	EG 00056B			4-18					
	0.0	0.0		33	0.0	0.0		231	0.0	0.0		
				36	0.9600	0.06		236	0.003	0.0000		
				53	0.2900	0.13		241	0.016	0.0003		
				123	0.0800	0.17		246	0.031	0.0009		
				153	0.1600	0.25		251	0.056	0.0020		
*WATERSHED CONDITIONS:												
100% rangeland grasses, 4 to 6 inches tall, with moderate infestation of honey mesquite.												
				223	0.2200	0.36		256	0.087	0.0036		
				248	0.2600	0.47		301	0.132	0.0066		
				252	1.6500	0.58		306	0.203	0.0108		
				307	0.4000	0.58		311	0.295	0.0172		
				323	0.3750	0.76		316	0.375	0.0257		
				333	1.4400	1.02		321	0.475	0.0366		
				353	0.2700	1.11		326	0.560	0.0500		
				408	0.2400	1.17		331	0.675	0.0660		
				438	0.1600	1.25		335	0.758	0.0810		
				453	0.3600	1.34		338	0.962	0.0944		
				523	0.1400	1.41		341	1.217	0.1110		
				553	0.3200	1.57		346	1.503	0.1456		
				623	0.2400	1.69		351	1.651	0.1857		
				653	0.1800	1.76		356	1.785	0.2254		
				723	0.1800	1.37		358	1.811	0.2477		
				751	0.2786	2.00		401	1.771	0.2750		
				353	0.0774	2.08		406	1.597	0.3176		
				953	0.0700	2.15		411	1.467	0.3568		
				1053	0.2000	2.35		420	1.203	0.4179		
				1153	0.0	2.35		431	0.962	0.4784		
				1208	0.3600	2.44		441	0.815	0.5236		
				1253	0.0933	2.51		446	0.755	0.5436		
								456	0.724	0.5812		
								517	0.752	0.6622		
								526	0.792	0.6984		

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



1976 SELECTED RUNOFF EVENT			RIESEL (W&C), TRIAS WATERSHED SW-19							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	540	0.702	0.7516
								551	0.639	0.7891
								556	0.644	0.8054
								606	0.651	0.8394
								616	0.763	0.8763
								626	0.821	0.9166
								636	0.830	0.9586
								645	0.735	0.9958
								656	0.755	1.0392
								711	0.662	1.0932
								726	0.608	1.1416
								731	0.616	1.1572
								741	0.665	1.1898
								752	0.702	1.2280
								801	0.691	1.2599
								816	0.654	1.3112
								826	0.605	1.3432
								851	0.456	1.4107
								911	0.352	1.4518
								941	0.243	1.4971
								956	0.209	1.5144
								1001	0.200	1.5196
								1011	0.214	1.5301
								1021	0.268	1.5424
								1031	0.370	1.5586
								1041	0.456	1.5796
								1051	0.506	1.6040
								1101	0.540	1.6306
								1106	0.527	1.6442
								1116	0.467	1.6695
								1126	0.407	1.6917
								1136	0.345	1.7108
								1147	0.297	1.7288
								1156	0.252	1.7416
								1206	0.219	1.7538
								1212	0.206	1.7603
								1216	0.214	1.7646
								1221	0.250	1.7705
								1226	0.286	1.7773
								1232	0.331	1.7867
								1244	0.375	1.8082
								1250	0.400	1.8280
								1259	0.434	1.8386
								1300	0.417	1.8454
								1314	0.359	1.8691
								1329	0.295	1.8941
								1344	0.232	1.9142
								1359	0.192	1.9303
								1429	0.130	1.9549
								1500	0.092	1.9724
								1659	0.040	2.0123
								1800	0.037	2.0243
								1914	0.039	2.0386
								1959	0.039	2.0475
								2058	0.033	2.0583
								2102	0.083	2.0595
								2105	0.128	2.0611
								2107	0.133	2.0627
								2110	0.243	2.0659

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



EVENT OF APRIL 18, 1976  
BIESEL (WACO), TEXAS WATERSHED SW-19

RIESEL (WACO), TEXAS WATERSHED SW-20

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 33 sec. N.; Long. 96 deg. 53 min. 44 sec. W.

AREA: 3.21 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED SW-20																
		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
1976	P	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94	41.09	P	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94	41.09	
	Q	0.0	0.0	0.0	3.566	2.517	0.005	0.303	0.0	0.0	1.181	0.017	1.625	9.213	Q	0.0	0.0	0.0	3.566	2.517	0.005	0.303	0.0	0.0	1.181	0.017	1.625	9.213	
STA AV	P	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49	38.77	P	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49	38.77	
	Q	0.798	0.527	0.800	1.456	1.248	0.819	0.454	0.015	0.449	0.607	0.294	0.373	7.841	Q	0.798	0.527	0.800	1.456	1.248	0.819	0.454	0.015	0.449	0.607	0.294	0.373	7.841	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval												
				1 Hour Vol.	2 Hours Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date						
1976	5-31	1.885	5-31	1.192	5-31	1.425	5-31	1.493	4-18	1.764	4-18	2.421	4-18	2.549	4-12	2.881
MAXIMUMS FOR PERIOD OF RECORD																
	11-17 1971	3.121	11-17 1971	1.764	11-17 1971	2.387	10-31 1974	2.915	10-31 1974	3.358	10-30 1974	4.538	10-30 1974	4.546	10-30 1974	4.788

NOTES: Watershed conditions: 100% rangeland grasses with dead honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA 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.

1976 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-20													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	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	0.04	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.34	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	0.15	0.69	0.0	0.0	0.0	0.0	2.22	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.03	0.0	0.57	1.44	0.0	0.0	0.0	0.0	0.91	0.0	0.67	
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	0.29	0.0	0.0	0.45	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	0.57	0.56	0.36	0.07	0.0	0.0	0.18	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	0.31	0.0	0.0	0.04	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	0.23	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	0.22	0.0	0.0	0.0	0.0	1.39		
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	0.07	0.0	0.0	0.0	0.0	0.0	0.64		
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	0.51	0.0	0.0	0.0	0.0	0.11	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	0.15	0.0	0.04	0.0	0.05	0.0	0.0	0.23	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	0.18	0.0	0.86	0.0	0.32	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	15	0.0	0.0	0.0	0.86	0.0	0.31	0.97	0.0	0.0	0.07	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	0.32	0.0	0.0	1.04	0.09	0.0	0.17	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	0.74	0.0	0.0	0.0	0.11	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	3.26	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	0.08	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.39	0.20	0.44	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	0.23	0.0	0.45	0.0	0.0	0.0	0.0	0.14	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	0.11	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	0.04	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	0.46	0.0	0.22	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	0.54	0.03	0.0	0.0	0.0	0.0	0.0	0.08	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	0.04	0.0	0.0	0.0	1.44	0.97	0.0	0.0	0.0	0.0	0.58	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	0.09	0.05	0.0	0.0	0.52	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	
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	1.23	0.0	0.0	0.0	0.0	1.97	0.04	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	0.17	0.0	0.0	0.0	0.02	0.0	1.79	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	0.09	0.0	0.05	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	0.02	0.0	0.0	0.0	2.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	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	TOTAL	0.14	1.00	2.56	8.14	7.10	1.61	5.03	0.11	5.52	5.66	1.68	2.94	
														STA AV	1.98	1.59	2.13	4.36	4.17	2.87	3.99	2.49	4.92	5.38	2.40	2.49	

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 7 yr (1970-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (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	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0
5	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.063	0.0	0.005
6	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.014
7	0.0	0.0	0.0	0.004	0.004	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	0.104
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.097
12	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.022	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	0.004	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.031	0.0	0.0	0.037	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	0.322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.030	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	0.039	0.0	0.0	0.0	0.0	0.0	0.002	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	0.088	0.0	0.0	0.0	0.0	0.0	0.076	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	0.201	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0160	0.0109	0.0	0.0013	0.0	0.0	0.0051	0.0001	0.0071
INCHES	0.0	0.0	0.0	3.566	2.517	0.005	0.303	0.0	0.0	1.181	0.017	1.625
STA AV	0.796	0.527	0.800	1.456	1.248	0.819	0.454	0.015	0.449	0.607	0.294	0.373

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.414845. Records began September 1, 1970. STA AV based on 7 yr (1970-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-20											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
4-18	RG 00056B 0.0	0.0	4-18	33	0.0	0.0	4-18	240	0.0	0.0	
				38	0.9600	0.08		245	0.003	0.0000	
				53	0.2000	0.13		250	0.010	0.0002	
				123	0.0800	0.17		255	0.026	0.0007	
				153	0.1600	0.25		300	0.046	0.0016	
WATERSHED CONDITIONS: 100% rangeland grasses, 4 to 6 inches tall, with dead honey mesquite.											
				223	0.2200	0.36		305	0.076	0.0032	
				248	0.2640	0.47		310	0.109	0.0055	
				252	1.6500	0.58		315	0.155	0.0089	
				307	0.4000	0.68		320	0.209	0.0136	
				323	0.3750	0.78		325	0.273	0.0198	
				333	1.4400	1.02		330	0.381	0.0283	
				353	0.2700	1.11		335	0.506	0.0397	
				408	0.2400	1.17		338	0.675	0.0488	
				438	0.1600	1.25		343	1.034	0.0708	
				453	0.3600	1.34		344	1.181	0.0765	
				523	0.1400	1.41		349	1.543	0.1116	
				553	0.3200	1.57		354	1.914	0.1561	
				623	0.2400	1.69		357	2.077	0.1869	
				653	0.1800	1.78		359	2.164	0.2087	
				723	0.1800	1.87		405	2.227	0.2766	
				751	0.2786	2.00		410	2.212	0.3337	
				853	0.0774	2.08		414	2.168	0.3788	
				953	0.0700	2.15		417	2.025	0.4112	
				1053	0.2000	2.35		420	1.887	0.4414	
				1153	0.0	2.35		425	1.471	0.4847	
				1208	0.3600	2.44		428	1.257	0.5057	
				1253	0.0933	2.51		430	1.081	0.5178	
								435	0.786	0.5418	
								440	0.686	0.5607	
								445	0.605	0.5774	

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

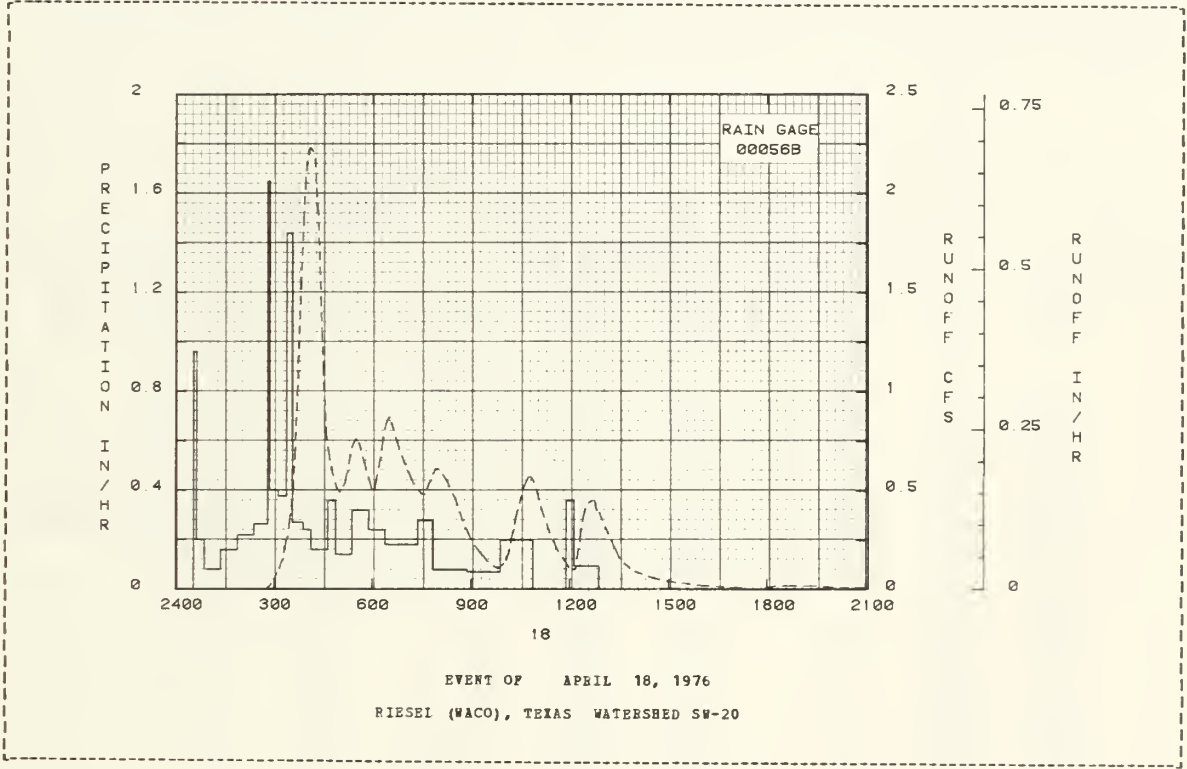


1976 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED SW-20							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	455	0.514	0.6062
								500	0.487	0.6191
								510	0.536	0.6454
								515	0.598	0.6600
								520	0.683	0.6765
								525	0.744	0.6949
								530	0.763	0.7143
								535	0.738	0.7336
								545	0.644	0.7692
								554	0.547	0.7968
								559	0.504	0.8103
								604	0.512	0.8234
								609	0.583	0.8375
								615	0.670	0.8568
								620	0.769	0.8754
								625	0.836	0.8960
								630	0.866	0.9179
								635	0.839	0.9399
								644	0.749	0.9767
								649	0.708	0.9954
								700	0.626	1.0332
								715	0.527	1.0777
								730	0.475	1.1164
								735	0.475	1.1287
								740	0.506	1.1413
								745	0.547	1.1549
								755	0.605	1.1845
								800	0.608	1.2001
								815	0.545	1.2447
								830	0.458	1.2834
								840	0.383	1.3050
								850	0.312	1.3229
								900	0.254	1.3375
								915	0.187	1.3545
								930	0.140	1.3672
								945	0.114	1.3770
								950	0.113	1.3799
								955	0.119	1.3829
								1000	0.128	1.3861
								1004	0.153	1.3890
								1010	0.202	1.3944
								1014	0.257	1.3992
								1025	0.398	1.4177
								1035	0.510	1.4411
								1045	0.569	1.4689
								1049	0.571	1.4806
								1055	0.540	1.4978
								1100	0.493	1.5111
								1109	0.396	1.5317
								1119	0.317	1.5500
								1129	0.245	1.5645
								1139	0.195	1.5758
								1150	0.149	1.5856
								1159	0.114	1.5917
								1205	0.099	1.5949
								1208	0.097	1.5965
								1209	0.103	1.5970
								1212	0.122	1.5987
								1214	0.165	1.6002
								1220	0.266	1.6068
								1224	0.355	1.6132
								1229	0.413	1.6231
								1235	0.440	1.6363
								1240	0.448	1.6477
								1245	0.448	1.6593
								1249	0.403	1.6680
								1254	0.392	1.6783
								1259	0.348	1.6878
								1310	0.278	1.7055
								1320	0.216	1.7182
								1330	0.163	1.7280
								1339	0.126	1.7347
								1349	0.106	1.7407
								1359	0.088	1.7457
								1430	0.062	1.7576

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

1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-20								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976 (CONTINUED)											
							4-18	1459	0.037	1.7650	
								1600	0.016	1.7733	

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



RIESEL (WACO), TEXAS WATERSHED Y-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 39 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-13
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.12	0.87	2.50	8.77	7.30	2.11	5.70	0.06	5.31	5.14	1.42	3.05	42.35	
	Q 0.0	0.0	0.0	3.204	1.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.240	
STA AV	P 1.62	2.09	2.59	4.12	3.75	2.42	3.14	2.33	4.16	5.23	2.31	2.68	36.41	
	Q 0.107	0.320	0.674	0.815	0.613	0.539	0.071	0.015	0.316	0.486	0.164	0.075	4.195	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	5- 5	1.434	5- 5	0.501	5- 5	0.702	5- 5	0.864	4-18	1.036	4-18	1.716	4-18	1.901	4-12	2.146		

MAXIMUMS FOR PERIOD OF RECORD																
1973	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6- 3	3.936	6- 3	2.319	6- 3	2.558	6- 3	2.597	6- 3	2.599	6- 3	2.599	6- 1	3.212	5-29	3.974

NOTES: Watershed conditions: 96% sorghum; 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. 42.037-5. 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.

1976	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-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	0.23	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.93	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.30	0.0	0.0	0.0	
4	0.0	0.0	0.16	0.66	0.0	0.07	1.55	0.0	0.0	1.87	0.0	0.0	
5	0.0	0.32	0.0	0.55	1.96	0.0	0.0	0.0	0.0	0.76	0.0	0.60	
6	0.0	0.0	0.24	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.18	
7	0.0	0.0	0.41	0.52	0.40	0.0	0.03	0.0	0.0	0.12	0.0	0.0	
8	0.0	0.0	0.46	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	0.16	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	0.0	0.16	0.0	0.0	0.0	0.0	1.57	
11	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.63	
12	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.15	0.0	
13	0.0	0.0	0.12	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.17	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.51	0.0	0.16	0.07	
15	0.0	0.0	0.0	0.77	0.0	0.39	1.22	0.0	0.0	0.05	0.0	0.0	
16	0.0	0.0	0.0	0.36	0.0	0.0	1.81	0.04	0.0	0.09	0.0	0.0	
17	0.0	0.62	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	3.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.03	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.28	0.21	0.42	0.0	
20	0.0	0.23	0.0	0.47	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.41	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.07	0.0	0.52	0.06	0.0	0.02	0.0	0.0	0.0	0.08	0.0	0.0	
25	0.0	0.0	0.0	0.0	1.73	1.35	0.0	0.0	0.0	0.0	0.52	0.0	
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.39	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	1.56	0.0	0.0	0.0	0.0	2.58	0.09	0.0	0.0	
29	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.02	0.0	1.87	0.0	0.0	
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.02	0.0	0.0	0.0	2.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.12	0.87	2.50	8.77	7.30	2.11	5.70	0.06	5.31	5.14	1.42	3.05	
STA AV	1.62	2.09	2.59	4.12	3.75	2.42	3.14	2.33	4.16	5.23	2.31	2.68	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70-A. Records began January 1, 1969. STA AV based on 8 yr (1969-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-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	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.403	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.027	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	0.033	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	0.804	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.158	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	0.134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.318	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	0.0507	0.0159	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	3.204	1.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.137	0.320	0.074	0.815	0.613	0.539	0.071	0.015	0.316	0.486	0.154	0.075

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began January 1, 1969. STA AV based on 8 yr (1969-76) record period.

1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-13											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 18, 1976											
4-18	RG 00070A 0.0	0.0	4-18	RG 00070A 42	0.0	0.0	4-18	224	0.0	0.0	
				45	0.6000	0.03		226	0.126	0.0002	
				59	0.2143	0.08		228	0.286	0.0008	
				129	0.1003	0.13		230	0.293	0.0016	
				159	0.1200	0.19		233	0.280	0.0029	
WATERSHED CONDITIONS: 96% sorghum; 4% Bermuda- grass waterway, good cover.											
				214	0.4000	0.29		236	0.352	0.0043	
				230	0.1125	0.32		239	0.484	0.0061	
				245	0.2800	0.39		243	0.540	0.0091	
				300	0.1200	0.42		246	0.554	0.0115	
				314	0.5143	0.54		253	0.569	0.0173	
				329	0.2800	0.61		300	0.535	0.0229	
				344	0.8000	0.81		304	0.604	0.0262	
				400	0.1500	0.85		307	1.045	0.0299	
				414	0.3000	0.92		308	1.686	0.0319	
				429	0.2000	0.97		309	1.873	0.0345	
				444	0.2000	1.02		312	1.873	0.0427	
				459	0.2800	1.09		315	2.040	0.0513	
				514	0.2800	1.16		317	2.126	0.0574	
				529	0.2400	1.22		320	1.924	0.0662	
				544	0.2800	1.29		325	1.574	0.0790	
				600	0.3000	1.37		328	1.364	0.0855	
				614	0.3000	1.44		331	1.241	0.0912	
				629	0.2400	1.50		335	1.249	0.0985	
				659	0.1600	1.58		338	1.620	0.1048	
				730	0.0968	1.63		340	2.318	0.1105	
				759	0.4966	1.87		342	3.184	0.1186	
				829	0.1600	1.95		344	3.968	0.1290	
				939	0.0467	2.02		346	4.714	0.1417	
				1030	0.2129	2.13		349	4.695	0.1624	
				1058	0.1500	2.20		351	3.901	0.1750	

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



1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-13							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
4-18			1215		0.0390	2.25	4-18	355	2.807	0.1946
			1224		0.4000	2.31		359	2.029	0.2087
			1245		0.0857	2.34		403	1.458	0.2189
								409	1.194	0.2306
								415	1.038	0.2404
								420	1.081	0.2481
								426	0.982	0.2572
								436	0.695	0.2694
								445	0.549	0.2776
								450	0.589	0.2818
								455	0.813	0.2869
								501	1.218	0.2958
								505	1.793	0.3046
								508	2.040	0.3130
								513	1.803	0.3271
								520	1.347	0.3432
								526	1.074	0.3538
								533	1.024	0.3646
								542	0.982	0.3778
								547	1.096	0.3854
								555	1.179	0.3987
								605	1.602	0.4190
								615	1.520	0.4419
								621	1.629	0.4557
								630	1.475	0.4761
								636	1.364	0.4886
								645	1.380	0.5066
								655	1.141	0.5251
								701	0.982	0.5344
								710	0.857	0.5465
								720	0.955	0.5597
								726	1.017	0.5684
								730	1.187	0.5748
								735	1.696	0.5854
								738	2.061	0.5936
								740	2.182	0.5998
								746	2.295	0.6195
								752	2.215	0.6393
								758	1.945	0.6575
								805	1.639	0.6759
								815	1.330	0.6976
								823	1.060	0.7116
								836	0.765	0.7289
								647	0.554	0.7395
								855	0.407	0.7451
								910	0.254	0.7524
								930	0.166	0.7585
								950	0.159	0.7633
								1000	0.169	0.7657
								1006	0.331	0.7679
								1009	0.679	0.7701
								1014	1.010	0.7763
								1022	1.565	0.7913
								1032	1.639	0.8148
								1045	1.475	0.8444
								1055	1.202	0.8640
								1104	0.948	0.8781
								1109	0.765	0.8844
								1118	0.549	0.8930
								1139	0.257	0.9054
								1149	0.199	0.9087
								1157	0.150	0.9108
								1204	0.130	0.9122
								1214	0.122	0.9140
								1217	0.174	0.9147
								1219	0.679	0.9159
								1220	1.629	0.9176
								1221	2.272	0.9205
								1223	2.568	0.9276
								1227	2.447	0.9422
								1231	2.260	0.9560
								1235	1.935	0.9683
								1238	1.592	0.9760
								1241	1.423	0.9826
								1245	1.265	0.9905

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

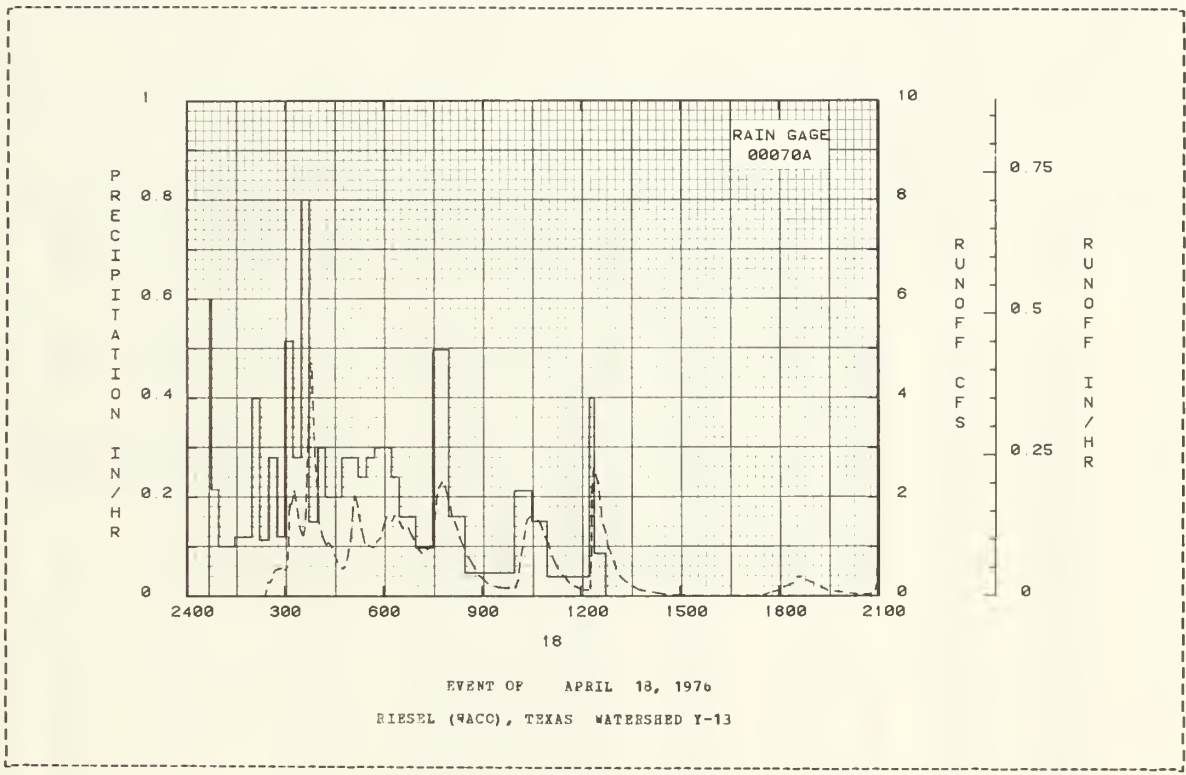
1976

SELECTED FLOOD EVENT

RIESEL (WACO), TEXAS WATERSHED Y-13

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Fainfall	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 APRIL 18, 1976 (CONTINUED)										
							4-18	1249	0.989	0.9971
								1255	0.850	1.0052
								1304	0.544	1.0143
								1314	0.364	1.0210
								1324	0.267	1.0256
								1344	0.130	1.0314
								1434	0.031	1.0373
								1509	0.020	1.0386
								1529	0.014	1.0391

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



RIESEL (WACO), TEXAS WATERSHED W-12

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 56 sec. N.; 96 deg. 53 min. 07 sec. W.

AREA: 9.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						RIESEL (WACO), TEXAS WATERSHED W-12							
	Jan	Feb	Mar	Apr	May	Jan	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P 0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73	43.52
	Q 0.0	0.0	0.001	3.786	1.685	0.005	0.955	0.0	0.603	1.194	0.010	0.651	8.890
STA AV	P 1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57	38.21
	Q 0.087	0.173	0.349	0.825	0.530	0.533	0.403	0.190	0.690	1.135	0.589	0.537	6.042

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.					
1976	5- 5 1.646	5- 5 0.682	5- 5 0.791	4-18 1.156	4-18 1.602	4-18 2.383	4-18 2.664	4-12 2.833					
MAXIMUMS FOR PERIOD OF RECORD													
	6- 3 2.862	6- 3 1.675	11-17 2.018	10-31 2.576	10-31 2.977	10-30 3.226	10-30 3.234	5-28 3.437					
	1973	1973	1971	1974	1974	1974	1974	1973					

NOTES: Watershed conditions: 97% sorghum; 3% 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. 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 W1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	DAILY PRECIPITATION (inches)					RIESEL (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	0.31	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.00	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.32	0.0	0.0	0.0	
4	0.0	0.0	0.08	0.68	0.0	0.0	1.55	0.0	0.0	1.74	0.0	0.0	
5	0.0	0.02	0.0	0.44	2.09	0.0	0.0	0.0	0.0	0.90	0.0	0.56	
6	0.0	0.0	0.26	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.20	
7	0.0	0.0	0.38	0.59	0.33	0.0	0.05	0.0	0.0	0.13	0.0	0.0	
8	0.0	0.0	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	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	1.33	
11	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.56	
12	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.12	0.0	
13	0.0	0.0	0.09	0.0	0.10	0.0	0.03	0.0	0.0	0.0	0.12	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.46	0.0	0.21	0.08	
15	0.0	0.0	0.0	0.63	0.0	0.44	1.26	0.0	0.0	0.10	0.12	0.0	
16	0.0	0.0	0.0	0.60	0.0	0.0	1.82	0.09	0.0	0.13	0.0	0.0	
17	0.0	0.70	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	3.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.03	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.30	0.22	0.42	0.0	
20	0.0	0.24	0.0	0.48	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.50	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.06	0.0	0.63	0.04	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	
25	0.07	0.0	0.0	0.0	1.61	1.14	0.0	0.0	0.0	0.0	0.54	0.0	
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.46	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	1.47	0.0	0.0	0.0	0.0	3.47	0.05	0.0	0.0	
29	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.02	0.0	1.73	0.0	0.0	
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.02	0.0	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73	
STA AV	1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W13. Records began October 1, 1969. STA AV based on 8 yr (1969-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976 MEAN DAILY DISCHARGE (cfs) RIESEL (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	0.002	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
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	0.087	0.0	0.0
5	0.0	0.0	0.0	0.0	0.354	0.0	0.0	0.0	0.0	0.308	0.0	0.0 T
6	0.0	0.0	0.0	0.0	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.008
7	0.0	0.0	0.0	0.002	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	0.024
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.232
12	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.006
13	0.0	0.0	0.0	0.0	0.012	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	0.009	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.019	0.0	0.0	0.385	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.982	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.165	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	0.002	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 T	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	0.036	0.0	0.0	0.0	0.0	0.0	0.003	0.0
26	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001	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	0.139	0.0	0.0	0.0	0.0	0.251	0.0	0.0	0.0
29	0.0	0.0	0.0	0.255	0.0	0.0	0.0	0.0	0.0	0.096	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0
31	0.0	0.0	0.0	0.0	0.295	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
MEAN	0.0	0.0	0.0	0.0525	0.0226	0.0001	0.0128	0.0	0.0084	0.0160	0.0001	0.0087
INCHES	0.0	0.0	0.001	3.786	1.685	0.005	0.355	0.0	0.603	1.194	0.010	0.651
STA AV	0.087	0.173	0.349	0.825	0.530	0.533	0.403	0.190	0.690	1.135	0.589	0.537

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 2.404207. STA AV based on 8 yr (1969-76) record period.

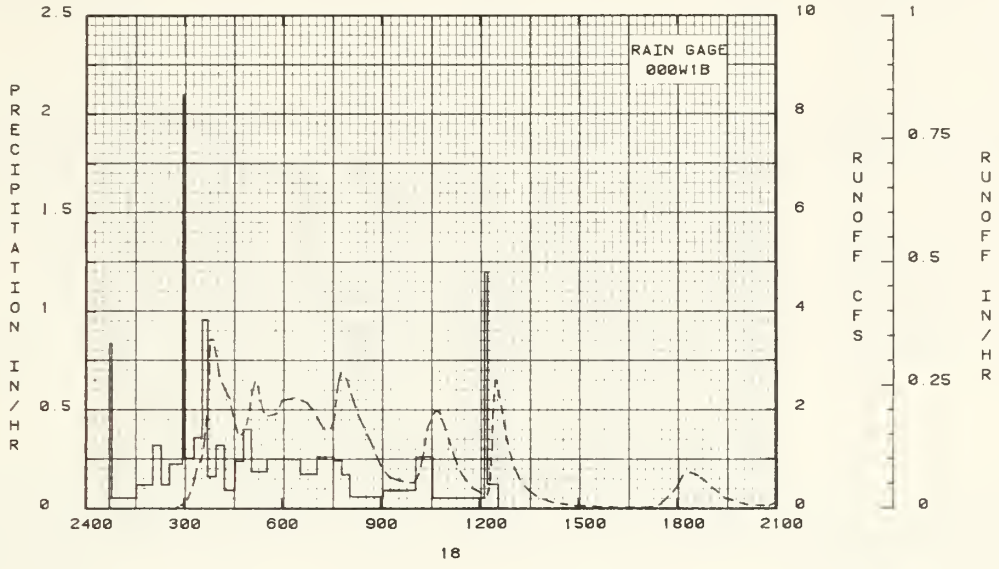
1976 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-12												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 18, 1976												
RG 000#18			RG 000#18									
4-18	0.0	0.0	4-18	44	0.0	0.0	4-18	235	0.0	0.0		
				49	0.8400	0.07		240	0.002	0.0000		
				134	0.0533	0.11		245	0.012	0.0001		
				204	0.1200	0.17		250	0.031	0.0002		
				219	0.3200	0.25		255	0.071	0.0007		
WATERSHED CONDITIONS:												
97% sorghum; 3% Bermuda grass												
waterway, good cover.												
				234	0.1200	0.28		300	0.097	0.0014		
				258	0.2250	0.37		307	0.181	0.0030		
				300	2.1000	0.44		312	0.326	0.0051		
				319	0.2526	0.52		318	0.521	0.0094		
				334	0.3600	0.61		324	0.809	0.0160		
				344	0.9600	0.77		330	0.963	0.0249		
				359	0.1600	0.81		335	1.089	0.0335		
				414	0.3200	0.89		338	1.377	0.0396		
				434	0.0900	0.92		341	1.727	0.0474		
				449	0.2400	0.98		344	2.288	0.0575		
				504	0.4000	1.08		346	2.935	0.0662		
				533	0.1862	1.17		348	3.313	0.0766		
				604	0.2516	1.30		350	3.435	0.0879		
				633	0.2483	1.42		354	3.419	0.1108		
				704	0.1742	1.51		400	3.077	0.1433		
				734	0.2600	1.64		405	2.678	0.1673		
				749	0.2400	1.70		415	2.409	0.2098		
				803	0.1714	1.74		424	2.229	0.2447		
				904	0.0590	1.80		430	1.864	0.2652		
				1004	0.0900	1.89		439	1.524	0.2906		
				1034	0.2600	2.02		445	1.488	0.3057		
				1209	0.0505	2.10		450	1.550	0.3184		
				1214	1.2000	2.20		455	1.698	0.3319		
				1234	0.1200	2.24		500	1.997	0.3474		
								505	2.336	0.3654		

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



1976			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-12				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 18, 1976 (CONTINUED)										
							4-18	510	2.573	0.3859
								515	2.484	0.4070
								526	1.945	0.4477
								535	1.884	0.4765
								550	1.925	0.5242
								600	2.193	0.5586
								623	2.252	0.6439
								645	2.136	0.7245
								656	1.987	0.7624
								715	1.614	0.8195
								730	1.642	0.8603
								736	1.915	0.8781
								741	2.484	0.8964
								747	2.757	0.9227
								758	2.612	0.9720
								809	2.182	1.0160
								823	1.765	1.0621
								840	1.369	1.1066
								900	0.846	1.1436
								915	0.629	1.1621
								940	0.540	1.1865
								1000	0.512	1.2040
								1010	0.710	1.2142
								1018	1.125	1.2265
								1025	1.642	1.2426
								1040	1.987	1.2881
								1049	1.915	1.3174
								1051	1.814	1.3236
								1059	1.568	1.3462
								1114	1.032	1.3788
								1129	0.656	1.3999
								1149	0.393	1.4174
								1204	0.299	1.4261
								1214	0.273	1.4309
								1220	0.574	1.4351
								1223	1.232	1.4396
								1225	2.018	1.4451
								1229	2.599	1.4605
								1232	2.535	1.4733
								1240	2.061	1.5040
								1249	1.436	1.5303
								1259	0.956	1.5503
								1314	0.569	1.5694
								1329	0.359	1.5810
								1344	0.240	1.5885
								1414	0.113	1.5973
								1459	0.045	1.6033
								1529	0.028	1.6051
								1559	0.018	1.6063
								1629	0.013	1.6070

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



EVENT OF APRIL 18, 1976  
 BIESEL (WACO), TEXAS WATERSHED W-12

RIESEL (WACO), TEXAS WATERSHED W-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 57 sec. N.; Long. 96 deg. 53 min. 08 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED W-13	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73	43.52	
	Q 0.0	0.0	0.003	5.102	1.619	0.001	0.785	0.0	0.344	1.218	0.032	0.850	9.955	
STA AV	P 1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57	38.21	
	Q 0.087	0.208	0.329	1.049	0.680	0.529	0.309	0.058	0.562	0.979	0.454	0.544	5.788	

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.				
1976	5-31 1.515	5-31 0.625	5-5 0.739	4-28 1.380	4-28 2.089	4-18 2.490	4-18 2.729	4-28 3.089				

MAXIMOMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	7-6 1973	3.317	6-3 1973	1.659	9-17 1974	2.021	10-31 1974	3.004	10-31 1974	3.652	10-30 1974	3.942	10-30 1974	3.951	10-30 1974	3.985

NOTES: Watershed conditions: 97% sorghum; 3% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, OSDA Misc. Pub. 1370, p. 42.040-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV values. Precipitation data obtained from rain gage W1R. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1976	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS 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	0.31	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	1.00	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.32	0.0	0.0		
4	0.0	0.0	0.08	0.68	0.0	0.0	0.0	1.55	0.0	0.0	1.74	0.0		
5	0.0	0.02	0.0	0.44	2.09	0.0	0.0	0.0	0.0	0.0	0.90	0.0		0.56
6	0.0	0.0	0.26	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0		0.20
7	0.0	0.0	0.38	0.59	0.33	0.0	0.05	0.0	0.0	0.13	0.0	0.0		0.0
8	0.0	0.0	0.47	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	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0		1.33
11	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.56
12	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.12	0.0		0.0
13	0.0	0.0	0.09	0.0	0.10	0.0	0.03	0.0	0.0	0.0	0.12	0.0		0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.46	0.0	0.21	0.08		0.0
15	0.0	0.0	0.0	0.63	0.0	0.44	1.26	0.0	0.0	0.10	0.12	0.0		0.0
16	0.0	0.0	0.0	0.60	0.0	0.0	1.82	0.09	0.0	0.13	0.0	0.0		0.0
17	0.0	0.70	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0		0.0
18	0.0	0.0	0.0	3.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
19	0.03	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.30	0.22	0.42	0.0		0.0
20	0.0	0.24	0.0	0.48	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0		0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0		0.0
22	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
23	0.0	0.0	0.50	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
24	0.05	0.0	0.63	0.04	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0		0.0
25	0.07	0.0	0.0	0.0	1.61	1.14	0.0	0.0	0.0	0.0	0.54	0.0		0.0
26	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.46	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	1.47	0.0	0.0	0.0	0.0	3.47	0.05	0.0	0.0		0.0
29	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.02	0.0	1.73	0.0	0.0		0.0
30	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
31	0.02	0.0	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.18	0.96	2.48	8.63	7.29	1.80	6.19	0.11	6.52	5.10	1.53	2.73		
STA AV	1.70	1.97	2.39	4.00	4.20	2.80	3.63	2.67	4.73	5.28	2.28	2.57		

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W1R. Records began October 1, 1969. STA AV values are based on 8 yr (1969-76) record period. Estimate codes may indicate that non-significant event totals are included.

1976		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS 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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.098	0.002	0.0	
5	0.0	0.0	0.0	0.0	0.377	0.0	0.0	0.0	0.0	0.378	0.0	0.0 T	
6	0.0	0.0	0.0	0.0	0.002	0.0	0.0	T	0.0	0.001	0.0	0.010	
7	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
8	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.043	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.351	
12	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.001	0.0	0.0 T	
13	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.001	0.0	0.0	
16	0.0	0.0	0.0	0.009	0.0	0.0	0.343	0.0	0.0	0.001	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	
18	0.0	0.0	0.0	1.171	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
19	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	
20	0.0	0.0	0.0	0.137	0.0	0.0	0.0	0.0	0.0	0.001	0.004	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.001	0.0	T	
22	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	0.001	0.0	0.0	
24	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.001	0.005	0.0	
26	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.001	0.002	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	
28	0.0	0.0	0.0	0.224	0.0	0.0	0.0	0.0	0.163	0.001	0.0	0.0	
29	0.0	0.0	0.0	0.865	0.0	0.0	0.0	0.0	0.0	0.068	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.338	0.0	0.0	0.0	0.0	0.001	0.005	0.0	
MEAN	0.0	0.0	0.0	0.0807	0.0248	0.0	0.0120	0.0	0.0054	0.0186	0.0005	0.0130	
INCHES	0.0	0.0	0.003	5.102	1.619	0.001	0.785	0.0	0.344	1.218	0.032	0.850	
STA AV	0.087	0.208	0.329	1.049	0.680	0.529	0.309	0.058	0.562	0.979	0.454	0.544	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began October 1, 1969. STA AV values are based on 8 yr (1969-76) record period.

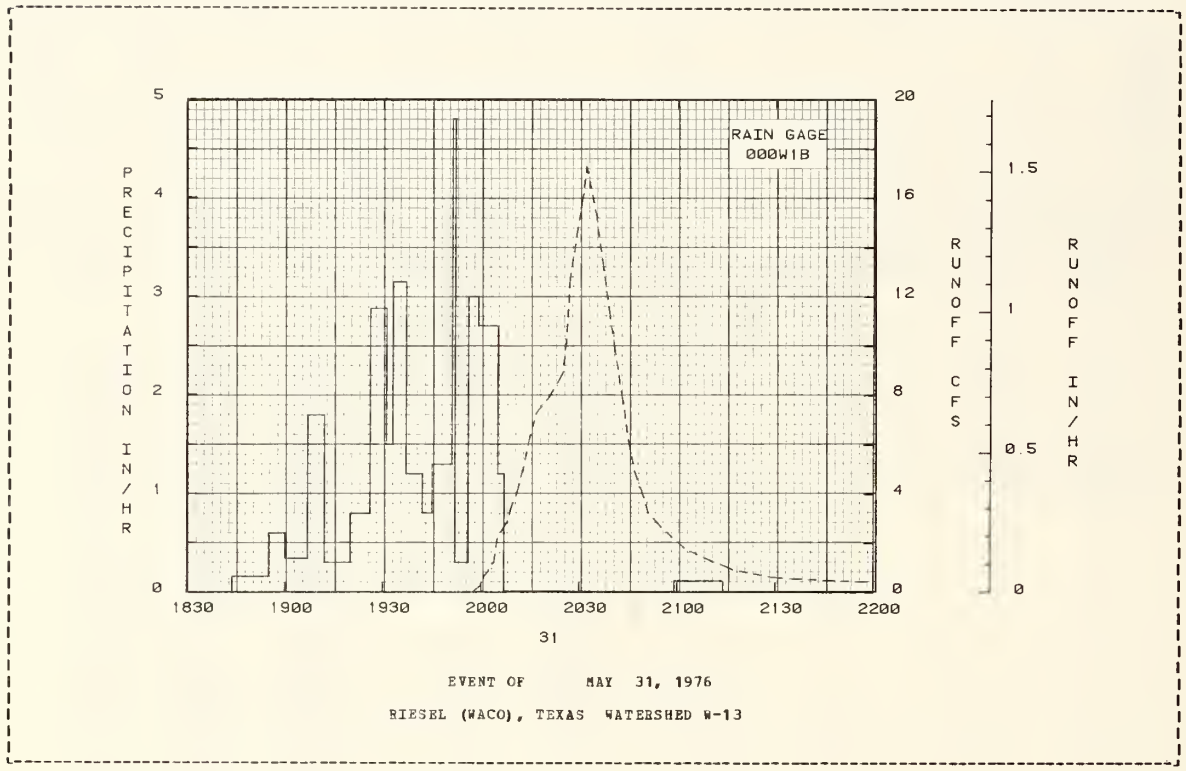
1976		SELECTED RUNOFF EVENT		RIESEL (WACO), TEXAS WATERSHED W-13						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31, 1976										
RG 000418			RG 000418							
5-31	0.33	0.0	5-31	1844	0.0	0.0	5-31	1955	0.0	0.0
				1855	0.1636	0.03		1956	0.012	0.0000
				1900	0.6000	0.08		1958	0.091	0.0002
				1907	0.3426	0.12		2000	0.281	0.0007
				1912	1.8001	0.27		2001	0.667	0.0014
WATERSHED CONDITIONS:				1920	0.2999	0.31		2004	1.250	0.0056
97% sorghum; 3% Bermudagrass				1926	0.8000	0.39		2005	2.210	0.0081
waterway, good cover.				1931	2.8801	0.63		2008	2.882	0.0193
				1933	1.5001	0.68		2009	3.364	0.0239
				1937	3.1499	0.89		2011	4.097	0.0348
				1942	1.2001	0.99		2013	5.099	0.0482
				1945	0.7999	1.03		2015	6.377	0.0650
				1951	1.3000	1.16		2017	7.329	0.0851
				1952	4.8012	1.24		2021	7.966	0.1298
				1956	0.2598	1.26		2025	8.943	0.1793
				1959	3.0002	1.41		2026	10.294	0.1934
				2005	2.7000	1.68		2027	12.652	0.2101
				2007	1.1998	1.72		2029	14.509	0.2499
				2059	0.0115	1.73		2031	16.158	0.2947
				2114	0.1200	1.76		2032	17.278	0.3192
								2035	15.320	0.3907
								2037	13.362	0.4326
								2039	11.403	0.4689
								2041	9.663	0.4997
								2043	7.966	0.5255
								2045	6.085	0.5460
								2047	4.846	0.5620
								2049	4.132	0.5751
								2051	3.228	0.5859
								2055	2.638	0.6031

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



1976 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-13							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31, 1976 (CONTINUED)										
							5-31	2102	1.757	0.6258
								2109	1.373	0.6420
								2117	0.928	0.6555
								2130	0.603	0.6700
								2138	0.548	0.6768
								2148	0.487	0.6843
								2158	0.439	0.6911

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



MONTICELLO, ILLINOIS (ALLELTON) WATERSHED IA

LOCATION: Piatt Co., Il; 5 mi. SW of Monticello, Sangamon River, Illinois River, Mississippi River basin. Lat. 39 deg. 59 min. 42 sec. N.; Long. 98 deg. 38 min. 45 sec. W.

AREA: 82.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						MONTICELLO, ILLINOIS (ALLELTON)						WATERSHED IA	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976 P	0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.81	0.23	32.20
Q	0.0	0.905	0.432	0.0	0.0	0.0	0.017	0.000	0.001	0.0	0.0	0.0	1.255
STA AV P	1.76	2.02	2.72	3.62	3.58	4.51	4.05	3.03	3.05	2.89	2.11	2.34	35.70
Q	0.178	0.272	0.085	0.164	0.082	0.479	0.177	0.030	0.002	0.093	0.004	0.209	1.775

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976	2-16	0.267	2-16	0.222	2-16	0.370	2-16	0.638	2-16	0.798	2-17	0.803	2-17	0.803	2-13	0.805
MAXIMUMS FOR PERIOD OF RECORD																
	6-6	1.413	6-6	0.568	6-22	0.779	6-22	1.225	6-22	2.298	6-22	2.511	6-21	3.578	6-15	3.593
	1973		1973		1974		1974		1974		1974		1974		1974	

NOTES: Watershed conditions: With the exceptions of a small portion (3.8%) devoted to roads and 14.7% in permanent pasture, the entire area is used in cropping activities. For contour drainage map, see page 61.001-23 in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974, DSDA Misc. Pub. 1437. Precipitation values are from R-1 gage, located about 400 ft. east of streamgaging station. Precipitation and runoff records began August 1949. STA AV precipitation and runoff values are for 28 yr (1949-76) period of record. For long-time precipitation records, see National Weather Service records at Decatur, Illinois.

1976	DAILY PRECIPITATION (inches)					MONTICELLO, ILLINOIS (ALLELTON)						WATERSHED IA	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.13	0.10	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	0.89	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.44	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	1.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.79	0.0	1.63	0.0	0.0	
6	0.0	0.07	0.0	0.0	0.77	0.0	0.0	1.81	0.0	0.13	0.0	0.17	
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	0.03	0.0	0.05	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.65	0.0	0.0	0.0	
10	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.30	0.0	0.0	0.07	0.0	0.21	0.0	0.0	0.0	0.0	
13	0.39	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.42	0.0	0.20	0.0	0.0	0.0	0.0	0.0	
16	0.0	1.85	0.03	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.20	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	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.63	0.34	0.0	0.0	
20	0.0	0.02	0.15	0.21	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.53	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.33	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.53	0.0	0.03	0.0	0.0	0.0	0.47	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.33	0.07	0.0	0.0	0.0	0.0	0.0	0.07	1.21	0.0	0.12	0.0	
26	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.69	0.0	
27	0.0	0.0	1.65	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.58	0.96	0.52	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.15	0.0	0.07	0.44	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.10	0.0	0.07	0.0	0.0	0.72	0.0	0.06	
31	0.0	0.0	0.0	0.0	1.20	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.61	0.23	
STA AV	1.76	2.02	2.72	3.62	3.58	4.51	4.05	3.03	3.05	2.89	2.11	2.34	

NOTES: Precipitation data are from the R-1 gage. STA AV values are based on 28 yr period (1949-76), part year records included.

1976 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA												
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	0.058	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	0.219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.174	0.0	0.0	0.0	0.0	0.0	T	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	0.0	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	0.002	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	1.640	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	1.126	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	0.006	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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	1.096	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	0.0956	0.0480	0.0	0.0	0.0	0.0019	0.0	0.0001	0.0	0.0	0.0
INCHES	0.0	0.805	0.432	0.0	0.0	0.0	0.017	0.000	0.001	0.0	0.0	0.0
STA AV	0.176	0.272	0.085	0.164	0.082	0.479	0.177	0.030	0.002	0.093	0.004	0.209

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV values are based on 28 yr period (1949-76), part year records included.

1976 SELECTED RUNOFF EVENT MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA												
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 16 - 17, 1976												
2-16	RG 000001 0.0	0.0	2-16	FG 000001 1554	0.0	0.0	2-16	1823	0.005	0.0		
				1634	0.0750	0.05		1834	0.010	0.0000		
				1724	0.1800	0.20		1843	0.014	0.0090		
				1812	0.0500	0.24		1856	0.017	0.0001		
				1884	0.4125	0.46		1917	0.026	0.0002		
				1934	0.2680	0.70		1953	0.060	0.0005		
				1949	0.0	0.70		2005	0.187	0.0009		
				2006	0.7059	0.90		2008	0.378	0.0010		
				2129	0.2530	1.25		2012	1.086	0.0016		
				2134	1.2000	1.35		2014	1.875	0.0022		
				2144	0.0	1.35		2015	1.745	0.0026		
				2219	0.6000	1.70		2017	1.658	0.0033		
				2241	0.2727	1.80		2023	2.394	0.0056		
				2304	0.0	1.80		2027	2.223	0.0073		
				2319	0.2000	1.85		2035	2.289	0.0109		
				2353	0.0	1.85		2040	2.420	0.0133		
				2400	0.0	1.85		2050	2.774	0.0185		
			2-17	322	0.0149	1.90		2058	2.867	0.0231		
				325	1.0000	1.95		2101	2.877	0.0248		
				343	0.3333	2.05		2106	3.092	0.0278		
								2110	3.640	0.0306		
								2113	4.702	0.0331		
								2116	5.039	0.0360		
								2123	5.735	0.0436		
								2130	6.176	0.0520		
								2133	6.759	0.0559		
								2134	7.198	0.0573		
								2139	9.400	0.0657		
								2151	5.373	0.0884		
								2155	9.753	0.0961		

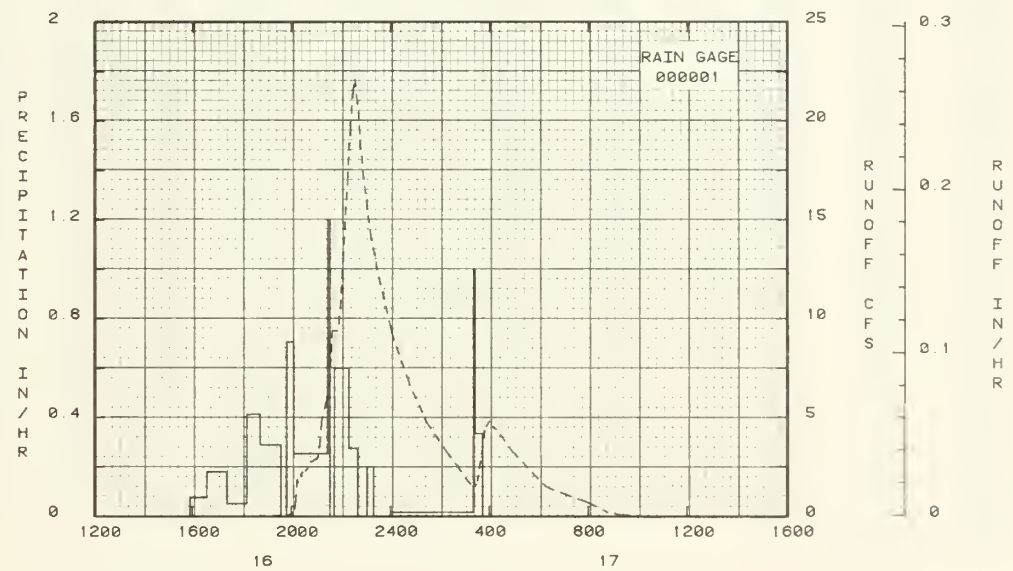
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012054.

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 16 - 17, 1976 (CONTINUED)

2-16	2159	10.559	0.1043
	2206	13.396	0.1212
	2217	17.417	0.1554
	2223	20.033	0.1780
	2231	21.856	0.2118
	2234	22.108	0.2251
	2240	20.851	0.2511
	2253	17.441	0.3012
	2314	13.930	0.3676
	2332	12.074	0.4148
2-17	2400	9.612	0.4760
	8	8.908	0.4909
	47	6.611	0.5519
	126	4.728	0.5988
	216	3.249	0.6374
	242	2.532	0.6525
	303	1.892	0.6619
	315	1.613	0.6661
	324	1.540	0.6690
	329	1.601	0.6706
	331	1.771	0.6713
	334	2.041	0.6724
	345	3.583	0.6786
	350	4.327	0.6826
	353	4.566	0.6853
	400	4.812	0.6919
	413	4.398	0.7040
	417	4.394	0.7076
	456	3.250	0.7376
	618	1.441	0.7764
	717	0.981	0.7908
	749	0.737	0.7963
	819	0.472	0.8000
	835	0.300	0.8012
	846	0.180	0.8017
	913	0.069	0.8024
	940	0.026	0.8027
	1011	0.002	0.8028
	1053	0.0	0.6028

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



EVENT OF FEBRUARY 16 - 17, 1976  
MONTICELLO, ILLINOIS (ALLEERTON) WATERSHED IA



MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB

LOCATION: Piatt Co., Il; 5 mi. SW of Monticello, Sangamon River, Illinois River, Mississippi River basin. Lat. 39 deg. 59 min. 42 sec. N.; Long. 88 deg. 38 min. 45 sec. W.

AREA: 45.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1976	P	0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.81	0.23	32.20														
	Q	0.001	0.897	0.042	0.0	0.003	0.000	0.080	0.004	0.0	0.0	0.0	0.0	1.027														
STA AV	P	1.24	1.48	1.65	2.30	2.36	2.67	2.45	1.75	1.59	2.23	1.25	1.14	22.10														
	Q	0.139	0.294	0.178	0.324	0.176	0.406	0.165	0.007	0.002	0.143	0.012	0.082	1.928														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																												
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days										
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.									
1976		2-16	0.198	2-16	0.176	2-16	0.286	2-16	0.506	2-16	0.716	2-16	0.783	2-15	0.784	2-10	0.893											
MAXIMUMS FOR PERIOD OF RECORD																												
		6-6	1.212	6-6	0.673	6-6	1.233	6-6	1.799	6-6	2.029	6-6	2.039	6-5	2.040	5-14	2.381											
		1973		1973		1973		1973		1973		1973		1973		1974												

NOTES: Watershed conditions: The entire area is used for cropping activities except for 1% which is in grass. For contour drainage map, see page 61.001-23 in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974, USDA Misc. Pub. 1437. Precipitation and runoff records began August 1949. STA AV precipitation and runoff values are for 28 yr (1949-76) record period, part-year records included. Precipitation values are from the R-1 gage, located about 300 ft. west of streamgaging station IB. For long-time precipitation records, see National Weather Service records at Decatur, Illinois.

1976 DAILY PRECIPITATION (inches)														MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.13	0.10	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	0.3	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0														
3	0.0	0.3	0.44	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0														
4	0.0	0.0	1.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
5	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.79	0.0	1.63	0.0	0.0	0.0														
6	0.0	0.07	0.0	0.0	0.77	0.0	0.0	1.81	0.0	0.13	0.0	0.17	0.0														
7	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														
8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.05	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	2.65	0.0	0.0	0.0														
10	0.0	0.3	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
11	0.0	0.3	0.07	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0														
12	0.0	0.0	0.30	0.0	0.0	0.07	0.0	0.21	0.0	0.0	0.0	0.0	0.0														
13	0.39	0.3	0.0	0.0	0.34	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	0.08	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0														
15	0.0	0.3	0.0	0.0	0.42	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0														
16	0.0	1.65	0.08	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
17	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														
18	0.0	0.3	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
19	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.63	0.34	0.0	0.0	0.0														
20	0.0	0.32	0.15	0.21	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
21	0.0	0.53	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0														
22	0.0	0.03	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0														
23	0.0	0.0	0.0	0.53	0.0	0.03	0.0	0.0	0.0	0.47	0.0	0.0	0.0														
24	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														
25	0.33	0.07	0.0	0.0	0.0	0.0	0.0	0.07	1.21	0.0	0.12	0.0	0.0														
26	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.69	0.0	0.0														
27	0.0	0.0	1.65	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.0	0.0														
28	0.0	0.0	0.0	0.0	0.58	0.96	0.52	0.0	0.0	0.0	0.0	0.0	0.0														
29	0.0	0.0	0.15	0.0	0.07	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
30	0.0	0.0	0.0	0.0	0.10	0.0	0.07	0.0	0.0	0.72	0.0	0.0	0.0														
31	0.0	0.0	0.0	0.0	1.20	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL	0.85	3.32	5.13	0.94	3.70	2.19	3.91	3.02	4.81	3.29	0.81	0.23	32.20														
STA AV	1.24	1.48	1.65	2.30	2.36	2.67	2.45	1.75	1.59	2.23	1.25	1.14	22.10														

NOTES: Precipitation data are from the R-1 gage. STA AV values are based on 28 yr (1949-76) record period, part year records included.

1976		MEAN DAILY DISCHARGE (cfs)					MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED 1B	
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	0.152	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0 T	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.005	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	0.007	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.202	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.004	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	0.567	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.932	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	0.008	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.065	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	0.001	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	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0591	0.0026	0.0	0.0002	0.0	0.0049	0.0002	0.0	0.0	0.0	0.0
INCHES	0.001	0.997	0.042	0.0	0.003	0.000	0.080	0.004	0.0	0.0	0.0	0.0
STA AV	0.138	0.294	0.178	0.324	0.176	0.406	0.165	0.007	0.002	0.143	0.012	0.082

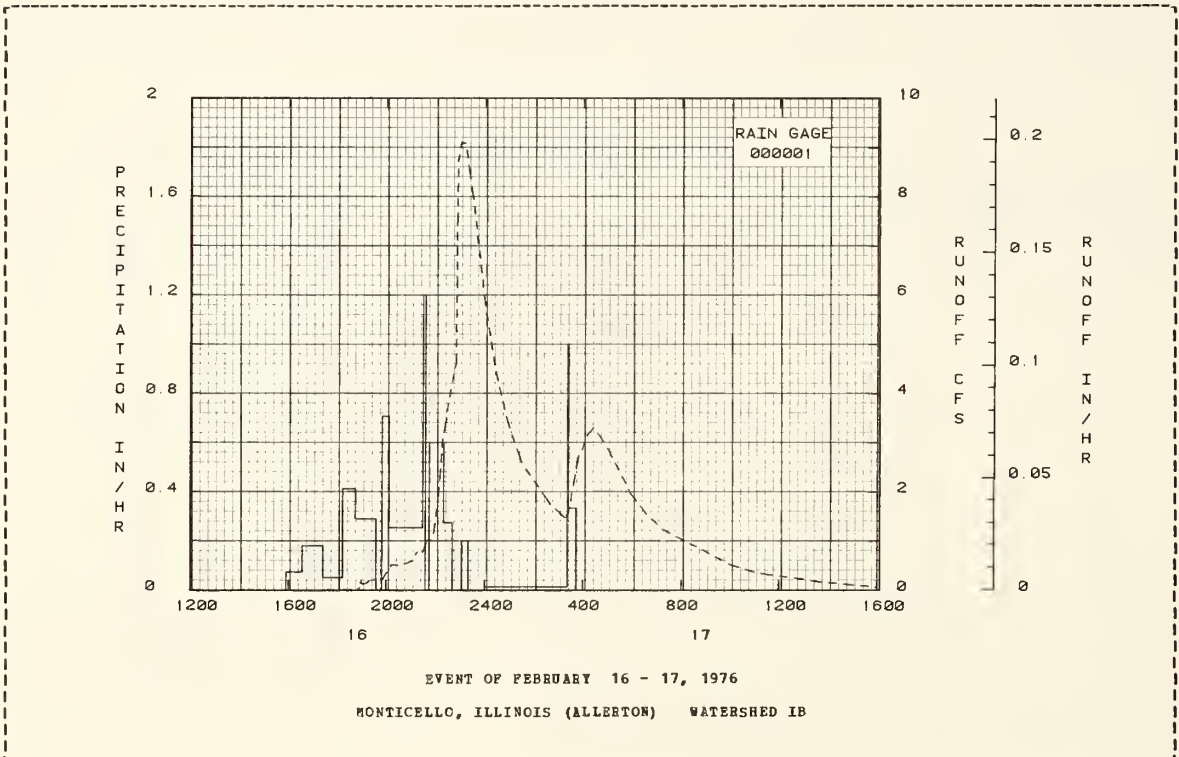
NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV values are based on 28 yr period (1949-76), part year records included.

1976		SELECTED RUNOFF EVENT					MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED 1B	
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 16 - 17, 1976												
2-16	EG 000001	0.0	2-16	RG 000001	1554	0.0	0.0	2-16	1720	0.0	0.0	
					1634	0.0750	0.05		1750	0.001	0.0000	
					1724	0.1800	0.20		1818	0.004	0.0000	
					1812	0.0500	0.24		1834	0.007	0.0001	
					1844	0.4125	0.46		1851	0.020	0.0001	
					1934	0.2880	0.70		1854	0.050	0.0002	
					1949	0.0	0.70		1857	0.147	0.0003	
					2006	0.7059	0.90		1859	0.211	0.0004	
					2129	0.2530	1.25		1901	0.125	0.0005	
					2134	1.2000	1.35		1905	0.117	0.0007	
					2144	0.0	1.35		1910	0.137	0.0010	
					2219	0.6000	1.70		1917	0.179	0.0014	
					2241	0.2727	1.80		1923	0.197	0.0018	
					2304	0.0	1.80		1933	0.218	0.0025	
					2319	0.2000	1.85		1951	0.228	0.0040	
					2353	0.0	1.35		2012	0.514	0.0068	
					2400	0.0	1.85		2027	0.502	0.0096	
			2-17		322	0.0149	1.90		2050	0.550	0.0140	
					325	1.0000	1.95		2103	0.603	0.0167	
					343	0.3333	2.05		2111	0.720	0.0186	
									2115	0.770	0.0197	
									2129	0.775	0.0236	
									2137	0.966	0.0261	
									2141	1.011	0.0276	
									2150	1.014	0.0309	
									2156	1.196	0.0333	
									2207	1.931	0.0396	
									2212	2.459	0.0435	
									2217	3.070	0.0486	
									2223	3.336	0.0555	

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.

1976 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED 18			
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 16 - 17, 1976 (CONTINUED)										
							2-16	2226	3.495	0.0593
								2230	3.787	0.0646
								2249	4.652	0.0937
								2250	6.370	0.0957
								2251	7.520	0.0982
								2253	8.755	0.1041
								2255	8.850	0.1105
								2300	9.107	0.1268
								2310	9.081	0.1599
								2321	8.496	0.1950
								2330	7.938	0.2218
								2400	5.768	0.2965
							2-17	27	4.395	0.3464
								55	3.431	0.3862
								130	2.577	0.4244
								240	1.742	0.4793
								315	1.467	0.4997
								320	1.483	0.5024
								327	1.688	0.5064
								338	2.194	0.5141
								347	2.630	0.5220
								350	2.744	0.5250
								358	2.865	0.5331
								411	3.163	0.5473
								425	3.301	0.5638
								440	3.143	0.5813
								503	2.839	0.6063
								558	1.939	0.6541
								635	1.542	0.6774
								717	1.223	0.6985
								1005	0.495	0.7510
								1059	0.374	0.7595
								1145	0.302	0.7651

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.







1976 DAILY PRECIPITATION (inches) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.05E	0.21E	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	0.18E	0.0	0.01	0.0	0.05E	0.0	0.0	0.0	0.0	0.0
4	0.0	0.32E	0.0 S	0.0	0.02E	0.0	0.0	0.0	0.34E	0.0	0.0	0.0
5	0.0	0.47E	0.0	0.0	0.0	0.0	0.03E	0.0	0.64E	0.0	0.0	0.0
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.59E	0.0	0.0	0.0
7	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
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.05E	0.0	0.0	0.0
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0 T	0.01	0.0	0.0	0.0
10	0.0	0.20E	0.0	0.0	0.0	0.0	0.08E	0.38E	0.32E	0.0	0.0	0.0
11	0.0	0.13E	0.0	0.0	0.0	0.0	0.40E	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.14E	0.0	0.0	0.17E	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.33E	0.20H	0.0
14	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0
15	0.0	0.0	0.0	0.07E	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.35H	0.0	0.0	0.20E	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.03E	0.0	0.02E	0.29E	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.69E	0.0	0.20E	0.01E	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.07E	0.0	0.19E	0.11E	0.0	0.0	0.01E	0.0
20	0.0	0.0	0.0	0.0	0.01E	0.0	0.22E	0.0 T	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0 T	0.0	0.15E	0.0	0.0
22	0.08E	0.0	0.0	0.0	0.0	0.0	0.0 E	0.23E	0.0	0.03E	0.0	0.0
23	0.13E	0.0	0.0	0.0	0.0	0.0	0.18E	0.04E	0.01E	0.0 E	0.0	0.0
24	0.03E	0.0	0.0	0.0	0.0	0.0	0.05E	0.01E	0.18E	0.07E	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.01	0.01E	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0 T	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	1.00E	0.08E	0.0	0.18E	0.02E	0.0
28	0.0	0.0	0.0	0.0	0.0	0.07E	0.32E	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.07E	0.32E	0.0	0.0	0.0	0.0	0.11E
30	0.0	0.0	0.0	0.0	0.0	0.06E	0.01	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	0.03E	0.0	0.0	0.0	0.0
TOTAL	0.24	0.92	0.18	0.43	0.83	0.20	3.71	1.45	2.20	1.03	0.40	0.11
STA AV	0.38	0.51	0.69	0.21	0.20	0.35	3.44	2.89	1.44	0.82	0.32	0.40

NOTES: Data are Thiessen weighted averages of values from 90 gages. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	3.645	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.873	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061	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	6.739	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	3.599	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.031	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	0.005	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	1.572	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	35.684	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	9.469	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	6.158	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	1.6562	0.3843	3.4193	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.033	0.008	0.066	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.060	0.019	0.0	0.0	0.0

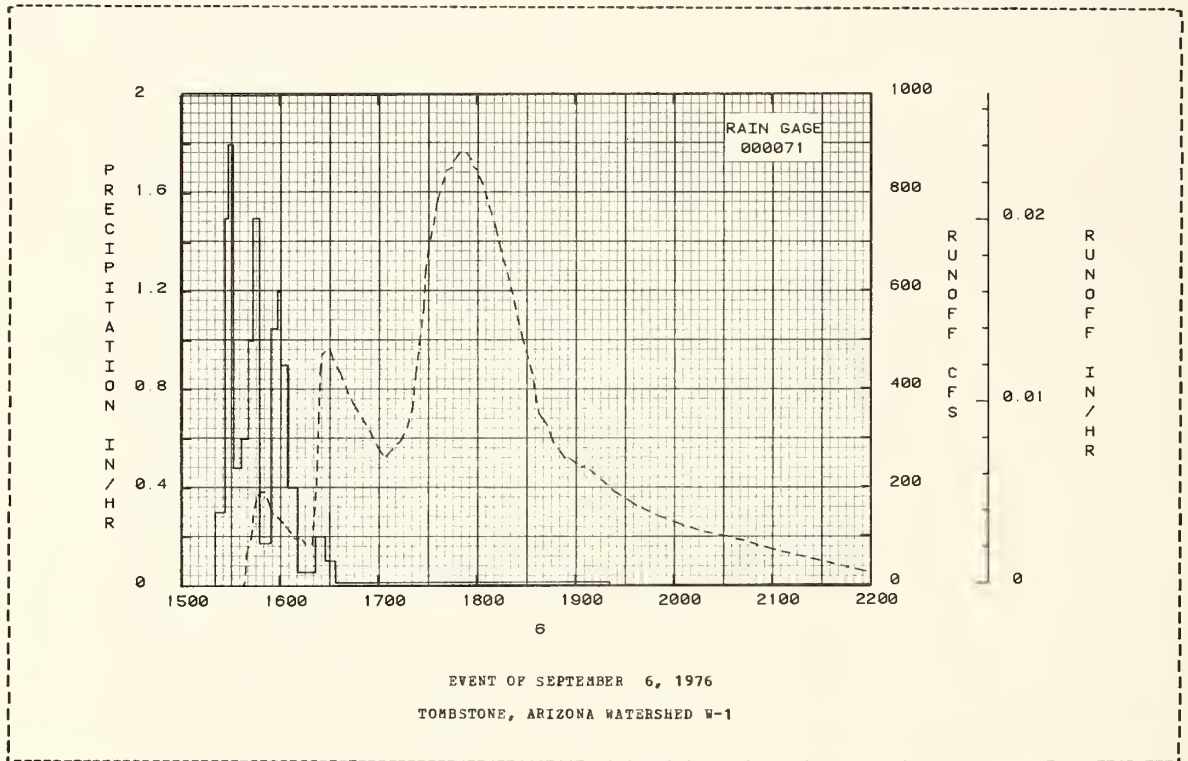
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV values are based on 10 yr (1966, 1968-76) record period. Previously published data are being reevaluated.

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976										
9- 6	RG 000071 0.0	0.016	9- 6	RG 000071 1521	0.0	0.0	9- 6	1538	0.0	0.0
				1527	0.3000	0.03		1539	8.704	0.0
				1529	1.5000	0.08		1540	64.363	0.0000
				1532	1.8000	0.17		1541	80.109	0.0001
				1537	0.4800	0.21		1543	99.363	0.0001
WATERSHED CONDITIONS:										
65% of area in desert shrubs				1541	0.6000	0.25	1544	144.417	0.0002	
(Whitethorn, creosotebush and				1544	1.0000	0.30	1545	160.015	0.0002	
tarbush) with 23% cover and				1548	1.5000	0.40	1546	176.840	0.0003	
2% grass cover. 35% is in				1555	0.1714	0.42	1547	185.428	0.0004	
grassland with approximately				1559	1.0500	0.49	1548	186.474	0.0005	
20% grass cover (crown				1601	1.2000	0.53	1549	191.751	0.0006	
spread) and 5% shrub cover.				1605	0.9000	0.59	1551	191.751	0.0007	
				1611	0.4000	0.63	1553	172.463	0.0009	
				1622	0.0545	0.64	1556	146.853	0.0011	
				1628	0.2000	0.65	1559	138.127	0.0013	
				1634	0.1000	0.67	1602	127.988	0.0015	
				1921	0.0108	0.70	1604	120.731	0.0016	
							1607	107.686	0.0017	
							1609	96.427	0.0018	
							1612	96.427	0.0020	
							1614	92.826	0.0020	
							1616	84.400	0.0021	
							1620	84.400	0.0023	
							1622	175.150	0.0024	
							1623	241.215	0.0025	
							1624	353.303	0.0026	
							1625	438.123	0.0028	
							1626	472.257	0.0030	
							1628	478.183	0.0034	
							1631	476.992	0.0041	
							1633	459.363	0.0045	
							1637	433.604	0.0053	
							1642	391.365	0.0062	
							1645	371.281	0.0067	
							1648	353.811	0.0072	
							1655	315.024	0.0082	
							1700	281.406	0.0089	
							1703	266.038	0.0093	
							1705	263.881	0.0095	
							1709	277.407	0.0100	
							1714	295.883	0.0106	
							1718	324.125	0.0112	
							1721	359.924	0.0117	
							1723	431.354	0.0120	
							1726	510.896	0.0126	
							1728	567.449	0.0131	
							1729	639.552	0.0134	
							1731	692.281	0.0140	
							1734	736.615	0.0150	
							1736	779.333	0.0156	
							1738	803.261	0.0163	
							1742	846.371	0.0178	
							1745	852.271	0.0190	
							1746	864.995	0.0193	
							1750	882.968	0.0209	
							1754	881.263	0.0225	
							1757	867.552	0.0237	
							1758	853.115	0.0241	
							1800	847.211	0.0246	
							1804	817.216	0.0263	
							1808	769.115	0.0277	
							1812	727.474	0.0291	
							1815	679.792	0.0300	
							1820	622.031	0.0315	
							1823	577.308	0.0323	
							1825	545.457	0.0328	
							1829	491.365	0.0337	
							1834	430.792	0.0348	
							1838	349.266	0.0355	
							1843	325.573	0.0362	

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

1976 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA 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 SEPTEMBER 6, 1976 (CONTINUED)										
							9-6	1847	289.047	0.0368
								1854	257.896	0.0376
								1857	257.046	0.0380
								1901	247.397	0.0384
								1904	239.581	0.0388
								1906	242.855	0.0390
								1909	235.120	0.0393
								1924	189.630	0.0407
								1937	161.624	0.0417
								1951	139.016	0.0427
								2006	120.731	0.0436
								2019	106.914	0.0442
								2034	97.400	0.0449
								2102	69.824	0.0460
								2129	48.344	0.0467

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



TOMBSTONE, ARIZONA WATERSHED W-2

LOCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, Sau Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 05 sec. N.; Long. 110 deg. 05 min. 55 sec. W.

AREA: 28100.00 acres 43.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-2															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.24	0.95	0.16	0.41	0.83	0.20	3.76	1.57	2.38	1.06	0.41	0.10	12.07	P	0.24	0.95	0.16	0.41	0.83	0.20	3.76	1.57	2.38	1.06	0.41	0.10	12.07	
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.017	0.095	0.000	0.0	0.0	0.164	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.017	0.095	0.000	0.0	0.0	0.164	
STA AV	P	0.39	0.53	0.67	0.21	0.20	0.35	3.46	2.86	1.51	0.84	0.34	0.40	11.75	P	0.39	0.53	0.67	0.21	0.20	0.35	3.46	2.86	1.51	0.84	0.34	0.40	11.75	
	Q	0.0	0.0	0.0	0.0	0.0	0.001	0.059	0.070	0.034	0.001	0.0	0.0	0.165	Q	0.0	0.0	0.0	0.0	0.0	0.001	0.059	0.070	0.034	0.001	0.0	0.0	0.165	

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

1976	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.	
1976	7-27	0.04	9-6 0.034	9-6 0.047	9-6 0.058	9-6 0.058	9-5 0.093	9-5 0.093	9-4 0.095	
MAXIMUMS FOR PERIOD OF RECORD										
	7-26 1955	0.160	7-26 1959 0.130	7-26 1969 0.170	7-26 1959 0.210	9-9 1964 0.240	9-9 1964 0.240	9-9 1964 0.240	9-9 1964 0.430	

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitethorn, creosotebush, tarbush and Mortonia), with a 25% crown spread cover. 45% of area supports grass (black grama, curly mesquite, tobosa, blue grama and sideoats grama), with a basal area of 2.5%, and a shrub cover of approximately 6% crown spread. For topographic, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1954. Monthly totals are Thiessen weighted averages from 69 gages, STA AV values are based on 9 yr (1968-76) record period. Runoff Data: Records began July 1959, STA AV values are based on 1966, 1968-76 data. Temperature Data: See table of daily maximum and minimum value included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA WATERSHED W-2													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.21E	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.21E	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.15S	0.0	0.01	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.15S	0.0	0.01	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.03E	0.0	0.0	0.02E	0.0	0.0	0.0	0.38E	0.0	0.0	0.0	0.0	4	0.0	0.03E	0.0	0.0	0.02E	0.0	0.0	0.38E	0.0	0.0	0.0	0.0	
5	0.0	0.48E	0.0	0.0	0.0	0.0	0.03E	0.0	0.79E	0.0	0.0	0.0	0.0	5	0.0	0.48E	0.0	0.0	0.0	0.0	0.03E	0.79E	0.0	0.0	0.0	0.0	
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.57E	0.0	0.0	0.0	0.0	6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.57E	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.07E	0.0	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.07E	0.0	0.0	0.0	0.0	
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
10	0.0	0.21E	0.0	0.0	0.0	0.0	0.10E	0.44E	0.32E	0.0	0.0	0.0	0.0	10	0.0	0.21E	0.0	0.0	0.0	0.0	0.10E	0.44E	0.32E	0.0	0.0	0.0	
11	0.0	0.13E	0.0	0.0	0.0	0.0	0.38E	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.13E	0.0	0.0	0.0	0.0	0.38E	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.16E	0.0	0.0	0.0	0.18E	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.16E	0.0	0.18E	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.37E	0.19E	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.37E	0.19E	0.0	0.0	
14	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.33E	0.0	0.0	0.21E	0.0	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.33E	0.0	0.0	0.21E	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.01	0.0	0.02E	0.35E	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.01	0.0	0.02E	0.35E	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.70E	0.0	0.13E	0.01E	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.70E	0.0	0.13E	0.01E	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.08E	0.0	0.22E	0.11E	0.0	0.0	0.01E	0.0	0.0	19	0.0	0.0	0.0	0.0	0.08E	0.0	0.22E	0.11E	0.0	0.01E	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.01E	0.0	0.28E	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.01E	0.0	0.28E	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.15E	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.15E	0.0	0.0	0.0	
22	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.24E	0.0	0.03E	0.0	0.0	0.0	22	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.24E	0.0	0.03E	0.0	0.0	
23	0.13E	0.0	0.0	0.0	0.0	0.0	0.18E	0.04E	0.0	0.0	0.0	0.0	0.0	23	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.04E	0.0	0.0	0.0	
24	0.03E	0.0	0.0	0.0	0.0	0.0	0.05E	0.01E	0.18E	0.05E	0.0	0.0	0.0	24	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.01E	0.18E	0.05E	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.01	0.01	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.01	0.01	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	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	0.01E	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.93E	0.10E	0.0	0.20E	0.03E	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.93E	0.10E	0.20E	0.03E	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.07E	0.39E	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	0.07E	0.39E	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.08E	0.37E	0.0	0.0	0.0	0.0	0.0	0.10E	29	0.0	0.0	0.0	0.0	0.0	0.08E	0.37E	0.0	0.0	0.0	0.10E	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.05E	0.01	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.0	0.05E	0.01	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	0.03E	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	0.03E	0.0	0.0	0.0	0.0	
TOTAL	0.24	0.95	0.16	0.41	0.83	0.20	3.76	1.57	2.38	1.06	0.41	0.10	12.07	TOTAL	0.24	0.95	0.16	0.41	0.83	0.20	3.76	1.57	2.38	1.06	0.41	0.10	12.07
STA AV	0.39	0.53	0.67	0.21	0.20	0.35	3.46	2.86	1.51	0.84	0.34	0.40	11.75	STA AV	0.39	0.53	0.67	0.21	0.20	0.35	3.46	2.86	1.51	0.84	0.34	0.40	11.75

NOTES: Data are Thiessen weighted averages of values from 69 gages. STA AV values are based on 9 yr (1968-76) record period.



1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.002	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0 T	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0 T	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.002	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	21.029	0.006	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	89.139E	0.010	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.197	0.005	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.005	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.003E	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.920	1.801	0.0 T	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.024	0.032	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.025	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.025	0.001	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.006	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.269	0.005	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.069	0.183	0.003	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.002	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.002	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.064	0.001	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.007	0.001	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.003	0.006E	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.002	0.0 T	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002E	0.0 T	0.003	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	37.700	0.0	0.0	0.002	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	14.296	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	8.940E	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	1.9702	0.6649	3.7463	0.0015	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.017	0.095	0.000	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.001	0.059	0.070	0.034	0.001	0.0	0.0

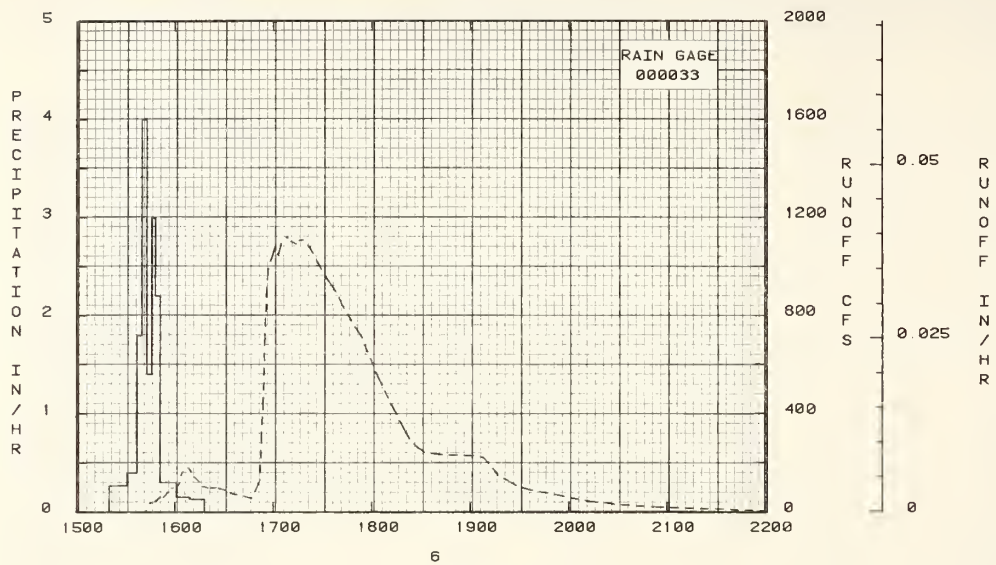
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000847. STA AV values are based on 1966 and 1968-75 record period.

1976 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-2												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 6, 1976												
9- 6	RG 000033 0.0	0.017	9- 6	1520	0.0	0.0	9- 6	1531	0.039	0.0		
				1531	0.2727	0.05		1532	0.039	0.0		
				1537	0.4000	0.09		1535	0.391	0.0		
				1540	1.8000	0.18		1538	0.488	0.0		
				1543	4.0000	0.38		1542	1.507	0.0		
WATERSHED CONDITIONS:			1546	1.4000	0.45		1543	9.027	0.0			
Oak woodland and desert shrubs			1548	3.0000	0.55		1545	40.855	0.0000			
(Whitethorn, creosotebush,			1551	2.2000	0.66		1546	38.692	0.0001			
tarbush, and mortonia) with			1601	0.3000	0.71		1548	43.490	0.0001			
a crown spread of 25% cover,			1609	0.1500	0.73		1551	62.935	0.0002			
occupy 55% of the area. The												
remaining 45% supports grass			1618	0.1333	0.75		1553	63.315	0.0003			
(black grama, curly mesquite,							1556	84.274	0.0004			
tobosa, blue grama, and							1558	99.281	0.0005			
sideoats grama) with a							1559	101.217	0.0006			
basal area of 2.5% cover,							1601	101.217	0.0007			
and a shrub cover of												
approximately 6% crown spread.							1603	121.149	0.0008			
							1604	153.642	0.0009			
							1605	165.680	0.0010			
							1608	180.393	0.0013			
							1610	164.351	0.0015			
							1612	143.383	0.0017			
							1615	121.697	0.0019			
							1617	105.425	0.0020			
							1620	98.090	0.0022			
							1622	97.616	0.0023			
							1625	100.486	0.0025			
							1627	96.908	0.0026			
							1631	88.215	0.0028			
							1634	77.339	0.0030			
							1638	71.353	0.0032			

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

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
							9- 6	1642	63.506	0.0033
								1647	56.348	0.0035
								1652	131.540	0.0038
								1653	327.302	0.0039
								1654	466.423	0.0041
								1655	726.304	0.0045
								1656	886.237	0.0050
								1657	991.948	0.0055
								1701	1076.604	0.0079
								1703	1045.601	0.0092
								1705	1093.117	0.0104
								1708	1118.979	0.0124
								1709	1115.624	0.0131
								1711	1100.593	0.0144
								1714	1088.978	0.0163
								1716	1106.426	0.0176
								1718	1108.094	0.0189
								1722	1078.250	0.0214
								1727	1012.689	0.0245
								1733	942.716	0.0280
								1738	898.271	0.0307
								1743	829.156	0.0332
								1754	706.708	0.0382
								1804	544.176	0.0419
								1813	422.745	0.0444
								1819	345.019	0.0458
								1823	296.745	0.0465
								1828	259.929	0.0473
								1832	244.248	0.0479
								1837	235.835	0.0486
								1843	232.677	0.0495
								1902	227.990	0.0520
								1908	220.687	0.0528
								1917	149.236	0.0538
								1928	106.179	0.0546
								1938	85.575	0.0552
								1947	75.713	0.0556
								1957	61.992	0.0560
								2013	42.452	0.0565
								2028	30.808	0.0569
								2058	17.767	0.0573
								2130	11.410	0.0576

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



6

EVENT OF SEPTEMBER 6, 1976  
TOMBSTONE, ARIZONA WATERSHED W-2

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. Lat. 31 deg. 43 min. 57 sec. N.; Long. 110 deg. 03 min. 25 sec. W.

AREA: 2220.00 acres 3.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA WATERSHED W-3																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.21	0.56	0.13	0.44	1.00	0.19	2.51	0.71	2.15	0.92	0.32	0.09	9.53															
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.021															
STA AV	P	0.50	0.39	0.46	0.15	0.12	0.30	3.37	2.80	1.42	0.64	0.40	0.64	11.22															
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.094	0.032	0.001	0.0	0.0	0.165															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1976	Maximum Discharge Date	1 Hour		2 Hours		5 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	9-8	0.020		9-8	0.011	9-6	0.014	9-6	0.015	9-6	0.015	9-5	0.015	9-4	0.015	9-2	0.021

MAXIMUMS FOR PERIOD OF RECORD																													
1956	Date	Vol.	1971	Date	Vol.	1971	Date	Vol.	1971	Date	Vol.	1971	Date	Vol.															
	6-16	0.560		6-10	0.275		6-10	0.312		9-11	0.320		8-11	0.320		8-11	0.320		8-10	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 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. No. 1226. Precipitation Data: Records began 1955. Monthly totals are Thiessen weighted averages of 13 gages, STA AV values are based on record period (1955-76). Runoff Data: Records began 1958, STA AV values are based on record period (1958-76). 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.

1976 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.20E	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	0.13E	0.0	0.01	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	0.32E	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.39E	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	0.43E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	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	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71E	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	0.03E	0.04E	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	0.39E	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	0.19E	0.0	0.0	0.0	0.0	0.06	0.08	0.47E	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	0.11	0.0	0.0	0.0	0.0	0.38	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	0.16	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	0.02E	0.0	0.0	0.38	0.17M	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	0.01	0.0	0.0	0.0	0.0	0.0	0.06E	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	0.06	0.0	0.0	0.07	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	0.37E	0.0	0.0	0.22E	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	0.01	0.0	0.01	0.15	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	0.84E	0.0	0.07	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	0.13E	0.0	0.14	0.09	0.0	0.0	0.02	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	0.09	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	0.08	0.0	0.0	0.06	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	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02	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	0.12	0.0	0.0	0.0	0.0	0.0	0.22	0.08E	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	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.16E	0.07E	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	0.02	0.0	0.01	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	0.02	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	0.57	0.08E	0.0	0.13	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	0.12	0.14	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	
29	0.0	0.0	0.0	0.0	0.0	0.07	0.37	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	
TOTAL	0.21	0.36	0.13	0.44	1.00	0.19	2.51	0.71	2.15	0.92	0.32	0.09	TOTAL	0.21	0.36	0.13	0.44	1.00	0.19	2.51	0.71	2.15	0.92	0.32	0.09
STA AV	0.50	0.39	0.48	0.15	0.12	0.30	3.37	2.80	1.42	0.64	0.40	0.64	STA AV	0.50	0.39	0.48	0.15	0.12	0.30	3.37	2.80	1.42	0.64	0.40	0.64

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV values are based on record period (1955-76).



1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.398	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	0.559	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0652	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.094	0.032	0.001	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.010722. STA AV values are based on record period (1958-76).

1976 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-3											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976											
9- 6	RG 000027	0.0	9- 6	RG 000027	0.0	0.0	9- 6	1524	0.0	0.0	
	9.0	0.0		1522	3.0000	0.10		1525	0.040	0.0	
				1526	1.8000	0.22		1527	0.123	0.0	
				1530	1.8000	0.34		1532	0.302	0.0000	
				1533	1.4000	0.41		1533	1.852	0.0000	
WATERSHED CONDITIONS:				1536	0.8000	0.45		1535	5.447	0.0001	
Vegetative Cover: Desert				1541	0.8400	0.52		1537	6.564	0.0002	
shrubs (whitethorn, creosote-				1550	0.2000	0.55		1539	5.743	0.0002	
bush, and tarbush) with				1555	0.9600	0.63		1542	4.220	0.0004	
a crown spread approximately				1605	0.1800	0.66		1547	2.979	0.0005	
30% and grasses with basal				1615	0.2400	0.70		1549	2.254	0.0005	
area of approximately 0.9%				1621	0.2000	0.72		1552	1.933	0.0006	
cover, occupy 55% of the area.				1623	0.2250	0.75		1554	1.356	0.0006	
Grasses (black grama, curly				1720	0.0	0.75		1556	0.946	0.0006	
mesquite, tobosa) with a				1749	0.0207	0.76		1601	0.805	0.0006	
basal area of 2.6% cover				1821	0.0187	0.77		1606	0.817	0.0007	
and shrub cover of 2% occupy				1855	0.0	0.77		1608	0.643	0.0007	
the remaining 45% of the				1919	0.0750	0.80		1612	0.267	0.0007	
								1616	0.095	0.0007	
								1627	0.052	0.0007	
								1636	0.040	0.0007	
								1638	1.407	0.0007	
								1640	4.412	0.0008	
								1642	7.188	0.0009	
								1643	9.953	0.0009	
								1646	12.118	0.0012	
								1650	12.814	0.0015	
								1653	12.118	0.0018	
								1656	10.263	0.0021	
								1659	8.438	0.0023	

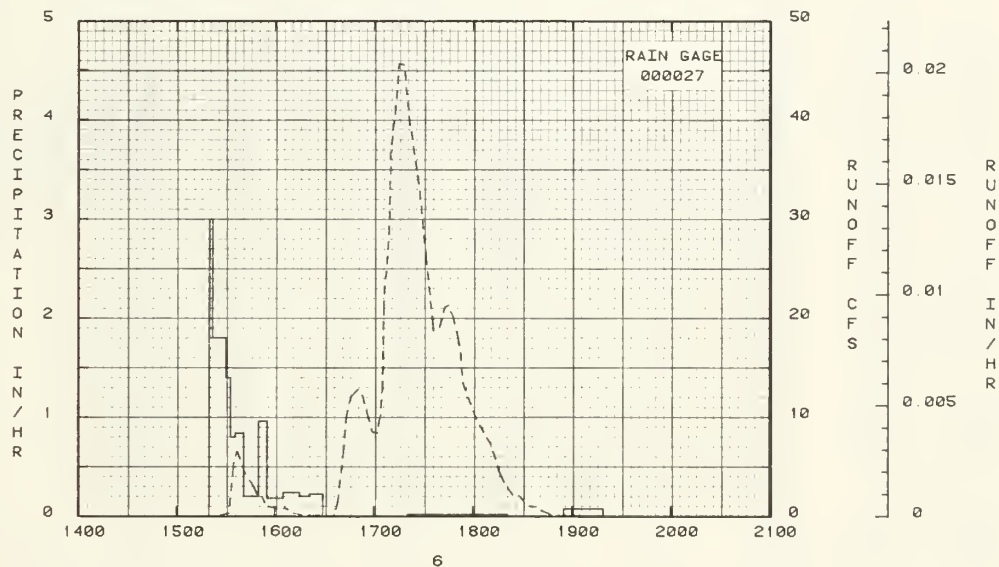
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)

EVENT OF SEPTEMBER 6, 1976 (CONTINUED)

9- 6	1702	8.391	0.0025
	1704	10.263	0.0026
	1705	12.873	0.0027
	1706	21.743	0.0028
	1709	28.525	0.0034
	1710	36.846	0.0036
	1713	41.449	0.0045
	1715	45.650	0.0051
	1718	45.533	0.0062
	1721	40.244	0.0071
	1727	33.515	0.0088
	1732	25.386	0.0099
	1736	18.739	0.0105
	1740	19.179	0.0111
	1743	21.128	0.0115
	1745	21.280	0.0119
	1748	20.148	0.0123
	1752	17.244	0.0129
	1754	13.411	0.0131
	1802	9.801	0.0138
	1811	7.188	0.0144
	1816	4.510	0.0146
	1819	3.413	0.0147
	1824	2.122	0.0148
	1828	2.058	0.0148
	1831	1.476	0.0149
	1835	0.946	0.0149
	1838	0.946	0.0149
	1843	0.420	0.0150
	1847	0.137	0.0150
	1852	0.052	0.0150
	1912	0.009	0.0150
	1953	0.004	0.0150
	2059	0.0	0.0150

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



EVENT OF SEPTEMBER 6, 1976  
TOMBSTONE, ARIZONA WATERSHED W-3

TOMBSTONE, ARIZONA W-4

LOCATION: Cochise County, Arizona; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 19 sec. N.; Long. 110 deg. 02 min. 40 sec. W.

AREA: 560.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						TOMBSTONE, ARIZONA W-4							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P 0.20	0.81	0.15	0.43	0.89	0.15	2.09	0.64	2.07	0.83	0.29	0.06	8.61
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.025
STA AV	P 0.48	0.38	0.50	0.15	0.12	0.32	3.31	2.84	1.39	0.65	0.40	0.62	11.16
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.299	0.127	0.032	0.004	0.0	0.0	0.462

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976	9-6	0.040	9-6	0.017	9-6	0.018	9-6	0.018	9-6	0.018	9-5	0.018	9-4	0.018
	9-2	0.025												

MAXIMUMS FOR PERIOD OF RECORD													
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
7-19 1955	2.250	7-19 1955	0.980	7-19 1955	1.100	7-19 1955	1.100	7-19 1955	1.100	7-19 1955	1.630	7-19 1955	1.630
												7-19 1955	4.370

NOTES: Watershed conditions: Vegetative cover: 100% dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basal cover. For topography, geological, and vegetative maps, see pages 63.1-3, 63.1-4 and 63.1-5 respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSDA Misc. Pnb. 1226. Precipitation Data: Record began July 1954. Monthly totals are Thiessen weighted averages of four rain gages, STA AV values are based on record period (1955-76). Runoff Data: Records began January 1955, STA AV values are based on 20 yr record period, (1955-58) and (1961-76). 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.

1976	DAILY PRECIPITATION (inches)					TOMBSTONE, ARIZONA W-4							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.20	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	0.15E	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0
5	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0
6	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.76	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	0.02	0.02	0.0	0.0	0.0	0.0
9	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
10	0.0	0.18	0.0	0.0	0.0	0.0	0.04	0.13	0.51E	0.0	0.0	0.0	0.0
11	0.0	0.09	0.0	0.0	0.0	0.0	0.35	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	0.20	0.0	0.0	0.09	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.33	0.18E	0.0	0.0
14	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
15	0.0	0.0	0.0	0.03	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.39E	0.0	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	0.02	0.12	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.78	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.10	0.0	0.08	0.06	0.0	0.0	0.02	0.0	0.0
20	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
21	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.06	0.0	0.0	0.0
22	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0
23	0.13	0.0	0.0	0.0	0.0	0.0	0.25	0.07	0.0	0.0	0.0	0.0	0.0
24	0.03	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.13	0.07	0.0	0.0	0.0
25	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
26	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
27	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.02	0.0	0.09	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.07	0.09	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.08	0.27	0.0	0.0	0.0	0.0	0.06E	0.0
30	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
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	0.20	0.81	0.15	0.43	0.89	0.15	2.09	0.64	2.07	0.83	0.29	0.06	
STA AV	0.48	0.38	0.50	0.15	0.12	0.32	3.31	2.84	1.39	0.65	0.40	0.62	

NOTES: Data are Thiessen weighted averages of values from four gages. STA AV values are based on record period (1955-76).

1976		MEAN DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA W-4					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.420	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	0.175	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0198	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.299	0.127	0.032	0.004	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.042503. STA AV values are based on record period (1955-58) and (1961-76).

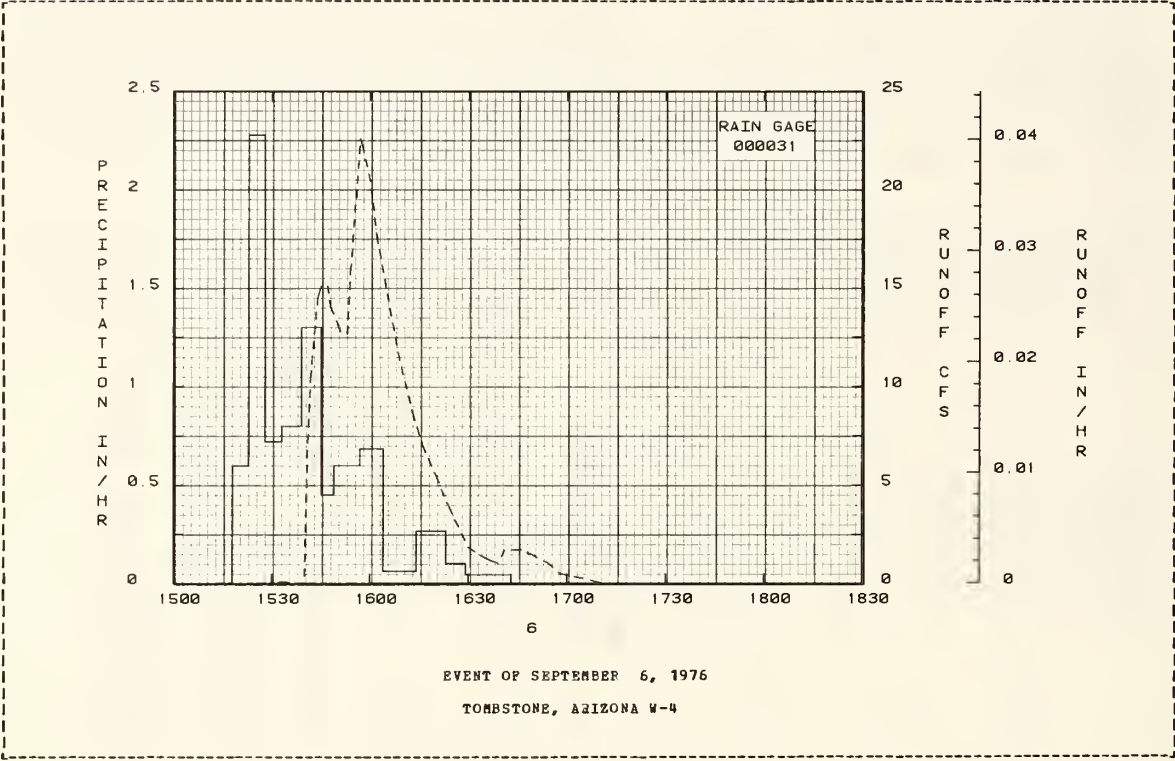
1976		SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA W-4					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976											
9- 6	RG 000031 0.0	0.0	9- 6	RG 000031 1518	0.0	0.0	9- 6	1527	0.0	0.0	
				1523	0.6000	0.05		1530	0.025	0.0	
				1528	2.2600	0.24		1533	0.098	0.0000	
				1533	0.7200	0.30		1538	0.016	0.0000	
				1539	0.8000	0.38		1540	0.018	0.0000	
				1545	1.3000	0.51		1541	7.231	0.0001	
				1549	0.4500	0.54		1542	10.814	0.0004	
				1557	0.6000	0.62		1544	14.526	0.0011	
				1604	0.6857	0.70		1545	15.110	0.0016	
				1614	0.0600	0.71		1547	15.110	0.0025	
				1623	0.2667	0.75		1548	14.032	0.0029	
				1629	0.1000	0.76		1551	12.783	0.0041	
				1643	0.0429	0.77		1553	12.703	0.0048	
								1554	15.871	0.0053	
								1557	22.612	0.0070	
								1558	21.910	0.0076	
								1600	20.435	0.0089	
								1602	17.652	0.0100	
								1606	13.950	0.0119	
								1609	11.344	0.0130	
								1613	8.638	0.0142	
								1616	7.000	0.0149	
								1620	5.470	0.0156	
								1625	3.537	0.0163	
								1630	1.812	0.0166	
								1635	1.288	0.0169	
								1639	1.017	0.0170	
								1641	1.698	0.0171	
								1646	1.720	0.0173	
								1649	1.483	0.0175	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.



1976 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Rnnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
							9- 6	1654	1.050	0.0177
								1658	0.489	0.0178
								1705	0.259	0.0178
								1710	0.042	0.0179
								1715	0.0	0.0179

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.



TOMBSTONE, ARIZONA W-8

LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 23 sec. N.; Long. 110 deg. 02 min. 39 sec. W.

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
1976	P	0.26	0.96	0.13	0.40	1.17	0.31	3.71	1.28	2.40	0.99	0.38	0.12	12.11
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.094	0.000	0.186	0.0	0.0	0.0	0.280
STA AV	P	0.38	0.55	0.61	0.20	0.22	0.35	3.03	2.86	1.65	0.85	0.34	0.41	11.46
	Q	0.0	0.0	0.0	0.0	0.0	0.004	0.050	0.114	0.078	0.003	0.0	0.0	0.249

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date						
1976	7-27	0.166	9-6	0.108	9-6	0.140	9-6	0.149	9-6	0.149	9-5	0.171	9-5	0.171	9-2	0.186

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	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	9-5	0.413
	1964		1964		1964		1964		1964		1964		1964		1975	

NOTES: Watershed conditions: Vegetative cover: approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 17 gages, STA AV values are based on 1968-76 data. Runoff Data: Records began 1963, STA AV values are based on 1966, 1968-76 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.

1976	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	0.06E	0.17E	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	0.13S	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.05E	0.0 E	0.0	0.04E	0.0	0.0	0.0	0.45E	0.0	0.0	0.0		
5	0.0	0.46E	0.0	0.0	0.0	0.0	0.01	0.0	0.63E	0.0	0.0	0.0		
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.67E	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.07E	0.0	0.0	0.0		
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
10	0.0	0.22E	0.0	0.0	0.0	0.0	0.08	0.24E	0.34	0.0	0.0	0.0		
11	0.0	0.13E	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.09	0.0	0.0	0.19	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.41	0.16M	0.0		
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0		
15	0.0	0.0	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.30E	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.46	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.98E	0.0	0.04E	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.13E	0.0	0.35E	0.12	0.0	0.0	0.01	0.0		
20	0.0	0.0	0.0	0.0	0.01	0.0	0.19	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.10	0.0	0.0		
22	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.03	0.0	0.0		
23	0.13	0.0	0.0	0.0	0.0	0.0	0.14	0.04E	0.0	0.0	0.0	0.0		
24	0.06	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.17E	0.04E	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	1.06E	0.16	0.0	0.20	0.02	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.16	0.39	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.08	0.48	0.0	0.0	0.0	0.0	0.12E		
30	0.0	0.0	0.0	0.0	0.0	0.07	0.01	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	0.02	0.0	0.0	0.0	0.0		
TOTAL	0.26	0.96	0.13	0.40	1.17	0.31	3.71	1.28	2.40	0.99	0.38	0.12		
STA AV	0.38	0.55	0.61	0.20	0.22	0.35	3.03	2.86	1.65	0.85	0.34	0.41		

NOTES: Data are Thiessen weighted averages from 17 rain gages. STA AV values are based on 1968-76 data.

1976 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.001	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.514	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.044	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	2.327	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	0.019	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	14.671	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.113	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.415	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	0.4903	0.0006	0.9961	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.094	0.000	0.186	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.004	0.050	0.114	0.078	0.003	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.006215. STA AV values are based on 10 yr (1966, 1968-76) record period.

1976 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-8											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 6, 1976											
9- 6	RG 000032 0.0	0.000	9- 6	RG 000032 1522	0.0	0.0	9- 6	1538	0.0	0.0	
				1529	0.7714	0.09		1539	0.106	0.0	
				1531	0.9000	0.12		1542	0.214	0.0	
				1533	0.9000	0.15		1543	0.848	0.0	
				1535	2.4000	0.23		1544	2.050	0.0000	
WATERSHED CONDITIONS: Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarpush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%.				1537	2.1000	0.30		1547	2.513	0.0000	
				1540	2.8000	0.44		1548	7.037	0.0001	
				1542	2.7000	0.53		1550	11.635	0.0001	
				1544	3.3000	0.64		1552	15.543	0.0003	
				1548	0.7500	0.69		1554	13.408	0.0004	
				1552	0.7500	0.74		1556	10.000	0.0005	
				1557	0.6000	0.79		1558	325.714	0.0019	
				1604	0.2571	0.82		1559	401.197	0.0035	
				1611	0.1714	0.84		1600	449.668	0.0053	
				1623	0.1000	0.86		1602	492.016	0.0094	
								1604	548.060	0.0139	
								1605	538.458	0.0162	
								1606	571.966	0.0186	
					1607	530.658	0.0210				
					1608	538.021	0.0233				
					1611	476.852	0.0299				
					1613	527.641	0.0342				
					1615	508.008	0.0387				
					1617	519.062	0.0431				
					1618	538.021	0.0454				
					1621	544.559	0.0524				
					1623	588.167	0.0573				
					1626	544.996	0.0647				
					1630	491.133	0.0736				
					1632	432.516	0.0776				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.

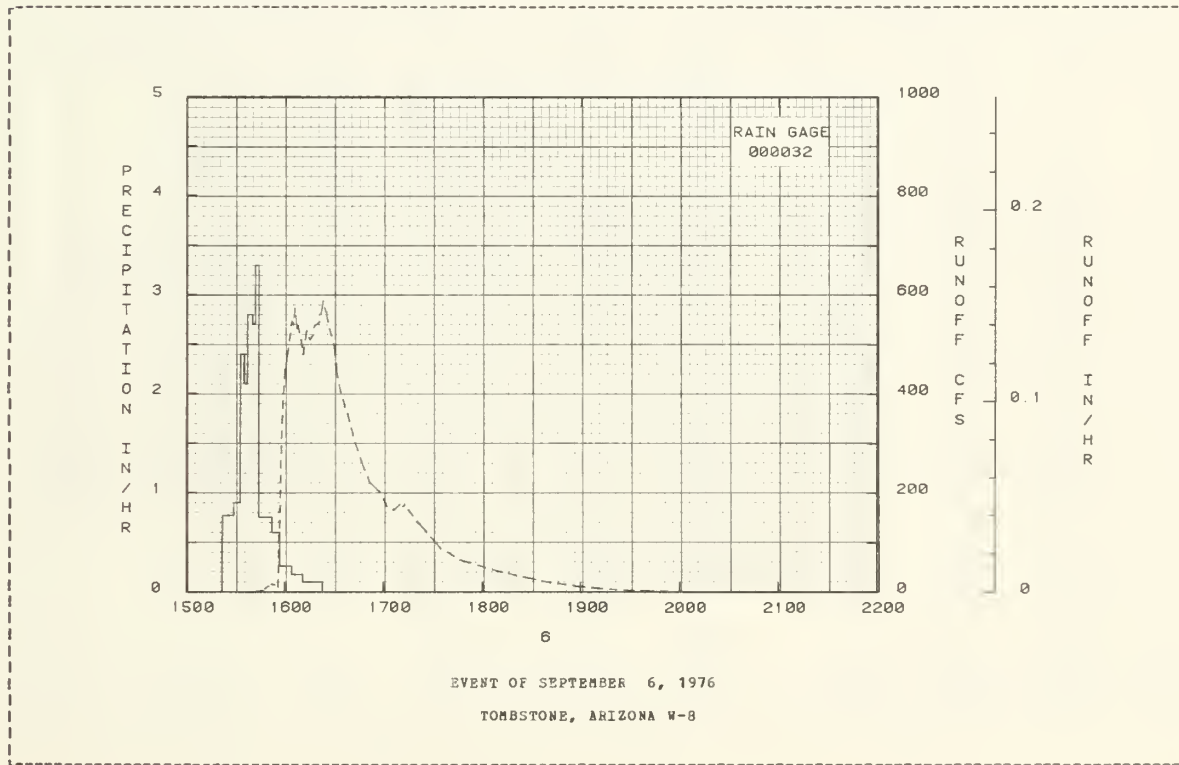
1976

SELECTED RUNOFF EVENT

TOMBSTONE, ARIZONA W-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 SEPTEMBER 6, 1976 (CONTINUED)												
									9- 6	1634	401.995	0.0812
										1638	358.153	0.0877
										1643	299.217	0.0948
										1647	259.486	0.0997
										1652	219.303	0.1048
										1658	201.235	0.1103
										1702	172.752	0.1135
										1706	164.705	0.1164
										1710	176.428	0.1193
										1712	172.752	0.1209
										1713	176.713	0.1216
										1715	165.802	0.1231
										1721	139.324	0.1270
										1726	120.376	0.1298
										1731	101.477	0.1322
										1735	86.441	0.1338
										1748	62.694	0.1380
										1753	58.293	0.1393
										1802	48.757	0.1414
										1812	39.780	0.1433
										1828	27.566	0.1457
										1842	18.337	0.1470
										1858	11.075	0.1481
										1913	6.607	0.1486
										1928	3.504	0.1490
										1944	1.815	0.1491
										1958	0.819	0.1492
										2014	0.329	0.1493
										2028	0.089	0.1493
										2053	0.0	0.1493

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.





TOMBSTONE, ARIZONA W-11

LOCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 28 sec. N.; Long. 109 deg. 59 min. 40 sec. W.

AREA: 2035.00 acres 3.18 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA W-11	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.30	1.03	0.11	0.36	1.30	0.37	4.42	1.61	2.29	0.97	0.38	0.13	13.27
	Q	0.0	0.000	0.0	0.0	0.002	0.0	0.190	0.021	0.098	0.0	0.0	0.0	0.312
STA AV	P	0.40	0.56	0.57	0.20	0.25	0.33	3.16	2.99	1.64	0.83	0.34	0.42	11.69
	Q	0.0	0.000	0.0	0.0	0.000	0.002	0.085	0.134	0.090	0.004	0.0	0.0	0.315

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
	7-27	0.253	7-27	0.133	7-27	0.147	7-27	0.148	7-27	0.148	7-27	0.148	7-27	0.183	7-21	0.183

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
9-5 1975	0.574	9-10 1964	0.620	9-9 1964	0.750	9-9 1964	0.770	9-9 1964	0.970	9-9 1964	0.970	9-10 1964	1.460	9-8 1964	1.700

NOTES: Watershed conditions: Approximately 20% of the area dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pnb. 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, STA AV values are based on 9 yr (1968-76) record period. Runoff Data: Records began 1963, STA AV values are based on 1966, 1968-76 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.

1976	DAILY PRECIPITATION (inches)												TOMBSTONE, ARIZONA W-11	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.15	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	0.11E	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.07E	0.0 E	0.0	0.06E	0.0	0.0	0.0	0.43E	0.0	0.0	0.0		
5	0.0	0.49E	0.0	0.0	0.0	0.0	0.02	0.0	0.72E	0.0	0.0	0.0		
6	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.61E	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.0	0.0	0.0		
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.24E	0.0	0.0	0.0	0.0	0.06	0.40E	0.20	0.0	0.0	0.0		
11	0.0	0.14E	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.04	0.0	0.0	0.19	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.39	0.16E	0.0		
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
15	0.0	0.0	0.0	0.08	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.26E	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.61	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	1.08	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.14	0.0	0.55E	0.11	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.01	0.0	0.24	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0		
22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.03	0.0	0.0		
23	0.14	0.0	0.0	0.0	0.0	0.0	0.07	0.04	0.0	0.0	0.0	0.0		
24	0.08	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.18	0.04	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0		
26	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	1.26	0.18	0.0	0.21	0.03	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.22	0.57	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.04	0.56	0.0	0.0	0.0	0.0	0.13E		
30	0.0	0.0	0.0	0.0	0.0	0.11	0.02	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	0.04	0.0	0.0	0.0	0.0		
TOTAL	0.30	1.03	0.11	0.36	1.30	0.37	4.42	1.61	2.29	0.97	0.38	0.13		
STA AV	0.40	0.56	0.57	0.20	0.25	0.33	3.16	2.99	1.64	0.83	0.34	0.42		

NOTES: Data are Thiessen weighted averages of 10 rain gages. STA AV values are based on 9 yr (1968-76) record period.

1976		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	0.003	0.0	0.0	0.0	0.0	0.0	0.0	2.132	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.269	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	0.001	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	0.114	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	T	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	1.816	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.195	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	0.423	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.058	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	12.685	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.917	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	2.075	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0001	0.0	0.0	0.0063	0.0	0.5249	0.0586	0.2801	0.0	0.0	0.0
INCHES	0.0	0.000	0.0	0.0	0.002	0.0	0.190	0.021	0.098	0.0	0.0	0.0
STA AV	0.0	0.000	0.0	0.0	0.000	0.002	0.085	0.134	0.090	0.004	0.0	0.0

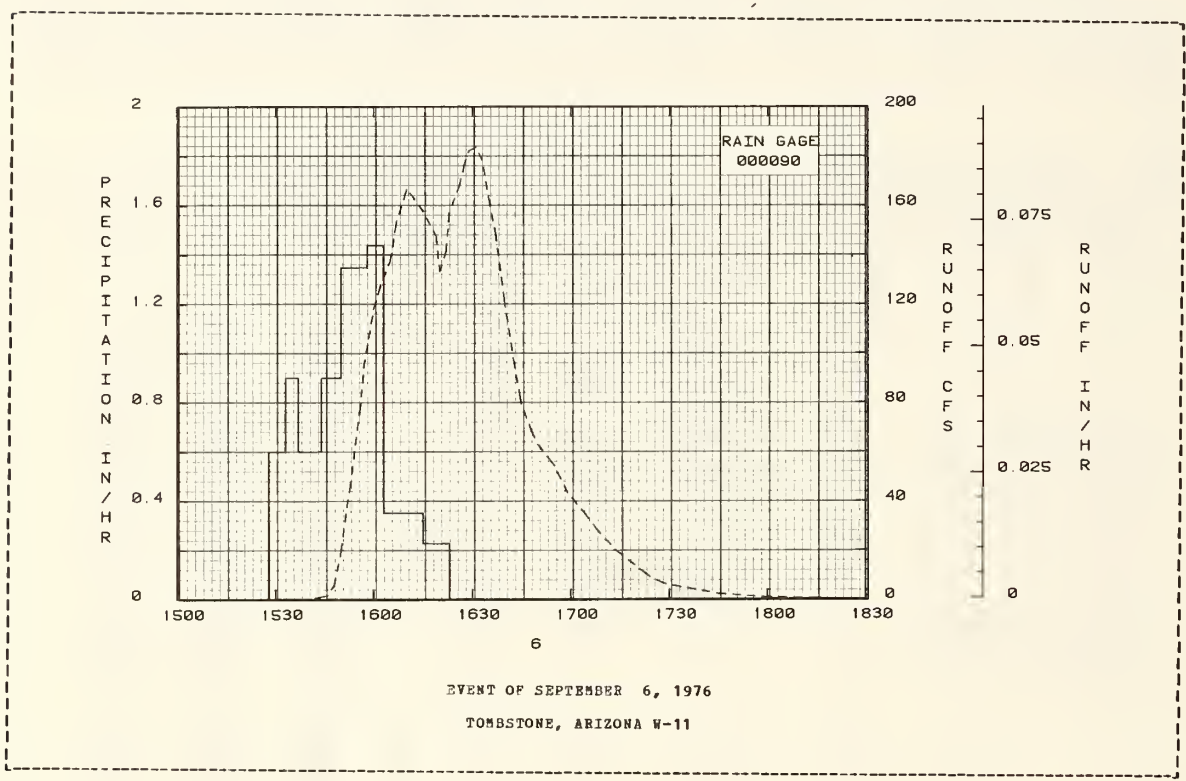
NOTES: To convert mean daily discharge values in CFS to IN/ DAY, multiply by 0.011696. STA AV values are based on 9 yr (1966, 1968-75) record period.

1976		SELECTED RUNOFF EVENT										
		TOMBSTONE, ARIZONA W-11										
ANTECEDENT CONDITIONS		RAINFALL					RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 6, 1976												
RG 000090		RG 000090										
9- 6	0.0	0.000	9- 6	1528	0.0	0.0	9- 6	1536	0.0	0.0		
				1533	0.6000	0.05		1540	0.232	0.0		
				1537	0.9000	0.11		1546	1.704	0.0001		
				1544	0.6000	0.18		1548	5.706	0.0001		
				1550	0.9000	0.27		1550	19.834	0.0003		
WATERSHED CONDITIONS:				1558	1.3500	0.45		1553	48.220	0.0011		
Vegetative cover: Approx-				1603	1.4400	0.57		1556	79.358	0.0027		
imately 20% of the area is				1615	0.3500	0.64		1557	94.523	0.0034		
dominated by desert shrubs				1623	0.2250	0.67		1600	118.338	0.0060		
(whitethorn, creosotebush,								1602	127.651	0.0080		
tarbush) with a crown								1605	137.603	0.0112		
spread of approximately								1607	153.969	0.0136		
30% cover and an understory								1610	166.640	0.0175		
of grasses with basal area								1611	164.991	0.0189		
of less than 1%. The								1615	157.686	0.0241		
remaining 80% of the area								1619	147.455	0.0291		
supports a grass cover								1620	133.183	0.0302		
(black grama, curly mesquite,								1622	141.599	0.0324		
sideoats grama) with basal								1623	157.418	0.0336		
cover of about 2.5% inter-								1626	168.020	0.0376		
spersed with desert shrubs								1628	178.720	0.0404		
averaging less than 5%								1629	182.464	0.0419		
crown cover.								1631	183.916	0.0449		
								1633	178.434	0.0478		
								1635	162.536	0.0506		
								1637	148.487	0.0531		
								1640	118.794	0.0564		
								1643	93.920	0.0590		
								1645	79.175	0.0604		
								1648	68.307	0.0622		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.

1976 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11							
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 6, 1976 (CONTINUED)										
							9- 6	1650	62.721	0.0632
								1655	54.092	0.0656
								1659	43.239	0.0672
								1704	35.094	0.0688
								1709	26.465	0.0700
								1714	19.496	0.0709
								1724	9.021	0.0721
								1729	6.013	0.0724
								1745	2.148	0.0729
								1759	0.738	0.0731
								1814	0.225	0.0732
								1830	0.032	0.0732
								1842	0.0	0.0732

NOTES: To convert runoff in CFS to IN/HR, 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. Lat. 31 deg. 42 min. 46 sec. N.; Long. 110 deg. 02 min. 25 sec. W.

AREA: 5912.00 acres 9.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TOMBSTONE, ARIZONA W-15	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.25	1.00	0.18	0.37	0.49	0.13	3.55	1.76	2.37	1.31	0.47	0.07	11.95
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.064	0.098	0.0	0.0	0.0	0.188
STA AV	P	0.44	0.50	0.58	0.19	0.17	0.34	3.57	3.00	1.44	0.69	0.33	0.83	12.07
	Q	0.0	0.0	0.002	0.0	0.0	0.003	0.044	0.105	0.025	0.001	0.0	0.0	0.180

ANNOFL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		Selected Time Interval		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	1 Day	2 Days	8 Days
1976	9-6	0.092	0.065	0.060	0.088	0.088	0.098	0.098	0.098	0.098	0.098	0.098

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
6-10 1971	0.211	8-10 1971	0.144	8-10 1971	0.180	8-19 1966	0.200	8-19 1966	0.200	8-19 1966	0.230	8-19 1966	0.250	8-19 1966	0.250

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a crown spread of approximately 30% and an understory of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sideoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. Runoff Data: Records began January 1965. Station averages for precipitation and runoff based on 1965-1976 record period. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1976 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	0.0	0.01E	0.25	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	0.18S	0.0	0.02	0.0	0.14E	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.01E	0.0	0.0	0.0 T	0.0	0.0	0.0	0.31E	0.0	0.0	0.0		
5	0.0	0.55E	0.0	0.0	0.0	0.0	0.0	0.0	0.78E	0.0	0.0	0.0		
6	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.68E	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	0.05	0.05E	0.0	0.0	0.0		
9	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
10	0.0	0.22E	0.0	0.0	0.0	0.0	0.18	0.69E	0.34	0.0	0.0	0.0		
11	0.0	0.12	0.0	0.0	0.0	0.0	0.45E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.53E	0.32E	0.0	0.0	0.22E	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.45E	0.24E	0.0		
14	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0		
15	0.0	0.0	0.0	0.03E	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.32E	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.17E	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.43	0.0	0.08E	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.04	0.0	0.20E	0.07E	0.0	0.0	0.0 E	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	0.0 T	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.23E	0.0	0.0		
22	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.04E	0.0	0.0		
23	0.14	0.0	0.0	0.0	0.0	0.0	0.15E	0.03	0.0	0.0	0.0	0.0		
24	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.02E	0.18	0.04E	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.03	0.01	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	0.62E	0.10	0.0	0.25E	0.01E	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.03	0.41E	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.09	0.11E	0.0	0.0	0.0	0.0	0.07E		
30	0.0	0.0	0.0	0.0	0.0	0.01	0.03	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	0.04	0.0	0.0	0.0	0.0		
TOTAL	0.25	1.00	0.18	0.37	0.49	0.13	3.55	1.76	2.37	1.31	0.47	0.07		
STA AV	0.44	0.50	0.58	0.19	0.17	0.34	3.57	3.00	1.44	0.69	0.33	0.83		

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV values are based on 12 yr record period (1965-76).



1976		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	2.265	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.052	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	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	13.396	0.030	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	2.745	2.508	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	T	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	0.001	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	3.590	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.014	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	0.2048	0.5130	0.8118	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.064	0.098	0.0	0.0	0.0
STA AV	0.0	0.0	0.002	0.0	0.0	0.003	0.044	0.105	0.025	0.001	0.0	0.0

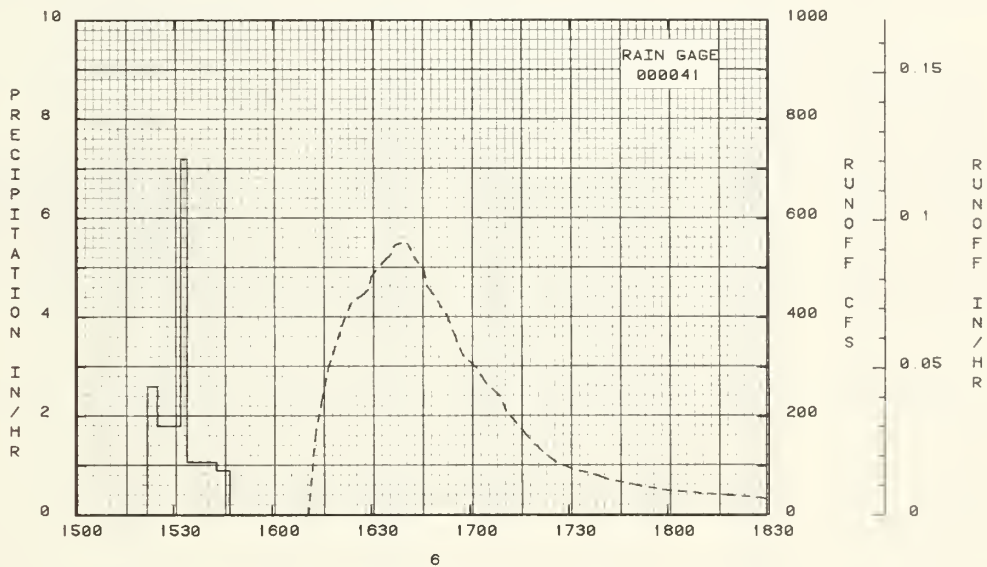
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.004026. STA AV values are based on 12 yr record period (1965-1976).

1976			SELECTED RUNOFF EVENT									
			TOMBSTONE, ARIZONA W-15									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 6, 1976												
9- 6	RG 000041 0.0	0.001	9- 6	1522	0.0	0.0	9- 6	1525	0.0	0.0		
				1525	2.6000	0.13		1527	0.017	0.0		
				1532	1.8000	0.34		1531	0.017	0.0		
				1534	7.2000	0.58		1535	0.085	0.0		
				1543	1.0667	0.74		1538	0.249	0.0		
				1547	0.9000	0.80		1540	0.337	0.0		
								1542	0.337	0.0		
								1545	0.264	0.0		
								1548	0.373	0.0		
								1551	0.421	0.0		
								1554	0.483	0.0		
								1600	0.483	0.000		
								1603	0.346	0.000		
								1611	0.181	0.000		
								1613	159.279	0.0005		
								1615	232.166	0.0016		
								1617	298.445	0.0030		
								1622	401.197	0.0079		
								1624	429.621	0.0102		
								1629	455.177	0.0164		
								1630	483.219	0.0177		
								1633	508.007	0.0219		
								1636	528.501	0.0262		
								1637	546.308	0.0277		
								1639	550.693	0.0308		
								1641	548.936	0.0339		
								1643	521.627	0.0369		
								1646	494.228	0.0411		
								1647	460.292	0.0425		
								1649	445.456	0.0450		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
			9-	6			1653		402.395	0.0497
							1656		351.781	0.0529
							1658		322.482	0.0548
							1702		297.674	0.0583
							1705		265.585	0.0606
							1709		240.628	0.0634
							1711		210.954	0.0647
							1714		186.246	0.0664
							1718		154.746	0.0683
							1722		128.581	0.0699
							1726		107.650	0.0712
							1731		94.093	0.0726
							1738		81.910	0.0743
							1742		73.251	0.0752
							1752		58.910	0.0770
							1801		50.021	0.0784
							1818		40.910	0.0806
							1828		35.667	0.0816
							1838		32.913	0.0826
							1848		29.641	0.0835
							1902		23.943	0.0845
							1919		18.581	0.0855
							1933		14.597	0.0862
							1948		11.198	0.0867
							2003		8.205	0.0871
							2018		5.119	0.0874
							2033		3.122	0.0876
							2043		2.123	0.0876
							2053		1.575	0.0877
							2114		1.205	0.0878

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.



EVENT OF SEPTEMBER 6, 1976  
TOMBSTONE, ARIZONA R-15

TOMBSTONE, ARIZONA WATERSHED W-103

LOCATION: Cochise County; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin  
 Lat. 31 deg. 44 min. 30 sec. N.; Long. 110 deg. 03 min. 15 sec. W.

AREA: 9.10 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-103														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1976	P	0.26	1.01	0.13	0.46	1.02	0.14	2.31	1.12	2.13	1.16	0.34	0.13	10.21														
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.481	0.001	0.0	0.0	0.485														
STA AV	P	0.38	0.45	0.52	0.19	0.19	0.30	3.38	2.49	1.79	0.59	0.29	0.86	11.52														
	Q	0.0	0.0	0.0	0.0	0.0	0.010	0.339	0.252	0.193	0.029	0.0	0.005	0.828														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		5-6	6	1.775		9-6	0.395	9-6	0.398	9-6	0.398	9-6	0.398	9-5	0.395	9-4	0.398	9-2	0.481

MAXIMUMS FOR PERIOD OF RECORD																	
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
		7-17	3.676	7-17	1.572	7-17	1.615	7-17	1.615	7-17	1.615	7-16	1.615	7-15	1.615	7-9	2.070
		1975		1975		1975		1975		1975		1975		1975		1975	

NOTES: Watershed Conditions: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosote-bush, and tarbush) with crown spread of about 25% and an understory of grasses with about 0.6% basal cover. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic and vegetative maps, see p. 63.1-4 and 63.1-5 of foregoing reference. Precipitation Data: Records began January 1965. Monthly totals are values from rain gage No. 83. STA AV values are based on 1965-76 data. Runoff Data: Records began January 1965. STA AV values are based on data for the record period 1965-76. 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.

1976 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA WATERSHED W-103													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.20	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	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
4	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0														
5	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0														
6	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.95	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	0.15	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	0.17	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	0.13	0.0	0.0	0.0	0.0	0.0	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	0.26	0.0	0.0	0.14	0.0														
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.34	0.18M	0.0														
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0														
15	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0														
16	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	0.31	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	0.03	0.14	0.0	0.0	0.0	0.0														
18	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0														
19	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.10	0.15	0.0	0.0	0.02	0.0														
20	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														
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.13	0.0	0.0														
22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0														
23	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.07	0.0	0.0	0.0	0.0														
24	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.17	0.22	0.0	0.0														
25	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														
26	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														
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.02E	0.0	0.12	0.0	0.0														
28	0.0	0.0	0.0	0.0	0.0	0.04	0.13	0.0	0.0	0.0	0.0	0.0	0.0														
29	0.0	0.0	0.0	0.0	0.0	0.10	0.24	0.0	0.0	0.0	0.0	0.0	0.13														
30	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														
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	0.26	1.01	0.13	0.46	1.02	0.14	2.31	1.12	2.13	1.16	0.34	0.13	10.21														
STA AV	0.38	0.45	0.52	0.19	0.19	0.30	3.38	2.49	1.79	0.59	0.29	0.86	11.52														

NOTES: Data are values from rain gage No. 83. STA AV values are based on 12 yr (1965-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)						TOMBSTONE, ARIZONA WATERSHED W-103					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.139	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	0.029E	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	0.001	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0056	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.481	0.001	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.010	0.335	0.252	0.193	0.029	0.0	0.005	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV values are based on 12 yr (1965-76) record period.

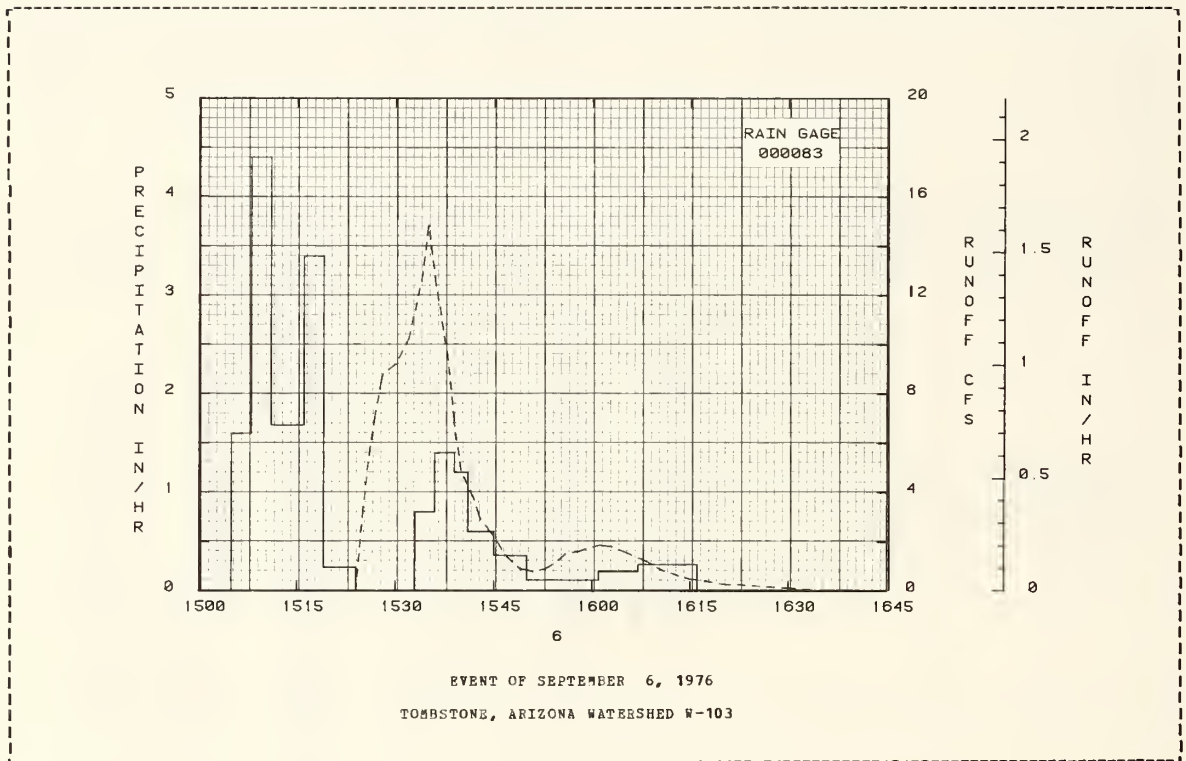
1976		SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-103					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976										
9- 6	RG 000083 0.0	0.0	9- 6	RG 000083 1505	0.0	0.0	9- 6	1524	0.0	0.0
				1508	1.6000	0.08		1525	3.134	0.0062
				1511	4.4000	0.30		1526	5.554	0.0173
				1516	1.6800	0.44		1527	7.321	0.0315
				1519	3.4000	0.61		1528	8.793	0.0494
WATERSHED CONDITIONS:				1524	0.2400	0.63		1530	9.203	0.0681
Vegetative cover: Entire				1533	0.0	0.63		1532	10.231	0.1268
area dominated by desert				1536	0.8000	0.67		1534	12.663	0.1772
shrubs (whitethorn, creosote-				1539	1.4000	0.74		1535	14.556	0.2066
bush, and tarbush) with				1541	1.2000	0.78		1536	12.681	0.2321
a crown spread of about 25%				1545	0.6000	0.92		1538	9.359	0.2694
and an understory of grasses				1550	0.3500	0.85		1539	6.685	0.2827
with about 0.6% basal cover.				1601	0.1091	0.87		1540	4.890	0.2924
				1607	0.2000	0.89		1542	3.680	0.3071
				1616	0.2667	0.93		1543	2.894	0.3128
								1545	2.202	0.3216
								1547	1.384	0.3271
								1549	0.896	0.3307
								1551	0.767	0.3337
								1553	0.908	0.3373
								1555	1.267	0.3424
								1556	1.516	0.3454
								1558	1.621	0.3519
								1601	1.654	0.3625
								1603	1.767	0.3701
								1605	1.583	0.3764
								1608	1.230	0.3837
								1611	0.750	0.3884
								1615	0.476	0.3922
								1620	0.279	0.3950

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108982.



1976 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-103							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 6, 1976 (CONTINUED)										
							9- 6	1630	0.116	0.3973
								1635	0.027	0.3976
								1641	0.005	0.3976
								1647	0.0	0.3976
								1657	0.0	0.3976
								1700	0.002	0.3977
								1720	0.0	0.3977

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108932.



SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Gnadalupe and Quay Counties; 30 miles east of Santa Rosa; Alamogordo Creek, Tributary of Pecos River.  
 Lat. 34 deg. 51 min. 53 sec. N.; Long. 104 deg. 12 min. 23 sec. W.

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.05	0.53	0.06	0.61	0.79	0.93	4.15	1.51	0.83	0.41	0.20	0.0	10.07	P	0.05	0.53	0.06	0.61	0.79	0.93	4.15	1.51	0.83	0.41	0.20	0.0	10.07	
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0	0.040	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0	0.040	
STA AV	P	0.29	0.32	0.47	0.63	0.90	1.25	3.63	2.75	1.57	1.37	0.48	0.25	13.90	P	0.29	0.32	0.47	0.63	0.90	1.25	3.63	2.75	1.57	1.37	0.48	0.25	13.90	
	Q	0.0	0.0	0.0	0.0	0.012	0.008	0.092	0.056	0.017	0.003	0.0	0.0	0.188	Q	0.0	0.0	0.0	0.0	0.012	0.008	0.092	0.056	0.017	0.003	0.0	0.0	0.188	

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

1976	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.
7-4	0.023	7-4	0.021	7-4	0.031	7-4	0.038	7-4	0.039	7-4	0.039	7-3	0.040	6-27	0.040	

MAXIMUMS FOR PERIOD OF RECORD

7-20	0.099	7-20	0.087	7-20	0.147	7-20	0.300	7-20	0.350	7-20	0.359	7-18	0.503	7-15	0.509
1972		1972		1972		1972		1972		1972		1972		1972	

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring mullly. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are Thiessen weighted averages of 64 rain gages. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 64.001-3. Precipitation and runoff records began in 1955. STA AV values are based on 9 yr (1968-76), previously published data are being reevaluated. For long-time precipitation records, see National Weather Service records at Santa Rosa, New Mexico.

1976 DAILY PRECIPITATION (inches)														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	0.05E	0.0	0.01	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.20E	0.09	0.0	0.01E	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.84E	0.30E	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.13E	0.0	0.10E	0.57E	0.11E	0.17E	0.0 T	0.0	0.0	0.0	0.0	4	0.0	0.13E	0.0	0.10E	0.57E	0.11E	0.17E	0.0 T	0.0	0.0	0.0			
5	0.0	0.01E	0.0	0.0	0.0	0.08E	0.0 T	0.0	0.02E	0.0	0.0	0.0	5	0.0	0.01E	0.0	0.0	0.08E	0.0 T	0.0	0.02E	0.0	0.0	0.0			
6	0.01E	0.0 T	0.0	0.0	0.0	0.49E	0.0	0.0	0.12E	0.18E	0.0	0.0	6	0.01E	0.0 T	0.0	0.0	0.49E	0.0	0.0	0.12E	0.18E	0.0	0.0			
7	0.04E	0.03E	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0 E	0.0	0.0	7	0.04E	0.03E	0.0	0.0	0.25	0.0	0.0	0.0	0.0 E	0.0	0.0			
8	0.0	0.0	0.06E	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.06E	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0 T	0.02E	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0 T	0.02E	0.0	0.0			
10	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.06	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	0.02E	0.03E	0.0	0.01E	0.0	0.0	0.0	0.0	0.12M	12	0.0	0.0	0.0	0.02E	0.03E	0.0	0.01E	0.0	0.0	0.0	0.12M			
13	0.0	0.08E	0.0	0.0	0.0	0.0	0.16E	0.02	0.0 T	0.0	0.0	0.02M	13	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.02M			
14	0.0	0.28E	0.0	0.03E	0.0	0.0	0.46E	0.0	0.08	0.0	0.0	0.0	14	0.0	0.28E	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.05E	0.0	0.0	0.27E	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.05E	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			
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 E	0.06E	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0 E	0.06E	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0 T	0.10E	0.36E	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0 E	0.0	0.0	0.10E	0.36E	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.05E	0.0	0.80	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.0	0.05E	0.0	0.80	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.01E	0.09	0.48E	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.01E	0.09	0.48E	0.0	0.0	0.0			
22	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	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.01E	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.01E	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.72E	0.08	0.0 E	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.72E	0.08	0.0 E	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.05E	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	0.03M	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.03M			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.10M	0.03E	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.10M	0.03E			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.12M	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	0.12M	0.0	0.0		
29	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.37E	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.37E	0.01E	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 T	0.37E	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 T	0.37E	0.0	0.0			
TOTAL	0.05	0.53	0.06	0.61	0.79	0.93	4.15	1.51	0.83	0.41	0.20	0.0	TOTAL	0.05	0.53	0.06	0.61	0.79	0.93	4.15	1.51	0.83	0.41	0.20	0.0		
STA AV	0.29	0.32	0.47	0.63	0.90	1.25	3.63	2.75	1.57	1.37	0.48	0.25	STA AV	0.29	0.32	0.47	0.63	0.90	1.25	3.63	2.75	1.57	1.37	0.48	0.25		

NOTES: Daily values are Thiessen weighted average amounts from 64 rain gages. Precipitation records began in 1955. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs)												SANTA ROSA, NEW MEXICO WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	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	71.141	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.066	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	0.019	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	0.009	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	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	0.051	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	2.2996	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.012	0.008	0.092	0.056	0.017	0.003	0.0	0.0	

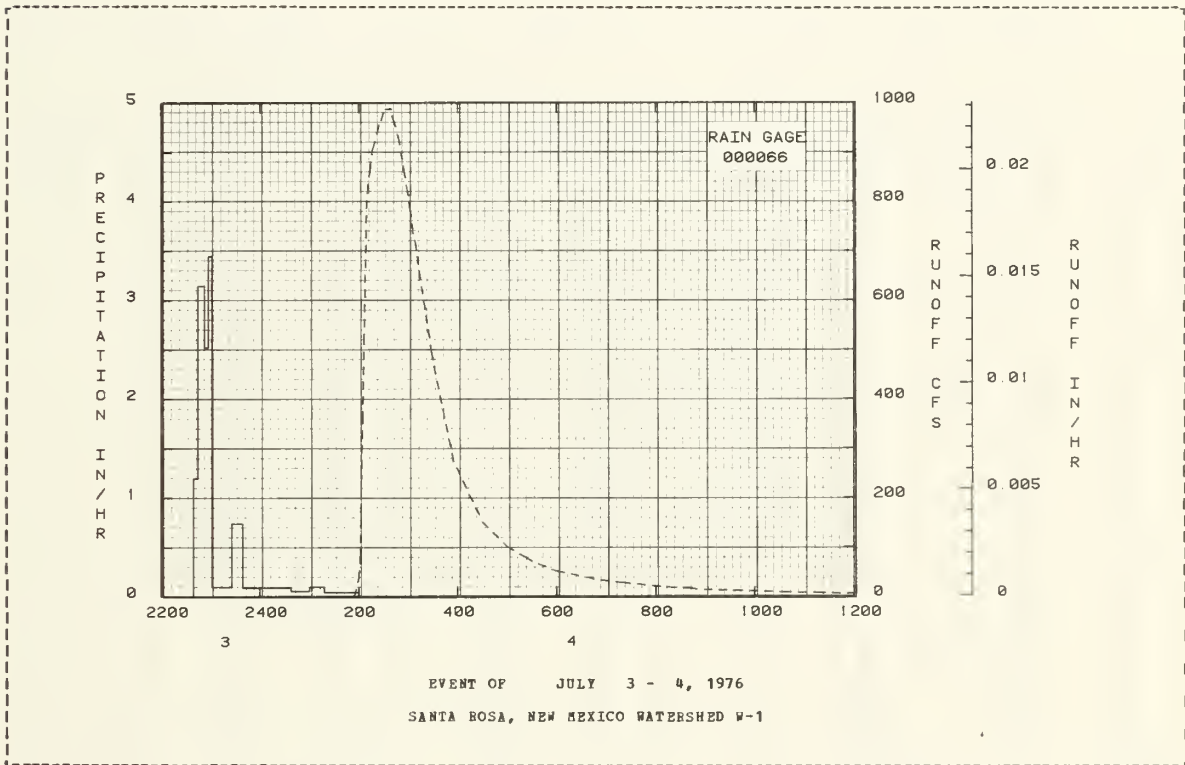
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000555. Runoff records began in 1955. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT			SANTA ROSA, NEW MEXICO WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 3 - 4, 1976										
	RG 000066			RG 000066						
7- 3	0.0		7- 3	2240	0.0	0.0	7- 4	10	0.0	0.0
7- 4		0.0		2245	1.2000	0.10		12	0.032	0.0
				2249	3.1500	0.31		20	0.038	0.0
				2253	3.1500	0.52		25	0.044	0.0
				2258	2.5200	0.73		30	0.050	0.0
				2302	3.4500	0.96		50	0.027	0.0
				2326	0.1000	1.00		105	0.019	0.0
				2339	0.7385	1.16		130	0.014	0.0
				2400	0.0857	1.19		140	0.010	0.0
			7- 4	38	0.0947	1.25		154	0.010	0.0
				100	0.0545	1.27		155	0.600	0.0
				118	0.1000	1.30		200	37.641	0.0000
				200	0.0429	1.33		202	80.904	0.0001
								205	375.616	0.0003
								207	532.253	0.0007
								210	802.758	0.0015
								212	836.230	0.0021
								215	880.823	0.0031
								217	905.335	0.0038
								220	923.062	0.0048
								223	940.969	0.0059
								225	955.426	0.0066
								228	966.343	0.0078
								230	981.000	0.0085
								233	987.635	0.0096
								239	987.635	0.0119
								243	962.697	0.0134
								245	951.801	0.0142
								248	930.204	0.0153
								250	915.949	0.0160

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 3 - 4, 1976 (CONTINUED)										
							7- 4	255	863.529	0.0177
								300	812.725	0.0193
								304	770.000	0.0205
								305	750.561	0.0208
								310	703.111	0.0222
								315	642.383	0.0235
								330	480.000	0.0267
								355	273.250	0.0304
								430	150.213	0.0332
								500	100.144	0.0347
								530	70.654	0.0357
								600	50.563	0.0364
								645	35.004	0.0371
								720	27.214	0.0375
								805	19.645	0.0379
								825	17.445	0.0381
								840	16.200	0.0382
								850	14.609	0.0382
								945	11.057	0.0385

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.





REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River. Lat. 43 deg. 15 min. 49 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO WATERSHED W-1 (036068)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	1.68	2.55	1.63	1.12	0.76	1.23	0.74	0.87	1.48	0.73	0.09	0.13	13.06	P	1.68	2.55	1.63	1.12	0.76	1.23	0.74	0.87	1.48	0.73	0.09	0.13	13.06	
	Q	0.230	0.162	0.281	0.635	0.821	0.214	0.041	0.030	0.024	0.029	0.033	0.033	2.533	Q	0.230	0.162	0.281	0.635	0.821	0.214	0.041	0.030	0.024	0.029	0.033	0.033	2.533	
STA AV	P	2.84	1.56	2.09	1.60	0.90	1.59	0.48	0.90	0.90	1.67	1.92	2.16	18.42	P	2.84	1.56	2.09	1.60	0.90	1.59	0.48	0.90	0.90	1.67	1.92	2.16	18.42	
	Q	0.458	0.281	0.508	0.614	0.664	0.337	0.053	0.023	0.016	0.030	0.053	0.196	3.232	Q	0.458	0.281	0.508	0.614	0.664	0.337	0.053	0.023	0.016	0.030	0.053	0.196	3.232	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge 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.	
	1976	4-5	0.002	4-5	0.002	4-5	0.005	4-5	0.013	5-13	0.023	5-13	0.042	5-12	0.082	5-9

MAXIMUMS FOR PERIOD OF RECORD

12-23 1964	0.065	12-23 1964	0.064	12-23 1964	0.125	12-23 1964	0.270	12-23 1964	0.327	12-23 1964	0.453	12-23 1964	0.721	12-28 1965	1.313
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NOTES: Watershed conditions: Predominantly sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. For revised 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: 'Computed Actual' amounts from rain gage 116X91. Station average precipitation values are computed from 45 Thiessen weighted gages for record period 1968-75 and one gage for 1976. Station average runoff amounts are based on 1963-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles W.E. of watershed.

1976 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	25	12	37	17	31	12	39	23	74	33	77	40	69	41	78	59	93	50	78	44	60	37	45	16			
2	31	13	36	18	33	0	46	16	69	43	63	37	77	40	78	50	83	55	62	40	61	33	44	14			
3	32	16	51	18	31	1	56	30	62	39	65	37	94	44	76	51	91	47	56	40	63	33	45	19			
4	39	19	24	10	27	7	63	27	65	35	63	33	82	60	73	53	88	45	60	32	62	28	39	27			
5	40	30	17	5	33	8	64	31	63	42	73	37	90	51	75	46	90	50	66	30	62	29	40	19			
6	34	23	27	2	34	10	61	31	62	43	76	46	95	51	78	49	75	40	66	40	63	36	45	15			
7	41	25	36	10	38	13	61	26	71	38	78	49	90	60	66	47	63	35	67	33	65	36	53	26			
8	43	36	37	13	43	15	63	39	75	40	75	49	68	54	67	42	68	36	74	34	63	33	54	27			
9	40	17	38	20	48	21	56	36	77	49	75	43	65	51	73	43	76	34	75	38	55	29	34	22			
10	35	15	42	20	54	26	63	29	78	47	58	47	80	53	80	52	85	42	76	47	57	29	39	19			
11	43	33	52	17	33	26	54	36	65	39	67	45	87	54	83	50	74	57	68	44	53	24	41	15			
12	35	21	53	28	41	20	49	33	71	37	63	44	78	56	83	57	63	44	69	36	50	20	41	12			
13	32	17	52	23	49	33	50	24	90	40	55	37	80	46	84	49	68	38	72	32	50	16	41	16			
14	45	23	40	30	45	31	56	25	63	45	66	33	83	50	66	55	70	41	71	38	45	23	40	13			
15	50	40	39	28	46	25	50	27	67	34	79	37	91	50	62	48	64	52	66	35	50	30	42	13			
16	50	29	46	33	49	27	43	27	75	41	71	47	96	57	67	42	60	47	68	32	60	34	47	17			
17	35	26	45	29	57	30	51	25	68	46	72	45	81	61	69	45	58	46	55	30	60	29	46	14			
18	41	27	39	28	55	29	50	31	69	37	78	42	74	58	64	45	65	49	51	26	56	32	41	12			
19	37	22	33	27	37	26	55	25	76	37	86	50	83	53	74	41	65	45	55	19	50	26	39	10			
20	36	20	37	17	43	22	61	40	63	30	81	54	65	57	87	45	74	42	56	21	49	21	37	7			
21	37	14	39	13	53	30	51	27	72	33	69	51	84	51	83	57	72	45	66	29	52	21	38	16			
22	29	13	41	22	58	27	52	31	75	45	73	44	89	51	83	57	72	45	66	29	52	21	38	16			
23	34	23	50	27	43	29	57	27	79	43	70	46	94	55	75	53	72	46	54	28	50	22	40	17			
24	34	22	46	29	55	32	67	37	74	40	77	39	78	61	63	47	71	45	60	28	58	21	37	17			
25	37	20	50	39	41	25	41	32	67	41	70	35	85	55	85	50	70	44	44	36	48	26	40	18			
26	47	19	54	42	50	23	42	30	75	38	70	30	93	52	67	39	73	43	52	31	30	15	56	23			
27	55	27	52	30	39	24	51	34	94	50	84	37	84	56	74	38	75	44	54	27	26	2	44	16			
28	47	25	44	26	37	25	54	30	58	37	93	45	87	50	82	43	73	44	58	25	35	10	43	12			
29	43	22	30	24	44	25	60	27	69	31	96	61	83	56	89	47	76	44	54	28	44	20	38	11			
30	50	26			58	21	65	29	66	47	87	52	88	60	66	51	78	42	58	29	44	18	37	10			
31	45	21			60	29			67	41			86	61	90	51			60	30			31	8			
AV.	39	23	41	22	44	22	54	30	71	40	74	43	85	53	77	48	73	45	63	33	52	25	42	16			
MEAN	31.0		31.7		32.9		42.0		55.5		58.4		69.5		62.7		58.9		47.7		38.9		29.0				
STA AV	37	21	45	26	48	26	54	29	67	39	75	47	86	52	84	51	73	43	61	33	48	27	38	23			

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV values are based on 14 yr (1963-76) record period.

1976 DAILY PRECIPITATION (inches)												
REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.18	0.0	0.0
3	0.07	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.0
4	0.31	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.04
5	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.09	0.0	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.18	0.0	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.02
9	0.17	0.0	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.11
10	0.01	0.0	0.11	0.0	0.11	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.21	0.0	0.06	0.03	0.07	0.18	0.0	0.0	0.52	0.0	0.0	0.0
12	0.03	0.0	0.0	0.03	0.0	0.07	0.03	0.02	0.0	0.0	0.0	0.0
13	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.23	0.39	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	0.0
15	0.0	0.08	0.02	0.34	0.0	0.04	0.0	0.11	0.61	0.0	0.03	0.0
16	0.0	0.30	0.0	0.0	0.0	0.03	0.0	0.0	0.24	0.0	0.01	0.0
17	0.0	0.05	0.0	0.0	0.0	0.0	0.15	0.14	0.01	0.0	0.0	0.0
18	0.0	0.04	0.13	0.05	0.0	0.0	0.05	0.02	0.0	0.0	0.0	0.0
19	0.0	0.29	0.07	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	0.02	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.33	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
23	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
24	0.0	0.0	0.25	0.06	0.0	0.0	0.06	0.0	0.0	0.26	0.0	0.0
25	0.0	0.07	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0
26	0.0	0.0	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.01	0.02	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.24	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.69	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.03	0.0	0.21	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.10	0.0	0.14	0.0	0.0	0.0	0.0	0.0
TOTAL	1.68	2.55	1.63	1.12	0.76	1.23	0.74	0.87	1.46	0.73	0.09	0.18
STA AV	2.84	1.56	2.09	1.60	0.80	1.59	0.48	0.80	0.90	1.67	1.92	2.16

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at station 116X91. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMC-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (0/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 09 yr (1958-76) record period.

1976 DAILY PRECIPITATION (inches)												
REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.18	0.0	0.0
3	0.04	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.0
4	0.19	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.04
5	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.07	0.0	0.0	0.04	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.13	0.0	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.01
9	0.13	0.0	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.03
10	0.01	0.0	0.07	0.0	0.11	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.16	0.0	0.03	0.03	0.07	0.18	0.0	0.0	0.61	0.0	0.0	0.0
12	0.02	0.0	0.0	0.03	0.0	0.07	0.03	0.02	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.17	0.25	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	0.0
15	0.0	0.06	0.01	0.21	0.0	0.03	0.0	0.11	0.58	0.0	0.03	0.0
16	0.0	0.22	0.0	0.0	0.0	0.02	0.0	0.0	0.23	0.0	0.01	0.0
17	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.13	0.01	0.0	0.0	0.0
18	0.0	0.02	0.09	0.03	0.0	0.0	0.03	0.02	0.0	0.0	0.0	0.0
19	0.0	0.16	0.05	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	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.26	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
23	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
24	0.0	0.0	0.16	0.05	0.0	0.0	0.05	0.0	0.0	0.21	0.0	0.0
25	0.0	0.07	0.02	0.05	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0
26	0.0	0.0	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.01	0.01	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.58	0.15	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.37	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.09	0.0	0.12	0.0	0.0	0.0	0.0	0.0
TOTAL	1.17	1.76	1.01	0.87	0.71	1.19	0.58	0.86	1.43	0.64	0.09	0.14
STA AV												

NOTES: Values are amounts from unshielded recording gage 116491. STA AV values do not apply to unshielded rain gage records.

1976 DAILY PRECIPITATION (inches)												
REYNOLDS, IDAHO WATERSHED #1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.18	0.0	0.0
3	0.05	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.0
4	0.23	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.04
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.09	0.0	0.0	0.04	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.14	0.0	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.01
9	0.15	0.0	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.10
10	0.01	0.0	0.08	0.0	0.11	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.19	0.0	0.03	0.03	0.07	0.18	0.0	0.0	0.61	0.0	0.0	0.0
12	0.02	0.0	0.0	0.03	0.0	0.07	0.03	0.02	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.20	0.32	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	0.0
15	0.0	0.07	0.01	0.27	0.0	0.04	0.0	0.11	0.59	0.0	0.03	0.0
16	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0	0.24	0.0	0.01	0.0
17	0.0	0.04	0.0	0.0	0.0	0.0	0.12	0.13	0.01	0.0	0.0	0.0
18	0.0	0.03	0.11	0.04	0.0	0.0	0.03	0.02	0.0	0.0	0.0	0.0
19	0.0	0.21	0.06	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	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.39	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
23	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
24	0.0	0.0	0.20	0.05	0.0	0.0	0.05	0.0	0.0	0.24	0.0	0.0
25	0.0	0.07	0.02	0.05	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0
26	0.0	0.0	0.06	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.01	0.01	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.63	0.17	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.53	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.03	0.0	0.19	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.09	0.0	0.14	0.0	0.0	0.0	0.0	0.0
TOTAL	1.39	2.11	1.23	0.98	0.72	1.21	0.65	0.86	1.45	0.69	0.09	0.16
STA AV												

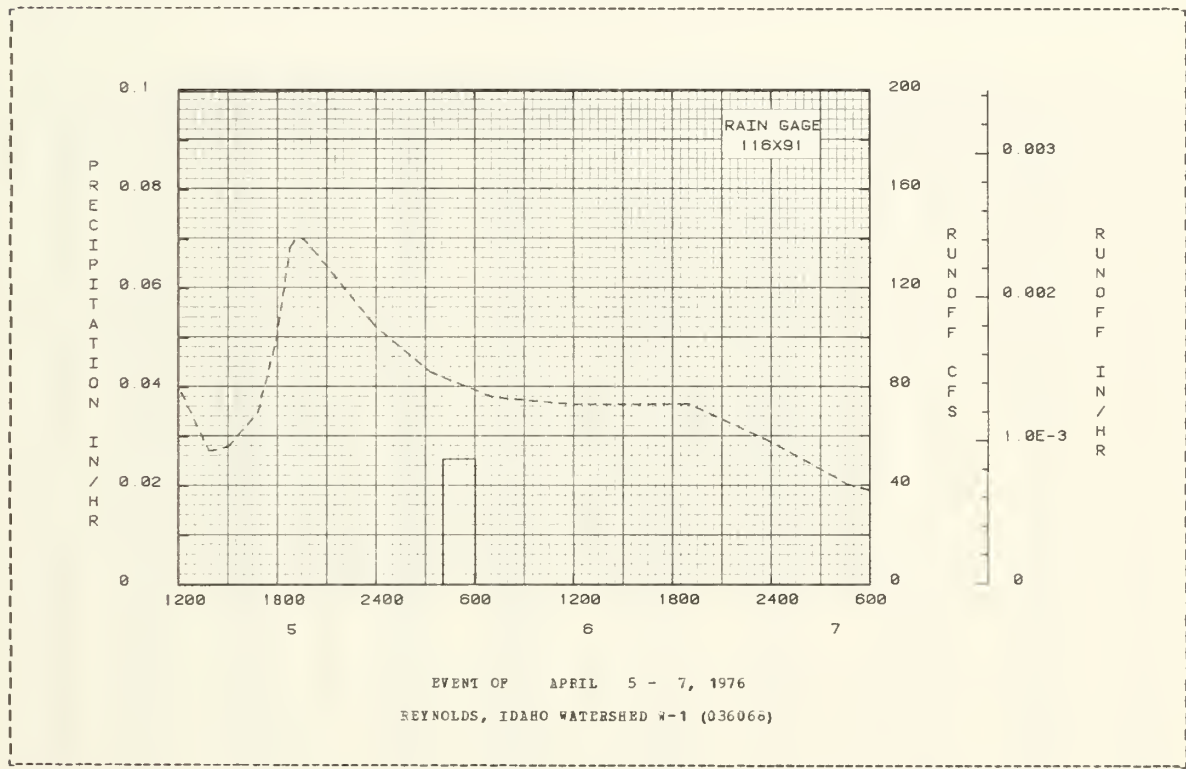
NOTES: Values are amounts from shielded recording gage 116591. STA AV values do not apply to shielded rain gage records.

1976 MEAN DAILY DISCHARGE (cfs)												
REYNOLDS, IDAHO WATERSHED #1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.082	12.372	18.867	58.641	48.263	29.998	4.537	2.197	1.636	1.864	2.598	2.044
2	5.777	13.726	5.076	45.699	65.213	26.981	5.322	3.576	1.784	2.051	2.530	2.003
3	10.966	14.833	6.551	33.126	66.641	25.207	5.197	3.338	1.343	2.153	2.563	2.570
4	16.575	6.174	6.766	71.486	66.106	23.020	4.666	2.743	1.499	2.106	2.541	2.462
5	33.149	3.631	6.694	86.541	68.943	22.206	4.696	2.385	1.312	2.059	2.617	2.021
6	15.757	5.663	7.905	75.911	72.137	21.069	3.394	2.323	1.330	2.024	2.578	2.266
7	15.496	5.920	10.018	70.928	74.420	20.327	2.453	2.239	1.394	2.051	2.594	2.993
8	50.239	15.638	16.032	96.063	77.640	19.274	3.116	2.269	1.226	2.920	2.584	2.947
9	22.064	18.017	13.872	87.237	81.673	19.279	3.564	2.227	1.226	1.963	2.584	2.875
10	15.127	12.527	19.171	84.412	85.745	21.137	3.637	2.071	1.226	1.959	2.648	2.375
11	15.025	10.349	17.203	65.629	89.118	32.098	3.857	1.839	4.307	1.992	2.584	2.389
12	13.676	11.011	16.446	57.697	92.059	22.139	4.270	1.702	2.148	2.063	2.479	2.194
13	12.917	11.152	18.367	53.430	99.087	23.145	4.470	1.531	1.874	2.094	2.421	3.015
14	14.244	12.776	21.603	48.796	98.809	21.660	4.297	2.596	1.874	2.078	2.936	2.665
15	30.002	10.878	20.886	44.567	89.788	20.819	3.832	2.750	1.921	2.090	2.769	2.691
16	34.898	13.894	23.090	40.524	84.839	20.951	3.209	2.695	2.719	2.174	2.985	2.877
17	27.171	11.980	35.355	36.088	80.034	19.865	2.872	2.647	2.601	2.157	3.038	2.793
18	22.914	10.524	42.922	32.950	75.594	18.342	3.104	2.771	2.513	2.186	2.939	2.631
19	18.801	10.298	22.844	30.373	69.042	15.727	2.393	2.533	2.458	2.190	2.939	2.476
20	16.819	9.901	23.423	33.572	67.230	13.284	2.813	2.273	2.274	2.259	2.914	2.414
21	14.936	6.932	23.794	31.605	61.727	11.410	2.848	2.158	2.220	2.297	2.860	2.334
22	15.191	9.031	27.197	32.768	49.083	10.915	2.165	2.461	2.253	2.314	2.932	2.639
23	16.987	10.708	26.743	28.858	47.242	9.585	1.935	2.486	2.022	2.334	2.811	2.760
24	15.019	10.622	31.253	34.291	46.676	9.396	2.022	2.235	2.100	2.315	2.758	2.594
25	15.308	11.300	26.060	40.702	38.424	9.273	2.064	1.994	2.093	3.154	2.759	2.939
26	16.599	19.269	24.139	40.006	33.296	8.239	2.077	1.978	2.090	3.055	2.313	2.893
27	14.575	22.741	24.101	39.465	33.577	6.722	1.637	1.939	2.079	2.715	2.156	2.759
28	12.595	50.205	22.404	39.308	35.262	5.929	2.117	1.974	1.974	2.671	2.477	2.671
29	12.391	27.581	27.495	38.545	31.014	5.673	2.045	1.978	1.872	2.715	3.043	2.671
30	12.290		37.920	39.226	28.754	4.543	1.528	1.740	1.860	2.767	2.754	2.671
31	12.257		54.055		32.237		2.264	1.721		2.822		2.671
MEAN	17.996	13.581	21.943	51.285	64.183	17.274	3.196	2.315	1.974	2.282	2.690	2.592
INCHES	0.230	0.162	0.281	0.635	0.821	0.214	0.041	0.030	0.024	0.029	0.033	0.033
STA AV	0.458	0.281	0.508	0.614	0.664	0.337	0.053	0.023	0.016	0.030	0.053	0.196

NOTES: To convert CFS to IN/DAY, multiply by 0.000413. STA AV values are based on 14 yr (1963-76) record period.

1976 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED #1 (036068)									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF APRIL 5 - 7, 1976												
4-6	RG 116X91 0.0		4-6	RG 116X91 405	0.0	0.0	4-5	1352	54.227	0.0		
4-5		0.048		603	0.0254	0.05		1502	56.122	0.0011		
								1650	70.043	0.0031		
								1758	39.400	0.0047		
								1848	136.963	0.0064		
WATERSHED CONDITIONS: The event is snowmelt runoff without rain.								1904	139.586	0.0070		
									1932	140.468	0.0081	
										2329	133.517	0.0103
										2400	104.378	0.0176
						4-6	318				86.065	0.0230
										706	75.721	0.0282
										1202	72.845	0.0345
										1302	72.845	0.0433
										2400	57.571	0.0489
						4-7	436				40.504	0.0528
							548	38.202	0.0536			
							708	37.626	0.0544			

NOTES: To convert CFS to IN/HR, multiply by 0.00001719.





REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south of Hampa; east flowing tributary to Reynolds Creek, Snake River Basin. Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	1.56	2.70	1.33	1.42	0.70	2.26	1.50	1.11	1.77	0.56	0.33	0.39	15.63	P	1.56	2.70	1.33	1.42	0.70	2.26	1.50	1.11	1.77	0.56	0.33	0.39	15.63	
	Q	0.347	0.211	0.405	0.560	0.209	0.099	0.015	0.013	0.030	0.052	0.058	0.048	2.048	Q	0.347	0.211	0.405	0.560	0.209	0.099	0.015	0.013	0.030	0.052	0.058	0.048	2.048	
STA AV	P	2.97	1.51	2.28	2.02	0.99	2.05	0.47	0.74	1.15	1.89	2.20	2.30	20.66	P	2.97	1.51	2.28	2.02	0.99	2.05	0.47	0.74	1.15	1.89	2.20	2.30	20.66	
	Q	0.690	0.359	0.611	0.521	0.314	0.129	0.026	0.028	0.020	0.053	0.089	0.171	3.010	Q	0.690	0.359	0.611	0.521	0.314	0.129	0.026	0.028	0.020	0.053	0.089	0.171	3.010	

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1976	Date	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					
1976	4-8	4-8	0.002	4-8	0.002	4-8	0.004	4-8	0.011	4-8	0.022	4-8	0.040	4-7	0.072	4-5	0.225
MAXIMUMS FOR PERIOD OF RECORD																	
	8-23	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		1965		1969		1965		1965		1965		1965	

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 68.2-7. Records began 1963. Precipitation: 'Computed Actual' amounts from rain gage 023X01. STA AV precipitation values are computed from 9 Thiessen weighted gages for record period (1968-75) and one gage for 1976. STA AV runoff values are based on record period (1966-76). For long-time precipitation, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1976 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.11	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0	1	0.0	0.0	0.11	0.0	0.0	0.02	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0				
3	0.11	0.07	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	3	0.11	0.07	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0				
4	0.22	0.03	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.06	4	0.22	0.03	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.06				
5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	5	0.23	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0				
6	0.04	0.0	0.0	0.03	0.07	0.0	0.0	0.02	0.0	0.0	0.0	0.0	6	0.04	0.0	0.0	0.03	0.07	0.0	0.02	0.0	0.0	0.0				
7	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.11	0.0	0.0	0.20	0.04	0.46	0.0	0.0	0.0	0.0	0.0	0.15	8	0.11	0.0	0.0	0.20	0.04	0.46	0.0	0.0	0.0	0.15				
9	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
10	0.0	0.0	0.15	0.0	0.01	0.76	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.15	0.0	0.01	0.76	0.0	0.0	0.0	0.0				
11	0.32	0.0	0.0	0.0	0.0	0.34	0.0	0.0	1.06	0.0	0.0	0.0	11	0.32	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0				
12	0.05	0.0	0.0	0.02	0.0	0.36	0.0	0.07	0.0	0.0	0.0	0.0	12	0.05	0.0	0.0	0.02	0.0	0.36	0.0	0.07	0.0	0.0				
13	0.0	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	0.0	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.08	0.13	0.20	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.16	0.0	14	0.08	0.13	0.20	0.0	0.0	0.0	0.0	0.02	0.0	0.16				
15	0.0	0.07	0.01	0.26	0.0	0.0	0.0	0.04	0.46	0.0	0.17	0.0	15	0.0	0.07	0.01	0.26	0.0	0.0	0.04	0.46	0.0	0.17				
16	0.0	0.19	0.0	0.0	0.0	0.11	0.0	0.0	0.23	0.0	0.0	0.0	16	0.0	0.19	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0				
17	0.0	0.01	0.0	0.0	0.0	0.0	0.22	0.04	0.0	0.0	0.0	0.0	17	0.0	0.01	0.0	0.0	0.0	0.0	0.22	0.04	0.0	0.0				
18	0.0	0.02	0.0	0.18	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	18	0.0	0.02	0.0	0.18	0.0	0.0	0.12	0.0	0.0	0.0				
19	0.0	0.77	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.77	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.03	0.03	0.0	0.02	0.45	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.03	0.03	0.0	0.02	0.45	0.0	0.0	0.0				
21	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.03	0.24	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	22	0.0	0.0	0.03	0.24	0.0	0.0	0.10	0.0	0.0	0.0				
23	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02	23	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.0	0.0	0.02				
24	0.0	0.0	0.14	0.06	0.01	0.0	0.05	0.0	0.0	0.25	0.0	0.0	24	0.0	0.0	0.14	0.06	0.01	0.0	0.05	0.0	0.25	0.0				
25	0.0	0.07	0.0	0.14	0.0	0.0	0.0	0.04	0.0	0.26	0.0	0.0	25	0.0	0.07	0.0	0.14	0.0	0.0	0.04	0.0	0.26	0.0				
26	0.0	0.0	0.11	0.22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	26	0.0	0.0	0.11	0.22	0.0	0.0	0.0	0.0	0.01	0.0				
27	0.0	0.0	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27	0.0	0.0	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.0				
28	0.0	0.62	0.41	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.62	0.41	0.0	0.34	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.53	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	29	0.0	0.53	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0				
30	0.0	0.0	0.0	0.0	0.11	0.0	0.19	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.0	0.11	0.0	0.19	0.0	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.11	0.0	0.46	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.11	0.0	0.46	0.0	0.0	0.0				
TOTAL	1.56	2.70	1.33	1.42	0.70	2.26	1.50	1.11	1.77	0.56	0.33	0.39	TOTAL	1.56	2.70	1.33	1.42	0.70	2.26	1.50	1.11	1.77	0.56	0.33	0.39		
STA AV	2.97	1.61	2.28	2.02	0.99	2.05	0.47	0.74	1.15	1.89	2.20	2.30	STA AV	2.97	1.61	2.28	2.02	0.99	2.05	0.47	0.74	1.15	1.89	2.20	2.30		

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WHO-IDHS Symposium, Gello, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

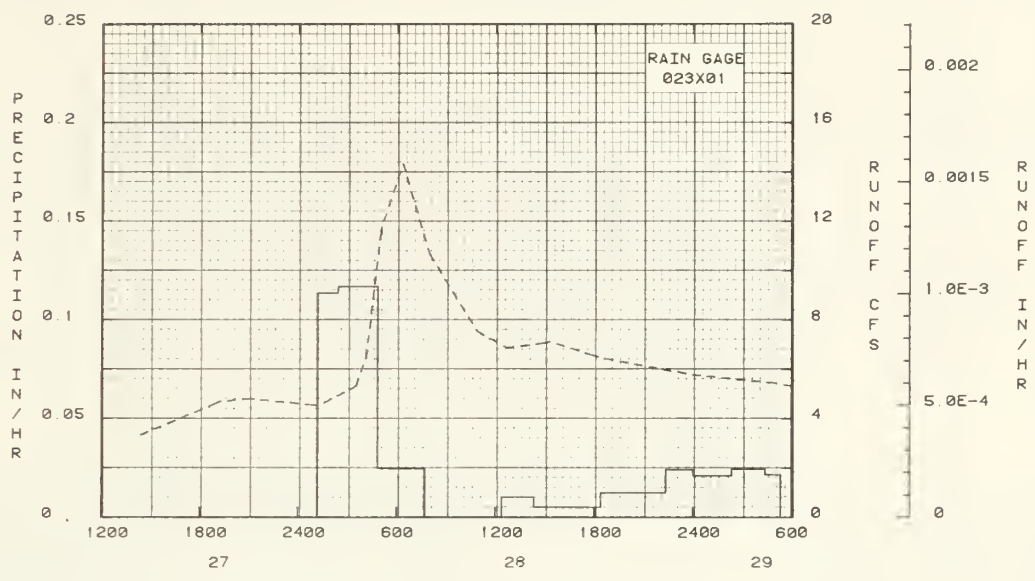
1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.06	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.0
3	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
4	0.10	0.31	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.02
5	0.11	0.3	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.03	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.05	0.0	0.0	0.17	0.01	0.44	0.0	0.0	0.0	0.0	0.0	0.05
9	0.05	0.01	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
10	0.0	0.0	0.08	0.0	0.01	0.59	0.0	0.0	0.0	0.0	0.0	0.0
11	0.12	0.0	0.0	0.0	0.0	0.26	0.0	0.0	1.03	0.0	0.0	0.0
12	0.02	0.0	0.0	0.02	0.0	0.22	0.0	0.06	0.0	0.0	0.0	0.0
13	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.03	0.07	0.10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.13	0.0
15	0.0	0.03	0.01	0.18	0.0	0.0	0.0	0.03	0.45	0.0	0.14	0.0
16	0.0	0.09	0.3	0.0	0.0	0.07	0.0	0.0	0.23	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.03	0.0	0.0	0.0	0.0
18	0.0	0.31	0.0	0.12	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
19	0.0	0.29	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.01	0.03	0.0	0.02	0.45	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.18	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0
23	0.0	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.0	0.07	0.03	0.01	0.0	0.05	0.0	0.0	0.19	0.0	0.0
25	0.0	0.34	0.0	0.09	0.0	0.0	0.0	0.03	0.0	0.20	0.0	0.0
26	0.0	0.3	0.05	0.13	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.35	0.20	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.36	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.10	0.0	0.19	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.10	0.0	0.46	0.0	0.0	0.0	0.0	0.0
TOTAL	0.68	1.32	0.65	0.99	0.60	1.81	1.49	1.05	1.73	0.44	0.27	0.15
STA AV												

NOTES: Values are amounts from unshielded recording gage 023401. STA AV values do not apply to unshielded rain gage records.

1976 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	0.05	0.0	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0
2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.0
3	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
4	0.15	0.32	0.3	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.04
5	0.17	0.3	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
6	0.03	0.0	0.0	0.03	0.04	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.05	0.3	0.0	0.19	0.02	0.45	0.0	0.0	0.0	0.0	0.0	0.10
9	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
10	0.0	0.3	0.11	0.0	0.01	0.67	0.0	0.0	0.0	0.0	0.0	0.0
11	0.22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.05	0.0	0.0	0.0
12	0.04	0.0	0.3	0.32	0.0	0.29	0.0	0.07	0.0	0.0	0.0	0.0
13	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.05	0.39	0.15	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.14	0.0
15	0.0	0.05	0.01	0.22	0.0	0.0	0.0	0.03	0.45	0.0	0.16	0.0
16	0.0	0.14	0.0	0.0	0.0	0.09	0.0	0.0	0.23	0.0	0.0	0.0
17	0.0	0.31	0.0	0.0	0.0	0.0	0.22	0.03	0.0	0.0	0.0	0.0
18	0.0	0.01	0.0	0.15	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
19	0.0	0.52	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.02	0.03	0.0	0.02	0.45	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.3	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.3	0.02	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0
23	0.0	0.0	0.06	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.3	0.10	0.04	0.01	0.0	0.05	0.0	0.0	0.22	0.0	0.0
25	0.0	0.05	0.0	0.12	0.0	0.0	0.0	0.03	0.0	0.23	0.0	0.0
26	0.0	0.0	0.08	0.17	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.47	0.29	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.48	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.10	0.0	0.19	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.11	0.0	0.46	0.0	0.0	0.0	0.0	0.0
TOTAL	1.13	1.36	0.96	1.20	0.64	2.03	1.50	1.07	1.75	0.50	0.30	0.26
STA AV												

NOTES: Values are amounts from shielded recording gage 023501. STA AV values do not apply to shielded rain gage records.





EVENT OF FEBRUARY 27 - 29, 1976  
REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)



REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin. Lat. 43 deg. 14 min. 42 sec. N.; Long. 116 deg. 45 min. 30 sec. W.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084)
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	1.55	2.66	1.11	1.45	0.60	1.54	0.84	1.81	1.64	0.97	0.45	0.21	14.83
	Q	0.346	0.249	0.513	0.740	0.177	0.092	0.026	0.024	0.023	0.039	0.050	0.043	2.320
STA AV	P	2.60	1.42	1.94	1.73	0.77	1.72	0.49	0.82	1.04	1.68	1.90	2.07	18.16
	Q	0.572	0.292	0.733	0.564	0.223	0.072	0.016	0.006	0.005	0.017	0.035	0.115	2.650

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.			
	2-28	0.004	2-28	0.004	2-28	0.008	2-28	0.019	4- 8	0.033	4- 8	0.061	4- 7	0.113	4- 5	0.362
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	2-27	1.015
	1969		1969		1969		1969		1969		1969		1969		1972	

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluebunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and haycrops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Records began 1963. Precipitation: 'Computed Actual' amounts from rain gage 053X93. Station average precipitation values are computed from 12 Thiessen weighted gages for record period 1968-75 and one gage for 1976. Station average streamflow values are based on 1963-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1976	DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO HACKS CREEK WATERSHED (046084)
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.01	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	1.49	0.0	0.12	0.0	0.0	0.0
3	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.0	0.0	0.0	0.0
4	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.03
5	0.26	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.05	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	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
8	0.21	0.0	0.0	0.28	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.07
9	0.08	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.08
10	0.02	0.0	0.07	0.0	0.04	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.19	0.0	0.0	0.06	0.01	0.20	0.0	0.0	0.91	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.06	0.0	0.17	0.02	0.09	0.0	0.0	0.0	0.0	0.0
13	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.31	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0
15	0.0	0.08	0.0	0.24	0.0	0.01	0.0	0.0	0.47	0.0	0.18	0.0	0.0
16	0.0	0.43	0.0	0.0	0.0	0.03	0.01	0.0	0.25	0.0	0.01	0.0	0.0
17	0.0	0.31	0.0	0.0	0.0	0.0	0.16	0.06	0.01	0.0	0.0	0.0	0.0
18	0.0	0.05	0.07	0.10	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
19	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
20	0.0	0.0	0.03	0.06	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0
21	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
22	0.0	0.0	0.03	0.33	0.0	0.0	0.02	0.08	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.41	0.0	0.0	0.0
25	0.0	0.14	0.0	0.06	0.0	0.01	0.0	0.0	0.0	0.42	0.0	0.0	0.0
26	0.0	0.0	0.13	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.51	0.22	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.54	0.03	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	0.03	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.11	0.0	0.09	0.0	0.0	0.02	0.0	0.0	0.0
TOTAL	1.55	2.66	1.11	1.45	0.60	1.54	0.84	1.81	1.64	0.97	0.45	0.21	
STA AV	2.60	1.42	1.94	1.73	0.77	1.72	0.49	0.82	1.04	1.68	1.90	2.07	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hanon, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1976 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	0.05	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	1.49	0.0	0.10	0.0	0.0
3	0.06	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0
4	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01
5	0.10	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.08	0.0	0.0	0.14	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.02
9	0.03	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.03
10	0.01	0.0	0.03	0.0	0.04	0.60	0.0	0.0	0.0	0.0	0.0	0.0
11	0.07	0.0	0.0	0.03	0.01	0.19	0.0	0.0	0.91	0.0	0.0	0.0
12	0.0	0.0	0.0	0.03	0.0	0.17	0.02	0.09	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.11	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0
15	0.0	0.33	0.0	0.14	0.0	0.01	0.0	0.0	0.47	0.0	0.09	0.0
16	0.0	0.17	0.0	0.0	0.0	0.03	0.01	0.0	0.25	0.0	0.01	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.06	0.01	0.0	0.0	0.0
18	0.0	0.32	0.03	0.06	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
19	0.0	0.10	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	0.01	0.04	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	0.21	0.0	0.0	0.02	0.08	0.0	0.0	0.0	0.0
23	0.0	0.0	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.06	0.0	0.0	0.0	0.05	0.0	0.0	0.22	0.0	0.0
25	0.0	0.05	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.22	0.0	0.0
26	0.0	0.0	0.05	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.33	0.09	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.43	0.01	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	0.02	0.0	0.23	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.08	0.0	0.09	0.0	0.0	0.01	0.0	0.0
TOTAL STA AV	0.59	1.29	0.47	0.85	0.55	1.48	0.82	1.81	1.64	0.55	0.32	0.09

NOTES: Values are amounts from unshielded recording gage 053493. STA AV values do not apply to unshielded rain gage records.

1976 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	0.05	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	1.49	0.0	0.10	0.0	0.0
3	0.10	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0
4	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.02
5	0.17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.03	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.13	0.0	0.0	0.21	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.04
9	0.05	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.05
10	0.01	0.0	0.05	0.0	0.04	0.62	0.0	0.0	0.0	0.0	0.0	0.0
11	0.12	0.0	0.0	0.04	0.01	0.20	0.0	0.0	0.91	0.0	0.0	0.0
12	0.0	0.0	0.0	0.04	0.0	0.17	0.02	0.09	0.0	0.0	0.0	0.0
13	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.20	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0
15	0.0	0.05	0.0	0.19	0.0	0.01	0.0	0.0	0.47	0.0	0.12	0.0
16	0.0	0.31	0.0	0.0	0.0	0.03	0.01	0.0	0.25	0.0	0.01	0.0
17	0.0	0.01	0.0	0.0	0.0	0.0	0.16	0.06	0.01	0.0	0.0	0.0
18	0.0	0.03	0.05	0.08	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
19	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.02	0.05	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.27	0.0	0.0	0.02	0.08	0.0	0.0	0.0	0.0
23	0.0	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.09	0.0	0.0	0.0	0.05	0.0	0.0	0.31	0.0	0.0
25	0.0	0.09	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.30	0.0	0.0
26	0.0	0.0	0.08	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.40	0.15	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.52	0.02	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	0.02	0.0	0.23	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.09	0.0	0.09	0.0	0.0	0.01	0.0	0.0
TOTAL STA AV	0.59	1.39	0.74	1.14	0.56	1.52	0.82	1.81	1.64	0.72	0.36	0.14

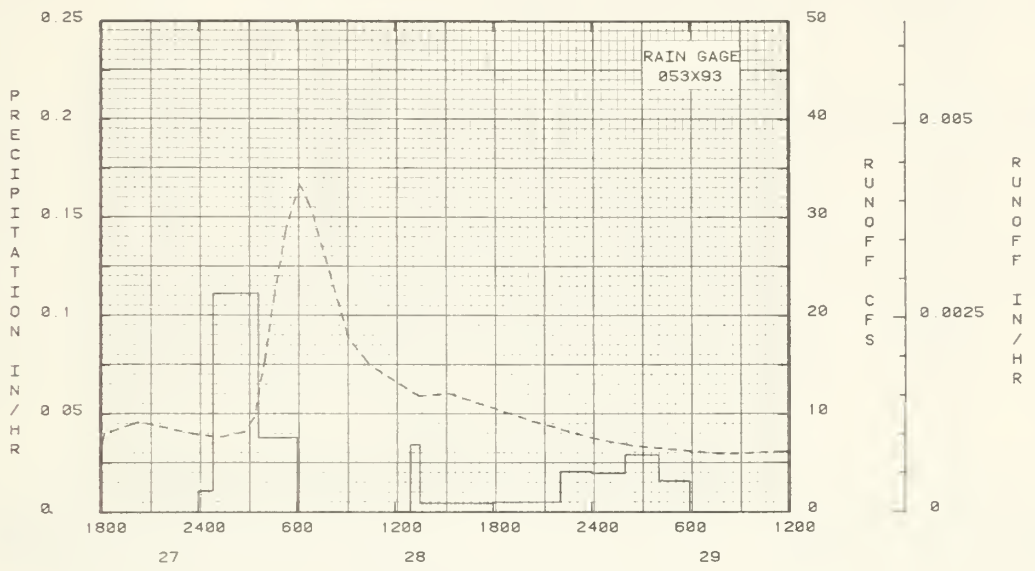
NOTES: Values are amounts from shielded recording gage 053593. STA AV values do not apply to shielded rain gage records.

1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.144	2.106	4.291	7.019	3.408	0.890	0.442	0.260	0.115	0.244	0.528	0.452
2	1.716	2.293	3.237	6.165	3.540	0.937	0.482	1.039	0.105	0.295	0.528	0.441
3	1.819	2.410	3.685	7.326	3.486	0.928	0.388	0.573	0.114	0.331	0.528	0.487
4	2.161	1.614	3.384	9.539	3.654	0.987	0.374	0.360	0.111	0.317	0.542	0.500
5	6.925	1.413	3.255	11.860	3.597	0.886	0.384	0.380	0.103	0.315	0.557	0.457
6	2.377	1.766	3.255	13.597	3.276	0.865	0.386	0.355	0.104	0.313	0.557	0.460
7	2.612	2.055	3.225	14.574	3.111	1.092	0.346	0.331	0.129	0.314	0.557	0.537
8	12.783	2.023	3.350	18.627	3.011	1.235	0.319	0.307	0.135	0.324	0.557	0.552
9	5.321	2.017	3.795	18.328	2.806	1.227	0.315	0.235	0.135	0.324	0.571	0.541
10	2.946	1.781	7.030	15.300	2.592	1.402	0.314	0.218	0.137	0.309	0.586	0.443
11	2.745	1.612	5.262	13.962	2.565	2.381	0.315	0.201	0.301	0.317	0.579	0.516
12	2.343	2.066	4.165	12.973	2.031	1.519	0.304	0.189	0.243	0.341	0.527	0.467
13	2.193	2.018	3.995	11.329	1.842	1.413	0.276	0.169	0.296	0.371	0.465	0.540
14	2.540	2.273	5.338	8.403	1.704	1.213	0.261	0.184	0.269	0.367	0.656	0.521
15	8.497	1.949	5.038	8.459	1.634	1.173	0.250	0.210	0.349	0.368	0.619	0.537
16	9.870	2.875	5.968	6.421	1.485	1.172	0.248	0.210	0.590	0.375	0.645	0.572
17	6.610	2.377	9.669	5.942	1.391	1.082	0.292	0.211	0.456	0.373	0.615	0.514
18	5.214	2.942	11.007	5.871	1.333	0.990	0.288	0.225	0.368	0.406	0.615	0.423
19	3.901	1.879	7.272	4.873	1.247	0.913	0.254	0.218	0.350	0.399	0.615	0.386
20	3.292	1.657	5.789	4.697	1.093	0.878	0.251	0.191	0.311	0.413	0.590	0.360
21	2.718	1.833	5.706	3.371	0.913	0.930	0.247	0.189	0.315	0.443	0.578	0.260
22	2.559	1.910	6.318	4.515	0.900	0.862	0.219	0.218	0.300	0.449	0.600	0.296
23	3.179	1.925	6.049	3.854	0.845	0.790	0.206	0.188	0.288	0.459	0.589	0.348
24	2.453	1.932	7.643	3.661	0.803	0.788	0.195	0.199	0.284	0.461	0.627	0.459
25	2.150	2.319	6.036	3.516	0.774	0.746	0.186	0.170	0.284	0.481	0.615	0.486
26	2.571	5.456	5.593	4.266	0.815	0.803	0.176	0.119	0.289	0.693	0.420	0.486
27	2.404	6.001	5.537	4.031	0.806	0.718	0.137	0.125	0.287	0.571	0.332	0.491
28	2.299	14.011	5.164	3.802	0.850	0.495	0.093	0.116	0.279	0.554	0.308	0.428
29	2.228	6.154	4.911	3.637	0.896	0.474	0.093	0.115	0.248	0.564	0.380	0.401
30	2.228		6.230	3.635	0.916	0.415	0.105	0.121	0.230	0.542	0.452	0.349
31	2.164		7.996		0.994		0.341	0.126		0.557		0.301
MEAN	3.6825	2.8325	5.4577	8.1258	1.8813	1.0067	0.2738	0.2500	0.2507	0.4159	0.5447	0.4521
INCHES	0.346	0.249	0.513	0.740	0.177	0.092	0.026	0.024	0.023	0.039	0.050	0.043
STA AV	0.572	0.292	0.733	0.564	0.223	0.072	0.016	0.006	0.005	0.017	0.035	0.115

NOTES: To convert CFS to IN/DAY, multiply by 0.003034. STA AV values are based on 14 yr (1963-76) record period.

1976 SELECTED RUNOFF EVENT REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)										
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 27 - 29, 1976										
2-27	RG 053X93 0.0	0.009	2-27	2353	0.0	0.0	2-27	1406	3.818	0.0
				2400	0.0	0.0		1448	4.005	0.0004
			2-28	54	0.0111	0.01		1604	5.269	0.0011
				341	0.1114	0.32		1818	8.044	0.0030
				603	0.0380	0.41		2022	9.234	0.0052
WATERSHED CONDITIONS: The event is combined rain and snowmelt.				1256	0.0	0.41		2400	7.864	0.0092
				1331	0.0343	0.43	2-28	124	7.687	0.0105
				1802	0.0044	0.45		250	8.231	0.0120
				2204	0.0050	0.47		326	9.670	0.0127
				2400	0.0207	0.51		406	16.186	0.0138
			2-29	202	0.0197	0.55		442	22.618	0.0152
				406	0.0290	0.61		524	29.202	0.0175
				600	0.0158	0.64		612	33.413	0.0206
								652	31.027	0.0234
								910	17.741	0.0305
								1026	15.009	0.0331
								1326	11.825	0.0382
								1516	12.075	0.0409
								2026	9.234	0.0479
								2400	7.515	0.0517
							2-29	230	6.720	0.0539
								802	5.886	0.0583

NOTES: To convert CFS to IN/HR, multiply by .00012640.



EVENT OF FEBRUARY 27 - 29, 1976  
 REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)



REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River. Lat. 42 deg. 8 min. 33 sec. N.; Long. 115 deg. 45 min. 42 sec. W.

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														
1976	P	3.65	3.31	2.49	2.11	0.63	1.44	0.70	1.53	1.49	1.13	0.22	0.24	19.44														
	Q	0.287	0.274	0.552	2.687	4.083	0.970	0.177	0.083	0.064	0.087	0.089	0.074	9.427														
STA AV	P	4.89	2.81	3.25	2.24	1.15	1.81	0.68	1.11	1.10	2.36	3.17	3.71	28.28														
	Q	0.753	0.495	1.194	1.912	3.701	1.760	0.311	0.061	0.042	0.096	0.156	0.245	10.727														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		5-10	0.010	5-10	0.010	5-10	0.019	5-10	0.056	5-10	0.107	5-10	0.201	5- 9	0.382	5- 7	1.409
MAXIMUMS FOR PERIOD OF RECORD																	
		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	5-12	1.970
		1969		1969		1969		1969		1969		1969		1969		1975	

NOTES: Watershed conditions - 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: 'Computed Actual' amounts from rain gage 155X07. Station average precipitation values are computed from 16 thiesten weighted gages for record period 1968-75 and one gage for 1976. Station average runoff amounts are based on 1967-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1976 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.04	0.0	0.04	0.0	0.0	0.0														
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.10	0.0	0.0	0.0														
3	0.0	0.21	0.0	0.0	0.08	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0														
4	0.62	0.02	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.03														
5	0.88	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0														
6	0.40	0.0	0.0	0.08	0.04	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0														
7	0.48	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	0.23	0.0	0.0	0.06	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.06														
9	0.23	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.13														
10	0.09	0.0	0.16	0.0	0.02	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
11	0.60	0.0	0.16	0.10	0.02	0.31	0.0	0.0	0.55	0.0	0.0	0.0	0.0														
12	0.08	0.0	0.0	0.08	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0	0.0														
13	0.0	0.08	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
14	0.02	0.39	0.36	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.13	0.0	0.0														
15	0.0	0.35	0.0	0.44	0.0	0.02	0.0	0.28	0.72	0.0	0.07	0.0	0.0														
16	0.0	0.52	0.0	0.0	0.0	0.06	0.0	0.0	0.19	0.0	0.01	0.0	0.0														
17	0.0	0.04	0.0	0.0	0.0	0.0	0.04	0.04	0.01	0.0	0.0	0.0	0.0														
18	0.0	0.08	0.25	0.09	0.0	0.0	0.13	0.02	0.02	0.0	0.0	0.0	0.0														
19	0.0	0.61	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
20	0.0	0.0	0.03	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0														
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	0.0														
22	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0														
23	0.02	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02														
24	0.0	0.0	0.45	0.16	0.0	0.0	0.07	0.0	0.0	0.44	0.0	0.0	0.0														
25	0.0	0.06	0.10	0.14	0.0	0.0	0.0	0.0	0.0	0.53	0.01	0.0	0.0														
26	0.0	0.02	0.13	0.28	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0														
27	0.0	0.0	0.05	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
28	0.0	0.73	0.29	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
29	0.0	0.80	0.02	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0														
30	0.0	0.0	0.0	0.0	0.07	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0														
31	0.0	0.0	0.0	0.0	0.14	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL	3.65	3.81	2.49	2.11	0.63	1.44	0.70	1.53	1.49	1.13	0.22	0.24	19.44														
STA AV	4.89	2.81	3.25	2.24	1.15	1.81	0.68	1.11	1.10	2.36	3.17	3.71	28.28														

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Gellio, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.04	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.10	0.0	0.0
3	0.0	0.01	0.0	0.0	0.05	0.0	0.0	0.15	0.0	0.0	0.0	0.0
4	0.31	0.0?	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.03
5	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
6	0.20	0.0	0.0	0.06	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0
7	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.14	0.0	0.0	0.05	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.03
9	0.14	0.0	0.0	0.0	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.08
10	0.35	0.0	0.09	0.0	0.02	0.62	0.0	0.0	0.0	0.0	0.0	0.0
11	0.37	0.0	0.06	0.07	0.02	0.29	0.0	0.0	0.49	0.0	0.0	0.0
12	0.05	0.0	0.0	0.06	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14	0.02	0.24	0.21	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.13	0.0
15	0.0	0.22	0.0	0.30	0.0	0.02	0.0	0.27	0.59	0.0	0.07	0.0
16	0.0	0.45	0.0	0.0	0.0	0.06	0.0	0.0	0.16	0.0	0.01	0.0
17	0.0	0.12	0.0	0.0	0.0	0.0	0.04	0.03	0.01	0.0	0.0	0.0
18	0.0	0.04	0.17	0.05	0.0	0.0	0.13	0.02	0.02	0.0	0.0	0.0
19	0.0	0.30	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
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	0.02	0.35	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
23	0.02	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.0	0.27	0.09	0.0	0.0	0.06	0.0	0.0	0.26	0.0	0.0
25	0.0	0.06	0.06	0.07	0.0	0.0	0.0	0.0	0.0	0.32	0.01	0.0
26	0.0	0.02	0.08	0.15	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.03	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.64	0.17	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.55	0.01	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.07	0.0	0.18	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.14	0.14	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL STA AV	1.98	2.62	1.50	1.50	0.56	1.40	0.68	1.38	1.27	0.73	0.22	0.16

NOTES: Values are amounts from unshielded recording gage 155407. STA AV values do not apply to unshielded rain gage records.

1976 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.04	0.0	0.04	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.10	0.0	0.0
3	0.0	0.11	0.0	0.0	0.06	0.0	0.0	0.15	0.0	0.0	0.0	0.0
4	0.45	0.02	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.03
5	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
6	0.31	0.0	0.0	0.08	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0
7	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.17	0.0	0.0	0.06	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.04
9	0.18	0.0	0.0	0.0	0.04	0.05	0.0	0.0	0.0	0.0	0.0	0.11
10	0.06	0.0	0.12	0.0	0.02	0.62	0.0	0.0	0.0	0.0	0.0	0.0
11	0.45	0.0	0.11	0.08	0.02	0.30	0.0	0.0	0.50	0.0	0.0	0.0
12	0.05	0.0	0.0	0.06	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0
13	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14	0.02	0.32	0.30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.13	0.0
15	0.0	0.31	0.0	0.37	0.0	0.02	0.0	0.28	0.65	0.0	0.07	0.0
16	0.0	0.54	0.0	0.0	0.0	0.06	0.0	0.0	0.18	0.0	0.01	0.0
17	0.0	0.14	0.0	0.0	0.0	0.0	0.04	0.03	0.01	0.0	0.0	0.0
18	0.0	0.17	0.21	0.05	0.0	0.0	0.13	0.02	0.02	0.0	0.0	0.0
19	0.0	0.47	0.04	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	0.06	0.0	0.0	0.0	0.0	0.0
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	0.03	0.35	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0
23	0.02	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
24	0.0	0.0	0.36	0.12	0.0	0.0	0.06	0.0	0.0	0.35	0.0	0.0
25	0.0	0.16	0.08	0.10	0.0	0.0	0.0	0.0	0.0	0.42	0.01	0.0
26	0.0	0.12	0.11	0.20	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.0	0.04	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.69	0.22	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.67	0.01	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.07	0.0	0.18	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.14	0.14	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL STA AV	2.69	3.29	1.95	1.73	0.58	1.41	0.68	1.45	1.36	0.92	0.22	0.20

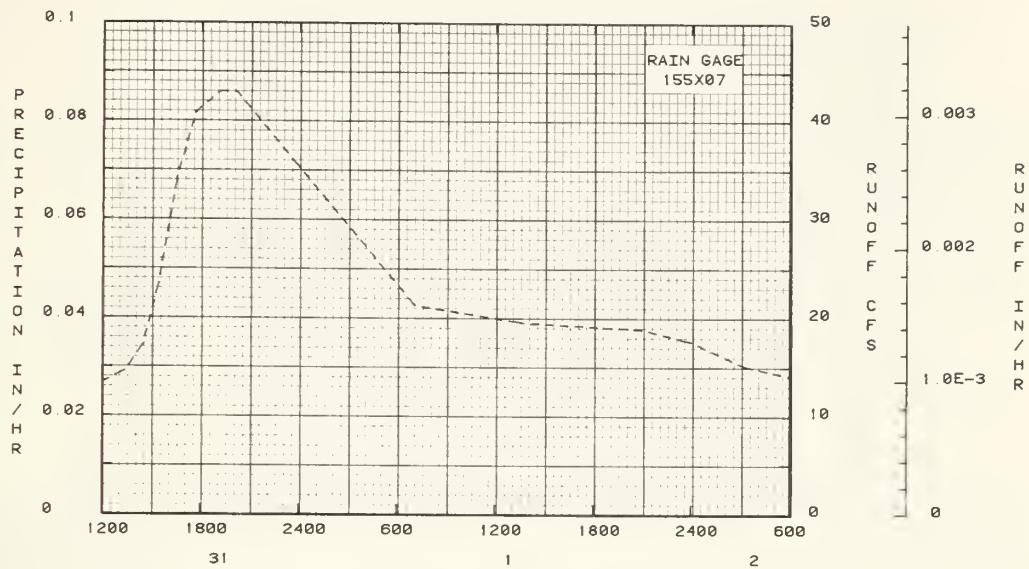
NOTES: Values are amounts from shielded recording gage 155507. STA AV values do not apply to shielded rain gage records.

1976		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.92	4.80	8.24	22.07	70.87	31.62	6.26	2.25	0.53	1.13	1.81	1.27
2	4.33	4.95	7.37	17.01	88.37	29.18	6.15	2.42	0.54	1.48	1.84	1.38
3	4.43	5.15	6.38	22.55	86.45	27.98	5.60	2.67	0.56	1.68	1.88	1.44
4	4.95	5.33	5.50	38.82	85.30	26.36	5.22	2.52	0.53	1.59	1.84	1.39
5	5.15	3.82	5.07	52.06	85.28	24.85	4.96	2.13	0.44	1.57	1.82	1.49
6	4.65	2.98	4.97	48.25	81.43	23.13	4.52	2.25	0.54	1.51	1.81	1.71
7	4.81	3.02	4.73	57.26	86.93	21.20	4.25	2.07	0.68	1.50	1.76	1.47
8	5.76	3.44	5.50	79.50	91.15	22.49	4.02	2.05	0.71	1.49	1.76	1.61
9	5.16	3.28	5.56	71.78	96.31	21.66	3.85	1.75	0.63	1.45	1.76	1.61
10	4.73	3.18	7.29	73.23	109.20	25.58	3.65	1.36	0.52	1.41	1.76	1.67
11	4.62	3.09	8.27	74.99	106.72	34.68	3.39	1.24	1.48	1.44	1.76	1.69
12	4.61	3.62	8.59	66.15	96.46	26.02	3.20	1.14	1.49	1.49	1.56	1.78
13	4.46	4.52	7.81	58.58	103.31	25.39	3.04	1.08	1.21	1.47	1.20	1.61
14	4.52	5.38	8.52	56.41	103.39	20.64	2.85	1.06	1.22	1.47	1.65	1.61
15	7.30	5.03	8.31	51.95	92.90	17.49	2.63	1.74	2.09	1.48	1.95	1.56
16	7.69	5.07	8.91	44.55	90.04	18.87	2.46	1.96	2.86	1.50	2.25	1.63
17	7.12	5.56	12.37	40.45	87.29	16.55	2.93	1.69	2.34	1.48	1.97	1.50
18	6.75	5.32	14.73	38.32	81.17	15.05	3.33	1.83	2.05	1.41	1.87	1.37
19	6.23	5.11	12.79	37.30	74.14	13.65	3.35	1.69	1.79	1.41	1.84	1.08
20	5.76	5.59	11.40	48.19	67.75	12.70	2.82	1.33	1.49	1.45	1.69	0.90
21	5.32	5.39	12.36	47.35	62.20	12.68	2.63	0.99	1.37	1.55	1.67	0.95
22	5.15	5.23	13.37	50.24	57.89	11.57	2.27	1.13	1.35	1.61	1.79	1.14
23	5.15	5.03	12.45	46.00	54.82	10.81	2.06	1.59	1.31	1.64	1.53	1.32
24	4.90	5.17	14.63	57.96	52.62	10.25	2.18	1.30	1.23	1.67	1.67	1.27
25	4.70	5.68	13.35	60.83	49.08	9.47	2.06	0.95	1.24	2.41	1.69	1.28
26	4.59	7.37	12.42	50.21	45.44	9.16	1.81	1.00	1.19	2.03	1.56	1.32
27	4.51	8.07	12.18	49.05	42.93	8.47	1.62	1.00	1.13	1.88	1.42	1.32
28	4.65	15.40	11.42	49.94	45.39	7.56	1.53	0.83	1.19	1.79	0.99	1.10
29	4.70	9.38	10.97	50.25	39.52	6.92	1.58	0.66	1.19	1.82	0.94	0.98
30	4.80		12.84	57.40	36.61	6.36	1.77	0.58	1.15	1.81	1.12	0.76
31	4.80		23.60		36.86		2.09	0.60		1.81		0.66
MEAN	5.233	5.340	10.060	50.620	74.445	18.278	3.228	1.512	1.201	1.595	1.672	1.351
INCHES	0.287	0.274	0.552	2.687	4.083	0.970	0.177	0.083	0.064	0.087	0.089	0.074
STA AV	0.753	0.495	1.194	1.912	3.701	1.760	0.311	0.061	0.042	0.096	0.156	0.245

NOTES: To convert CFS to IN/DAY, multiply by 0.001769. STA AV values are based on 10 yr (1967-76) record period.

1976		SELECTED RUNOFF EVENT					REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 31 - APRIL 2, 1976												
3-31		0.013					3-31		1200	13.418	0.0	
									1324	14.585	0.0015	
									1430	17.287	0.0027	
									1526	23.508	0.0041	
									1632	34.321	0.0065	
WATERSHED CONDITIONS: The event is snowmelt without rain.												
									1738	40.866	0.0095	
									1908	43.035	0.0142	
									2006	43.035	0.0172	
									2400	35.279	0.0285	
							4- 1		704	21.262	0.0432	
									1344	19.510	0.0532	
									2058	18.846	0.0635	
									2400	17.588	0.0675	
							4- 2		316	15.084	0.0715	

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



EVENT OF MARCH 31 - APRIL 2, 1976  
 REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

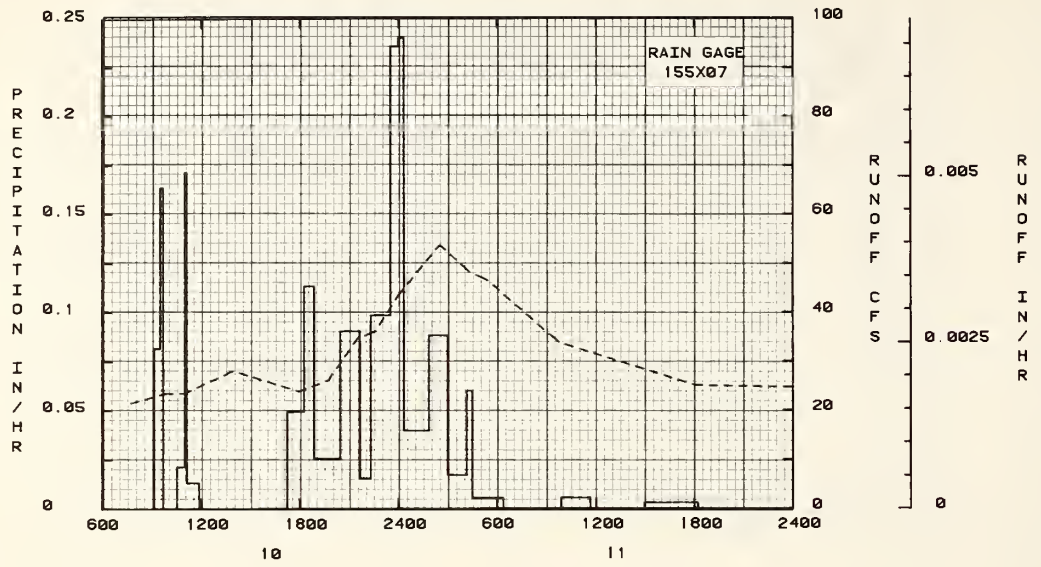
1976 SELECTED RUNOFF EVENT REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Painfall	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 10 - 11, 1976										
6-10	RG 155X07 0.03	0.012	6-10	EG 155X07 614	0.0	0.0	6-10	746	21.628	0.0
				910	0.0	0.0		950	23.508	0.0034
				932	0.0818	0.03		1058	23.508	0.0054
				943	0.1636	0.06		1356	28.097	0.0110
				1033	0.0	0.06		1756	23.892	0.0187
				1101	0.0214	0.07		1944	26.185	0.0220
				1108	0.1714	0.09		2132	34.798	0.0261
				1154	0.0130	0.10		2238	36.254	0.0290
				1715	0.0	0.10		2400	43.589	0.0330
				1816	0.0492	0.15	6-11	230	53.750	0.0419
				1853	0.1135	0.22		418	48.194	0.0487
				2027	0.0255	0.26		526	46.431	0.0527
				2140	0.0904	0.37		944	33.848	0.0654
				2219	0.0154	0.38		1802	25.045	0.0834
				2332	0.0986	0.50		2400	24.661	0.0943
			6-11	2400	0.2357	0.61				
				20	0.2400	0.69				
				151	0.0396	0.75				
				259	0.0882	0.85				
				410	0.0169	0.87				
				430	0.0600	0.89				
				623	0.0053	0.90				
				953	0.0	0.90				
				1140	0.0056	0.91				
				1457	0.0	0.91				
				1812	0.0031	0.92				

WATERSHED CONDITIONS:  
 The event is combined rain  
 and snowmelt.

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.





EVENT OF JUNE 10 - 11, 1976  
REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)



1976 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	0.10	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	0.64	0.0	0.08	0.0	0.0
3	0.07	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0
4	0.21	0.01	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.04
5	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.05	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.14	0.0	0.0	0.17	0.02	0.47	0.0	0.0	0.0	0.0	0.0	0.03
9	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
10	0.0	0.0	0.06	0.0	0.03	0.68	0.0	0.0	0.0	0.0	0.0	0.0
11	0.13	0.0	0.0	0.01	0.0	0.29	0.0	0.0	1.09	0.0	0.0	0.0
12	0.02	0.0	0.0	0.04	0.0	0.27	0.0	0.08	0.0	0.0	0.0	0.0
13	0.0	0.06	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.08	0.10	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.15	0.0
15	0.0	0.04	0.01	0.16	0.0	0.01	0.0	0.0	0.38	0.0	0.11	0.0
16	0.0	0.10	0.0	0.0	0.0	0.13	0.0	0.0	0.27	0.0	0.02	0.0
17	0.0	0.01	0.0	0.0	0.0	0.0	0.15	0.02	0.0	0.0	0.0	0.0
18	0.0	0.01	0.06	0.08	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
19	0.0	0.25	0.03	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	0.03	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.20	0.0	0.01	0.0	0.08	0.0	0.0	0.0	0.0
23	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
24	0.0	0.0	0.11	0.03	0.0	0.0	0.04	0.0	0.0	0.25	0.0	0.0
25	0.0	0.05	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0
26	0.0	0.0	0.04	0.09	0.0	0.0	0.0	0.0	0.0	0.02	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	0.41	0.16	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.40	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	0.03	0.0	0.29	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.10	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
TOTAL	1.01	1.43	0.58	0.95	0.47	2.07	1.03	0.96	1.76	0.59	0.28	0.13
STA AV												

NOTES: Values are amounts from unshielded recording gage 033476. STA AV values do not apply to unshielded rain gage records.

1976 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	0.13	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	0.65	0.0	0.09	0.0	0.0
3	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0
4	0.30	0.01	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.04
5	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.07	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
7	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.20	0.0	0.0	0.18	0.02	0.49	0.0	0.0	0.0	0.0	0.0	0.05
9	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
10	0.0	0.0	0.10	0.0	0.03	0.68	0.0	0.0	0.0	0.0	0.0	0.0
11	0.17	0.0	0.0	0.01	0.0	0.29	0.0	0.0	1.09	0.0	0.0	0.0
12	0.02	0.0	0.0	0.04	0.0	0.27	0.0	0.08	0.0	0.0	0.0	0.0
13	0.0	0.09	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.12	0.17	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.17	0.0
15	0.0	0.06	0.02	0.19	0.0	0.01	0.0	0.0	0.39	0.0	0.12	0.0
16	0.0	0.14	0.0	0.0	0.0	0.13	0.0	0.0	0.29	0.0	0.02	0.0
17	0.0	0.02	0.0	0.0	0.0	0.0	0.16	0.04	0.0	0.0	0.0	0.0
18	0.0	0.01	0.08	0.10	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
19	0.0	0.33	0.04	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	0.04	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.26	0.0	0.01	0.0	0.13	0.0	0.0	0.0	0.0
23	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
24	0.0	0.0	0.17	0.04	0.0	0.0	0.04	0.0	0.0	0.34	0.0	0.0
25	0.0	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0
26	0.0	0.0	0.07	0.12	0.0	0.0	0.0	0.0	0.0	0.03	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	0.45	0.26	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.55	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	0.03	0.0	0.29	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.10	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0
TOTAL	1.39	1.64	1.06	1.14	0.47	2.09	1.06	1.04	1.79	0.79	0.31	0.17
STA AV												

NOTES: Values are amounts from shielded recording gage 033576. STA AV values do not apply to shielded rain gage records.

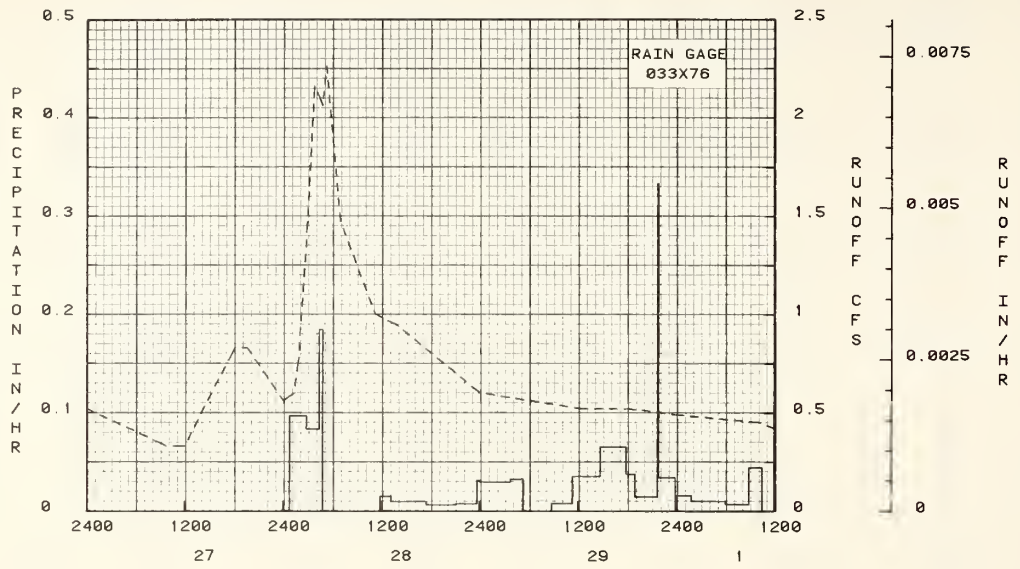
1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MDRPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.193	0.265	0.408	0.662	0.762	0.151	0.049	0.002	0.0	0.031	0.056	0.034
2	0.173	0.274	0.391	0.619	0.829	0.142	0.050	0.051	0.0	0.034	0.047	0.034
3	0.166	0.273	0.385	0.733	0.873	0.140	0.044	0.041	0.0	0.036	0.052	0.036
4	0.180	0.225	0.340	0.905	0.821	0.132	0.038	0.029	0.0	0.036	0.056	0.039
5	0.247	0.195	0.319	1.016	0.805	0.126	0.038	0.016	0.0	0.039	0.056	0.039
6	0.189	0.134	0.314	1.206	0.805	0.117	0.032	0.013	0.0	0.036	0.056	0.042
7	0.188	0.194	0.324	1.356	0.732	0.111	0.027	0.011	0.0	0.034	0.056	0.050
8	0.475	0.181	0.366	1.710	0.775	0.144	0.025	0.017	0.0	0.034	0.056	0.050
9	0.471	0.181	0.400	1.799	0.755	0.123	0.026	0.016	0.0	0.034	0.053	0.050
10	0.342	0.177	0.652	1.685	0.668	0.162	0.017	0.013	0.0	0.034	0.050	0.050
11	0.323	0.189	0.427	1.659	0.601	0.220	0.017	0.008	0.029	0.036	0.050	0.050
12	0.275	0.207	0.398	1.582	0.550	0.170	0.019	0.006	0.015	0.039	0.050	0.050
13	0.242	0.236	0.382	1.503	0.508	0.152	0.012	0.008	0.017	0.039	0.050	0.050
14	0.257	0.206	0.467	1.392	0.488	0.121	0.012	0.008	0.019	0.036	0.062	0.050
15	0.857	0.189	0.564	1.345	0.488	0.105	0.012	0.019	0.036	0.036	0.060	0.050
16	1.265	0.235	0.648	1.284	0.471	0.105	0.012	0.023	0.068	0.039	0.066	0.050
17	0.967	0.191	0.920	1.184	0.414	0.101	0.012	0.029	0.053	0.039	0.059	0.050
18	0.781	0.174	0.987	1.103	0.381	0.090	0.012	0.032	0.041	0.039	0.056	0.047
19	0.610	0.158	0.658	1.026	0.346	0.089	0.012	0.026	0.039	0.039	0.056	0.039
20	0.493	0.167	0.574	0.967	0.312	0.084	0.020	0.015	0.036	0.039	0.056	0.029
21	0.430	0.151	0.662	0.911	0.293	0.089	0.023	0.008	0.034	0.039	0.056	0.027
22	0.368	0.149	0.712	0.986	0.263	0.085	0.010	0.006	0.034	0.039	0.056	0.044
23	0.371	0.152	0.641	0.860	0.251	0.081	0.004	0.018	0.034	0.039	0.056	0.050
24	0.324	0.145	0.794	0.856	0.226	0.071	0.004	0.015	0.034	0.040	0.053	0.047
25	0.300	0.153	0.657	0.911	0.212	0.071	0.001	0.008	0.034	0.078	0.050	0.044
26	0.274	0.468	0.669	0.911	0.201	0.072	0.001	0.006	0.032	0.070	0.035	0.044
27	0.266	0.528	0.640	0.968	0.178	0.065	0.0	0.006	0.030	0.063	0.030	0.044
28	0.266	1.072	0.584	0.911	0.218	0.057	0.0	0.005	0.025	0.063	0.046	0.047
29	0.271	0.525	0.563	0.857	0.173	0.047	0.0	0.002	0.028	0.063	0.030	0.050
30	0.274		0.752	0.805	0.152	0.044	0.002	0.002	0.029	0.063	0.019	0.044
31	0.275		0.821		0.171		0.004	0.001		0.063		0.039
MEAN	0.3928	0.2564	0.5617	1.1239	0.4750	0.1089	0.0173	0.0149	0.0223	0.0436	0.0512	0.0442
INCHES	0.947	0.578	1.355	2.623	1.145	0.254	0.042	0.036	0.052	0.105	0.120	0.107
STA AV	1.465	0.810	1.832	1.902	1.134	0.340	0.062	0.009	0.009	0.062	0.142	0.386

NOTES: To convert CFS to IN/DAY, multiply by 0.077783. STA AV values are based on 10 yr (1967-76) record period.

1976 SELECTED RUNOFF EVENT REYNOLDS, IDAHO MDRPHY CREEK WATERSHED (043004)												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 26 - MARCH 1, 1976												
BG 033X76						BG 033X76						
2-28	0.0		2-28	46	0.0	0.0	2-26	2400	0.518	0.0		
2-26		0.036		250	0.0968	0.20	2-27	942	0.326	0.0133		
				424	0.0830	0.33		1158	0.326	0.0157		
				450	0.1846	0.41		1514	0.597	0.0205		
				1150	0.0	0.41		1806	0.831	0.0272		
WATERSHED CONDITIONS: The event is combined rain and snowmelt. The precipitation fell in the form of rain and snow.												
				1310	0.0150	0.43		1934	0.831	0.0311		
				1731	0.0092	0.47		2400	0.556	0.0411		
				2102	0.0057	0.49		118	0.597	0.0435		
				2341	0.0075	0.51	2-28	154	0.780	0.0449		
				2400	0.0316	0.52		256	1.465	0.0486		
			2-29	346	0.0292	0.63		344	2.159	0.0533		
				519	0.0323	0.68		444	2.063	0.0602		
				844	0.0	0.68		512	2.259	0.0634		
				1119	0.0077	0.70		656	1.465	0.0739		
				1442	0.0355	0.82		1110	0.996	0.0908		
				1755	0.0653	1.03		1356	0.939	0.0994		
				1859	0.0375	1.07		2400	0.597	0.1245		
				2143	0.0146	1.11	2-29	1216	0.518	0.1467		
				2152	0.3333	1.16		1806	0.518	0.1565		
				2355	0.0341	1.23		2400	0.488	0.1661		
				2400	0.0	1.23	3- 1	1018	0.455	0.1818		
			3- 1	153	0.0159	1.26						
				600	0.0097	1.30						
				855	0.0069	1.32						
				1030	0.0442	1.39						

NOTES: To convert CFS to IN/HR, multiply by 0.003241.





EVENT OF FEBRUARY 26 - MARCH 1, 1976  
 REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa, north flowing tributary to the east fork of Reynolds Creek, Snake River Basin. Lat. 43 deg. 4 min. 16 sec. N.; Long. 116 deg. 45 min. 27 sec. W.

AREA: 100.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	6.96	7.05	3.97	2.74	1.00	1.70	0.74	1.42	1.78	1.42	0.45	0.36	29.59												
	Q	0.342	0.245	0.253	3.035	13.605	2.907	0.344	0.174	0.135	0.157	0.154	0.060	21.412												
STA AV	P	7.53	4.77	4.78	3.26	1.48	2.02	0.74	1.17	1.18	2.93	4.41	5.89	40.15												
	Q	0.397	0.304	0.621	2.459	10.782	5.305	0.620	0.106	0.071	0.145	0.239	0.228	21.278												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1976	5-13	0.046	5-13	0.044	5-13	0.088	5-13	0.256	5-13	0.466	5-13	0.802	5-13	1.477	5- 9	5.376

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
6- 2	0.092	6- 2	0.079	6- 2	0.143	6- 2	0.400	6- 2	0.692	6- 2	1.117	6- 1	2.013	5-30	7.174
1975		1975		1975		1975		1975		1975		1975		1975	

NOTES: Watershed conditions: Rangeland watershed with seasonal grazing of cattle and sheep. Scrub aspen, willow, scattered Douglas fir, and sagebrush with natural mountain meadows. Vegetative cover varies with annual precipitation. Type of cover is 32% shrub and brush, 17% grass and forbes, and 9% rock and rock fragments. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68. 13-4. Records started: Precipitation-1963; Runoff-1966. Precipitation: 'Computed Actual' amounts from rain gage 176107. Station average precipitation values are based on 1964-76 record period. STA AV runoff values are based on 1966-76 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1976 DAILY AVE TEMPERATURE (degrees F)													REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
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	15	11	42	33	23	3	23	14	53	39	59	31	59	34	63	51	81	61	66	47	51	41	47	29	
2	17	6	44	33	19	1	30	13	53	37	51	31	65	45	65	51	77	54	50	35	55	43	46	33	
3	21	17	35	11	22	6	40	23	43	32	48	29	75	53	65	47	75	55	46	32	55	42	46	31	
4	27	17	11	-3	17	4	42	34	46	31	51	31	73	55	59	45	79	60	50	32	59	45	34	24	
5	27	17	6	-5	19	4	46	38	45	29	58	36	79	57	63	43	79	61	56	37	58	46	31	19	
6	17	12	19	4	32	14	38	26	42	27	63	49	80	64	62	45	61	47	54	39	58	46	33	22	
7	27	13	39	19	35	17	42	31	52	36	63	47	75	58	65	39	53	32	59	43	57	46	39	30	
8	28	27	35	29	40	20	43	29	56	44	60	42	77	57	59	41	55	37	64	50	55	42	41	25	
9	27	14	30	18	37	22	33	24	58	43	59	41	75	56	64	44	67	46	69	53	51	39	25	17	
10	21	12	31	16	39	19	45	31	58	37	45	36	79	60	70	51	75	57	63	47	47	37	29	15	
11	26	21	40	30	19	11	42	29	47	25	53	35	77	53	71	56	63	48	54	40	43	34	42	29	
12	23	10	40	30	27	10	32	25	59	33	47	37	65	47	69	55	56	41	59	40	39	32	48	36	
13	25	9	45	27	32	24	38	22	71	49	43	29	70	48	71	51	57	43	67	49	44	30	47	31	
14	30	24	28	21	29	19	40	22	55	31	53	31	72	53	53	43	61	47	62	49	35	29	41	29	
15	36	29	25	22	33	16	36	13	50	26	63	45	77	57	47	37	54	45	57	44	37	29	42	29	
16	46	33	31	24	36	32	26	13	61	39	55	41	83	62	50	35	55	43	57	42	47	37	47	33	
17	40	31	32	20	42	33	35	17	56	40	59	41	65	53	54	41	49	40	44	30	53	41	47	31	
18	31	19	26	15	36	17	33	23	56	38	65	45	60	49	51	43	51	43	42	25	47	37	39	27	
19	31	17	23	16	17	14	39	20	57	29	75	57	69	47	63	43	54	43	45	33	43	33	35	27	
20	41	27	22	15	27	13	43	28	49	25	69	53	73	55	75	54	65	48	54	34	47	32	39	25	
21	44	29	29	15	37	22	39	22	56	35	58	41	73	58	79	61	60	47	56	42	49	37	37	23	
22	38	28	35	25	39	20	32	25	57	45	57	39	76	59	73	48	63	47	52	37	46	34	37	26	
23	29	17	37	29	29	18	42	20	61	43	58	34	79	58	60	47	63	49	47	33	48	31	31	19	
24	20	14	29	22	36	19	47	27	58	41	62	35	66	51	69	50	61	47	50	35	46	35	23	12	
25	23	15	31	25	22	15	27	17	50	31	55	31	73	53	71	40	61	45	32	27	37	17	39	23	
26	31	21	37	29	31	16	24	17	58	35	59	29	81	59	55	34	61	45	34	29	18	7	43	28	
27	37	30	37	30	21	13	31	24	65	36	71	51	75	57	63	41	65	50	41	27	17	5	34	22	
28	44	33	30	18	24	15	35	23	45	29	79	67	77	57	71	53	64	52	49	34	27	10	47	25	
29	43	37	30	21	27	14	33	29	56	29	77	63	72	59	77	60	66	53	45	36	35	19	43	32	
30	36	27			39	21	46	33	49	37	69	45	77	57	75	59	67	52	49	35	41	25	35	23	
31	48	29			41	23			47	33			73	53	76	59			47	41			27	16	
Av.	31	21	31	20	30	16	37	24	54	35	59	41	73	54	65	47	63	48	52	38	45	33	39	26	
MEAN	25.8		25.7		23.0		30.3		44.5		50.2		63.8		56.1		55.6		45.2		38.8		32.1		
STA AV	28	19	32	21	33	21	37	23	52	36	63	44	73	54	71	52	61	43	47	33	37	27	29	20	

NOTES: Temperature data are taken from hygrothermograph record at station 176X14. STA AV values are based on 1966-76 record period.

1976 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	0.21	0.0	0.0	0.0	0.0	0.07	0.0	0.10	0.0	0.0
2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.39	0.0	0.08	0.0	0.0
3	0.08	0.0	0.0	0.0	0.07	0.0	0.0	0.02	0.0	0.0	0.0	0.0
4	1.37	0.11	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07
5	1.41	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
6	0.62	0.0	0.0	0.20	0.10	0.0	0.0	0.03	0.0	0.0	0.0	0.0
7	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.84	0.04	0.0	0.10	0.11	0.05	0.0	0.0	0.0	0.0	0.0	0.08
9	0.28	0.04	0.0	0.0	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.18
10	0.0	0.0	0.20	0.0	0.06	0.94	0.0	0.0	0.0	0.0	0.0	0.0
11	0.86	0.0	0.18	0.18	0.05	0.32	0.0	0.0	0.88	0.0	0.0	0.0
12	0.08	0.0	0.0	0.17	0.0	0.25	0.06	0.01	0.01	0.0	0.0	0.0
13	0.0	0.18	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.03	0.66	0.49	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.25	0.0
15	0.0	0.84	0.0	0.49	0.0	0.03	0.0	0.25	0.65	0.0	0.18	0.0
16	0.0	1.73	0.0	0.0	0.0	0.08	0.01	0.0	0.19	0.0	0.01	0.0
17	0.0	0.08	0.0	0.02	0.0	0.0	0.08	0.03	0.02	0.0	0.0	0.0
18	0.0	0.20	0.51	0.17	0.0	0.0	0.19	0.05	0.03	0.0	0.0	0.0
19	0.0	0.92	0.17	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.07	0.03	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.04	0.56	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0
23	0.02	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	1.12	0.08	0.0	0.0	0.10	0.0	0.0	0.16	0.0	0.0
25	0.0	0.18	0.15	0.11	0.0	0.0	0.0	0.0	0.0	1.06	0.01	0.0
26	0.0	0.38	0.18	0.18	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0
27	0.0	0.34	0.04	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.94	0.56	0.02	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	1.31	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.09	0.0	0.07	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.18	0.18	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.96	7.05	3.97	2.74	1.00	1.70	0.74	1.42	1.78	1.42	0.45	0.36
STA AV	7.53	4.77	4.78	3.26	1.48	2.02	0.74	1.17	1.18	2.93	4.41	5.89

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 176107. 'Actual' amounts were computed as per relationship developed by W. P. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e (U/A) = \log_e (U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period.

1976 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	0.21	0.0	0.0	0.0	0.0	0.07	0.0	0.08	0.0	0.0
2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.39	0.0	0.07	0.0	0.0
3	0.04	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.0	0.0	0.0
4	0.73	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07
5	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
6	0.25	0.0	0.0	0.10	0.07	0.0	0.0	0.03	0.0	0.0	0.0	0.0
7	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.46	0.31	0.0	0.05	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.03
9	0.15	0.01	0.0	0.0	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.05
10	0.0	0.0	0.09	0.0	0.06	0.93	0.0	0.0	0.0	0.0	0.0	0.0
11	0.47	0.0	0.09	0.09	0.05	0.31	0.0	0.0	0.88	0.0	0.0	0.0
12	0.04	0.0	0.0	0.09	0.0	0.25	0.06	0.01	0.01	0.0	0.0	0.0
13	0.0	0.10	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.03	0.34	0.23	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.19	0.0
15	0.0	0.41	0.0	0.29	0.0	0.03	0.0	0.24	0.65	0.0	0.14	0.0
16	0.0	0.83	0.0	0.0	0.0	0.08	0.01	0.0	0.19	0.0	0.01	0.0
17	0.0	0.04	0.0	0.01	0.0	0.0	0.08	0.03	0.02	0.0	0.0	0.0
18	0.0	0.10	0.21	0.11	0.0	0.0	0.17	0.05	0.03	0.0	0.0	0.0
19	0.0	0.46	0.07	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.03	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.41	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0
23	0.02	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.50	0.07	0.0	0.0	0.10	0.0	0.0	0.09	0.0	0.0
25	0.0	0.09	0.06	0.09	0.0	0.0	0.0	0.0	0.0	0.57	0.01	0.0
26	0.0	0.04	0.09	0.15	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.02	0.02	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.50	0.27	0.02	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.69	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.08	0.0	0.07	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.16	0.16	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.60	3.67	1.93	1.85	0.84	1.68	0.72	1.39	1.78	0.82	0.35	0.18
STA AV												

NOTES: Values are amounts from unshielded recording gage 176407. STA AV values do not apply to unshielded rain gage records.

1976 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	0.21	0.0	0.0	0.0	0.0	0.07	0.0	0.09	0.0	0.0
2	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.39	0.0	0.07	0.0	0.0
3	0.05	0.0	0.0	0.0	0.06	0.0	0.0	0.02	0.0	0.0	0.0	0.0
4	1.04	0.06	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07
5	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
6	0.42	0.0	0.0	0.15	0.07	0.0	0.0	0.03	0.0	0.0	0.0	0.0
7	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.64	0.02	0.0	0.08	0.09	0.05	0.0	0.0	0.0	0.0	0.0	0.05
9	0.21	0.02	0.0	0.0	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.10
10	0.0	0.0	0.14	0.0	0.06	0.93	0.0	0.0	0.0	0.0	0.0	0.0
11	0.66	0.0	0.15	0.14	0.05	0.31	0.0	0.0	0.88	0.0	0.0	0.0
12	0.05	0.0	0.0	0.14	0.0	0.25	0.06	0.01	0.01	0.0	0.0	0.0
13	0.0	0.13	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.03	0.50	0.36	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.22	0.0
15	0.0	0.51	0.0	0.39	0.0	0.03	0.0	0.25	0.65	0.0	0.15	0.0
16	0.0	1.25	0.0	0.0	0.0	0.08	0.01	0.0	0.19	0.0	0.01	0.0
17	0.0	0.07	0.0	0.02	0.0	0.0	0.08	0.03	0.02	0.0	0.0	0.0
18	0.0	0.16	0.33	0.15	0.0	0.0	0.18	0.05	0.03	0.0	0.0	0.0
19	0.0	0.71	0.11	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.05	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.02	0.43	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0
23	0.02	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
24	0.0	0.0	0.77	0.08	0.0	0.0	0.10	0.0	0.0	0.12	0.0	0.0
25	0.0	0.14	0.12	0.09	0.0	0.0	0.0	0.0	0.0	0.81	0.01	0.0
26	0.0	0.07	0.15	0.16	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
27	0.0	0.03	0.03	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.70	0.42	0.02	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.37	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.09	0.0	0.07	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.16	0.16	0.17	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.14	5.35	2.91	2.32	0.87	1.68	0.73	1.40	1.78	1.10	0.39	0.25
STA AV												

NOTES: Values are amounts from shielded recording gage 176507. STA AV values do not apply to shielded rain gage records.

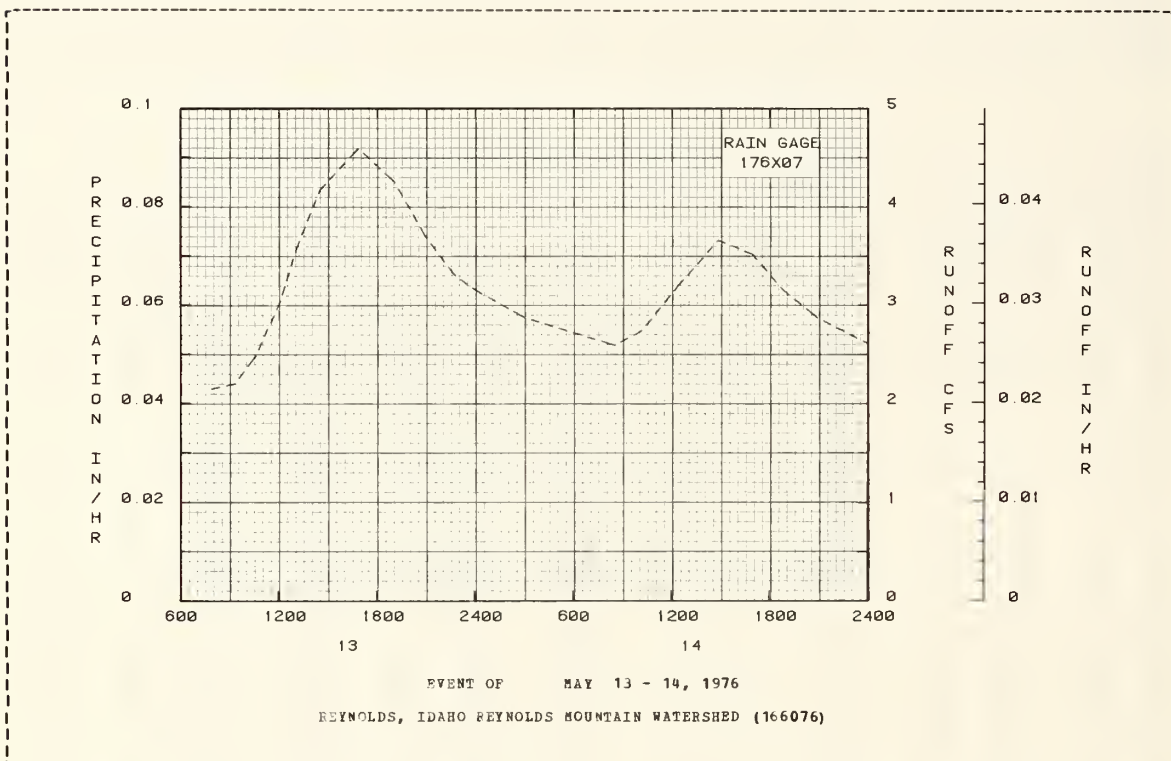
1976 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.057	0.040	0.033	0.060	1.542	0.744	0.095	0.035	0.010	0.021	0.033	0.003
2	0.057	0.038	0.033	0.049	2.022	0.685	0.090	0.047	0.010	0.022	0.034	0.003
3	0.054	0.038	0.032	0.051	1.532	0.636	0.084	0.034	0.010	0.022	0.030	0.004
4	0.052	0.035	0.032	0.072	1.553	0.581	0.078	0.036	0.010	0.020	0.029	0.006
5	0.050	0.039	0.032	0.126	1.693	0.552	0.070	0.028	0.009	0.020	0.027	0.006
6	0.048	0.039	0.032	0.175	1.496	0.538	0.064	0.028	0.011	0.019	0.026	0.006
7	0.048	0.038	0.033	0.216	2.198	0.515	0.059	0.026	0.013	0.020	0.025	0.006
8	0.049	0.036	0.034	0.490	2.219	0.503	0.057	0.026	0.012	0.020	0.024	0.008
9	0.049	0.035	0.035	0.562	2.326	0.487	0.052	0.025	0.012	0.019	0.024	0.010
10	0.048	0.035	0.036	0.609	3.046	0.660	0.049	0.021	0.013	0.019	0.023	0.009
11	0.047	0.034	0.035	0.707	2.747	0.897	0.049	0.019	0.051	0.019	0.023	0.009
12	0.047	0.034	0.034	0.504	2.665	0.615	0.053	0.018	0.015	0.020	0.019	0.009
13	0.046	0.034	0.033	0.432	3.143	0.500	0.045	0.018	0.016	0.020	0.016	0.010
14	0.045	0.034	0.033	0.484	3.003	0.423	0.042	0.023	0.017	0.018	0.019	0.010
15	0.046	0.034	0.032	0.455	2.627	0.394	0.037	0.037	0.045	0.017	0.029	0.010
16	0.046	0.034	0.031	0.333	2.699	0.418	0.035	0.028	0.041	0.019	0.043	0.011
17	0.046	0.035	0.035	0.286	2.546	0.372	0.044	0.027	0.026	0.018	0.028	0.011
18	0.045	0.035	0.037	0.262	2.203	0.345	0.054	0.031	0.025	0.017	0.026	0.011
19	0.045	0.035	0.034	0.279	1.505	0.323	0.041	0.026	0.022	0.018	0.023	0.011
20	0.045	0.035	0.034	0.567	1.654	0.297	0.039	0.017	0.020	0.020	0.022	0.010
21	0.045	0.035	0.034	0.605	1.477	0.277	0.034	0.013	0.019	0.021	0.024	0.008
22	0.045	0.034	0.034	0.476	1.319	0.240	0.030	0.027	0.019	0.022	0.022	0.008
23	0.045	0.034	0.034	0.426	1.334	0.216	0.026	0.024	0.019	0.020	0.018	0.008
24	0.044	0.034	0.034	0.752	1.280	0.197	0.054	0.020	0.019	0.020	0.020	0.008
25	0.042	0.034	0.034	0.832	1.176	0.172	0.027	0.017	0.019	0.021	0.017	0.008
26	0.040	0.033	0.034	0.503	1.085	0.161	0.023	0.017	0.018	0.025	0.007	0.008
27	0.039	0.033	0.034	0.418	1.052	0.139	0.021	0.016	0.017	0.026	0.004	0.007
28	0.041	0.033	0.033	0.412	1.058	0.121	0.020	0.013	0.017	0.027	0.003	0.007
29	0.041	0.033	0.032	0.602	0.889	0.107	0.022	0.012	0.017	0.029	0.003	0.008
30	0.040	0.033	0.035	0.964	0.822	0.099	0.022	0.011	0.017	0.030	0.003	0.008
31	0.041	0.033	0.048	0.844	0.844	0.029	0.029	0.011	0.017	0.029	0.003	0.008
MEAN	0.0464	0.0355	0.0342	0.4250	1.8438	0.4072	0.0466	0.0236	0.0190	0.0213	0.0216	0.0081
INCHES	0.342	0.245	0.253	3.035	13.605	2.907	0.344	0.174	0.135	0.157	0.154	0.060
STA AV	0.397	0.304	0.621	2.459	10.782	5.305	0.620	0.106	0.071	0.145	0.239	0.228

NOTES: To convert CFS to IN/DAY, multiply by 0.238017. STA AV values are based on 11 yr (1966-76) record period.



1976 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)									
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
			EVENT OF MAY 13 - 14, 1976									
5-13	0.146						5-13	755	2.147	0.0		
								920	2.198	0.0242		
								1035	2.484	0.0473		
								1205	3.041	0.0799		
								1305	3.583	0.1059		
WATERSHED CONDITIONS: The event is strictly snowmelt.								1430	4.169	0.1492		
									1650	4.593	0.2296	
										1905	4.237	0.3078
										2100	3.683	0.3675
										2245	3.298	0.4156
										2400	3.154	0.4474
							5-14	300	2.870	0.5185		
								830	2.590	0.6367		

NOTES: To convert CFS to IN/HR, multiply by 0.009917.



REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa, Idaho; a tributary to Reynolds Creek, a tributary to the Snake River. Lat. 43 deg. 3 min. 53 sec. N.; Long. 116 deg. 44 min. 14 sec. W.

AREA: 33.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.89	1.77	0.96	1.16	0.58	1.21	0.85	0.83	1.46	0.31	0.08	0.18	10.28			1.21	0.85	0.83	1.46	0.31	0.08	0.18	10.28	
	Q	0.003	0.167	0.329	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.554			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.554	
STA AV	P	1.72	0.87	1.51	1.19	0.68	1.30	0.41	0.69	0.82	1.33	1.25	1.37	13.13			1.30	0.41	0.69	0.82	1.33	1.25	1.37	13.13	
	Q	0.123	0.100	0.134	0.022	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.380			0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.380	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976		3-17	0.009	3-17	0.008	3-17	0.016	3-17	0.042	3-17	0.065	3-16	0.086	2-26	0.137	3-10	0.219

MAXIMUMS FOR PERIOD OF RECORD																	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
		1-22	0.063	1-22	0.053	1-22	0.097	1-22	0.205	1-22	0.291	1-22	0.328	1-20	0.379	1-18	0.518
		1972		1972		1972		1972		1972		1972		1972		1972	

NOTES: Watershed conditions: Watershed is entirely sagebrush rangeland used almost exclusively for cattle grazing. Vegetation consists of bluebunch wheatgrass, Sandberg bluegrass, cheatgrass, yarrow, 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, 1967, USDA Misc. Pub. 1252, p. 68.014-6. Records began: Precipitation-1963; Runoff-1967. Precipitation: 'Computed Actual' amounts from rain gauge 127X07. Station average precipitation values are based on 1968-76 record period. Station average runoff values are based on 1967-76 record period. For longtime precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1976 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO LOWER SHEEP 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	8	43	27	25	10	32	20	55	45	67	38	61	40	69	55	85	63	71	50	58	46	43	33	
2	27	15	45	31	22	10	39	20	59	43	55	35	70	47	72	52	75	39	55	38	66	46	46	33	
3	29	19	45	19	21	9	51	31	53	39	55	34	84	58	68	52	73	56	51	35	56	43	46	33	
4	33	25	19	5	20	9	56	37	54	37	55	33	77	61	64	49	82	60	50	32	58	45	39	29	
5	33	24	10	2	27	14	60	40	53	37	64	43	86	60	68	48	84	65	60	40	60	48	36	23	
6	24	19	24	4	30	17	48	33	52	33	68	52	87	66	68	48	68	39	57	41	58	47	43	27	
7	34	21	32	17	33	20	53	35	60	40	70	50	81	63	58	44	55	33	63	43	60	42	50	33	
8	35	33	43	27	35	21	56	34	64	49	67	48	83	61	61	44	60	39	67	50	58	46	50	33	
9	34	18	37	21	42	25	49	30	63	48	65	46	82	60	65	48	69	43	72	55	52	43	32	22	
10	31	18	36	20	46	26	56	36	68	39	49	40	81	58	71	54	69	43	70	52	54	40	34	22	
11	34	26	45	34	26	19	48	35	55	32	58	39	81	57	75	57	77	56	60	44	49	37	41	29	
12	29	17	46	34	36	16	45	33	62	36	53	39	71	52	74	55	56	44	62	44	45	35	38	28	
13	33	28	51	32	39	33	44	27	79	51	48	32	72	49	78	56	61	44	67	50	45	31	47	31	
14	39	32	34	25	35	27	45	27	61	37	57	33	76	55	60	47	62	48	66	50	43	34	43	33	
15	46	38	30	26	41	23	44	21	57	31	70	45	83	57	53	40	58	47	60	46	45	37	43	31	
16	46	37	36	28	45	36	37	20	68	44	61	45	90	65	54	40	54	44	63	45	56	44	43	30	
17	42	26	37	24	53	40	45	24	60	42	63	44	74	65	59	40	50	44	51	34	62	46	42	31	
18	35	25	33	24	47	25	45	29	59	41	70	47	67	61	54	46	55	45	46	31	54	42	46	32	
19	33	22	29	21	28	20	45	27	66	36	78	60	76	54	65	44	57	47	50	30	47	36	35	27	
20	30	22	27	20	38	20	53	33	56	30	73	55	78	60	80	54	70	46	52	35	45	35	35	23	
21	31	21	31	20	47	28	45	24	64	41	61	46	75	59	84	63	63	50	56	42	45	35	39	27	
22	37	22	39	19	51	31	44	31	67	51	64	40	81	61	79	51	64	49	60	42	48	37	37	30	
23	35	25	44	28	39	25	52	27	70	49	63	38	87	65	66	51	63	48	49	37	47	35	37	25	
24	29	21	40	29	47	27	59	33	67	45	68	40	71	55	73	51	63	49	58	38	55	39	33	17	
25	32	21	41	34	33	23	34	24	59	39	61	35	79	56	77	43	63	49	38	36	44	23	47	31	
26	42	31	47	37	44	26	32	23	66	39	63	32	87	62	60	35	66	49	46	34	25	11	51	35	
27	50	39	45	33	33	21	41	29	76	43	76	49	78	60	66	43	68	53	48	32	21	9	39	29	
28	44	33	38	22	31	24	45	29	53	34	86	59	80	58	75	52	69	50	53	38	31	15	39	28	
29	44	33	35	21	38	22	52	34	61	34	87	69	75	63	82	61	70	55	49	41	41	23	37	28	
30	45	31			52	31	58	36	58	45	78	51	80	58	80	60	71	54	54	39	49	34	34	23	
31	43	31			52	31			58	39			76	57	80	67			55	46			28	19	
AV.	35	25	37	24	37	23	47	29	62	40	65	44	78	58	69	50	66	49	57	41	49	36	40	28	
MEAN	30.4		30.2		30.1		38.4		51.0		54.5		68.3		59.5		57.6		48.9		42.7		34.4		
STA AV	33	23	39	27	42	28	47	31	61	41	69	49	81	60	73	57	67	49	53	37	42	30	34	23	

NOTES: Temperature data taken from hygrothermograph record at Station 127X07. STA AV values are based on 10 yr (1967-76) record period.

REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)												
1976	DAILY PRECIPITATION (inches)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.10	0.0	0.0
3	0.03	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0
4	0.13	0.03	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04
5	0.11	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.03	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
7	0.05	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	0.03	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.01
9	0.32	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.13
10	0.0	0.0	0.05	0.0	0.01	0.71	0.0	0.0	0.0	0.0	0.0	0.0
11	0.16	0.0	0.0	0.03	0.06	0.19	0.0	0.0	0.56	0.0	0.0	0.0
12	0.05	0.0	0.0	0.02	0.0	0.10	0.03	0.13	0.0	0.0	0.0	0.0
13	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.08	0.18	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.04	0.0
15	0.0	0.03	0.0	0.19	0.0	0.01	0.0	0.05	0.69	0.0	0.03	0.0
16	0.0	0.18	0.0	0.0	0.0	0.02	0.03	0.0	0.18	0.0	0.01	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.03	0.02	0.0	0.0	0.0
18	0.0	0.03	0.08	0.11	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0
19	0.0	0.29	0.07	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	0.02	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.20	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	0.02	0.16	0.04	0.0	0.0	0.07	0.0	0.0	0.15	0.0	0.0
25	0.01	0.03	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
26	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.03	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.37	0.16	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.66	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.13	0.0	0.21	0.0	0.0	0.0	0.0	0.0
TOTAL	0.89	1.77	0.96	1.16	0.58	1.21	0.85	0.83	1.46	0.31	0.08	0.18
STA AV	1.77	0.87	1.51	1.19	0.68	1.30	0.41	0.69	0.82	1.33	1.25	1.37

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) 127X07. 'Actual' amounts were computed as per relationship developed by W. B. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is:  $\log_e(U/A) = \log_e(U/S) \times 1.80$ , where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 9 yr (1968-76) record period.

REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)												
1976	DAILY PRECIPITATION (inches)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.09	0.0	0.0
3	0.01	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0
4	0.05	0.03	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04
5	0.04	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	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	0.03	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.01
9	0.12	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07
10	0.0	0.0	0.03	0.0	0.01	0.68	0.0	0.0	0.0	0.0	0.0	0.0
11	0.06	0.0	0.0	0.03	0.06	0.18	0.0	0.0	0.56	0.0	0.0	0.0
12	0.02	0.0	0.0	0.02	0.0	0.10	0.03	0.13	0.0	0.0	0.0	0.0
13	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.08	0.10	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.04	0.0
15	0.0	0.03	0.0	0.08	0.0	0.01	0.0	0.05	0.69	0.0	0.03	0.0
16	0.0	0.18	0.0	0.0	0.0	0.02	0.03	0.0	0.18	0.0	0.01	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.03	0.02	0.0	0.0	0.0
18	0.0	0.01	0.05	0.04	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0
19	0.0	0.09	0.04	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	0.01	0.0	0.0	0.07	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	0.02	0.19	0.0	0.0	0.0	0.20	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	0.01	0.07	0.02	0.0	0.0	0.05	0.0	0.0	0.13	0.0	0.0
25	0.01	0.02	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
26	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.01	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.25	0.06	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.46	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.13	0.0	0.21	0.0	0.0	0.0	0.0	0.0
TOTAL	0.34	1.21	0.50	0.60	0.58	1.16	0.81	0.83	1.46	0.28	0.08	0.12
STA AV												

NOTES: Values are amounts from unshielded recording gage 127407. STA AV values do not apply to unshielded rain gage records.

1976		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.09	0.0	0.0	
3	0.02	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
4	0.09	0.03	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04	
5	0.04	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
7	0.04	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	0.03	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.01	
9	0.21	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
10	0.0	0.0	0.04	0.0	0.01	0.69	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.11	0.0	0.0	0.03	0.06	0.18	0.0	0.0	0.56	0.0	0.0	0.0	
12	0.04	0.0	0.0	0.02	0.0	0.10	0.03	0.13	0.0	0.0	0.0	0.0	
13	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.08	0.13	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.04	0.0	
15	0.0	0.33	0.0	0.13	0.0	0.01	0.0	0.05	0.69	0.0	0.03	0.0	
16	0.0	0.18	0.0	0.0	0.0	0.02	0.03	0.0	0.18	0.0	0.01	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.03	0.02	0.0	0.0	0.0	
18	0.0	0.02	0.06	0.07	0.0	0.0	0.16	0.02	0.0	0.0	0.0	0.0	
19	0.0	0.18	0.05	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	0.01	0.0	0.0	0.09	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	0.02	0.29	0.0	0.0	0.0	0.20	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	0.01	0.10	0.04	0.0	0.0	0.05	0.0	0.0	0.14	0.0	0.0	
25	0.01	0.02	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
26	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.02	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.30	0.10	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.56	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.13	0.0	0.21	0.0	0.0	0.0	0.0	0.0	
TOTAL STA AV	0.63	1.46	0.66	0.88	0.58	1.18	0.83	0.83	1.46	0.29	0.08	0.15	

NOTES: Values are amounts from shielded recording gage 127507. STA AV values do not apply to shielded rain gage records.

1976		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.003	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.001	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.044	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0 T	0.006	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.004	0.002	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0 T	0.0 T	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.043	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.070	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.091	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.011	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN INCHES STA AV	0.0001	0.0180	0.0147	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.003	0.167	0.329	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.123	0.100	0.134	0.022	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	

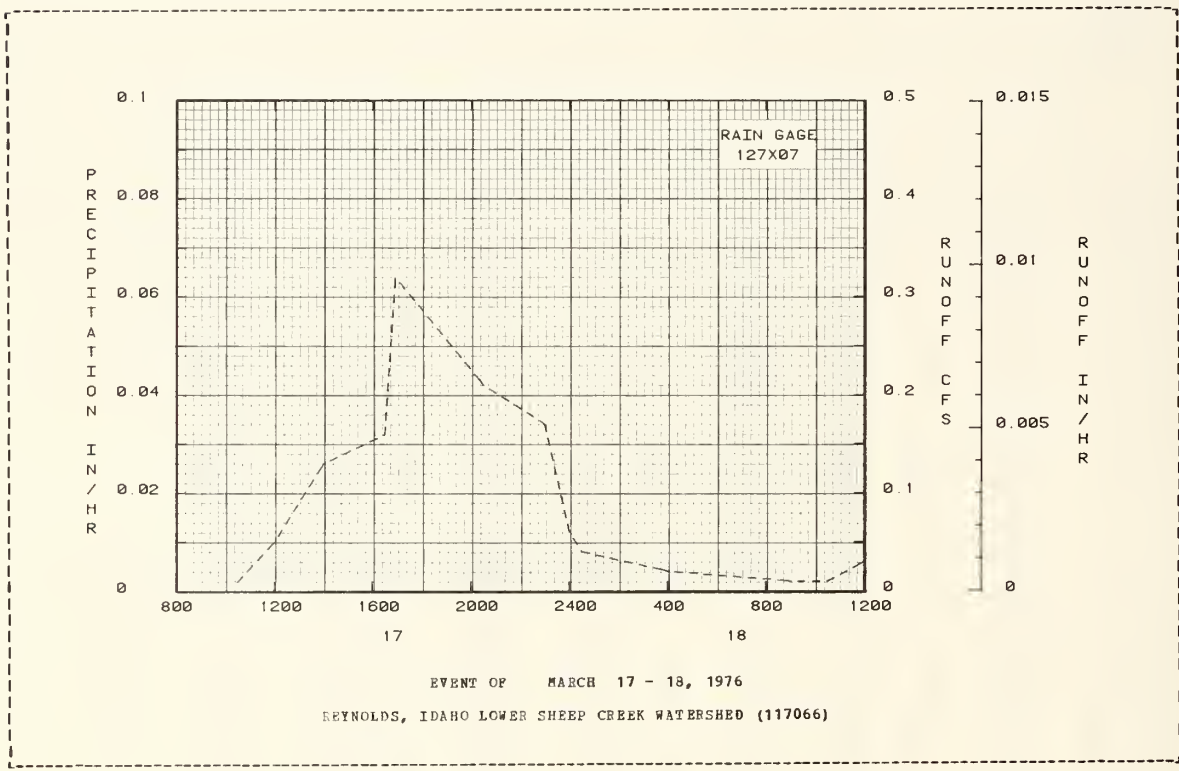
NOTES: To convert CFS to IN/DAY, multiply by 0.721262. STA AV values are based on 10 yr (1967-76) record period.



1976 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 17 - 18, 1976											
3-18	RG 127X07		3-18	RG 127X07			3-17	1030	0.012	0.0	
3-17	0.0	0.019	3-18	1752	0.0	0.0		1200	0.045	0.0013	
								1400	0.129	0.0065	
								1630	0.156	0.0172	
								1655	0.316	0.0202	
								2030	0.209	0.0434	
								2300	0.166	0.0625	
								2400	0.063	0.0660	
							3-18	30	0.038	0.0667	
								400	0.015	0.0695	
								900	0.010	0.0714	
								1030	0.008	0.0718	

WATERSHED CONDITIONS:  
The event is snowmelt runoff without rain.

NOTES: To convert CFS to IN/DAY, multiply by 0.030053.



CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO

LOCATION: Washita River above Anadarko, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Caddo, Kiowa, Washita, Custer, Beckham, and Poger Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW1/4 sec. 15, T. 7 N., R. 10 W., lat. 35 deg. 05 min. N., long. 98 deg. 14 min. W.; 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)														CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1976	Q	0.060	0.356	0.050	0.106	0.133	0.092	0.027	0.016	0.056	0.024	0.029	0.028	0.676													
STA AV	Q	0.048	0.346	0.063	0.087	0.139	0.140	0.068	0.060	0.103	0.077	0.088	0.048	0.965													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
1976	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days												
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.											
	9-15	0.001	6-5	0.001	6-5	0.001	6-5	0.004	6-5	0.007	5-28	0.013	5-28	0.023	4-16	0.065											
MAXIMUMS FOR PERIOD OF RECORD																											
	9-23 1965	0.004	9-23 1965	0.004	9-23 1965	0.009	9-23 1965	0.026	9-23 1965	0.052	9-23 1965	0.100	9-23 1965	0.188	9-23 1965	0.384											

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.

1976 MEAN DAILY DISCHARGE (cfs)														CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	206.0	178.9	149.8	134.7	453.6	549.0	131.7	51.4	47.6	91.1	140.6	91.1															
2	203.0	185.6	146.7	128.3	474.1	453.6	128.8	49.4	47.6	88.6	159.2	88.6															
3	199.5	199.5	152.9	128.8	399.4	428.6	123.1	45.7	47.6	86.2	125.9	88.6															
4	192.5	199.5	156.1	128.8	343.7	540.1	120.3	61.4	45.7	81.4	109.3	91.1															
5	199.1	196.0	149.8	128.8	296.0	706.9	117.5	67.8	43.9	81.4	98.7	93.6															
6	185.6	192.5	146.7	128.8	317.3	652.3	114.7	70.0	43.9	76.8	93.6	93.6															
7	162.2	189.1	146.7	143.7	348.2	617.0	106.6	63.5	42.1	74.5	88.6	93.6															
8	168.9	182.2	156.2	140.6	334.6	406.6	103.9	72.2	42.1	76.8	86.2	93.6															
9	168.9	182.2	173.9	137.6	330.4	247.6	101.3	108.2	66.1	76.8	83.8	91.1															
10	175.5	176.9	175.5	128.8	313.0	232.3	96.1	112.0	193.1	76.8	83.8	88.6															
11	196.0	178.9	185.6	125.9	452.4	217.4	93.6	81.4	225.6	76.8	86.2	88.6															
12	210.2	162.2	196.0	125.9	754.4	206.6	93.6	65.6	104.9	79.1	81.4	86.2															
13	210.2	182.2	189.1	125.9	579.0	196.0	93.6	55.3	134.3	76.8	83.8	83.8															
14	203.0	189.1	139.1	125.9	656.7	189.1	91.1	51.4	366.3	74.5	86.2	86.2															
15	196.0	165.6	189.1	149.8	496.5	182.2	86.2	47.6	1081.5	72.2	86.2	83.8															
16	192.5	182.2	169.9	247.6	346.4	172.2	86.2	43.9	693.4	72.2	86.2	86.2															
17	192.5	178.9	159.2	540.8	287.6	168.9	93.6	38.7	338.1	70.0	86.2	86.2															
18	192.5	175.5	156.1	947.6	247.6	165.7	83.8	37.0	255.4	67.8	88.6	83.8															
19	192.5	203.0	156.1	971.4	224.9	156.1	79.1	37.0	182.2	67.8	88.6	83.8															
20	192.5	259.3	156.1	929.6	206.6	183.1	86.2	40.4	149.8	67.8	91.1	81.4															
21	185.6	251.4	156.1	891.2	192.5	424.2	83.8	33.7	148.9	67.8	93.6	81.4															
22	185.6	247.6	156.1	1066.1	182.2	244.9	70.0	27.6	248.8	67.8	93.6	83.8															
23	189.1	243.7	156.1	581.6	182.2	185.6	63.5	26.2	225.7	70.0	96.1	86.2															
24	169.1	206.6	152.9	430.9	185.6	248.0	55.3	24.8	140.6	70.0	96.1	83.8															
25	169.1	146.7	146.7	348.2	358.1	245.1	53.3	24.8	101.3	67.8	98.7	86.2															
26	185.6	143.7	149.8	291.8	308.9	354.3	49.4	26.2	83.8	67.8	98.7	88.6															
27	162.2	140.6	146.7	259.3	309.1	261.3	47.6	29.1	96.1	70.0	96.1	91.1															
28	182.2	140.6	143.7	259.3	873.4	178.9	45.7	32.1	98.7	72.2	93.6	96.1															
29	182.2	143.7	143.7	271.3	1236.7	146.7	45.7	33.7	93.6	86.2	93.6	96.1															
30	178.9		140.6	359.8	809.2	131.7	43.9	38.7	93.6	101.3	93.6	96.1															
31	178.9		137.6		554.5		43.9	42.1		106.6		88.6															
MEAN	189.62	188.48	159.28	345.99	421.13	303.06	84.94	49.64	182.75	76.86	96.28	88.46															
INCRSES	0.050	0.056	0.050	0.106	0.133	0.092	0.027	0.016	0.056	0.024	0.029	0.028															
STA AV	0.048	0.346	0.063	0.087	0.139	0.140	0.068	0.060	0.103	0.077	0.088	0.048															

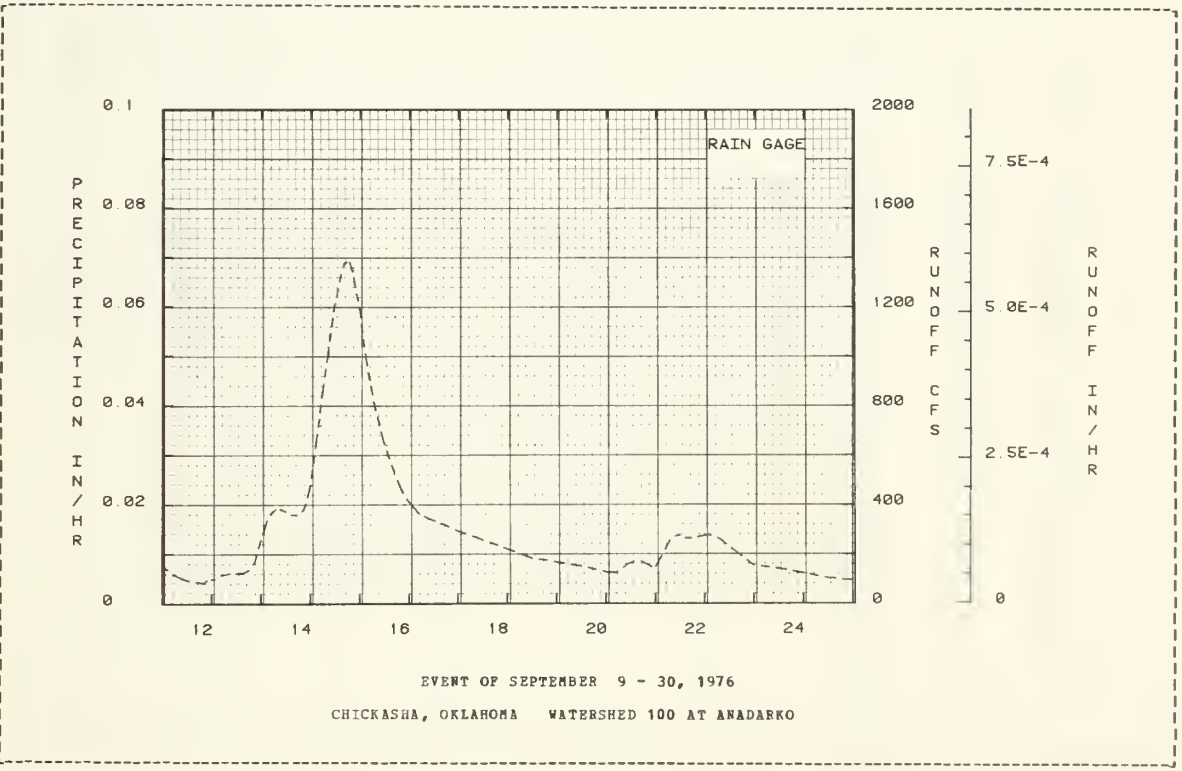
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. To convert discharge in CFS to IN/DAY, multiply by 0.00001017. To convert discharge in inches to AC-FT, multiply by 194,983. STA AV values are based on 16 yr (1961-76) record period.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED 100 AT AHADARRO			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 9 - 30, 1976										
9- 9		0.000					9- 9	400	63.560	0.0
								700	63.460	0.0001
								1430	55.260	0.0003
								1930	55.330	0.0004
								2100	66.280	0.0004
								2230	113.810	0.0005
								2400	177.830	0.0006
							9-10	200	234.020	0.0007
								330	251.980	0.0009
								500	251.180	0.0011
								700	239.010	0.0013
								1200	178.210	0.0017
								1741	134.340	0.0021
								1900	135.090	0.0022
								2100	160.360	0.0023
								2400	230.030	0.0025
							9-11	230	264.148	0.0028
								430	275.570	0.0030
								700	275.090	0.0033
								830	262.580	0.0035
								1530	206.060	0.0042
								2400	152.560	0.0048
							9-12	730	109.020	0.0053
								1300	91.030	0.0055
								2000	83.820	0.0058
								2200	96.330	0.0058
								2400	98.740	0.0059
							9-13	130	98.870	0.0060
								430	114.880	0.0061
								830	123.130	0.0063
								1500	123.150	0.0067
								1800	135.070	0.0068
								2100	166.880	0.0070
								2400	257.700	0.0073
							9-14	300	336.979	0.0077
								500	367.610	0.0080
								700	380.740	0.0083
								930	380.229	0.0087
								1200	370.668	0.0091
								1500	357.030	0.0095
								1700	357.620	0.0098
								2030	376.590	0.0104
								2200	402.229	0.0106
								2400	479.560	0.0110
							9-15	300	654.808	0.0117
								600	858.638	0.0127
								900	1033.798	0.0139
								1200	1214.489	0.0153
								1500	1332.408	0.0169
								1630	1378.908	0.0178
								1730	1383.108	0.0184
								1900	1380.110	0.0193
								2030	1341.520	0.0201
								2400	1186.518	0.0220
							9-16	300	992.138	0.0234
								700	809.278	0.0249
								1200	642.500	0.0265
								1700	524.469	0.0277
								2100	446.740	0.0285
								2400	407.860	0.0291
							9-17	430	365.750	0.0298
								900	343.350	0.0305
								1600	321.310	0.0315
								2400	291.628	0.0325
							9-18	1200	255.370	0.0339
								2400	218.800	0.0365
							9-19	1200	182.230	0.0375
								2400	166.025	0.0394
							9-20	1200	149.820	0.0402
								2400	125.940	0.0417
							9-21	530	126.100	0.0420
								1030	159.590	0.0423
								1330	169.020	0.0425
								1700	168.750	0.0427
								2200	146.550	0.0431

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 9 - 30, 1976 (CONTINUED)										
							9-21	2400	147.250	0.0432
							9-22	300	193.560	0.0434
								700	256.300	0.0438
								1030	275.688	0.0442
								1200	275.090	0.0444
								1430	263.080	0.0447
								1700	263.378	0.0449
								2400	275.448	0.0457
							9-23	300	275.158	0.0461
								730	258.850	0.0466
								1500	209.690	0.0473
								2400	152.810	0.0480
							9-24	1200	140.650	0.0488
								2400	120.975	0.0502
							9-25	1200	101.300	0.0508
								2400	92.550	0.0518
							9-26	1200	83.800	0.0523
								2400	89.975	0.0531
							9-27	1200	96.150	0.0536
								2400	97.430	0.0546
							9-28	1200	98.710	0.0551
								2400	96.165	0.0561
							9-29	1200	93.620	0.0565
								2400	93.620	0.0575
							9-30	1200	93.620	0.0580
								2400	92.370	0.0589

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000004239. No precipitation record is shown because all 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, Custer, Beckham, and Roger Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--SE1/4 sec. 23, T. 7 N., R. 7 W., lat. 35 deg. 05 min. N.; long. 97 deg. 54 min. W.; 1 mile Northeast of Chickasha, Okla., at E. E. Bailey Turupike 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

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.0	0.24	2.32	5.64	2.80	2.31	1.35	2.24	2.99	2.58	0.04	0.22	22.73	
	Q 0.060	0.058	0.057	0.117	0.130	0.096	0.028	0.018	0.049	0.024	0.028	0.028	0.692	
STA AV	P 0.63	1.08	1.84	2.95	4.01	3.07	2.18	2.73	3.69	2.34	1.77	0.91	27.42	
	Q 0.044	0.044	0.065	0.095	0.148	0.120	0.063	0.061	0.085	0.068	0.077	0.046	0.916	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976	4-19	0.001	4-19	0.001	4-19	0.001	4-19	0.004	4-19	0.007	4-19	0.013	4-19	0.024	4-17	0.069		

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	4-12	0.003	8-1	0.003	8-1	0.006	8-1	0.019	8-1	0.038	8-1	0.057	5-6	0.102	5-5	0.329
	1967		1975		1975		1975		1975		1975		1969		1969	

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 35%; row crop - 4%; alfalfa - 5%; pasture and range - 47%; and miscellaneous - 9%. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21, (Composite). Watershed 200 was discontinued in Dec. 31, 1974. Prior to this time precipitation data obtained from a Thiessen weighted average of 40 gages for the reach between Verden (200) and Chickasha (500). Precipitation data after Dec. 31, 1974 obtained from an arithmetic average of 96 gages for the reach between Anadarko (100) 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.

1976 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 500 NEAR 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	0.02	0.0 T	0.09	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	0.58	0.0	0.0	0.0	0.13	0.0	0.0	0.07	0.0	0.0		
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.53	0.0	0.06	0.0	0.0		
5	0.0	0.23	0.0	0.0	0.21	0.0 T	0.0	1.17	0.0	0.25	0.0	0.18		
6	0.0	0.0	0.0	0.0 T	0.01	0.13	0.0	0.04	0.0 T	0.0	0.0	0.04		
7	0.0	0.0	0.54	0.87	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0		
8	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0		
10	0.0	0.01	0.0	0.0	0.0 T	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0 T	0.20	0.0 T	0.0	0.0	0.06	0.0	0.0	0.0	0.02	0.0		
12	0.0	0.0	0.0	0.02	0.19	0.0	0.0 T	0.0	1.15	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.73	0.04	0.02	0.84	0.0	0.02	0.0		
14	0.0	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.07	0.0	0.0 T	0.0		
15	0.0	0.0	0.0	1.38	0.0	0.0 T	0.84	0.0	0.0	0.16	0.0	0.0		
16	0.0	0.0	0.0	0.14	0.0	0.0	0.03	0.0	0.0 T	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.89	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0 T	0.0	0.21	0.0	0.0	0.0	0.04	0.0	0.0		
19	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.02	0.0 T	0.0	0.0		
20	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	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	0.57	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.07	0.58	0.0	0.09	0.0	0.05	0.0	0.0		
24	0.0	0.0	0.0 T	0.0	0.0	0.65	0.0	0.10	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0 T	0.08	0.0	0.0		
27	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.03	0.08	0.07	0.0	0.0		
28	0.0	0.0	0.02	0.99	0.0	0.0	0.20	0.01	0.0	0.02	0.0 T	0.0		
29	0.0	0.0	0.17	0.0	0.0 T	0.0	0.0	0.14	0.0	1.44	0.0	0.0		
30	0.0	0.0	0.0	0.18	0.22	0.01	0.0	0.03	0.0	0.02	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.24	2.32	5.64	2.80	2.31	1.35	2.24	2.99	2.58	0.04	0.22		
STA AV	0.83	1.08	1.84	2.95	4.01	3.07	2.18	2.73	3.69	2.34	1.77	0.91		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values arithmetic average of 96 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	260.6	204.1	185.4	156.6	461.9	694.5	143.6	51.3	56.8	102.3	122.3	105.7
2	252.7	202.6	181.2	151.4	546.6	647.7	135.9	54.0	63.4	98.9	121.1	106.9
3	246.4	205.5	179.8	147.4	552.9	559.6	132.1	74.2	69.2	98.9	160.5	108.0
4	237.1	226.4	226.4	148.7	499.1	521.9	132.1	67.2	66.3	97.7	144.6	105.7
5	232.5	237.1	212.9	151.4	448.2	616.2	130.9	88.4	63.4	101.1	125.9	108.0
6	226.4	238.6	199.7	148.7	413.8	733.4	129.6	124.2	59.6	93.3	116.3	130.9
7	220.3	232.5	204.2	147.4	402.6	694.5	133.4	141.7	54.9	93.3	109.2	127.2
8	215.9	230.9	247.0	164.9	436.6	674.2	127.2	125.9	55.9	93.3	105.7	109.2
9	212.9	232.5	343.3	258.0	417.6	478.9	125.9	112.7	54.9	95.5	102.3	109.2
10	212.9	226.4	300.5	212.9	410.1	314.6	121.1	104.3	103.2	93.3	98.9	108.0
11	211.4	221.9	262.2	185.4	398.9	275.1	121.1	130.9	133.7	91.1	96.6	106.9
12	211.4	220.3	246.4	171.5	475.6	251.1	119.9	109.2	194.2	87.8	96.6	105.7
13	237.1	221.9	262.2	164.7	732.2	241.2	117.5	85.7	211.0	86.8	97.7	105.7
14	246.4	223.4	246.4	160.6	644.8	282.9	116.3	70.2	184.3	86.8	97.7	104.6
15	240.2	226.4	241.7	180.3	668.5	303.1	125.0	62.4	361.8	85.7	98.9	103.4
16	237.1	227.9	237.1	299.7	540.2	217.4	156.3	54.9	895.4	84.6	97.7	103.4
17	234.0	221.9	223.4	523.5	416.9	196.8	145.3	50.4	660.5	82.5	97.7	103.4
18	230.9	215.9	211.4	983.9	352.9	189.6	113.9	46.9	397.6	82.5	97.7	106.9
19	226.4	209.9	204.1	1352.7	307.9	192.5	103.4	41.9	302.8	81.4	97.7	105.7
20	226.4	220.3	196.8	1424.0	284.9	192.5	96.6	40.2	231.1	80.4	100.0	104.6
21	224.9	291.5	191.1	1109.3	265.4	190.7	90.0	40.2	181.2	79.4	100.0	103.4
22	223.4	303.2	186.8	996.8	251.1	392.6	92.2	41.9	158.0	78.3	101.1	104.6
23	220.3	303.2	181.2	985.8	251.1	281.9	84.6	41.1	221.2	78.3	101.1	103.4
24	218.8	299.9	178.4	654.4	257.4	352.8	77.3	33.1	259.9	80.4	103.4	104.6
25	217.4	280.0	177.0	524.0	249.5	334.0	69.2	37.0	145.8	80.4	104.6	103.4
26	214.4	207.0	174.2	439.6	439.1	280.9	66.3	30.2	106.0	81.4	105.7	103.4
27	212.9	195.4	171.5	383.6	502.9	327.2	62.4	29.4	97.7	80.4	104.6	102.3
28	211.4	192.5	170.1	382.8	498.6	318.5	55.9	32.4	101.1	83.6	103.4	103.4
29	209.9	188.2	201.1	492.4	940.8	211.3	52.2	41.9	110.4	108.7	102.3	105.7
30	207.0		171.5	437.2	1123.3	157.5	53.1	48.7	104.6	109.2	105.7	105.7
31	204.1		162.0		872.0		52.2	49.6		125.9		100.0
MEAN	225.26	231.27	212.15	452.32	489.14	370.62	105.86	66.53	190.25	90.42	107.23	106.73
INCHES	0.060	0.056	0.057	0.117	0.130	0.096	0.028	0.018	0.049	0.024	0.028	0.028
STA AV	0.044	0.044	0.065	0.095	0.148	0.120	0.063	0.061	0.085	0.068	0.077	0.046

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.000008599. To convert discharge in inches to AC-FT, multiply by 230,657. STA AV values are based on 13 yr (1964-76) record period.

1976 SELECTED EDNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA												
ANTECEDENT CONDITIONS			RAINFALL				EDNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Fate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 10 - 24, 1976												
9-10		0.0					9-10	100	65.590	0.0		
								230	96.360	0.0000		
								330	110.470	0.0001		
								430	116.980	0.0001		
								530	121.220	0.0002		
WATERSHED CONDITIONS: For area not included above subwatersheds as determined from a 1974 survey: sowed crop - 35%; row crop - 4%; alfalfa - 5%; pasture and range - 47%; and miscel- laneous - 9%.								830	120.980	0.0003		
								1030	117.150	0.0004		
								1800	97.500	0.0007		
								2400	86.590	0.0009		
								9-11	330	81.350	0.0010	
								511	81.610	0.0010		
								600	86.870	0.0010		
								900	131.150	0.0012		
								1030	135.900	0.0012		
								1148	158.190	0.0013		
							1330	166.610	0.0014			
							1500	168.860	0.0015			
							1700	168.580	0.0016			
							1900	164.320	0.0017			
							2400	152.420	0.0020			
							9-12	200	153.010	0.0021		
							600	168.170	0.0024			
							1100	200.530	0.0027			
							1400	205.770	0.0029			
							1600	207.050	0.0031			
							1800	206.730	0.0032			
							2111	200.300	0.0034			
							2230	229.320	0.0035			
							2300	271.229	0.0036			
							2400	327.418	0.0037			

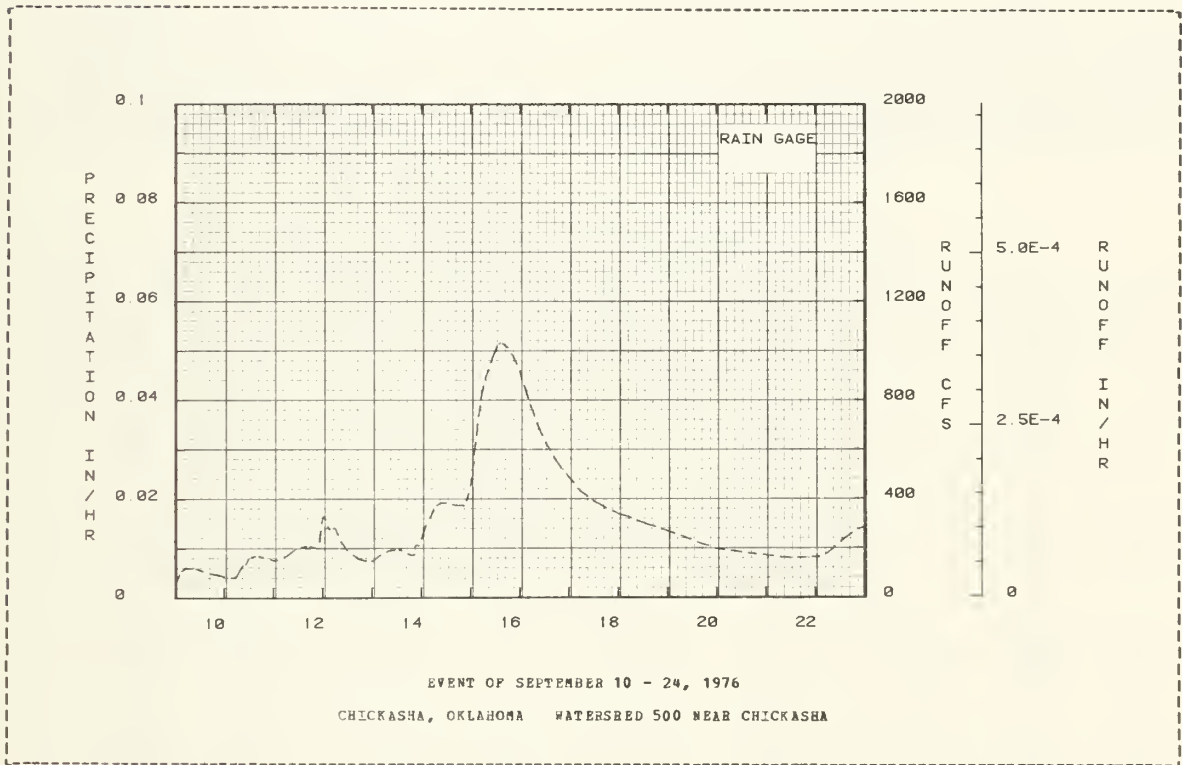
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000038583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1976 SELECTED RUNOFF EVENT			CRICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 10 - 24, 1976 (CONTINUED)											
							9-13	30	329.540	0.0037	
								100	325.340	0.0038	
								111	315.418	0.0038	
								230	282.070	0.0040	
								318	278.138	0.0040	
								600	281.250	0.0043	
								900	225.030	0.0046	
								1200	189.660	0.0048	
								1730	155.930	0.0051	
								2100	147.230	0.0053	
								2400	147.880	0.0055	
							9-14	400	170.900	0.0057	
								800	188.790	0.0060	
								1100	194.100	0.0062	
								1330	193.720	0.0064	
								1430	188.910	0.0064	
								1841	171.000	0.0067	
								2018	173.880	0.0068	
								2100	211.260	0.0069	
								2241	210.010	0.0070	
								2400	239.610	0.0071	
							9-15	230	295.729	0.0073	
								600	355.648	0.0077	
								730	373.820	0.0079	
								900	381.780	0.0081	
								1000	384.418	0.0083	
								1200	383.620	0.0086	
								1700	370.969	0.0092	
								2030	372.188	0.0097	
								2200	393.138	0.0099	
								2400	454.938	0.0102	
							9-16	100	519.148	0.0104	
								200	598.499	0.0106	
								300	674.050	0.0108	
								400	746.358	0.0111	
								530	825.358	0.0115	
								730	895.198	0.0121	
								1030	970.418	0.0131	
								1300	1019.378	0.0140	
								1400	1027.078	0.0144	
								1430	1031.528	0.0145	
								1530	1027.119	0.0149	
								1800	1011.309	0.0158	
								2100	969.878	0.0169	
								2400	913.708	0.0179	
								300	833.708	0.0188	
								600	760.868	0.0197	
								930	682.148	0.0206	
								1300	621.850	0.0214	
								1800	548.729	0.0225	
								2400	486.350	0.0236	
							9-18	600	426.688	0.0246	
								1200	389.990	0.0254	
								1800	361.250	0.0262	
								2400	338.469	0.0270	
								600	321.178	0.0277	
								1200	300.860	0.0284	
								1800	285.938	0.0290	
								2400	267.979	0.0296	
							9-20	800	244.190	0.0303	
								1630	215.320	0.0310	
								2400	196.620	0.0316	
								1200	181.180	0.0324	
								2400	169.570	0.0339	
							9-22	1200	157.960	0.0346	
								2400	163.320	0.0360	
								148	163.660	0.0361	
								600	177.810	0.0364	
								941	205.300	0.0366	
								1500	242.940	0.0371	
								2100	276.110	0.0376	
								2400	285.388	0.0379	
							9-24	330	290.030	0.0383	
								600	289.580	0.0385	
								900	282.540	0.0388	

NOTES: To convert runoff in CFS to IN/8R, multiply by 0.00000038583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 10 - 24, 1976 (CONTINUED)											
							9-24	1400	262.678	0.0393	
								1930	226.550	0.0398	
								2400	191.440	0.0402	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000038563. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.





CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

LOCATION: Washita River Watershed above Alex, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham and Roger Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW1/4 sec. 7, T. 5 N., R. 5 W., lat. 34 deg. 55 min. N., long. 97 deg. 46 min. W., 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)													CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P	0.0	0.29	2.81	4.19	2.57	2.64	2.82	2.36	2.98	2.33	0.08	0.57	23.64
	Q	0.071	0.364	0.071	0.127	0.132	0.105	0.045	0.021	0.053	0.028	0.033	0.034	0.783
STA AV	P	1.18	1.30	1.93	2.90	4.49	2.59	2.61	2.77	4.07	2.66	1.69	0.97	29.15
	Q	0.054	0.352	0.074	0.102	0.155	0.159	0.071	0.060	0.093	0.080	0.092	0.054	1.046

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	4-20	0.001	4-20	0.001	4-20	0.001	4-20	0.004	4-20	0.008	4-19	0.015	4-19	0.027	4-18	0.073		
MAXIMUMS FOR PERIOD OF RECORD																		
	5-23	0.003	8-1	0.003	8-1	0.006	9-20	0.019	8-1	0.036	5-7	0.064	5-6	0.114	5-5	0.336		
	1975		1975		1975		1962		1975		1969		1969		1969			

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 21%; row crop - 6%; alfalfa - 5%; pasture and range - 60%; and miscellaneous - 8%. 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 1963-70 on the reach from Tabler to Alex, Okla. and an arithmetic average for 77 gages for 1971-75 on the reach for Chickasha to Alex, Okla. and an arithmetic average for 73 gages for 1976 on the reach from Chickasha to Alex, Okla., for a total period of record (1963-76). For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY AIR TEMPERATURE (degrees F)													CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX											
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	53	34	57	26	84	34	71	29	67	42	82	58	88	66	102	70	77	62	94	39	60	23	50	15
2	35	22	56	24	83	59	82	45	77	46	86	59	94	70	83	68	85	58	88	50	75	36	60	14
3	33	17	67	22	67	33	66	49	63	41	82	61	87	74	86	64	88	62	84	59	56	26	65	19
4	36	12	46	28	65	29	65	43	78	43	83	58	80	64	83	62	93	66	74	50	50	24	56	15
5	47	19	28	21	41	22	72	38	67	51	80	55	84	63	96	65	94	62	60	38	63	23	46	18
6	53	13	25	16	52	23	76	45	63	48	76	61	88	60	93	64	90	61	56	34	78	44	44	18
7	15	7	44	13	45	26	60	52	62	42	80	61	90	54	92	66	88	58	44	35	58	30	42	10
8	24	5	68	22	42	40	70	50	70	38	83	60	94	61	98	68	86	59	56	27	63	20	46	20
9	45	11	74	28	58	35	70	48	70	48	87	60	92	65	99	70	71	53	75	30	77	38	61	32
10	55	36	71	50	66	38	80	46	74	54	92	65	85	66	97	72	74	44	83	34	74	37	58	22
11	52	24	62	39	63	52	78	56	81	48	90	65	86	63	96	70	81	57	84	44	48	24	31	19
12	62	24	76	41	53	30	81	50	70	52	90	73	94	61	98	65	86	60	78	44	28	23	55	18
13	50	26	70	51	44	24	76	56	72	45	91	64	92	64	100	69	71	60	82	39	30	22	51	21
14	49	20	66	40	62	27	78	62	70	44	87	68	84	65	98	65	85	57	79	39	30	24	58	20
15	58	27	76	47	54	35	73	52	73	47	79	57	80	67	97	69	86	62	60	47	31	24	57	23
16	46	33	71	44	58	28	73	45	74	49	89	52	86	62	96	70	87	61	54	30	33	28	68	20
17	62	22	71	41	69	36	68	52	74	44	92	60	86	62	96	69	82	64	56	19	65	26	71	20
18	65	29	65	39	71	46	72	48	76	40	73	58	90	66	95	66	80	64	60	34	72	25	64	30
19	51	25	66	33	87	51	70	56	80	50	80	54	87	68	90	56	76	65	46	20	76	47	58	30
20	50	18	81	36	68	42	61	48	79	56	83	48	92	70	89	56	74	48	59	16	63	35	34	12
21	56	24	44	30	64	30	72	42	83	59	84	58	91	68	91	62	84	43	66	21	48	20	39	8
22	65	19	62	20	67	32	80	55	87	60	90	56	90	66	96	62	82	44	68	38	54	16	50	16
23	66	31	74	20	76	33	80	64	78	59	88	65	92	66	98	62	88	60	69	58	61	26	56	14
24	56	28	72	34	72	56	72	50	80	58	79	63	95	63	90	58	87	54	58	36	68	23	58	32
25	35	25	74	39	87	59	60	44	66	58	86	62	98	64	90	59	80	66	50	30	69	44	46	18
26	38	12	77	28	68	37	66	41	71	56	90	68	96	64	92	61	71	54	44	27	63	34	66	12
27	50	10	77	43	70	31	70	53	63	52	92	70	96	68	94	65	66	46	47	31	33	13	70	32
28	62	28	75	48	62	48	64	50	77	46	69	74	96	66	86	67	62	40	50	27	29	11	48	27
29	65	24	77	43	60	41	62	48	86	58	99	73	90	66	90	63	72	34	38	34	47	6	54	18
30	62	32			58	39	60	43	88	60	88	70	95	70	80	66	86	36	52	30	56	8	38	4
31	52	35			60	33			79	60			98	68	73	62			58	28			21	1
AV.	50	22	65	33	64	37	71	49	74	50	85	62	90	65	92	65	81	55	64	35	55	26	52	19
MEAN	36.2		49.0		50.5		59.9		62.2		73.5		77.7		78.7		68.2		49.4		40.7		35.5	
STA AV	46	25	53	28	61	38	72	49	80	57	88	67	94	71	91	68	82	60	72	48	62	36	52	29

NOTES: Data recorded at South Central Agricultural Research Station. AV and STA AV are rounded to the nearest degree. Mean rounded to the tenth of a degree. STA AV values are based on record period Sept. 1962-1976. For Chickasha Research Station Evaporation Data, see National Weather Service Climatological Data for Oklahoma.

1976 DAILY PRECIPITATION (inches)												
CHICKASHA, OKLAHOMA						WATERSHED 700 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	0.01	0.0	0.04	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	0.22	0.0	0.0	0.0	0.0 T	0.0	0.0	0.07	0.0	0.0
4	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.45	0.0	0.22	0.0	0.0
5	0.0	0.29	0.0	0.0	0.31	0.0	0.0	0.74	0.0	0.08	0.0	0.42
6	0.0	0.0	0.0	0.0 T	0.0 T	0.12	0.0	0.09	0.0 T	0.0	0.0	0.14
7	0.0	0.0	1.01	0.33	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0
8	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.02	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.01
11	0.0	0.0	0.18	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.04	0.0
12	0.0	0.0	0.0	0.01	0.10	0.0	0.0 T	0.0	1.15	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.33	0.07	0.0	0.84	0.0	0.01	0.0
14	0.0	0.0	0.0	0.0 T	0.0	0.0	0.03	0.0	0.02	0.0	0.02	0.0
15	0.0	0.0	0.0	0.96	0.0	0.02	1.85	0.0	0.0	0.06	0.0	0.0
16	0.0	0.0	0.0	0.16	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0 T	0.01	0.0	0.0	0.0
18	0.0	0.0	0.0	0.01	0.0	0.30	0.0	0.0	0.0	0.04	0.0	0.0
19	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.01	0.02	0.0 T	0.0
20	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.43	0.01	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.13	0.79	0.0	0.16	0.0	0.11	0.0	0.0
24	0.0	0.0	0.01	0.0	0.0	1.07	0.0	0.18	0.0	0.0 T	0.0	0.0
25	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.08	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0 T	0.91	0.0	0.0	0.0	0.0 T	0.06	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.05	0.05	0.05	0.0	0.0
28	0.0	0.0	0.08	0.91	0.0	0.0	0.62	0.01	0.0	0.03	0.0 T	0.0
29	0.0	0.0	0.31	0.0	0.06	0.0	0.0 T	0.31	0.0	1.38	0.0	0.0
30	0.0	0.0	0.9	0.12	0.18	0.0	0.0	0.0 T	0.0	0.02	0.0	0.0
31	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.29	0.0	0.0	0.0	0.0
TOTAL	0.0	0.29	2.61	4.19	2.57	2.64	2.82	2.36	2.96	2.33	0.08	0.57
STA AV	1.18	1.30	1.93	2.90	4.49	2.59	2.61	2.77	4.07	2.66	1.69	0.97

NOTES: Precipitation values are a Thiessen weighted average of 21 gages for 1963-70, a Thiessen-weighted average for 77 gages for 1971-75, and an arithmetic average of 73 gages for 1976. STA AV values are based on 14 yr (1963-76) record period.

1976 MEAN DAILY DISCHARGE (cfs)												
CHICKASHA, OKLAHOMA						WATERSHED 700 NEAR ALEX						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	333.9	266.7	237.0	214.5	534.7	814.3	216.8	68.9	60.4	129.5	177.4	138.8
2	319.4	264.5	237.3	205.2	611.0	714.3	205.2	65.6	80.4	124.9	166.9	138.8
3	312.2	264.5	232.9	197.6	636.7	634.4	193.8	68.9	80.4	120.5	173.9	140.4
4	302.8	273.3	258.0	195.7	606.7	555.1	181.0	82.9	80.4	122.0	205.2	137.2
5	298.2	298.2	284.5	195.7	527.1	541.8	170.4	104.1	72.3	111.8	182.8	138.8
6	302.8	305.2	266.7	195.7	493.8	719.2	161.7	376.9	67.8	123.5	168.6	156.7
7	282.2	300.5	263.0	195.7	481.7	709.6	158.3	176.1	62.4	116.1	155.0	158.3
8	277.8	295.9	406.2	195.7	444.5	674.4	155.0	187.1	61.7	120.5	146.8	148.4
9	282.2	298.2	561.7	265.8	447.4	601.1	141.9	146.8	99.2	122.0	143.5	141.9
10	277.8	293.6	478.3	286.8	430.5	400.7	137.2	131.0	86.4	120.5	140.4	141.9
11	324.2	282.2	397.8	245.3	422.2	331.4	134.1	128.0	119.4	116.1	135.6	140.4
12	317.0	273.3	371.6	222.8	403.2	302.8	135.6	140.4	160.6	111.8	134.1	140.4
13	309.9	268.9	356.3	212.9	708.5	286.8	126.4	111.8	507.1	107.6	132.5	145.2
14	312.2	268.9	348.7	207.1	730.6	295.9	129.5	90.3	306.7	100.8	131.0	143.5
15	314.6	273.3	331.4	228.4	726.0	345.0	619.3	73.4	278.8	99.5	131.0	141.9
16	307.5	275.5	321.8	312.8	711.5	305.7	834.8	62.4	628.4	100.8	131.0	140.4
17	305.2	268.9	312.2	492.0	559.8	260.2	376.9	55.2	885.7	102.1	129.5	140.4
18	300.5	260.2	293.6	845.7	435.4	247.4	258.8	51.3	553.5	103.5	129.5	138.8
19	293.6	258.0	280.0	1447.8	366.4	241.1	192.0	43.0	412.9	107.6	129.5	141.9
20	289.0	256.0	264.5	1852.1	333.9	232.9	160.0	38.7	315.5	106.2	129.5	138.8
21	286.8	286.8	251.6	1421.5	300.5	218.8	137.2	38.7	237.7	103.5	128.0	135.6
22	286.8	336.3	243.2	1112.2	277.8	270.0	124.9	35.5	195.7	103.5	126.4	135.6
23	295.8	338.8	239.1	1175.6	282.2	410.1	119.0	37.9	184.6	106.2	128.0	135.6
24	284.5	343.7	232.9	677.5	280.0	939.2	106.2	43.0	256.1	109.0	129.5	135.6
25	282.2	338.6	241.1	678.4	277.8	611.0	95.5	43.3	240.7	111.8	135.6	137.2
26	282.2	302.8	228.6	570.1	351.3	437.8	89.1	55.3	175.6	111.8	138.8	134.1
27	282.2	253.6	226.8	450.3	960.4	364.6	85.3	30.1	148.4	114.7	134.1	132.5
28	282.2	247.4	226.8	528.3	641.7	414.1	78.1	25.2	132.5	114.7	129.5	131.0
29	280.0	241.1	268.4	511.9	765.8	338.2	89.1	33.6	131.0	140.1	129.5	131.0
30	277.8	266.9	266.9	616.3	1156.9	252.2	87.8	62.7	135.6	200.9	134.1	132.5
31	273.3		224.8		1049.2		73.4	75.7		177.4		124.9
MEAN	295.73	284.04	295.27	543.45	545.65	449.00	186.26	86.57	225.93	116.09	142.91	139.31
INCHES	0.071	0.064	0.071	0.127	0.132	0.105	0.045	0.021	0.053	0.028	0.033	0.034
STA AV	0.054	0.052	0.074	0.102	0.155	0.159	0.071	0.060	0.093	0.080	0.092	0.054

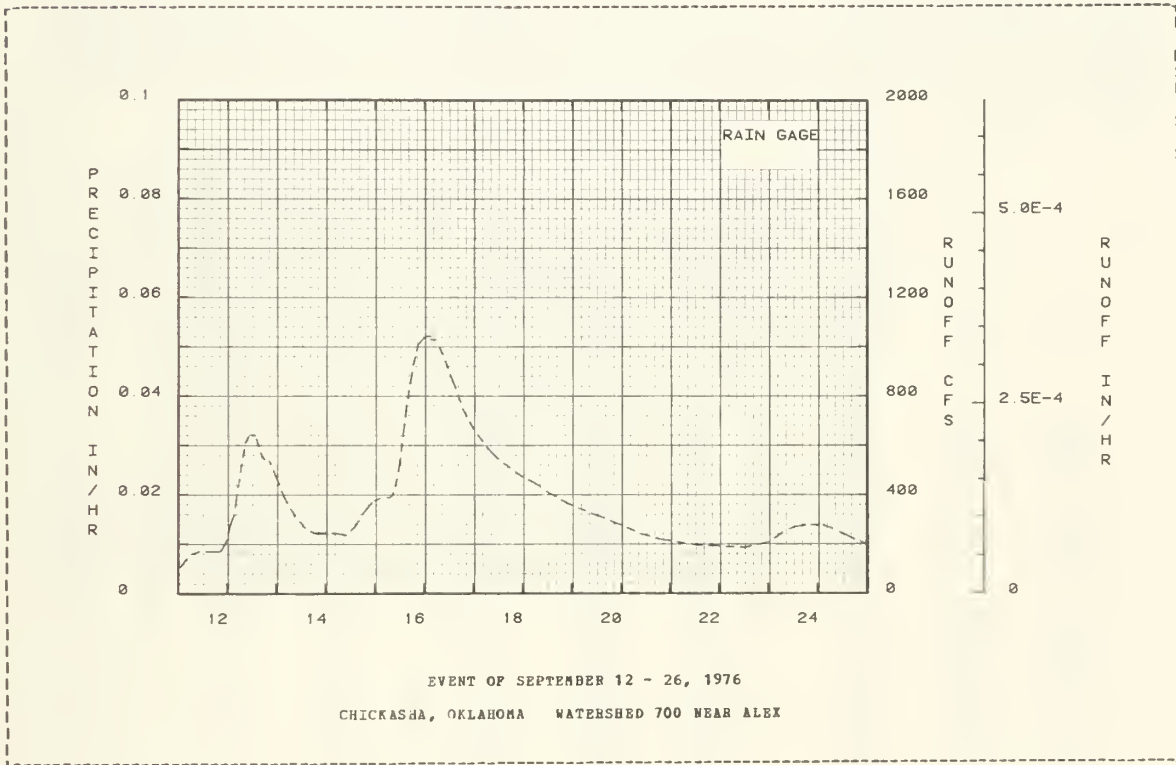
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00007776. To convert discharge in inches to AC-FT, multiply by 255,093. STA AV values are based on 16 yr (1961-76) record period.

1976 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED 700 NEAR ALEY							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 12 - 26, 1976										
9-12		0.000					9-12	130	108.400	0.0
								430	139.800	0.0001
								730	162.400	0.0003
								1030	170.400	0.0004
								2000	170.400	0.0009
								2111	173.400	0.0010
								2400	218.000	0.0012
			9-13					130	275.600	0.0013
								323	317.800	0.0015
								500	402.500	0.0017
								700	523.000	0.0020
								900	612.100	0.0024
								1011	633.500	0.0026
								1130	640.800	0.0029
								1330	639.198	0.0033
								1411	624.300	0.0034
								1700	553.500	0.0040
								1811	541.198	0.0042
								2030	535.198	0.0046
								2111	523.100	0.0047
								2400	468.898	0.0051
			9-14					330	391.898	0.0056
								900	312.599	0.0063
								1400	263.398	0.0067
								1830	242.900	0.0071
								2400	243.200	0.0075
			9-15					400	243.100	0.0078
								1000	233.200	0.0083
								1400	268.300	0.0086
								1800	321.300	0.0090
								2230	368.100	0.0095
								2400	375.000	0.0097
			9-16					230	384.898	0.0100
								730	387.800	0.0106
								900	406.198	0.0108
								1000	434.100	0.0110
								1200	516.600	0.0113
								1400	656.398	0.0116
								1530	760.998	0.0120
								1800	896.099	0.0127
								2100	1009.800	0.0136
								2400	1035.198	0.0146
			9-17					48	1041.698	0.0148
								248	1039.198	0.0155
								311	1026.498	0.0156
								530	1024.998	0.0164
								900	967.098	0.0175
								1400	857.198	0.0190
								1900	744.398	0.0203
								2400	664.300	0.0215
			9-18					730	581.600	0.0230
								1200	544.100	0.0238
								2400	469.198	0.0258
			9-19					600	446.398	0.0267
								1300	404.898	0.0276
								2400	355.600	0.0290
			9-20					1230	314.100	0.0303
								2400	275.000	0.0314
			9-21					1030	238.600	0.0323
								1830	218.500	0.0329
								2400	210.900	0.0333
			9-22					1200	195.700	0.0341
								2400	190.150	0.0356
			9-23					1200	184.600	0.0363
								2400	207.100	0.0378
			9-24					700	246.000	0.0383
								1300	269.300	0.0388
								1800	275.600	0.0392
								2230	275.500	0.0396
								2400	273.198	0.0397
			9-25					300	273.000	0.0400
								730	259.698	0.0404
								1200	242.600	0.0408
								1800	218.300	0.0412
								2400	197.400	0.0416

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.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 12 - 26, 1976 (CONTINUED)										
				9-26	1200			175.600		0.0424
					2400			162.000		0.0437

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.





CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above County road South of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 34, T. 7 N., R. 10 W., lat. 35 deg. 03 min. N.; long. 98 deg. 15 min. W.; 2 miles South of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 16634.00 acres 26.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.0	0.16	2.16	6.62	3.30	2.17	0.67	2.98	3.60	2.73	0.0	0.26	24.65
	Q	0.149	0.117	0.169	0.485	0.187	0.118	0.013	0.005	0.017	0.017	0.034	0.062	1.373
STA AV	P	0.82	1.35	1.88	2.88	4.12	2.81	2.09	2.70	3.92	2.35	1.71	0.86	27.18
	Q	0.086	0.291	0.138	0.171	0.191	0.103	0.049	0.025	0.043	0.039	0.075	0.072	1.084

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	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.	
	4-7	0.022	4-7	0.021	4-7	0.040	4-7	0.078	4-7	0.092	4-7	0.108	4-7	0.127	4-15	0.231
MAXIMUMS FOR PERIOD OF RECORD																
	5-10	0.045	5-10	0.044	5-10	0.080	5-10	0.135	5-10	0.149	5-9	0.234	5-9	0.295	5-31	0.382
	1964		1964		1964		1964		1964		1964		1964		1973	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 16%; row crop - 1%; alfalfa - 2%; pasture and range - 72% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21 and 1962, USDA Misc. Pub. 1070, p. 69.7-9 (Geologic) and p. 69.10-4 (Topography). Precipitation data obtained from a Thiessen weighted average of 6 gages on the watershed. Precipitation records began Oct. 1961; runoff records began June 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 111 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	0.0	0.0	0.0	0.10	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	0.46	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	1.69	0.0	0.13	0.0	0.0		
5	0.0	0.16	0.0	0.0	0.32	0.0	0.0	0.28	0.0	0.13	0.0	0.19		
6	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.0	0.0	0.07		
7	0.0	0.0	0.69	1.80	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0		
8	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	1.05	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	0.02	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0 T	0.0		
12	0.0	0.0	0.0	0.01	0.42	0.0	0.0	0.0	1.39	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.22	0.01	0.0	0.89	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
15	0.0	0.0	0.0	1.82	0.0	0.01	0.42	0.0	0.0	0.29	0.0	0.0		
16	0.0	0.0	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.05	0.0	0.0		
19	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	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	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.12	0.59	0.0	0.18	0.0	0.10	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.02	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.10	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.14	0.06	0.0	0.0		
28	0.0	0.0	0.01	1.15	0.0	0.0	0.16	0.0	0.0	0.05	0.0	0.0		
29	0.0	0.0	0.07	0.0	0.04	0.0	0.0	0.42	0.0	1.44	0.0	0.0		
30	0.0	0.0	0.0	0.13	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.37	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.16	2.16	6.62	3.30	2.17	0.67	2.98	3.60	2.73	0.0	0.26		
STA AV	0.82	1.05	1.88	2.88	4.12	2.81	2.09	2.70	3.92	2.35	1.71	0.86		

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 6 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.640	3.110	2.400	2.290	6.520	8.450	0.760	0.010	0.280	0.250	0.690	1.000
2	3.510	2.980	2.400	2.290	5.210	7.130	0.620	0.010	0.160	0.220	0.620	1.090
3	2.980	2.930	3.510	2.290	4.390	6.320	0.460	0.010	0.090	0.160	0.620	1.220
4	2.980	3.370	3.790	2.290	3.930	5.750	0.510	2.833	0.040	0.160	1.090	1.220
5	3.110	3.240	3.110	2.290	3.370	5.210	0.510	0.320	0.010	0.280	1.220	1.300
6	3.510	3.240	2.980	2.290	4.710	5.040	0.510	0.250	0.0	0.280	0.910	1.370
7	2.980	3.110	3.479	64.481	3.790	5.040	0.460	0.120	0.0	0.320	0.760	1.150
8	2.510	3.240	11.230	18.881	3.370	4.540	0.360	0.070	0.726	0.510	0.690	4.037
9	2.740	3.240	8.736	10.170	3.240	1.800	0.280	0.080	0.879	0.320	0.690	7.106
10	3.370	3.240	6.130	7.130	3.240	1.370	0.320	0.020	0.120	0.280	0.690	1.150
11	3.640	3.240	5.750	5.940	3.240	1.090	0.360	0.0	0.090	0.220	0.690	1.090
12	3.640	3.240	5.940	4.870	5.131	1.000	0.360	0.0	0.352	0.160	0.690	1.090
13	3.510	3.240	4.390	3.930	5.099	1.000	0.320	0.0	4.789	0.190	0.690	1.000
14	3.640	3.110	3.930	3.640	3.640	1.090	0.280	0.0	0.460	0.190	0.760	1.000
15	3.930	3.110	3.930	16.183	3.370	1.000	0.320	0.0	0.320	0.220	0.760	1.000
16	3.640	2.980	3.370	23.246	3.240	1.000	0.620	0.0	0.280	0.250	0.760	1.000
17	3.510	2.860	3.240	36.069	2.860	0.910	0.460	0.0	0.280	0.220	0.760	1.000
18	3.510	2.740	3.110	15.614	2.620	1.150	0.360	0.0	0.250	0.250	0.760	1.000
19	3.370	2.510	3.110	16.990	2.510	1.090	0.280	0.0	0.280	0.280	0.760	1.000
20	3.370	2.510	3.110	18.478	2.400	0.910	0.190	0.0	0.250	0.250	0.830	0.910
21	3.370	2.290	2.980	12.090	2.400	0.760	0.160	0.0	0.250	0.250	0.830	0.910
22	3.510	2.130	2.860	10.170	2.290	0.690	0.100	0.0	0.220	0.280	0.830	0.910
23	3.510	2.130	2.860	8.920	3.640	0.701	0.100	0.0	0.190	0.360	0.830	0.910
24	3.510	2.130	2.740	8.000	2.860	8.807	0.090	0.0	0.190	0.410	0.910	1.090
25	3.510	2.290	2.980	5.940	2.980	3.110	0.070	0.0	0.220	0.410	0.910	1.090
26	3.370	2.130	2.860	3.240	8.194	2.400	0.070	0.0	0.250	0.410	0.910	1.090
27	3.240	2.130	2.620	3.110	5.570	1.800	0.050	0.0	0.280	0.460	0.760	1.090
28	3.240	2.808	2.620	12.960	4.390	1.450	0.040	0.0	0.320	0.460	0.760	1.300
29	3.110	2.430	2.980	8.450	3.640	1.220	0.070	0.0	0.280	1.370	0.830	1.540
30	3.240		2.400	6.720	3.240	0.910	0.050	0.020	0.250	1.450	0.830	1.450
31	3.110		2.290		15.647		0.020	0.140		0.760		1.000
MEAN	3.349	2.828	3.801	11.299	4.217	2.758	0.295	0.124	0.404	0.375	0.795	1.391
INCHES	0.149	0.117	0.169	0.485	0.187	0.118	0.013	0.005	0.017	0.017	0.034	0.062
STA AV	0.086	0.091	0.136	0.171	0.191	0.103	0.049	0.025	0.043	0.039	0.075	0.072

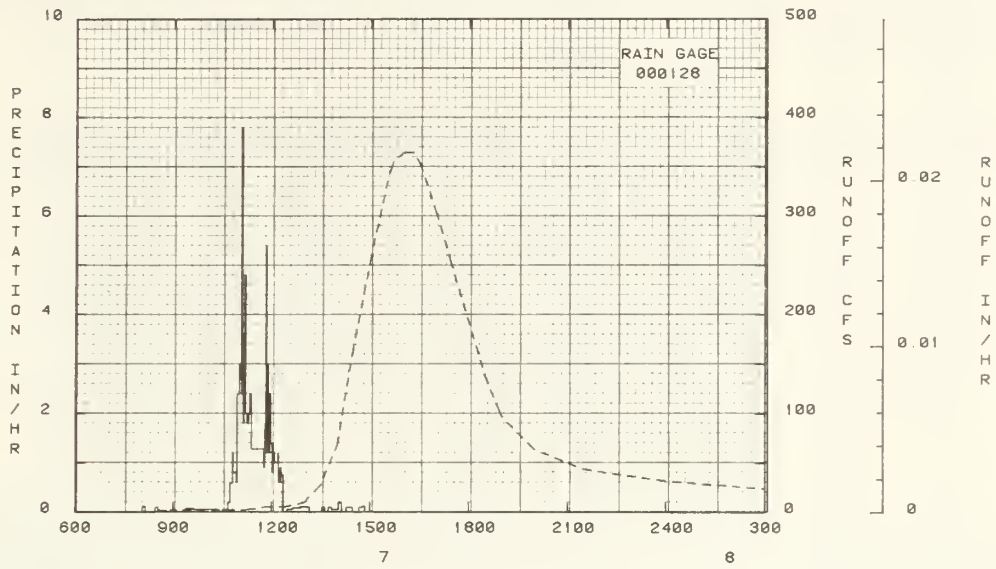
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-FT, multiply by 1,385. STA AV values are based on 15 yr (1962-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF APRIL 7 - 10, 1976											
4-7	0.0	0.001	4-7		0.0	0.0	4-7		918	2.290	0.0
					804	0.0			1111	2.620	0.0003
					809	0.1200	0.01		1130	3.510	0.0003
					827	0.0	0.01		1148	5.210	0.0004
					833	0.1000	0.02		1223	5.210	0.0006
					848	0.0400	0.03				
WATERSHED CONDITIONS: From a revised 1974 survey; sowed crop - 16%; row crop - 1%; alfalfa - 2%; pasture and range - 72%; and miscellaneous - 9%.											
					854	0.0	0.03		1300	9.920	0.0009
					907	0.0462	0.04		1330	28.150	0.0014
					923	0.0	0.04		1400	69.070	0.0029
					938	0.0800	0.06		1430	170.150	0.0065
					950	0.0500	0.07		1500	254.940	0.0128
					1011	0.0571	0.09		1530	335.740	0.0216
					1021	0.0600	0.10		1541	354.888	0.0254
					1031	0.0	0.10		1600	364.698	0.0322
					1041	0.0600	0.11		1618	364.698	0.0387
					1044	0.2000	0.12		1630	352.469	0.0430
					1046	0.6000	0.16		1700	303.668	0.0527
					1049	0.6000	0.17		1730	246.960	0.0610
					1050	1.2000	0.19		1830	137.910	0.0724
					1056	0.8000	0.27		1900	96.290	0.0759
					1057	0.6000	0.28		2000	63.220	0.0807
					1059	2.4000	0.36		2130	43.240	0.0854
					1101	2.4000	0.44		2400	31.510	0.0910
					1102	3.0000	0.49	4-8	300	23.510	0.0959
					1104	2.7000	0.58		730	23.940	0.1023
					1105	4.8000	0.66		1200	16.530	0.1077
					1106	7.8000	0.79		1630	15.170	0.1120
					1108	2.4000	0.87		1800	13.890	0.1133
					1110	1.8000	0.93		2400	12.670	0.1180
					1111	3.6000	0.99	4-9	1200	10.170	0.1262
					1112	4.8000	1.07		2400	8.650	0.1407

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0005962.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
			EVENT OF APRIL 7 - 10, 1976 (CONTINUED)							
			4-7	1115	2.0000	1.17	4-10	1200	7.130	0.1464
				1117	1.8000	1.23				
				1118	1.8000	1.26				
				1121	2.0000	1.36				
				1123	2.4000	1.44				
				1146	1.2783	1.93				
				1148	0.9000	1.96				
				1149	1.8000	1.99				
				1150	5.4000	2.08				
				1152	1.2000	2.12				
				1153	2.4000	2.16				
				1154	3.0000	2.21				
				1156	1.5000	2.26				
				1157	1.2000	2.28				
				1158	2.4000	2.32				
				1201	1.4000	2.39				
				1204	0.8000	2.43				
				1206	1.2000	2.47				
				1212	1.0000	2.57				
				1213	1.2000	2.59				
				1216	0.6000	2.62				
				1218	0.9000	2.65				
				1222	0.7500	2.70				
				1224	0.0	2.70				
				1229	0.0	2.70				
				1239	0.0600	2.71				
				1246	0.0857	2.72				
				1253	0.0857	2.73				
				1304	0.1091	2.75				
				1310	0.1000	2.76				
				1332	0.0	2.76				
				1338	0.1000	2.77				
				1344	0.0	2.77				
				1350	0.1000	2.78				
				1402	0.0500	2.79				
				1408	0.2000	2.81				
				1416	0.0	2.81				
				1428	0.1000	2.83				
				1440	0.0	2.83				
				1446	0.1000	2.84				
				1451	0.1200	2.85				
				2400	0.0	2.85				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00005962.



EVENT OF APRIL 7 - 10, 1976  
CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO



CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 29, T. 7 N., R. 9 W., lat 35 deg. 03 min. N., long. 98 deg. 10 min. W., 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	
1976 P	0.0	0.35	2.35	5.03	2.79	2.49	1.28	2.95	3.33	2.38	0.01	0.31	23.27	
Q	0.093	0.084	0.150	0.215	0.121	0.062	0.013	0.016	0.008	0.012	0.023	0.033	0.828	
STA AV P	0.90	1.16	1.90	2.89	4.28	2.81	2.30	2.57	3.95	2.49	1.82	0.92	27.99	
Q	0.065	0.077	0.118	0.122	0.166	0.094	0.039	0.014	0.021	0.032	0.044	0.053	0.843	

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		8 Days					
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1976	4-19	0.603	4-19	0.003	4-19	0.005	4-19	0.015	4-19	0.024	4-19	0.035	4-19	0.049	4-15	0.133

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	6-2	0.342	6-2	0.041	6-2	0.079	6-2	0.193	6-2	0.273	6-2	0.315	6-1	0.372	5-31	0.461
	1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 11%; row crop - 3%; alfalfa - 2%; pasture and range - 74%; and miscellaneous - 10%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.11-4 (Topography) and 1965, USDA 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 Aug. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 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	0.0	0.0	0.0	0.0	0.05	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	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0		
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.73	0.0	0.18	0.0	0.0		
5	0.0	0.35	0.0	0.0	0.31	0.0	0.0	0.60	0.0	0.08	0.0	0.23		
6	0.0	0.0	0.0	0.0	3.0 T	0.0 T	0.0	0.02	0.01	0.0	0.0	0.08		
7	0.0	0.0	0.78	0.89	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0		
8	0.0	0.0	0.82	0.0	0.0	0.0	0.0	0.0	1.13	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	0.10	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.10	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0		
12	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	1.14	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.22	0.23	0.0	0.86	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0 T	0.0		
15	0.0	0.0	0.0	1.29	0.0	0.0	0.64	0.0	0.0	0.05	0.0	0.0		
16	0.0	0.0	0.0	0.14	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.06	0.0	0.0		
19	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.56	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.13	0.72	0.0	0.07	0.0	0.13	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.33	0.0	0.04	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.07	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.13	0.04	0.0	0.0		
28	0.0	0.0	0.0 T	0.85	0.0	0.0	0.19	0.01	0.0	0.05	0.0 T	0.0		
29	0.0	0.0	0.08	0.0	0.01	0.0	0.0	0.32	0.0	1.36	0.0	0.0		
30	0.0	0.0	0.0	0.13	0.52	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.35	2.35	5.03	2.79	2.49	1.28	2.95	3.33	2.38	0.01	0.31		
STA AV	0.90	1.16	1.90	2.89	4.28	2.81	2.30	2.57	3.95	2.49	1.82	0.92		

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 values are based on 16 yr (1961-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.310	2.880	2.750	2.750	7.190	4.707	0.770	0.040	0.060	0.140	0.830	0.830
2	3.690	2.850	2.750	2.520	4.980	3.000	0.720	0.040	0.040	0.110	0.830	0.830
3	3.550	2.850	6.608	2.400	3.840	2.630	0.570	0.040	0.030	0.110	0.770	1.010
4	3.130	2.880	5.730	2.400	3.690	2.290	0.670	13.304	0.020	0.110	0.770	1.010
5	3.130	4.150	3.690	2.400	3.840	2.080	0.670	1.364	0.020	0.280	0.670	1.140
6	3.690	3.400	3.400	2.520	5.920	2.080	0.570	1.177	0.020	0.230	0.670	1.700
7	2.520	2.750	5.459	7.799	4.150	2.080	0.490	0.310	0.020	0.280	0.670	1.140
8	2.290	4.640	29.611	6.630	3.550	1.790	0.410	0.180	0.174	0.490	0.620	1.140
9	2.520	4.310	16.416	3.990	3.400	1.530	0.340	0.120	1.002	0.280	0.720	1.210
10	3.550	3.840	7.410	3.270	3.550	1.370	0.410	0.090	0.060	0.250	0.720	1.140
11	3.690	3.550	6.330	3.000	3.270	1.210	0.450	0.050	0.020	0.200	0.720	1.140
12	3.690	3.550	6.120	2.880	3.550	1.140	0.450	0.040	0.076	0.160	0.670	1.140
13	3.840	3.550	4.640	3.000	3.550	1.140	0.490	0.020	3.753	0.140	0.720	1.140
14	3.400	3.400	4.640	3.000	3.000	1.210	1.080	0.020	0.380	0.160	0.830	1.210
15	3.550	3.400	4.640	13.203	2.880	1.080	0.890	0.020	0.230	0.180	0.890	1.210
16	3.270	3.400	4.150	18.483	2.750	0.950	1.980	0.020	0.200	0.280	0.890	1.140
17	3.130	3.130	3.840	21.121	2.520	0.890	0.770	0.020	0.180	0.230	0.890	1.210
18	3.270	2.890	3.690	11.434	2.400	1.140	0.410	0.020	0.180	0.250	0.890	1.210
19	3.130	2.880	3.840	34.928	2.400	1.210	0.310	0.020	0.200	0.280	0.850	1.290
20	3.000	3.000	3.400	17.605	2.290	0.890	0.230	0.020	0.230	0.280	0.890	1.080
21	3.130	2.520	3.000	9.650	2.290	0.770	0.140	0.020	0.180	0.310	0.770	0.950
22	3.130	2.400	3.130	6.750	2.290	0.670	0.120	0.020	0.140	0.280	0.830	0.950
23	3.130	2.750	3.000	5.350	4.980	0.712	0.120	0.020	0.120	0.310	0.890	0.950
24	3.270	2.630	3.000	4.470	3.000	20.301	0.110	0.020	0.110	0.410	0.890	1.370
25	3.130	2.400	3.270	3.840	3.000	3.785	0.080	0.020	0.110	0.340	1.010	1.290
26	2.880	2.520	3.130	3.840	7.190	1.790	0.070	0.020	0.110	0.340	1.010	1.210
27	2.880	2.630	2.880	3.690	5.530	1.370	0.060	0.020	0.180	0.450	0.830	1.290
28	3.000	2.750	2.880	11.825	3.840	1.140	0.060	0.020	0.250	0.450	0.830	1.290
29	3.000	2.750	3.270	9.920	3.000	0.950	0.070	0.040	0.200	1.896	0.830	1.210
30	3.000	2.630	2.630	6.960	2.630	0.830	0.060	0.040	0.180	2.532	0.830	1.210
31	3.000	2.630	2.630	19.660	19.660	19.660	0.040	0.040	0.040	1.080	1.080	1.080
MEAN	3.2225	3.1276	5.2236	7.7208	4.1977	2.2245	0.4390	0.5547	0.2825	0.4141	0.8090	1.1523
INCHES	0.093	0.084	0.150	0.215	0.121	0.062	0.013	0.016	0.008	0.012	0.023	0.033
STA AV	0.065	0.077	0.118	0.122	0.166	0.094	0.039	0.014	0.021	0.032	0.044	0.053

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0009276. To convert discharge in inches to AC-FT, multiply by 2.138. STA AV values are based on 15 yr (1962-76) record period.

CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER

LOCATION: West Bitter 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., E. 6 W., lat. 35 deg. 03 min. N., long. 97 deg. 51 min. W., 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 TABLER		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1976	P	0.0	0.33	3.12	3.89	2.34	2.33	1.81	1.70	2.99	2.02	0.11	0.46	21.10			
	Q	0.119	0.103	0.152	0.201	0.129	0.078	0.046	0.015	0.046	0.030	0.040	0.049	1.008			
STA AV	P	0.85	1.14	2.09	2.94	3.64	3.10	2.30	2.99	3.76	2.53	1.80	0.99	28.13			
	Q	0.083	0.093	0.238	0.323	0.375	0.383	0.121	0.169	0.198	0.177	0.133	0.079	2.373			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976	4-19	0.004	4-19	0.004	4-19	0.008	4-19	0.021	4-19	0.033	4-19	0.057	4-19	0.073	4-15	0.127

MAXIMUMS FOR PERIOD OF RECORD																
	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	5-31	1.996
	1967		1967		1967		1971		1971		1971		1971		1973	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 23%; row crop - 3%; alfalfa - 3%; pasture and range - 62% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, 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.

1976	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA		WATERSHED 511 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	0.01	0.0	0.08	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	0.39	0.0	0.0	0.0	0.0 T	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.33	0.0	0.0	0.24	0.0	0.0	0.95	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.38
6	0.0	0.0	0.0	0.0	0.01	0.10	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
7	0.0	0.0	0.81	0.25	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	1.17	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.06	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	0.06	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.13	0.0	0.01	0.0	1.15	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	0.66	0.01	0.0	0.87	0.0	0.03	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 T	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.76	0.0	0.0	1.22	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.17	0.0	0.0	0.08	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	0.20	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
18	0.0	0.0	0.0	0.01	0.0	0.17	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	1.43	0.0	0.0	0.0	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
20	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	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	0.0	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
23	0.0	0.0	0.0	0.0	0.04	0.59	0.0	0.10	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.04	0.0	0.0	0.81	0.0	0.09	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	0.25	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	0.79	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.13	0.92	0.0	0.0	0.40	0.03	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.09	0.0	1.44	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.15	0.14	0.0	0.0	0.0 T	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.33	3.12	3.89	2.34	2.33	1.81	1.70	2.99	2.02	0.11	0.46	21.10			
STA AV	0.85	1.14	2.09	2.94	3.64	3.10	2.30	2.99	3.76	2.53	1.80	0.99	28.13			

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 16 rain gages on the watershed. STA AV values are based on 16 yr (1961-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA			WATERSRED 511 NEAR TABLER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	7.370	5.970	5.540	5.540	8.420	6.289	2.190	0.870	1.230	1.230	2.550	2.680	
2	6.680	5.750	5.540	5.540	7.880	4.200	2.080	0.810	1.150	1.070	2.310	2.550	
3	5.750	5.970	5.970	5.970	5.970	3.540	2.080	0.750	1.070	1.000	2.310	2.680	
4	5.750	5.970	6.650	5.540	5.340	3.390	2.080	0.750	0.870	1.000	1.860	2.550	
5	5.540	7.130	5.970	5.540	4.940	3.090	2.190	0.828	0.810	1.230	1.970	2.680	
6	6.420	5.750	5.340	5.540	8.420	3.390	2.080	5.345	0.640	1.150	1.970	4.030	
7	4.750	5.750	6.279	5.970	6.190	3.390	1.970	2.190	0.490	1.230	1.970	3.390	
8	4.940	6.680	22.759	7.130	5.340	3.390	1.760	1.150	0.540	1.480	1.760	2.950	
9	4.940	6.650	25.623	6.650	5.140	3.240	1.760	0.930	1.000	1.570	1.760	2.680	
10	6.880	6.420	10.610	5.970	4.940	3.090	1.660	0.870	2.727	1.660	1.970	2.680	
11	7.630	6.190	8.420	5.750	5.340	2.680	1.760	0.690	1.150	1.390	2.190	2.430	
12	6.650	5.750	7.880	6.190	4.940	2.430	1.860	0.590	2.012	1.000	2.080	2.430	
13	6.880	4.940	6.680	5.970	5.140	2.550	1.760	0.490	30.320	1.000	2.080	2.430	
14	6.190	4.940	6.420	5.970	4.940	5.970	1.760	0.370	5.437	0.930	2.190	2.430	
15	5.750	5.540	6.420	8.150	4.380	3.390	4.118	0.410	3.672	0.930	2.310	2.430	
16	5.970	5.750	6.420	10.900	4.200	2.680	21.767	0.410	1.390	1.070	2.190	2.310	
17	6.190	5.750	5.970	8.970	3.860	2.430	2.950	0.370	1.230	0.930	2.310	2.310	
18	6.190	5.540	5.750	8.150	3.700	2.430	1.970	0.410	1.230	0.930	2.310	2.550	
19	6.190	5.540	4.940	64.377	3.700	2.680	1.860	0.410	1.310	1.000	2.680	2.820	
20	5.970	5.340	4.940	51.033	3.700	2.430	1.570	0.410	1.480	1.070	2.310	2.680	
21	5.970	5.340	5.340	12.400	3.700	2.310	1.310	0.410	1.390	1.230	2.080	2.310	
22	5.970	4.940	5.340	8.420	4.940	2.080	1.230	0.370	1.310	1.150	1.970	2.430	
23	6.190	4.940	4.940	7.370	5.970	2.190	1.000	0.370	1.230	1.310	1.970	2.550	
24	6.420	5.140	5.540	6.150	4.940	31.614	0.930	0.370	1.070	1.570	2.080	2.550	
25	6.880	5.340	6.190	5.540	4.750	6.093	1.150	0.410	1.310	1.480	2.430	2.550	
26	5.970	5.140	5.750	5.140	14.918	3.390	1.230	0.410	1.760	1.570	2.550	2.190	
27	5.750	5.340	5.340	5.140	25.969	2.950	0.930	0.410	1.150	1.760	2.080	2.310	
28	6.190	5.340	5.540	13.022	7.630	2.550	0.930	0.540	1.310	1.760	1.570	2.310	
29	6.190	5.340	15.848	13.667	5.340	2.310	1.860	0.450	1.310	3.785	1.760	2.190	
30	6.190		8.782	6.690	4.380	2.080	1.150	0.590	1.310	6.662	2.080	2.080	
31	6.190		5.970		16.733		0.930	0.810		3.240		1.480	
MEAN	6.153	5.668	7.835	10.681	6.637	4.142	2.383	0.780	2.430	1.561	2.122	2.537	
INCHES	0.119	0.103	0.152	0.201	0.129	0.078	0.046	0.015	0.046	0.030	0.040	0.049	
STA AV	0.083	0.093	0.238	0.323	0.375	0.383	0.121	0.169	0.198	0.177	0.133	0.079	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0006260. To convert discharge in inches to AC-FT, multiply by 3,168. STA AV values are based on 15 yr (1962-76) record period.



CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 7 N., R. 9 W., lat. 35 deg. 05 min. N., long. 98 deg. 11 min. W., 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)														CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO															
		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
1976	P	0.0	0.16	2.16	6.72	3.26	2.29	0.71	3.17	3.52	2.66	0.0	0.26	24.91	P	0.83	1.05	1.88	2.93	4.04	2.84	2.09	2.73	3.86	2.31	1.68	0.86	27.10	
	Q	0.086	0.085	0.114	0.359	0.172	0.103	0.008	0.0	0.000	0.0	0.0	0.002	0.929	Q	0.020	0.031	0.048	0.060	0.093	0.044	0.016	0.013	0.002	0.001	0.019	0.015	0.363	
STA AV		P	0.83	1.05	1.88	2.93	4.04	2.84	2.09	2.73	3.86	2.31	1.68	0.86	27.10	Q	0.020	0.031	0.048	0.060	0.093	0.044	0.016	0.013	0.002	0.001	0.019	0.015	0.363

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Vol.	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Vol.	Date	Vol.	
1976	4-18	0.002	4-21	0.002	4-21	0.004	4-21	0.013	4-21	0.025	4-17	0.038	4-17	0.075	4-16	0.238

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
5-11 1964	0.004	5-11 1964	0.004	5-11 1964	0.007	5-11 1964	0.021	5-11 1964	0.038	5-6 1969	0.070	5-6 1969	0.127	5-4 1969	0.278

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 28%; row crop - 6%; alfalfa - 6%; pasture and range - 34%; and miscellaneous - 26%. For maps of watershed, see Hydrologic Data for Experimental Agricultural watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.10-4 (Topography) and 1965, USDA 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 Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO													
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	0.12	0.0	0.0	0.0	1	0.83	1.05	1.88	2.93	4.04	2.84	2.09	2.73	3.86	2.31	1.68	0.86		
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	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.07	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	1.84	0.0	0.11	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	0.16	0.0	0.0	0.30	0.0	0.0	0.39	0.0	0.12	0.0	0.20	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	0.02	0.0	0.0	0.0	0.06	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	0.66	1.77	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	7	0.0	0.0	0.0	0.01	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0	0.28	0.05	0.0	0.88	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	0.01	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.49	0.0	0.24	0.0	0.0		
11	0.0	0.0	0.26	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.26	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	0.01	0.46	0.0	0.0	0.0	1.36	0.0	0.0	0.0	12	0.0	0.0	0.0	0.01	0.46	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	0.28	0.05	0.88	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.28	0.05	0.0	0.88	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	1.76	0.0	0.0	0.0	0.49	0.0	0.24	0.0	0.0	15	0.0	0.0	0.0	1.76	0.0	0.0	0.0	0.49	0.0	0.24	0.0	0.0		
16	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	17	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.05	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.05	0.0	0.0		
19	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.0	0.04	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	0.55	0.01	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.55	0.01	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.10	0.73	0.0	0.14	0.0	0.10	0.0	0.0	23	0.0	0.0	0.0	0.0	0.10	0.73	0.0	0.14	0.0	0.10	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.04	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.04	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.10	0.0	0.0	26	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.10	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.14	0.06	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.14	0.06	0.0	0.0		
28	0.0	0.0	0.0	1.18	0.0	0.0	0.11	0.0	0.0	0.05	0.0	0.0	28	0.0	0.0	0.0	1.18	0.0	0.0	0.0	0.11	0.0	0.0	0.05	0.0		
29	0.0	0.0	0.07	0.0	0.02	0.0	0.39	0.0	1.45	0.0	0.0	0.0	29	0.0	0.0	0.07	0.0	0.02	0.0	0.39	0.0	1.45	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.13	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.13	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.33	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.33	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.16	2.16	6.72	3.26	2.29	0.71	3.17	3.52	2.66	0.0	0.26	STA AV	0.83	1.05	1.88	2.93	4.04	2.84	2.09	2.73	3.86	2.31	1.68	0.86		

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 values are based on 16 yr (1961-76) record period.

1976	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	2.850	3.460	2.050	1.810	11.320	7.530	0.460	0.0	0.0	0.0	0.0	0.0
2	2.710	3.460	2.570	1.810	10.240	9.460	0.460	0.0	0.0	0.0	0.0	0.0
3	2.710	3.300	3.000	1.690	8.230	8.710	0.400	0.0	0.0	0.0	0.0	0.0
4	2.710	3.300	3.000	1.580	6.430	8.230	0.460	0.0	0.0	0.0	0.0	0.0
5	2.710	3.300	3.000	1.580	5.410	7.300	0.520	0.0	0.0	0.0	0.0	0.0
6	2.710	3.620	3.300	1.170	4.840	6.860	0.520	0.0	0.0	0.0	0.0	0.0
7	2.710	3.790	3.620	4.197	4.840	5.810	0.520	0.0	0.0	0.0	0.0	0.0
8	2.710	3.790	5.610	33.855	5.030	5.030	0.520	0.0	0.0	0.0	0.0	0.0
9	2.710	3.620	8.230	21.746	5.030	4.840	0.660	0.0	0.0	0.0	0.0	0.0
10	2.710	3.620	9.720	14.240	5.030	4.300	0.740	0.0	0.0	0.0	0.0	0.0
11	2.710	3.620	8.710	10.500	5.030	3.790	0.520	0.0	0.0	0.0	0.0	0.0
12	2.710	4.120	7.760	7.990	5.810	2.850	0.460	0.0	0.013	0.0	0.0	0.340
13	2.710	4.120	7.300	6.640	5.410	2.300	0.400	0.0	0.029	0.0	0.0	0.340
14	2.710	3.620	6.860	5.810	6.220	2.050	0.290	0.0	0.0	0.0	0.0	0.290
15	2.710	3.460	4.840	5.410	6.640	1.690	0.290	0.0	0.0	0.0	0.0	0.290
16	3.000	3.150	4.470	11.004	6.010	1.370	0.290	0.0	0.0	0.0	0.0	0.290
17	3.000	3.300	4.300	25.098	5.220	1.070	0.200	0.0	0.0	0.0	0.0	0.200
18	3.000	3.150	3.620	39.750	4.840	0.900	0.090	0.0	0.0	0.0	0.0	0.160
19	2.710	2.850	3.400	25.250	4.300	0.740	0.070	0.0	0.0	0.0	0.0	0.090
20	2.850	2.710	3.150	24.060	3.950	0.590	0.070	0.0	0.0	0.0	0.0	0.070
21	2.650	2.850	2.570	26.470	3.300	0.520	0.030	0.0	0.0	0.0	0.0	0.030
22	3.000	2.570	2.170	18.500	3.150	0.340	0.0	0.0	0.0	0.0	0.0	0.0
23	2.850	2.430	1.810	14.550	3.300	0.299	0.0	0.0	0.0	0.0	0.0	0.0
24	3.000	2.300	2.050	12.450	3.000	1.827	0.0	0.0	0.0	0.0	0.0	0.0
25	3.150	2.050	1.920	11.320	3.000	3.542	0.0	0.0	0.0	0.0	0.0	0.0
26	3.300	1.810	2.170	10.240	5.030	5.810	0.0	0.0	0.0	0.0	0.0	0.0
27	3.300	2.050	1.810	7.530	7.080	4.650	0.0	0.0	0.0	0.0	0.0	0.0
28	3.300	2.050	1.810	6.860	9.980	2.710	0.0	0.0	0.0	0.0	0.0	0.0
29	3.460	1.920	1.690	10.770	9.210	1.580	0.0	0.0	0.0	0.0	0.0	0.0
30	3.460		1.690	13.630	7.760	1.070	0.0	0.0	0.0	0.0	0.0	0.0
31	3.460		1.810		6.430		0.0	0.0		0.0		0.0
MEAN	2.916	3.082	3.873	12.583	5.841	3.592	0.257	0.0	0.001	0.0	0.0	0.068
INCHES	0.086	0.085	0.114	0.359	0.172	0.103	0.008	0.0	0.000	0.0	0.0	0.002
STA AV	0.020	0.031	0.048	0.060	0.093	0.044	0.016	0.013	0.002	0.001	0.019	0.015

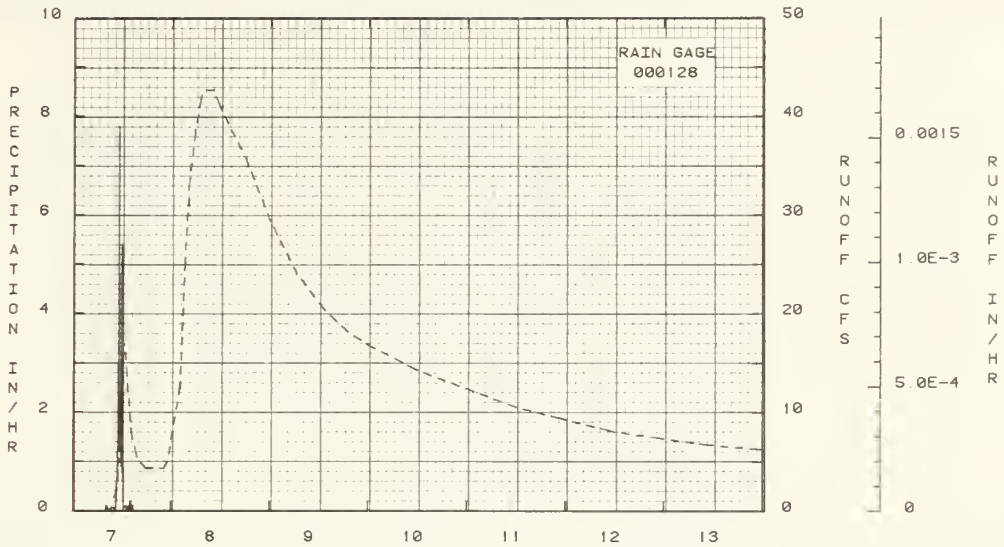
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .0009513. To convert discharge in inches to AC-FT, multiply by 2.085. STA AV values are based on 14 yr (1963-76) record period.

1976	SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO					
	ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 7 - 14, 1976											
4-7	RG 000128 0.0	0.001	4-7	RG 000128 804	0.0	0.0	4-7	1000	1.370	0.0	
				609	0.1200	0.01		1053	2.310	0.0001	
				827	0.0	0.01		1141	9.290	0.0002	
				833	0.1000	0.02		1211	16.260	0.0005	
				848	0.0400	0.03		1223	16.820	0.0006	
				854	0.0	0.03		1236	16.760	0.0008	
				907	0.0462	0.04		1311	13.580	0.0011	
				923	0.0	0.04		1411	7.970	0.0015	
				938	0.0800	0.06		1541	5.410	0.0019	
				950	0.0500	0.07		1741	4.300	0.0023	
				1011	0.0571	0.09		2211	4.300	0.0031	
				1021	0.0600	0.10		2311	5.030	0.0033	
				1031	0.0	0.10		2400	7.320	0.0035	
				1041	0.0600	0.11	4-8	130	11.070	0.0040	
				1044	0.2000	0.12		211	13.100	0.0043	
				1048	0.6000	0.16		311	24.980	0.0051	
				1049	0.6000	0.17		411	33.060	0.0062	
				1050	1.2000	0.19		541	38.710	0.0084	
				1056	0.8000	0.27		711	42.200	0.0108	
				1057	0.6000	0.28		811	42.650	0.0125	
				1059	2.4000	0.36		1000	42.670	0.0155	
				1101	2.4000	0.44		1200	40.630	0.0188	
				1102	3.0000	0.49		1800	35.750	0.0279	
				1104	2.7000	0.58		2400	29.410	0.0357	
				1105	4.8000	0.66	4-9	630	24.050	0.0426	
				1106	7.8000	0.79		1330	20.270	0.0487	
				1108	2.4000	0.87		1900	18.150	0.0529	
				1110	1.8000	0.93		2400	16.800	0.0564	
				1111	3.6000	0.99	4-10	1200	14.240	0.0637	
				1112	4.8000	1.07		2400	12.370	0.0773	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000039638.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			APRIL 7 - 14, 1976 (CONTINUED)							
4- 7			1115		2.0000	1.17	4-11	1200	10.500	0.0827
			1117		1.8000	1.23		2400	9.245	0.0927
			1118		1.8000	1.26	4-12	1200	7.990	0.0968
			1121		2.0000	1.36		2400	7.315	0.1044
			1123		2.4000	1.44	4-13	1200	6.640	0.1077
			1146		1.2783	1.93		2400	6.225	0.1141
			1148		0.9000	1.96	4-14	1200	5.810	0.1169
			1149		1.8000	1.99		2400	5.610	0.1224
			1150		5.4000	2.08				
			1152		1.2000	2.12				
			1153		2.4000	2.16				
			1154		3.0000	2.21				
			1156		1.5000	2.26				
			1157		1.2000	2.28				
			1158		2.4000	2.32				
			1201		1.4000	2.39				
			1204		0.8000	2.43				
			1206		1.2000	2.47				
			1212		1.0000	2.57				
			1213		1.2000	2.59				
			1216		0.6000	2.62				
			1218		0.9000	2.65				
			1222		0.7500	2.70				
			1224		0.0	2.70				
			1229		0.0	2.70				
			1239		0.0600	2.71				
			1246		0.0857	2.72				
			1253		0.0857	2.73				
			1304		0.1091	2.75				
			1310		0.1000	2.76				
			1332		0.0	2.76				
			1338		0.1000	2.77				
			1344		0.0	2.77				
			1350		0.1000	2.78				
			1402		0.0500	2.79				
			1408		0.2000	2.81				
			1416		0.0	2.81				
			1428		0.1000	2.83				
			1440		0.0	2.83				
			1445		0.1000	2.84				
			1451		0.1200	2.85				
			2400		0.0	2.85				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000039638.



EVENT OF APRIL 7 - 14, 1976  
CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO



CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH

LOCATION: Little Washita River Watershed above U.S. highway 81 bridge South of Chickasha in Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SE1/4 Sec. 32, T. 6 N., R. 7 W., Lat. 34 deg. 57 min. N., Long. 97 deg. 57 min. W., 5-1/2 miles South of Chickasha, Okla., at U.S. highway 81 bridge.

AREA: 132950.00 acres 207.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.0	0.28	2.70	4.44	3.19	2.67	2.26	2.77	2.82	2.49	0.06	0.57	24.25	
	Q 0.194	0.154	0.244	0.277	0.258	0.178	0.085	0.053	0.084	0.359	0.081	0.095	1.759	
STA AV	P 1.06	1.13	2.07	2.90	4.23	3.08	2.94	2.40	4.36	2.76	1.77	0.90	29.61	
	Q 0.109	0.108	0.177	0.192	0.302	0.259	0.230	0.083	0.129	0.137	0.126	0.099	1.949	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days					
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1976	5-26	0.016	5-26	0.015	5-26	0.029	5-26	0.062	5-26	0.080	5-26	0.095	5-26	0.106	5-23	0.150

MAXIMOMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	5-10	0.056	5-10	0.055	5-10	0.108	7-23	0.261	7-23	0.438	7-22	0.529	7-22	0.595	7-24	0.817
	1964		1964		1964		1973		1973		1973		1973		1975	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 15%; row crop - 2%; alfalfa - 1%; pasture and range - 66%; and miscellaneous - 16%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164; p. 69.15-4 (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.

1976	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH	
	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	0.02	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	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.35	0.0	0.0		
5	0.0	0.28	0.0	0.0	0.0	0.41	0.0	0.0	0.25	0.0	0.04	0.0	0.41	
6	0.0	0.0	0.0	0.01	0.0 T	0.06	0.0	0.07	0.0 T	0.0	0.0	0.0	0.15	
7	0.0	0.0	1.08	0.34	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	
8	0.0	0.0	3.91	0.0	0.0	0.0	0.0	0.0	0.93	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	0.04	0.0	0.0	0.0	0.0	0.01	
11	0.0	0.0	0.24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	
12	0.0	0.0	0.0	0.01	0.04	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.16	0.09	0.0	0.81	0.0	0.01	0.0	0.0	
14	0.0	0.0	0.0	0.0 I	0.0	0.0	0.09	0.0	0.0	0.0	0.02	0.0	0.0	
15	0.0	0.0	0.0	1.16	0.0	0.03	1.13	0.0	0.0	0.07	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.16	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0 T	0.02	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0 T	0.0	0.37	0.0	0.0	0.0	0.04	0.0	0.0	0.0	
19	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.01	0.02	0.01	0.0	0.0	
20	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.0	
22	0.0	0.0	0.0	0.0	0.44	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.19	0.88	0.0	0.13	0.0	0.11	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.33	0.0	0.0 T	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0 T	1.31	0.0	0.0	0.0	0.0 T	0.07	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.07	0.06	0.06	0.0	0.0	0.0	
28	0.0	0.0	0.33	0.81	0.0	0.0	0.70	0.0 T	0.0	0.0	0.0 T	0.0	0.0	
29	0.0	0.0	0.30	0.0	0.10	0.0	0.0 T	0.56	0.0	1.31	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.11	0.17	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.28	2.70	4.44	3.19	2.67	2.26	2.77	2.82	2.49	0.06	0.57		
STA AV	1.06	1.13	2.07	2.90	4.23	3.08	2.94	2.40	4.36	2.76	1.77	0.90		

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 values are based on 16 yr (1961-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)					CHICKASPA, OKLAHOMA			WATERSHED 522 NEAR MINNEKAH		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	39.30	26.50	35.60	35.00	42.00	19.90	19.90	8.70	17.60	6.70	15.40	17.00
2	36.60	25.30	35.00	35.00	35.00	15.50	15.50	7.50	13.40	8.30	15.90	17.60
3	35.00	25.10	35.80	34.10	35.80	14.90	17.00	6.90	11.50	8.30	15.40	17.00
4	33.30	25.80	39.30	34.10	37.50	15.90	15.50	20.38	9.80	6.70	15.40	14.90
5	35.00	32.50	35.00	33.30	35.00	17.00	15.40	21.10	8.70	10.70	15.40	16.50
6	35.80	36.60	33.30	34.10	47.70	23.00	13.90	23.69	7.60	10.70	15.40	25.10
7	25.60	30.90	38.23	39.30	34.10	19.30	12.40	16.50	6.90	11.50	15.40	22.40
8	53.90	30.90	180.46	45.80	29.40	20.50	12.40	12.90	7.90	13.90	14.90	16.70
9	51.80	30.90	113.30	36.60	28.60	20.50	12.40	10.70	19.90	12.00	14.40	17.60
10	56.00	29.40	56.00	31.70	30.20	20.50	12.40	8.30	16.50	10.70	14.40	17.00
11	47.70	29.40	49.70	28.60	30.20	19.90	13.90	6.60	15.40	9.80	14.50	17.60
12	39.30	28.60	59.40	29.40	27.20	18.10	13.90	5.60	15.02	7.60	14.50	24.90
13	37.50	27.90	43.80	30.90	27.90	17.60	12.90	5.10	96.96	0.60	14.50	22.52
14	35.60	27.20	40.10	30.20	28.60	17.00	12.90	5.30	45.08	0.30	15.40	18.10
15	35.60	28.60	39.30	44.59	26.60	15.90	45.12	4.50	21.10	8.84	16.50	17.60
16	36.60	27.20	35.00	65.36	26.50	13.90	45.95	4.30	17.60	9.40	15.90	16.50
17	33.30	28.60	35.00	58.35	24.40	13.90	18.70	3.80	14.40	6.30	14.90	16.50
18	28.60	28.60	35.80	62.28	24.40	16.50	15.40	4.50	12.40	8.30	14.40	16.50
19	33.30	30.20	35.00	332.76	24.40	17.00	13.50	4.00	11.50	8.70	13.50	16.50
20	31.70	30.20	32.50	131.27	23.00	14.90	12.00	3.30	11.50	2.70	15.40	15.40
21	32.50	31.70	32.50	47.70	21.10	14.40	10.20	1.70	11.10	8.70	14.90	14.40
22	30.90	30.20	32.50	34.10	21.80	13.90	9.00	1.00	9.40	5.40	14.90	15.40
23	29.40	30.20	30.90	26.50	27.20	13.75	8.70	1.50	7.90	9.80	14.90	14.90
24	28.60	30.20	27.90	25.10	24.40	403.84	8.30	1.30	7.50	10.70	15.40	14.90
25	30.90	30.90	27.20	26.50	26.50	66.11	7.90	27.25	7.20	12.00	15.40	14.40
26	28.60	30.20	27.20	28.60	368.67	34.10	7.90	1.00	7.20	13.40	15.40	13.50
27	27.20	30.20	27.20	28.60	207.61	27.50	7.50	0.50	8.30	13.50	15.40	14.40
28	28.60	31.70	29.40	55.46	42.90	24.40	7.20	0.50	9.00	12.90	14.50	15.90
29	28.60	33.30	53.49	57.17	25.80	21.10	23.96	7.49	9.00	20.50	13.90	16.50
30	27.90	30.90	35.00	47.70	24.40	19.30	15.40	30.16	9.40	27.20	14.90	17.00
31	27.90	30.90	35.00	28.60	28.60	10.70	21.34	21.34	18.10	18.10	14.40	14.40
MEAN	34.942	29.638	44.067	51.671	46.460	33.057	15.336	8.555	15.573	10.666	15.103	17.161
INCHES	0.154	0.154	0.244	0.277	0.258	0.178	0.085	0.050	0.094	0.059	0.081	0.095
STA AV	0.109	0.108	0.177	0.192	0.302	0.259	0.230	0.083	0.129	0.137	0.126	0.099

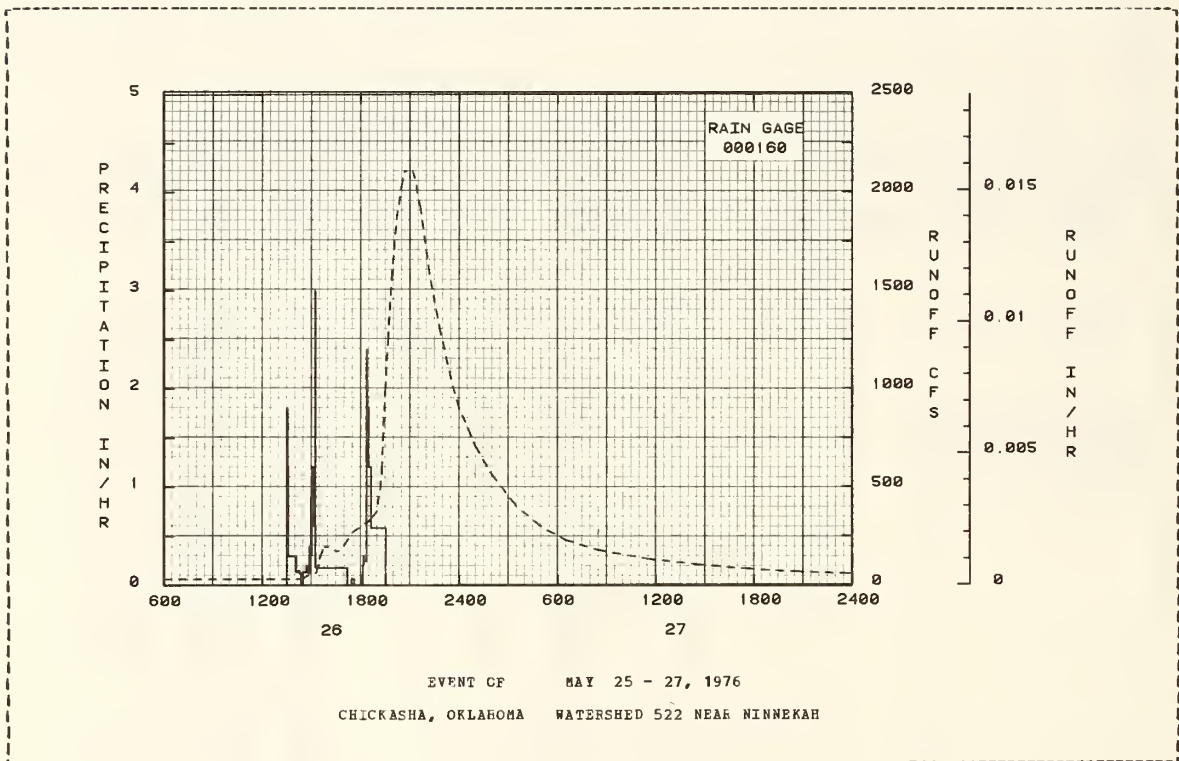
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,083. STA AV values are based on 14 yr (1963-76) record period.

1976		SELECTED RUNOFF EVENT			CHICKASPA, OKLAHOMA			WATERSHED 522 NEAR MINNEKAH		
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 MAY 25 - 27, 1976										
BG 000160		EG 000160								
5-26	0.0		5-26	310	0.0	0.0	5-25	2400	31.700	0.0
5-25		0.014		353	0.0279	0.02	5-26	1423	33.300	0.0035
				1330	0.0	0.02		1448	51.100	0.0036
				1332	1.8000	0.08		1518	66.200	0.0038
				1334	1.2000	0.12		1530	159.400	0.0040
WATERSHED CONDITIONS:										
From a revised 1974 survey;										
sowed crop - 15%; row crop -										
2%; alfalfa - 1%; pasture										
and range - 66%; miscel-										
laneous - 16%.										
				1335	1.2000	0.14		1541	183.100	0.0042
				1404	0.2857	0.26		1548	155.600	0.0044
				1413	0.1333	0.30		1690	154.200	0.0047
				1417	0.1500	0.31		1630	174.900	0.0053
				1422	0.1200	0.32		1641	176.300	0.0056
				1428	0.0	0.32		1700	205.600	0.0060
				1441	0.1335	0.35		1730	271.600	0.0069
				1447	0.2000	0.37		1830	327.500	0.0092
				1452	0.1200	0.38		1500	376.800	0.0105
				1458	0.4000	0.42		1911	494.100	0.0111
				1500	0.9000	0.45		1918	550.198	0.0115
				1502	0.3000	0.46		1923	816.096	0.0120
				1505	0.8000	0.50		1930	996.795	0.0126
				1506	1.2000	0.52		1941	1290.999	0.0143
				1508	0.6000	0.54		1953	1565.656	0.0165
				1511	1.0000	0.59		2011	1867.259	0.0203
				1513	0.9000	0.62		2030	2031.599	0.0249
				1514	3.0000	0.67		2041	2106.398	0.0277
				1711	0.1744	1.01		2046	2108.398	0.0296
				1728	0.0	1.01		2111	2105.100	0.0356
				1737	0.0667	1.02		2118	2070.500	0.0374
				1755	0.0	1.02		2141	1850.098	0.0431
				1807	0.0	1.02		2211	1585.099	0.0455
				1810	0.2000	1.03		2248	1307.996	0.0562
				1812	0.3000	1.04		2330	1048.058	0.0623

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000007457.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 522 NEAR NINNEKAH							
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 25 - 27, 1976 (CONTINUED)							
			5-26	1822	0.2400	1.08	5-26	2400	897.598	0.0660
				1823	2.3984	1.12	5-27	100	703.799	0.0719
				1828	1.8000	1.27		200	559.198	0.0766
				1838	1.2000	1.47		330	399.100	0.0620
				1932	0.5778	1.95		500	296.000	0.0859
								630	226.300	0.0888
								830	175.100	0.0918
								1130	131.100	0.0952
								1500	98.500	0.0982
								1800	77.500	0.1002
								2100	63.900	0.1018
								2400	56.000	0.1031

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007457.



CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER

LOCATION: East Bitter Creek watershed above U.S. Highway 62 bridge at Tabler, in Grady County, Okla.; tributary to Washita River; Ped River Basin. GAGING STATION--SW1/4 sec. 27, T. 7 N., R. 6 W., lat. 35 deg. 05 min. N., long 97 deg. 50 min. W., at Tabler, Okla., at U.S. highway 62 bridge.

AREA: 22530.00 acres 35.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1976	P	0.0	0.32	3.05	3.51	1.81	2.76	3.50	1.73	2.79	2.17	0.13	0.57	22.34														
	Q	0.161	0.147	0.233	0.182	0.130	0.108	0.158	0.035	0.050	0.048	0.063	0.077	1.393														
STA AV	P	0.92	1.24	2.00	2.91	3.98	3.32	2.49	3.05	4.05	2.72	1.90	1.04	29.62														
	Q	0.145	0.150	0.276	0.345	0.541	0.471	0.146	0.172	0.198	0.204	0.205	0.135	2.988														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days			
	Date	Date	Date	Date	6 Hours	12 Hours	Date	Date	Date	Date	Date	Date	Date	Date		
1976	7-16	0.011	7-16	0.011	7-16	0.021	7-15	0.046	7-15	0.064	7-15	0.097	7-15	0.111	7-14	0.135
MAXIMUMS FOR PERIOD OF RECORD																
	5-24	0.203	5-24	0.200	5-24	0.392	5-24	0.888	5-24	1.013	5-24	1.090	5-24	1.147	5-31	2.221
	1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 7%; alfalfa - 2%; pasture and range - 83%; miscellaneous - 8%. 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 records began Oct. 1961; runoff records began Aug. 1963. STA AV (P) values are a Thiessen weighted average of 10 gages for 1961-66, 31 gages for 1967-74, and 27 gages for 1975-76. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 512 AT 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	0.0	0.08	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	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0															
4	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.08	0.0	0.0															
5	0.0	0.32	0.0	0.0	0.24	0.0	0.0	0.99	0.0	0.11	0.0	0.46															
6	0.0	0.0	0.0	0.0	0.0 T	0.18	0.0	0.17	0.0	0.0	0.0	0.11															
7	0.0	0.0	1.05	0.30	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0															
8	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0															
9	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.05	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0															
11	0.0	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.10	0.0															
12	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	1.24	0.0	0.0	0.0															
13	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.80	0.0	0.02	0.0															
14	0.0	0.0	0.0	0.0 T	0.0	0.0	0.04	0.0	0.01	0.0	0.01	0.0															
15	0.0	0.0	0.0	0.80	0.0	0.0	2.60	0.0	0.0	0.02	0.0	0.0															
16	0.0	0.0	0.0	0.17	0.0	0.0	0.17	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 T	0.0	0.0	0.0															
18	0.0	0.0	0.0	0.02	0.0	0.16	0.0	0.0	0.0	0.03	0.0	0.0															
19	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.01	0.0 T	0.0	0.0															
20	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	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	0.40	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.0	0.0	0.0	0.04	0.73	0.0	0.14	0.0	0.12	0.0	0.0															
24	0.0	0.0	0.02	0.0	0.0	1.07	0.0	0.0 T	0.0	0.0	0.0	0.0															
25	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.05	0.0	0.0															
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.03	0.04	0.0	0.0															
28	0.0	0.0	0.19	0.97	0.0	0.0	0.59	0.0	0.0	0.0 T	0.0	0.0															
29	0.0	0.0	0.31	0.0	0.0 T	0.0	0.0	0.06	0.0	1.52	0.0	0.0															
30	0.0	0.0	0.0	0.13	0.15	0.0	0.0	0.0	0.0	0.03	0.0	0.0															
31	0.0	0.0	0.0	0.16	0.16	0.0	0.0	0.35	0.0	0.0	0.0	0.0															
TOTAL	0.0	0.32	3.05	3.51	1.81	2.76	3.50	1.73	2.79	2.17	0.13	0.57															
STA AV	0.92	1.24	2.00	2.91	3.98	3.32	2.49	3.05	4.05	2.72	1.90	1.04															

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. STA AV values are a Thiessen weighted average of 10 gages for 1961-66, 31 gages for 1967-74, and 27 gages for 1975 and 1976. STA AV values are based on 16 yr for total period of record (1961-76).



1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.670	4.580	4.870	4.730	4.580	3.150	1.410	1.090	1.090	1.280	2.040	2.310
2	5.340	4.580	5.160	4.580	4.290	2.820	1.410	1.030	0.920	1.090	1.950	2.310
3	5.030	4.580	5.160	4.430	4.020	2.710	1.340	0.980	0.770	1.090	1.950	2.410
4	5.030	4.580	5.670	4.430	4.020	2.710	1.410	0.920	0.640	1.090	1.870	2.410
5	4.730	5.340	5.340	4.430	4.020	2.610	1.480	1.285	0.480	1.280	1.790	2.510
6	5.340	5.030	5.340	4.580	4.870	3.510	1.410	7.566	0.420	1.280	1.870	3.630
7	3.890	4.870	6.171	5.340	4.430	3.040	1.280	1.710	0.360	1.340	1.790	2.610
8	4.150	5.180	17.998	5.500	4.020	2.710	1.280	1.210	0.628	1.630	1.790	2.310
9	4.580	5.030	18.202	4.580	3.890	2.510	1.150	1.090	2.495	1.560	1.790	2.310
10	5.670	4.870	7.690	4.290	4.020	2.220	1.150	0.980	0.640	1.340	1.870	2.310
11	5.840	5.030	6.720	4.150	4.020	2.040	1.210	0.870	0.560	1.090	1.870	2.310
12	5.180	5.180	6.540	4.150	3.890	1.950	1.410	0.820	1.644	0.980	1.870	2.310
13	5.340	5.030	5.670	4.150	4.290	2.610	1.210	0.820	13.979	0.980	1.870	2.310
14	5.030	5.030	5.500	4.290	3.890	3.890	1.090	0.600	2.610	0.920	1.950	2.310
15	4.870	4.870	5.340	6.540	3.760	2.220	34.845	0.560	1.480	0.920	1.950	2.310
16	4.870	5.180	5.340	7.100	3.510	2.040	66.664	0.640	1.280	0.920	2.130	2.310
17	5.030	5.030	5.340	5.340	3.270	1.950	7.917	1.090	1.280	0.920	2.130	2.310
18	5.030	4.730	5.340	5.180	2.920	2.510	3.150	0.820	1.340	0.920	2.220	2.310
19	5.030	4.730	5.340	20.446	2.920	2.130	3.270	0.770	1.340	1.030	2.220	2.310
20	4.730	4.870	4.870	11.020	2.920	1.950	2.510	0.820	1.410	1.030	2.220	2.220
21	4.730	4.730	4.870	6.010	2.920	1.790	1.560	0.820	1.280	1.150	2.040	2.220
22	4.870	4.430	4.870	4.870	2.920	1.630	1.150	0.640	1.210	1.150	2.040	2.220
23	4.870	4.430	4.870	4.730	4.730	1.703	0.980	0.920	1.150	1.710	2.130	2.310
24	4.870	4.430	4.870	4.430	3.630	30.830	0.920	0.520	1.090	1.790	2.040	2.310
25	4.730	4.430	6.720	4.290	3.380	4.020	0.820	0.536	1.030	1.560	2.220	2.310
26	4.580	4.580	11.620	4.150	5.833	3.270	0.770	1.576	1.030	1.480	2.310	2.310
27	4.580	4.730	11.360	4.020	6.346	2.610	0.680	0.450	1.150	1.560	2.040	2.310
28	4.870	4.730	11.100	8.639	4.430	2.130	0.730	0.360	1.280	1.630	1.950	2.310
29	4.730	4.730	11.360	7.360	3.760	1.710	2.324	0.390	1.280	3.615	2.040	2.220
30	4.730		7.100	4.870	3.380	1.410	1.410	0.520	1.280	4.430	2.040	2.220
31	4.730		4.580	4.430	4.430		1.280	0.820		2.310		1.950
MEAN	4.9248	4.8117	7.1277	5.7541	3.9776	3.4127	4.8135	1.0717	1.5716	1.4540	1.9997	2.3490
INCHES	0.151	0.147	0.233	0.182	0.130	0.108	0.158	0.035	0.050	0.048	0.063	0.077
STA AV	0.145	0.150	0.276	0.345	0.541	0.471	0.146	0.172	0.198	0.204	0.205	0.135

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1.878. STA AV values are based on 14 yr (1963-76) record period.

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 Washita River; Red River Basin. GAGING STATION--NE 1/4 sec. 18, T. 6 N., E. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., about 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1976	P	0.0	0.29	2.75	3.98	1.94	2.93	4.93	1.86	2.78	2.15	0.14	0.59	24.34														
	Q	0.152	0.129	0.175	0.216	0.130	0.115	0.568	0.075	0.059	0.061	0.076	0.085	1.841														
STA AV	P	1.06	1.19	1.78	2.93	4.26	3.04	2.48	2.70	4.22	2.71	1.92	1.12	29.40														
	Q	0.188	0.167	0.241	0.294	0.696	0.370	0.178	0.129	0.267	0.250	0.296	0.199	3.295														

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1976		7-15	0.061	7-15	0.057	7-15	0.104	7-15	0.194	7-15	0.235	7-15	0.318	7-15	0.395	7-15	0.609

MAXIMUMS FOR PERIOD OF RECORD																	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
		5-10	0.207	5-24	0.188	5-22	0.340	5-22	0.642	5-22	0.870	5-22	1.059	5-22	1.412	5-22	2.200
		1964		1973		1975		1975		1975		1975		1975		1975	

NOTES: Watershed conditions: from a revised 1974 survey; sowed crop - 9%; row crop - 1%; alfalfa - 1%; pasture and range - 82% and miscellaneous - 7%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.17-8 (Topography) 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.

1976 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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.03	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	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0														
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0														
5	0.0	0.29	0.0	0.0	0.29	0.0	0.0	0.97	0.0	0.08	0.0	0.0	0.42														
6	0.0	0.3	0.0	0.0	0.01	0.24	0.0	0.24	0.0	0.0	0.0	0.0	0.15														
7	0.0	0.3	1.05	0.32	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0														
8	0.0	0.3	0.96	0.0	0.0	0.0	0.0	0.0	0.56	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	0.10	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	0.02														
11	0.0	0.0	0.24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.10	0.0	0.0														
12	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.3														
13	0.0	0.0	0.0	0.0	0.0	0.37	0.01	0.0	0.79	0.0	0.02	0.0	0.0														
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.0														
15	0.0	0.3	0.0	0.76	0.0	0.04	4.05	0.0	0.0	0.04	0.0	0.0	0.0														
16	0.0	0.3	0.0	0.19	0.0	0.0	0.23	0.0	0.0	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	0.01	0.0	0.0	0.0	0.0														
18	0.0	0.0	0.0	0.01	0.0	0.17	0.0	0.0	0.0	0.04	0.0	0.0	0.0														
19	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.0	0.0														
20	0.0	0.3	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
21	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														
22	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														
23	0.0	0.0	0.0	0.0	0.09	1.00	0.0	0.22	0.0	0.12	0.0	0.0	0.0														
24	0.0	0.0	0.0	0.0	0.0	1.11	0.0	0.03	0.0	0.0	0.0	0.0	0.0														
25	0.0	0.3	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
26	0.0	0.3	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0														
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.03	0.0	0.0	0.0														
28	0.0	0.0	0.10	1.10	0.0	0.0	0.61	0.0	0.0	0.01	0.0	0.0	0.0														
29	0.0	0.0	0.20	0.0	0.01	0.0	0.0	0.07	0.0	1.44	0.0	0.0	0.0														
30	0.0	0.0	0.0	0.12	0.39	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0														
31	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0														
TOTAL	0.0	0.29	2.75	3.98	1.94	2.93	4.93	1.86	2.78	2.15	0.14	0.59															
STA AV	1.06	1.19	1.78	2.93	4.26	3.04	2.48	2.70	4.22	2.71	1.92	1.12															

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 values are based on 16 yr (1961-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 621 NEAR TABLER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	5.42	4.21	2.73	2.50	8.18	4.03	1.25	1.86	1.25	1.17	2.50	2.50	
2	5.00	4.21	2.73	2.27	6.59	3.24	1.33	1.96	1.10	1.10	2.27	2.50	
3	5.00	4.03	3.51	2.17	5.42	2.86	1.41	1.86	0.96	1.17	2.27	2.50	
4	4.79	4.03	3.65	2.50	4.79	2.50	1.50	1.77	0.89	1.25	2.27	2.50	
5	4.79	5.00	3.65	2.86	4.40	2.27	1.50	6.65	0.77	1.33	2.17	2.73	
6	4.59	5.21	3.51	2.98	5.87	5.31	1.41	18.09	0.77	1.33	2.27	3.85	
7	4.03	4.59	4.99	3.85	4.79	2.86	1.17	7.35	0.71	1.50	2.06	2.98	
8	2.98	4.59	14.59	4.59	3.85	2.38	1.17	3.38	0.85	1.67	1.96	2.73	
9	3.24	4.59	12.89	4.03	3.65	2.06	1.17	2.38	2.06	1.67	1.96	2.50	
10	4.59	4.59	9.36	3.65	3.65	1.86	1.17	1.96	1.10	1.58	1.96	2.38	
11	5.00	4.59	8.76	3.38	3.51	1.58	1.25	1.77	0.83	1.50	2.17	2.50	
12	4.59	4.40	9.06	3.38	3.65	1.58	1.17	1.58	1.10	1.41	2.27	2.50	
13	4.59	4.40	6.59	3.38	4.03	1.67	1.03	1.17	11.77	1.41	2.27	2.50	
14	4.40	4.40	6.10	3.38	3.65	1.67	1.10	0.96	2.50	1.33	2.27	2.38	
15	4.40	4.21	5.64	5.87	3.38	1.50	215.46	0.96	2.17	1.33	2.27	2.38	
16	4.40	4.21	5.21	6.59	3.24	1.10	113.21	0.89	1.96	1.33	2.27	2.38	
17	4.40	4.21	4.59	5.42	2.98	1.03	49.13	0.96	1.77	1.41	2.38	2.38	
18	4.40	4.03	4.40	4.79	2.73	1.17	34.78	0.96	1.77	1.41	2.38	2.38	
19	4.40	3.85	4.21	24.80	2.50	1.03	23.43	0.77	1.77	1.67	2.38	2.38	
20	4.21	3.85	4.21	16.47	2.38	0.83	13.95	0.77	1.77	1.67	2.38	2.38	
21	4.21	4.03	3.85	11.34	2.06	0.83	9.06	0.71	1.67	1.67	2.27	2.27	
22	4.21	3.38	3.65	9.36	1.77	0.77	6.34	0.71	1.58	1.67	2.27	2.27	
23	4.21	2.98	3.51	7.62	2.38	1.20	5.00	0.77	1.50	1.86	2.27	2.50	
24	4.40	2.98	3.38	6.84	2.06	31.90	4.03	0.71	1.50	1.96	2.27	2.38	
25	4.40	2.98	3.38	5.42	2.17	8.13	3.38	1.03	1.50	1.86	2.27	2.27	
26	4.40	2.98	3.24	4.79	4.03	5.64	2.73	0.71	1.50	1.86	2.50	2.27	
27	4.59	3.11	3.11	4.21	4.21	4.40	2.38	0.66	1.50	1.96	2.50	2.27	
28	4.03	2.86	2.86	15.58	2.86	3.24	1.86	0.66	1.50	1.96	2.27	2.27	
29	4.03	2.73	3.38	10.65	2.86	2.50	2.61	0.71	1.33	4.71	2.27	2.38	
30	4.21	3.24	3.24	9.06	2.50	1.58	1.96	0.77	1.10	4.21	2.27	2.27	
31	4.59		2.73		5.87		1.67	1.50		2.73		2.06	
MEAN	4.403	3.973	5.058	6.458	3.742	3.424	16.407	2.161	1.752	1.764	2.263	2.469	
INCHES	0.152	0.129	0.175	0.216	0.130	0.115	0.568	0.075	0.059	0.061	0.076	0.085	
STA AV	0.188	0.187	0.241	0.294	0.696	0.370	0.178	0.129	0.267	0.250	0.296	0.199	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1,776. STA AV values are based on 14 yr (1963-76) record period.

1976		SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA			WATERSHED 621 NEAR TABLER		
ANTECEDENT CONDITIONS		Date			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 15 - 22, 1976												
7-15	RG 000094 0.0	0.000	7-15	RG 000094 730	0.0	0.0	7-15	723	0.960	0.0		
				807	0.0973	0.06		748	1.250	0.0000		
				840	0.0182	0.07		906	1.250	0.0001		
				905	0.0960	0.11		923	1.960	0.0001		
				922	0.2824	0.19		936	2.060	0.0001		
WATERSHED CONDITIONS: From a revised 1974 survey; sowed crop - 9%; row crop - 1%; alfalfa - 1%; pasture and range - 82%; and miscel- laneous - 7%.				932	0.3000	0.24		1018	5.870	0.0003		
				941	0.9333	0.38		1041	15.600	0.0005		
				952	0.9818	0.56		1053	31.340	0.0007		
				1002	0.8400	0.70		1111	58.590	0.0013		
				1010	1.5750	0.91		1118	86.920	0.0017		
				1016	1.5000	1.06		1123	121.420	0.0021		
				1025	1.4667	1.28		1130	177.420	0.0029		
				1038	1.2923	1.56		1136	265.860	0.0039		
				1041	4.8000	1.80		1141	380.958	0.0052		
				1049	1.5750	2.01		1148	503.860	0.0076		
				1058	1.8667	2.29		1200	707.188	0.0132		
				1059	20.4000	2.63		1211	940.388	0.0203		
				1106	1.1143	2.76		1236	1247.280	0.0415		
				1116	1.2000	2.96		1248	1281.340	0.0532		
				1120	4.6500	3.27		1253	1316.039	0.0583		
				1134	0.8571	3.47		1306	1272.770	0.0713		
				1140	0.9000	3.56		1336	1033.590	0.0982		
				1149	1.6000	3.80		1341	975.510	0.1021		
				1203	0.4714	3.91		1411	961.360	0.1246		
				1224	0.0857	3.94		1436	796.198	0.1416		
				1251	0.0667	3.97		1506	574.550	0.1576		
				1322	0.0387	3.99		1600	380.958	0.1776		
				1353	0.1548	4.07		1700	251.680	0.1923		
				1423	0.0800	4.11		1806	175.250	0.2032		
				1446	0.0522	4.13		1900	152.800	0.2101		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00004654.

1976

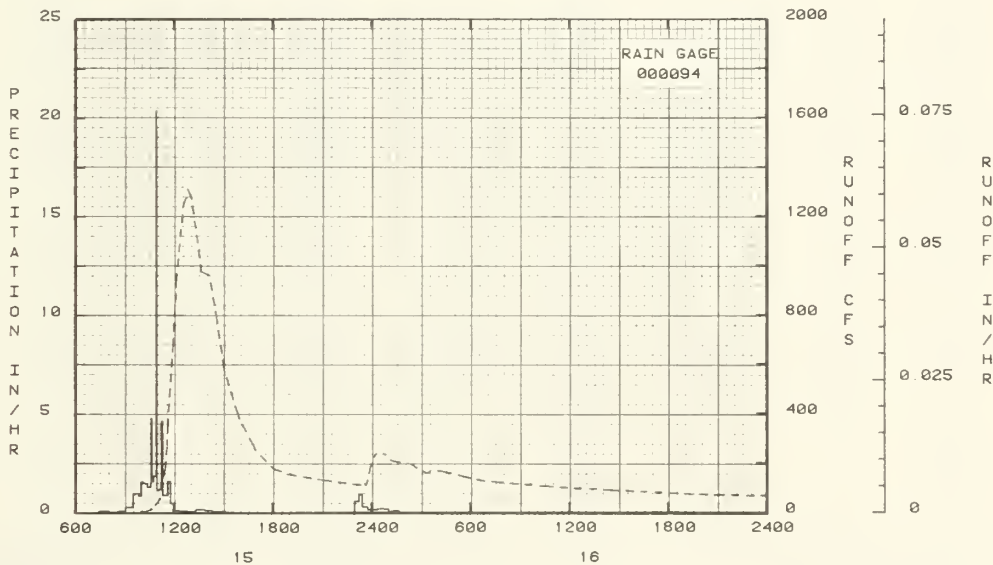
SELECTED RUNOFF EVENT

CHICKASHA, OKLAHOMA

WATERSHED 621 NEAR TABLER

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 15 - 22, 1976 (CONTINUED)										
			7-15	1459	0.0462	4.14	7-15	2106	129.810	0.2239
				1510	0.0545	4.15		2323	108.850	0.2366
				1517	0.0	4.15		2341	109.960	0.2381
				2300	0.0	4.15		2348	131.030	0.2388
				2316	0.5625	4.30		2400	197.830	0.2403
				2328	0.9000	4.48	7-16	11	224.920	0.2421
				2348	0.2700	4.57		18	238.040	0.2434
7-16				7	0.1263	4.61		48	238.040	0.2489
				23	0.1500	4.65		53	232.730	0.2498
				45	0.1909	4.72		118	207.400	0.2541
				104	0.1579	4.77		223	195.490	0.2643
				121	0.0353	4.78		323	156.830	0.2725
				134	0.0923	4.60		336	166.740	0.2741
				142	0.0750	4.81		411	166.740	0.2786
				145	0.0	4.81		453	156.830	0.2839
								600	137.240	0.2915
								653	124.980	0.2969
								800	119.080	0.3033
								1100	101.240	0.3186
								1500	85.940	0.3361
								2100	67.650	0.3575
								2400	65.110	0.3668
							7-17	1200	49.130	0.3987
								2400	41.955	0.4535
							7-18	1200	34.780	0.4750
								2400	29.105	0.5138
							7-19	1200	23.430	0.5285
								2400	18.690	0.5547
							7-20	1200	13.950	0.5638
								2400	11.505	0.5793
							7-21	1200	9.060	0.5851
								2400	7.700	0.5952
							7-22	1200	6.340	0.5991
								2400	5.670	0.6062

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654.



EVENT OF JULY 15 - 22, 1976  
CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER



CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER

LOCATION: Bedingfield Watershed is the West branch of East Bitter Creek 1.4 miles above East Bitter Creek gaging station, in Grady County, Okla.; tributary to East Bitter Creek; Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 22, T. 7 N., R. 6 W., lat. 35 deg. 03 min. 53 sec. N., long. 97 deg. 49 min. 13 sec. W.

AREA: 12314.00 acres 19.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P 0.0	0.31	3.24	3.53	1.83	2.68	3.14	1.73	2.89	2.12	0.15	0.61	22.23
	Q 0.179	0.160	0.212	0.220	0.151	0.112	0.107	0.022	0.043	0.042	0.061	0.071	1.380
STA AV	P 0.99	1.25	2.20	3.07	4.02	3.05	2.70	3.18	4.13	3.08	1.37	1.07	30.10
	Q 0.160	0.160	0.328	0.421	0.574	0.566	0.178	0.195	0.231	0.238	0.187	0.141	3.378

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1976	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days					
		Date	Vol.	Date	Vol.	6 Hours Date	12 Hours Date	1 Day Date	Vol.	Date	Vol.	Date	Vol.				
	7-15	0.006		6-24	0.005	6-24	0.010	6-24	0.022	7-15	0.038	7-15	0.058	7-15	0.064	3-7	0.103

MAXIMUMS FOR PERIOD OF RECORD																
	6-5	0.231	6-4	0.272	6-4	0.502	6-4	0.924	6-4	1.067	6-4	1.178	6-4	1.291	5-30	2.732
	1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: From a revised 1971 survey; 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. 69.15-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 18 gages for record period (1965-74) and 15 gages for 1975-76. Precipitation and runoff records began Jan. 1965. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 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	0.0	0.11	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	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0				
4	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0				
5	0.0	0.31	0.0	0.0	0.23	0.0	0.0	0.88	0.0	0.11	0.0	0.51				
6	0.0	0.0	0.0	0.0	0.01	0.09	0.0	0.19	0.0	0.0	0.0	0.10				
7	0.0	0.0	1.04	0.30	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0				
8	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.06	0.0	0.0	0.0				
10	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	0.06	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.11	0.0				
12	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	1.19	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.81	0.0	0.03	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.01	0.0				
15	0.0	0.0	0.0	0.82	0.0	0.0	2.19	0.0	0.0	0.02	0.0	0.0				
16	0.0	0.0	0.0	0.18	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0				
18	0.0	0.0	0.0	0.02	0.0	0.18	0.0	0.0	0.0	0.03	0.0	0.0				
19	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0				
20	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	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	0.48	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	0.67	0.0	0.12	0.0	0.10	0.0	0.0				
24	0.0	0.0	0.02	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.04	0.0	0.0				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.04	0.0	0.0				
28	0.0	0.0	0.23	0.96	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0				
29	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.10	0.0	1.54	0.0	0.0				
30	0.0	0.0	0.0	0.14	0.06	0.0	0.0	0.0	0.0	0.03	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.42	0.0	0.0	0.0	0.0				
TOTAL	0.0	0.31	3.24	3.53	1.83	2.68	3.14	1.73	2.89	2.12	0.15	0.61				
STA AV	0.99	1.25	2.20	3.07	4.02	3.05	2.70	3.18	4.13	3.08	1.37	1.07				

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 18 rain gages for record period (1965-74) and 15 gages for 1975-76. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLEE												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.430	2.750	2.970	3.080	3.670	1.760	0.770	0.430	0.430	0.490	1.080	1.140
2	3.310	2.750	2.750	2.970	3.190	1.530	0.770	0.400	0.370	0.460	1.030	1.080
3	2.970	2.750	2.550	2.860	2.650	1.460	0.730	0.400	0.310	0.460	1.030	1.140
4	2.860	2.750	2.860	2.860	2.550	1.330	0.730	0.400	0.200	0.460	0.970	1.140
5	2.750	2.860	2.450	2.970	2.550	1.200	0.770	0.554	0.150	0.530	0.920	1.260
6	3.190	3.670	2.450	2.970	3.310	1.760	0.730	2.889	0.150	0.530	0.970	1.830
7	2.750	2.550	2.779	3.310	2.750	1.600	0.640	0.730	0.150	0.560	0.970	1.390
8	2.450	3.310	9.172	3.800	2.550	1.460	0.600	0.490	0.130	0.680	0.970	1.260
9	2.750	3.030	13.736	3.190	2.550	1.330	0.600	0.430	1.814	0.640	0.970	1.200
10	3.550	3.080	4.910	2.970	2.650	1.200	0.600	0.370	0.370	0.560	1.030	1.200
11	3.430	2.970	4.060	2.860	2.750	1.080	0.640	0.310	0.240	0.530	1.030	1.140
12	3.190	2.970	3.550	2.650	2.550	0.970	0.770	0.310	0.537	0.460	1.030	1.140
13	3.080	2.970	3.080	2.650	2.750	1.140	0.680	0.260	7.490	0.430	1.030	1.140
14	2.970	2.860	3.080	2.650	2.450	2.970	0.640	0.240	1.140	0.430	1.140	1.140
15	3.190	2.850	3.080	3.800	2.260	1.830	17.475	0.220	0.640	0.430	1.140	1.200
16	3.190	2.850	2.750	4.620	2.000	1.260	15.089	0.220	0.530	0.430	1.080	1.140
17	3.080	2.860	2.750	3.670	1.680	0.870	1.760	0.220	0.560	0.430	1.080	1.140
18	3.080	2.750	2.750	3.310	1.680	1.680	1.080	0.200	0.560	0.460	1.140	1.140
19	3.080	2.750	2.750	11.640	1.600	1.390	0.920	0.200	0.600	0.530	1.140	1.140
20	2.970	2.850	2.650	7.685	1.600	0.970	0.920	0.160	0.600	0.530	1.080	1.140
21	2.850	2.550	2.550	4.330	1.600	0.920	0.820	0.160	0.600	0.560	1.080	1.140
22	2.860	2.550	2.550	3.550	1.600	0.870	0.730	0.150	0.530	0.600	1.080	1.200
23	2.970	2.650	2.550	3.080	3.310	0.920	0.730	0.200	0.490	0.912	1.080	1.200
24	2.970	2.650	2.550	2.860	2.360	17.760	0.640	0.180	0.490	0.967	1.080	1.200
25	2.970	2.750	2.860	2.550	2.170	2.360	0.560	0.180	0.490	0.820	1.140	1.200
26	2.750	2.650	2.750	2.550	4.012	2.000	0.560	0.160	0.530	0.770	1.200	1.140
27	2.550	2.750	2.650	2.450	4.361	1.600	0.530	0.150	0.530	0.820	1.030	1.200
28	2.970	2.970	3.080	6.127	2.750	1.140	0.655	0.120	0.600	0.820	0.970	1.140
29	2.970	3.080	4.470	5.627	2.170	0.870	1.884	0.150	0.600	1.840	0.970	1.140
30	2.970	3.430	3.800	3.800	1.920	0.820	0.680	0.220	0.560	2.260	1.080	1.030
31	2.750	3.080	3.080	2.260	2.260	0.490	0.490	0.370	0.370	1.260	0.970	0.970
MEAN	2.9954	2.8572	3.5369	3.7879	2.5242	1.9350	1.7804	0.3701	0.7464	0.6986	1.0513	1.1826
INCPES	0.179	0.160	0.212	0.220	0.151	0.112	0.107	0.022	0.043	0.042	0.061	0.071
STA AV	0.160	0.160	0.328	0.421	0.574	0.566	0.178	0.195	0.231	0.238	0.187	0.141

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 values are based on 12 yr (1965-76) record period.

CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocasset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 28, T. 8 N., R. 7 W., lat. 35 deg. 08 min. 44 sec. N, long. 97 deg. 57 min. 30 sec. W.

AREA: 15205.00 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	
1976	P	0.0	0.26	3.05	4.23	2.49	2.16	1.52	1.68	2.42	2.12	0.06	0.23	20.22	
	Q	0.066	0.046	0.155	0.193	0.125	0.029	0.013	0.003	0.038	0.002	0.004	0.007	0.680	
STA AV	P	0.96	0.95	2.20	3.18	4.45	3.20	2.38	2.35	3.53	2.85	1.41	0.90	28.36	
	Q	0.066	0.060	0.217	0.389	0.522	0.370	0.134	0.062	0.066	0.129	0.085	0.028	2.128	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
	9-14	0.009	9-14	0.009	9-14	0.015	4-19	0.035	4-19	0.049	4-19	0.066	4-19	0.082	4-16	0.139

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
4-12 1967	0.320	4-12 1967	0.314	4-12 1967	0.600	4-12 1967	1.201	4-12 1967	1.310	4-12 1967	1.338	4-12 1967	1.424	4-9 1967	1.720

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 36%; row crop - 2%; alfalfa - 2%; pasture and range - 53%; and miscellaneous - 7%. 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-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET	
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	0.01	0.0	0.03	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
3	0.0	0.0	1.13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.05	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.08	0.0	0.05	0.0	0.0	0.0	0.0
5	0.0	0.25	0.0	0.0	0.19	0.0	0.0	1.18	0.0	0.26	0.0	0.0	0.0	0.19
6	0.0	0.0	0.0	0.0 T	0.01	0.12	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.04
7	0.0	0.0	0.53	0.35	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0
8	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.0	0.17	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 T	0.0	0.0	0.0	0.0	0.0
10	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.21	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.02	0.0	0.0
12	0.0	0.0	0.0	0.0 T	0.18	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.87	0.0	0.0 T	0.92	0.0	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	0.22	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.83	0.0	0.0	1.19	0.0	0.0	0.11	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.16	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	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
18	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
20	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
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	0.50	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	0.04	0.49	0.0	0.04	0.0	0.06	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0
25	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
26	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.0
28	0.0	0.0	0.02	0.88	0.0	0.0	0.25	0.0	0.0	0.01	0.0	0.0	0.0	0.0
29	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0 T	0.0	1.28	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.20	0.06	0.03	0.0	0.0 T	0.0	0.03	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.26	3.05	4.23	2.49	2.16	1.52	1.68	2.42	2.12	0.06	0.23		
STA AV	0.96	0.95	2.20	3.18	4.45	3.20	2.38	2.35	3.53	2.85	1.41	0.90		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are Thiessen weighted average of 9 rain gages on the watershed. STA AV values are based on 10 yr (1967-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.780	2.080	0.850	0.730	3.130	0.980	0.130	0.0	0.0	0.0	0.060	0.110
2	3.260	0.850	0.980	0.910	2.400	0.620	0.090	0.0	0.0	0.0	0.060	0.130
3	2.510	0.680	6.505	1.260	1.780	0.520	0.090	0.0	0.0	0.0	0.080	0.130
4	1.420	0.850	7.934	1.690	1.420	0.440	0.110	0.0	0.0	0.010	0.080	0.110
5	1.260	0.980	4.130	2.080	1.340	0.400	0.110	0.010	0.0	0.010	0.060	0.110
6	1.340	0.910	2.880	1.340	1.510	0.480	0.090	0.564	0.0	0.010	0.060	0.150
7	0.980	0.850	2.400	0.980	1.260	0.480	0.060	1.146	0.0	0.030	0.060	0.130
8	0.790	0.980	11.479	1.420	0.850	0.440	0.050	0.260	0.0	0.0	0.040	0.130
9	0.850	1.110	16.335	0.910	0.910	0.360	0.050	0.040	0.0	0.020	0.050	0.150
10	1.110	0.980	6.630	0.850	0.980	0.320	0.050	0.010	0.0	0.040	0.060	0.110
11	1.260	1.420	4.290	0.910	0.910	0.260	0.050	0.0	0.0	0.040	0.080	0.130
12	1.260	1.110	4.940	0.790	1.780	0.260	0.040	0.0	0.026	0.010	0.080	0.150
13	1.340	0.850	3.000	0.730	1.780	1.121	0.030	0.0	0.556	0.0	0.080	0.170
14	1.340	0.850	2.290	0.680	1.190	1.970	0.030	0.0	19.946	0.0	0.080	0.170
15	1.260	0.980	2.080	1.780	1.110	0.790	0.116	0.0	3.175	0.0	0.080	0.170
16	1.260	1.260	1.880	2.880	0.980	0.400	1.864	0.0	0.200	0.0	0.060	0.170
17	1.190	1.860	1.800	3.000	0.910	0.320	2.926	0.0	0.050	0.0	0.080	0.150
18	1.190	1.190	1.510	3.680	0.790	0.260	1.190	0.0	0.030	0.0	0.060	0.130
19	1.110	1.110	1.780	27.924	0.680	0.230	0.910	0.0	0.040	0.010	0.080	0.130
20	1.040	1.040	1.420	23.215	0.620	0.170	0.320	0.0	0.020	0.010	0.110	0.130
21	0.910	0.910	1.420	7.595	0.570	0.200	0.110	0.0	0.010	0.010	0.080	0.130
22	0.910	0.980	1.250	4.450	0.520	0.200	0.050	0.0	0.010	0.010	0.060	0.130
23	1.040	1.340	1.040	7.530	1.420	0.170	0.030	0.0	0.010	0.040	0.110	0.130
24	1.040	0.680	0.960	3.834	0.910	3.973	0.020	0.0	0.010	0.040	0.090	0.130
25	1.110	0.570	1.110	2.180	0.730	1.340	0.010	0.0	0.040	0.040	0.090	0.130
26	1.190	0.620	1.190	1.690	27.322	0.730	0.010	0.0	0.040	0.040	0.090	0.150
27	1.040	0.680	1.040	1.340	12.141	0.440	0.010	0.0	0.010	0.040	0.090	0.200
28	1.260	0.790	0.980	6.186	3.980	0.320	0.010	0.0	0.010	0.060	0.090	0.200
29	1.260	0.850	1.040	6.700	3.000	0.200	0.010	0.0	0.0	0.320	0.090	0.200
30	2.180		1.190	3.630	1.780	0.150	0.010	0.0	0.0	0.200	0.090	0.200
31	2.400		0.790		1.420		0.0	0.0		0.110		0.200
MEAN	1.3513	1.0131	3.1920	4.1031	2.5846	0.6181	0.2767	0.0655	0.8061	0.0355	0.0760	0.1471
INCHES	0.066	0.046	0.155	0.193	0.125	0.029	0.013	0.003	0.038	0.002	0.004	0.007
STA AV	0.066	0.060	0.217	0.389	0.522	0.370	0.134	0.062	0.066	0.129	0.085	0.028

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1,267. STA AV values are based on 10 yr (1967-76) record period.



CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER

LOCATION: Watershed 515 lies northeast of Amber, in Grady County, Okla.; tributary of West Bitter Creek, Washita River; Red River Basin. GAGING STATION--at county road bridge, NE1/4 sec. 20, T. 8 N., R. 6 W., lat. 35 deg. 09 min. 37 sec.; long. 97 deg. 51 min. 06 sec.

AREA: 1620.00 acres 2.53 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER															
		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
1976	P	0.0	0.33	2.95	4.28	2.56	2.20	1.22	1.76	2.83	2.02	0.08	0.43	20.66	P	0.0	0.33	2.95	4.28	2.56	2.20	1.22	1.76	2.83	2.02	0.08	0.43	20.66	
	Q	0.024	0.019	0.054	0.186	0.039	0.029	0.003	0.002	0.002	0.001	0.004	0.007	0.371	Q	0.024	0.019	0.054	0.186	0.039	0.029	0.003	0.002	0.002	0.001	0.004	0.007	0.371	
STA AV	P	1.30	1.19	3.64	3.09	4.77	3.09	2.89	2.62	3.55	2.66	1.25	0.88	30.93	P	1.30	1.19	3.64	3.09	4.77	3.09	2.89	2.62	3.55	2.66	1.25	0.88	30.93	
	Q	0.208	0.246	0.860	0.495	0.912	0.735	0.178	0.184	0.037	0.135	0.179	0.049	4.218	Q	0.208	0.246	0.860	0.495	0.912	0.735	0.178	0.184	0.037	0.135	0.179	0.049	4.218	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		4-19	0.034	4-19	0.029	4-19	0.048	4-19	0.084	4-19	0.098	4-19	0.136	4-19	0.145	4-19	0.163

MAXIMUMS FOR PERIOD OF RECORD																	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6-2	0.126	6-2	0.114	6-2	0.207	6-2	0.459	6-2	0.678	6-2	0.865	6-1	1.051	5-30	2.318

NOTES: Watershed Conditions: The land use in 1975 was sowed crop - 22%; row crop - 9%; timbered pasture - 6%; timber - 3%; pasture - 51%; farmsteads - 3%; farm ponds - 3%; farm roads - 2% and highways - 1%. Precipitation Data obtained from a Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. Precipitation records began Oct. 1961. Runoff records began August 1972. STA AV values are based on 4 yr (1973-76) record period. For long-time precipitation records, see National Weather Service Records at Chickasha, OK.

1975 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER													
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	0.14	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.14	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				
3	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	3	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.03	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.0				
5	0.0	0.33	0.0	0.0	0.31	0.0	0.0	0.87	0.0	0.11	0.0	0.0	5	0.0	0.33	0.0	0.0	0.31	0.0	0.87	0.0	0.11	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.25	0.0	0.0	0.0	0.07	6	0.0	0.0	0.0	0.0	0.05	0.0	0.25	0.0	0.0	0.07				
7	0.0	0.0	0.67	0.27	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	7	0.0	0.0	0.67	0.27	0.0	0.0	0.0	0.0	0.11	0.0				
8	0.0	0.0	1.14	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	8	0.0	0.0	1.14	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	0.02	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0				
11	0.0	0.0	0.05	0.0	0.0	0.0	0.14	0.0	0.0	0.05	0.0	0.0	11	0.0	0.0	0.05	0.0	0.0	0.0	0.14	0.0	0.05	0.0				
12	0.0	0.0	0.0	0.0	0.10	0.0	0.03	0.0	1.12	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.10	0.0	0.03	0.0	1.12	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.92	0.0	0.03	0.0	13	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.92	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.08	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.08	0.0				
15	0.0	0.0	0.0	0.79	0.0	0.0	0.79	0.0	0.0	0.08	0.0	0.0	15	0.0	0.0	0.0	0.79	0.0	0.0	0.79	0.0	0.0	0.08				
16	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.02	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0				
19	0.0	0.0	0.0	1.78	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	19	0.0	0.0	0.0	1.78	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				
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	0.02	0.57	0.0	0.16	0.0	0.08	0.0	0.0	23	0.0	0.0	0.0	0.0	0.02	0.57	0.0	0.16	0.0	0.08				
24	0.0	0.0	0.07	0.0	0.0	0.70	0.0	0.20	0.0	0.0	0.0	0.0	24	0.0	0.0	0.07	0.0	0.0	0.70	0.0	0.20	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.05	0.0	0.0	26	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.05				
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.02	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.02	0.0				
28	0.0	0.3	0.11	0.83	0.0	0.0	0.20	0.06	0.0	0.01	0.0	0.0	28	0.0	0.3	0.11	0.83	0.0	0.0	0.20	0.06	0.0	0.01				
29	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.03	0.0	1.45	0.0	0.0	29	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.03	0.0	1.45				
30	0.0	0.0	0.0	0.16	0.36	0.0	0.0	0.0	0.0	0.02	0.0	0.0	30	0.0	0.0	0.0	0.16	0.36	0.0	0.0	0.0	0.0	0.02				
31	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.14	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.14	0.0	0.0				
TOTAL	0.0	0.33	2.95	4.28	2.56	2.20	1.22	1.76	2.83	2.02	0.08	0.43	TOTAL	0.0	0.33	2.95	4.28	2.56	2.20	1.22	1.76	2.83	2.02	0.08	0.43		
STA AV	1.30	1.19	3.64	3.09	4.77	3.09	2.89	2.62	3.55	2.66	1.25	0.88	STA AV	1.30	1.19	3.64	3.09	4.77	3.09	2.89	2.62	3.55	2.66	1.25	0.88		

NOTES: For daily air temperature in the vicinity, see table for Watershed W-700 (69.007) of this publication. Daily precipitation values Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. STA AV values are based on 4 yr (1973-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.060	0.050	0.050	0.060	0.130	0.050	0.010	0.0	0.0	0.0	0.0	0.010
2	0.050	0.050	0.050	0.050	0.110	0.040	0.010	0.0	0.0	0.0	0.010	0.010
3	0.050	0.050	0.060	0.050	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
4	0.050	0.050	0.050	0.050	0.090	0.040	0.020	0.0	0.0	0.0	0.010	0.010
5	0.060	0.060	0.040	0.050	0.090	0.040	0.020	0.072	0.0	0.0	0.010	0.010
6	0.060	0.040	0.040	0.060	0.200	0.040	0.010	0.051	0.0	0.0	0.010	0.010
7	0.050	0.050	0.070	0.060	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
8	0.050	0.050	1.383	0.060	0.070	0.040	0.010	0.0	0.0	0.0	0.010	0.010
9	0.060	0.050	0.394	0.050	0.070	0.040	0.010	0.0	0.0	0.0	0.010	0.010
10	0.060	0.050	0.150	0.050	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
11	0.060	0.050	0.110	0.050	0.090	0.040	0.010	0.0	0.0	0.0	0.010	0.010
12	0.060	0.050	0.090	0.050	0.090	0.040	0.010	0.0	0.018	0.0	0.010	0.010
13	0.060	0.050	0.070	0.050	0.090	0.070	0.010	0.0	0.149	0.0	0.010	0.010
14	0.050	0.040	0.070	0.050	0.090	0.050	0.010	0.0	0.0	0.0	0.010	0.020
15	0.050	0.050	0.060	0.090	0.090	0.030	0.020	0.0	0.0	0.0	0.0	0.020
16	0.050	0.050	0.060	0.070	0.110	0.030	0.020	0.0	0.0	0.0	0.0	0.020
17	0.050	0.040	0.060	0.070	0.090	0.030	0.010	0.0	0.0	0.0	0.010	0.020
18	0.050	0.040	0.060	0.050	0.090	0.050	0.010	0.0	0.0	0.0	0.010	0.020
19	0.050	0.040	0.060	0.205	0.070	0.040	0.010	0.0	0.0	0.0	0.010	0.020
20	0.050	0.040	0.050	0.866	0.070	0.030	0.0	0.0	0.0	0.0	0.010	0.020
21	0.050	0.040	0.050	0.250	0.060	0.020	0.0	0.0	0.0	0.0	0.010	0.020
22	0.050	0.040	0.050	0.170	0.070	0.020	0.0	0.0	0.0	0.0	0.010	0.020
23	0.050	0.040	0.050	0.130	0.090	0.025	0.0	0.0	0.0	0.0	0.010	0.020
24	0.050	0.040	0.050	0.110	0.050	1.049	0.0	0.0	0.0	0.0	0.010	0.020
25	0.050	0.040	0.050	0.090	0.060	0.020	0.0	0.0	0.0	0.0	0.010	0.020
26	0.050	0.050	0.050	0.090	0.170	0.010	0.0	0.0	0.0	0.0	0.010	0.020
27	0.060	0.050	0.050	0.090	0.070	0.010	0.0	0.0	0.0	0.0	0.010	0.020
28	0.050	0.050	0.060	0.636	0.060	0.010	0.0	0.0	0.0	0.0	0.010	0.020
29	0.060	0.050	0.240	0.170	0.060	0.010	0.0	0.0	0.0	0.036	0.010	0.020
30	0.060	0.050	0.060	0.130	0.050	0.010	0.0	0.0	0.0	0.010	0.010	0.020
31	0.050	0.050	0.060	0.070	0.070	0.0	0.0	0.0	0.0	0.010	0.010	0.010
MEAN	0.0539	0.0466	0.1215	0.4322	0.0877	0.0668	0.0074	0.0039	0.0055	0.0018	0.0090	0.0155
INCHES	0.024	0.019	0.054	0.166	0.039	0.029	0.003	0.002	0.002	0.001	0.004	0.007
STA AV	0.208	0.246	0.660	0.495	0.912	0.735	0.178	0.184	0.037	0.135	0.179	0.049

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.01469. Discharge rating curve estimated for flows greater than 60 CFS. STA AV values are based on 4 yr (1973-76) record period.

CHICKASHA, OKLAHOMA WATERSHED C-1

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, R. 7 W., T. 7 N., about 2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 46 sec. N.; Long. 97 deg. 54 min. 39 sec. W.

AREA: 17.63 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-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
1976	P	0.0	0.35	3.64	4.56	2.13	2.43	3.00	2.50	2.97	2.16	0.03	0.65	24.82	P	0.0	0.35	3.64	4.56	2.13	2.43	3.00	2.50	2.97	2.16	0.03	0.65	24.82	
	Q	0.0	0.0	0.003	0.583	0.0	0.261	0.329	0.001	0.192	0.0	0.0	0.0	1.370	Q	0.0	0.0	0.003	0.583	0.0	0.261	0.329	0.001	0.192	0.0	0.0	0.0	1.370	
STA AV	P	0.93	1.18	2.26	3.06	4.06	2.47	2.60	3.19	3.86	2.93	1.16	0.95	28.63	P	0.93	1.18	2.26	3.06	4.06	2.47	2.60	3.19	3.86	2.93	1.16	0.95	28.63	
	Q	0.084	0.305	0.160	0.171	0.440	0.193	0.427	0.271	0.267	0.390	0.179	0.044	2.631	Q	0.084	0.305	0.160	0.171	0.440	0.193	0.427	0.271	0.267	0.390	0.179	0.044	2.631	

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

1976	Maximum Discharge Date	Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
4-19	4-19	0.043	4-19	0.042	4-19	0.082	4-19	0.201	4-19	0.317	4-19	0.561	4-19	0.581	4-12	0.582

MAXIMUMS FOR PERIOD OF RECORD

5-24	0.116	3-10	0.085	3-10	0.164	10-30	0.459	10-2	0.814	10-30	1.504	10-30	2.662	7-22	3.189
1973		1973		1973		1972		1971		1972		1972		1975	

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 May 21. Tillage during the growing season consisted of rotary hoeing and cultivating. Cotton harvested Nov. 10. 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, USDA Misc. Pub. 1216, pp. 65.30-1 and 69.30-3. Monthly precipitation values obtained from one recording rain gage, No. 173, located near the 1.5 ft. H-flume. Precipitation and runoff records began January 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	3	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.16	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.16	0.0	0.0	0.0	0.0	
5	0.0	0.35	0.0	0.0	0.35	0.0	0.0	1.31	0.0	0.20	0.0	0.0	0.0	5	0.0	0.35	0.0	0.0	0.35	0.0	1.31	0.0	0.20	0.0	0.0	0.57	
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	0.08	6	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.08	
7	0.0	0.0	1.06	0.23	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	7	0.0	0.0	1.06	0.23	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	
8	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	8	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.62	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	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	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	0.10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.0	11	0.0	0.0	0.10	0.0	0.0	0.0	0.05	0.0	0.03	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.03	0.0	0.0	1.42	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.48	0.50	0.0	0.83	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.48	0.50	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	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	0.86	0.0	0.0	1.75	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.86	0.0	0.0	1.75	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.11	0.0	0.25	0.0	0.0	0.0	0.0	0.0	
17	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	0.23	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	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.0	0.0	
19	0.0	0.0	0.0	2.03	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	2.03	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	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	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	0.35	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	0.0	0.09	0.60	0.0	0.15	0.0	0.12	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.09	0.60	0.0	0.15	0.0	0.12	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.53	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.53	0.0	0.0	0.0	0.0	
25	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	25	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.57	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	0.57	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	
28	0.0	0.0	0.11	0.95	0.0	0.0	0.45	0.0	0.0	0.01	0.0	0.0	0.0	28	0.0	0.0	0.11	0.95	0.0	0.0	0.45	0.0	0.0	0.01	0.0	0.0	
29	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.22	0.0	1.30	0.0	0.0	0.0	29	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.22	0.0	1.30	0.0	0.0	
30	0.0	0.0	0.0	0.15	0.20	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	30	0.0	0.0	0.0	0.15	0.20	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.45	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.35	3.64	4.56	2.13	2.43	3.00	2.50	2.97	2.16	0.03	0.65	24.82	TOTAL	0.0	0.35	3.64	4.56	2.13	2.43	3.00	2.50	2.97	2.16	0.03	0.65	24.82
STA AV	0.93	1.18	2.26	3.06	4.06	2.47	2.60	3.19	3.86	2.93	1.16	0.95	28.63	STA AV	0.93	1.18	2.26	3.06	4.06	2.47	2.60	3.19	3.86	2.93	1.16	0.95	28.63

NOTES: Values obtained from one recording rain gage, No. 173. STA AV values are based on 12 yr (1965-76) record period.

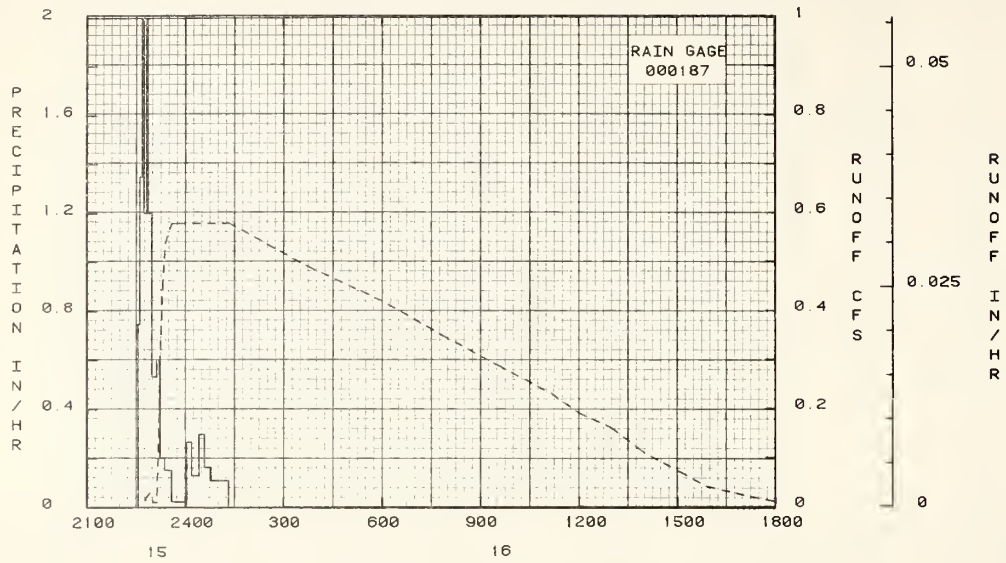
1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	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	0.001	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 T	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	0.002	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.137	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0 T	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0 T	0.0	0.0	0.228	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 T	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	0.390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.045	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	0.192	0.0	0.0 T	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0 T	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.002	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	0.0001	0.0146	0.0	0.0065	0.0080	0.0	0.0048	0.0	0.0	0.0
INCHES	0.0	0.0	0.003	0.583	0.0	0.261	0.325	0.001	0.192	0.0	0.0	0.0
STA AV	0.084	0.305	0.160	0.171	0.440	0.193	0.427	0.271	0.267	0.390	0.173	0.044

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.334522. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-1												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 15 - 16, 1976												
7-15	0.0	0.0	7-15	2233	0.0	0.0	7-15	2240	0.0	0.0		
				2237	0.7500	0.05		2245	0.002	0.0		
				2241	1.3500	0.14		2247	0.016	0.0003		
				2244	2.0000	0.24		2255	0.028	0.0002		
				2249	1.2000	0.34		2301	0.013	0.0003		
				2252	2.0000	0.44		2307	0.010	0.0003		
				2258	1.2000	0.56		2309	0.071	0.0004		
				2307	0.5333	0.64		2311	0.157	0.0006		
				2313	0.6000	0.70		2313	0.233	0.0010		
				2322	0.2000	0.73		2316	0.454	0.0028		
				2334	0.1500	0.76		2323	0.535	0.0050		
				2400	0.0231	0.77		2335	0.579	0.0113		
			7-16	2	0.0	0.77		2400	0.575	0.0247		
				11	0.2667	0.81	7-16	120	0.579	0.0676		
				25	0.1286	0.84		345	0.453	0.1397		
				35	0.3000	0.85		600	0.416	0.1955		
				46	0.1636	0.92		750	0.346	0.2334		
				119	0.1091	0.98		945	0.283	0.2689		
								1110	0.228	0.2890		
								1200	0.191	0.2988		
								1300	0.157	0.3084		
								1400	0.109	0.3156		
								1505	0.071	0.3213		
								1555	0.041	0.3239		
								1715	0.020	0.3261		
								1840	0.008	0.3272		
								2210	0.004	0.3284		
								2400	0.002	0.3287		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05562.





EVENT OF JULY 15 - 16, 1976  
CHICKASHA, OKLAHOMA WATERSHED C-1

CHICKASHA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, E. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 25 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

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
1976	P	0.0	0.36	3.37	4.27	1.92	2.59	3.20	3.22	3.01	2.15	0.03	0.60	24.72
	Q	0.0	0.3	0.038	0.429	0.0	0.345	0.396	0.127	0.350	0.001	0.0	0.0	1.685
STA AV	P	0.90	1.20	2.28	3.05	3.91	2.25	2.83	2.66	3.77	2.91	1.11	0.89	27.76
	Q	0.084	0.325	0.173	0.395	0.847	0.451	0.631	0.409	0.434	0.495	0.078	0.017	4.040

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1976	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days			
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	6-24	0.123		6-24	0.111	6-24	0.195	6-24	0.338	6-24	0.345	7-15	0.395	7-14	0.395	7- 8	0.395

MAXIMUMS FOR PERIOD OF RECORD																		
1976	Date	Vol.	1971	Date	Vol.	1973	Date	Vol.	1973	Date	Vol.	1972	Date	Vol.	1972	Date	Vol.	1975
	5-31	0.556	5-31	0.451	5-24	0.729	5-24	1.498	5-24	1.829	10-30	2.227	10-30	2.585	7-23	3.358		

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed moldboard plowed 12-14 inches deep in early Jan. 1976. Spring preplanting tillage consisted of disking, spring-tooth harrowing, incorporating fertilizer and herbicide. Entire watershed planted to cotton during late May. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Watershed irrigated in late July, mid and late August, 1976. Cotton harvested in early Nov. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 1216, pp.69.32-1 and 69.32-3. Precipitation data obtained from two recording weighing type rain gages for record period 1965-1974 and one gage (No. 186) for 1975-76. Precipitation and runoff records began September 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 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	0.0	0.02	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	0.3	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.14	0.0	0.0		
5	0.0	0.36	0.0	0.0	0.32	0.0	0.0	1.48	0.0	0.21	0.0	0.50		
6	0.0	0.3	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.10		
7	0.0	0.3	1.04	0.26	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0		
8	0.0	0.3	1.23	0.0	0.0	0.0	0.0	0.0	0.75	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	0.3	0.20	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0		
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.39	0.0	0.0	0.0		
13	0.0	0.3	0.0	0.0	0.0	0.45	0.66	0.0	0.80	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	0.80	0.0	0.0	1.74	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.12	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.3	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.04	0.0	0.0		
19	0.0	0.0	0.0	1.89	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	0.3	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	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.3	0.0	0.0	0.06	0.70	0.0	0.10	0.0	0.14	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.84	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.3	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0		
28	0.0	0.3	0.16	0.85	0.0	0.0	0.60	0.0	0.0	0.02	0.0	0.0		
29	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.16	0.0	1.30	0.0	0.0		
30	0.0	0.0	0.0	0.14	0.19	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.44	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.36	3.37	4.27	1.92	2.59	3.20	3.22	3.01	2.15	0.03	0.60		
STA AV	0.90	1.20	2.28	3.05	3.91	2.25	2.83	2.66	3.77	2.91	1.11	0.89		

NOTES: Values obtained from two recording weighing type rain gages for record period 1965-74 and one gage (186) for 1975-76. STA AV values are based on 12 yr (1965-76) record period.

1976 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	0.0	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	0.081	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.142	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	0.017	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0
9	0.0	0.0	0.0 T	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	0.0	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	0.095	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.534	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
15	0.0	0.0	0.0	0.001	0.0	0.0	0.275	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.002	0.0	0.0	0.460	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	0.716	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.642	0.0	0.004	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	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	0.071	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.054	0.001	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 T	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	0.0023	0.0266	0.0	0.0214	0.0237	0.0076	0.0217	0.0	0.0	0.0
INCHES	0.0	0.0	0.038	0.429	0.0	0.345	0.396	0.127	0.350	0.001	0.0	0.0
STA AV	0.084	0.025	0.173	0.395	0.847	0.451	0.631	0.409	0.434	0.495	0.078	0.017

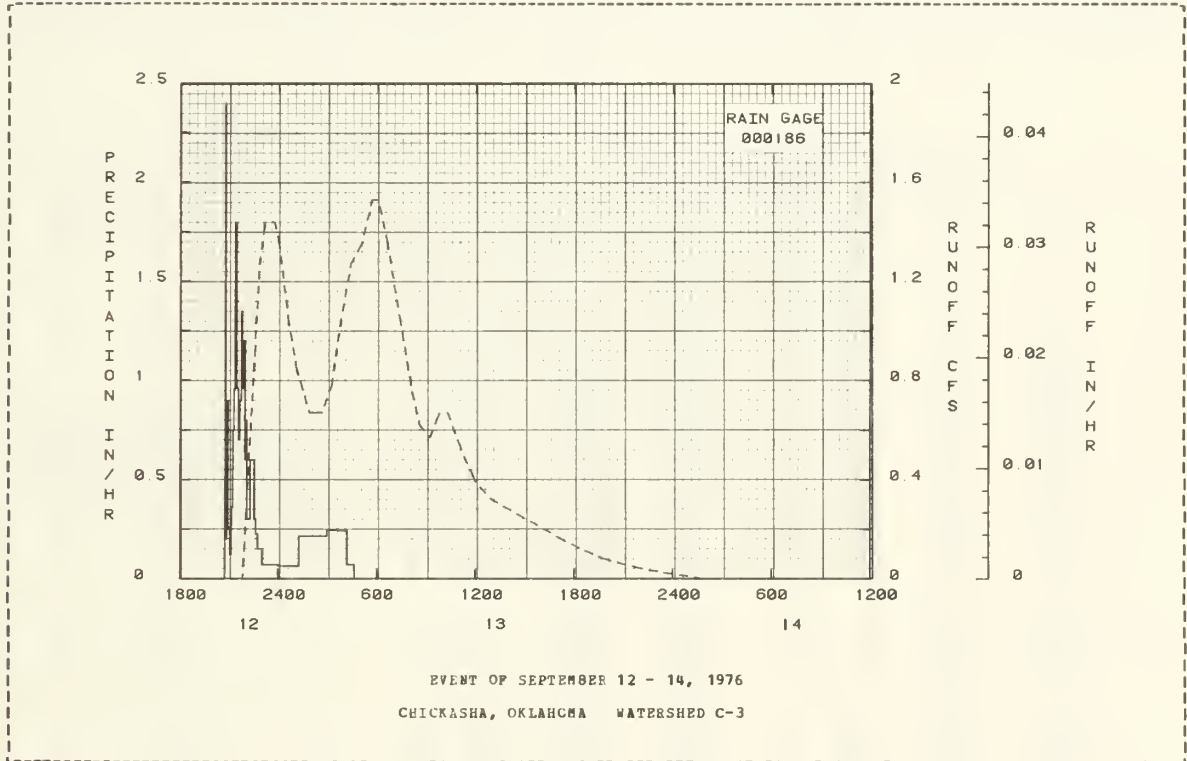
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.537769. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-3											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 12 - 14, 1976											
9-12	RG 000186 0.0	0.0	9-12	RG 000186 2045	0.0	0.0	9-12	2148	0.0	0.0	
				2046	2.4000	0.04		2151	0.022	0.0000	
				2052	0.2000	0.06		2157	0.155	0.0002	
				2056	0.9000	0.12		2208	0.393	0.0013	
				2103	0.2571	0.15		2233	0.909	0.0074	
WATERSHED CONDITIONS: 100% cultivation, continuous irrigated cotton. Plowed 8-10 inches deep in January, tandem disk 4-6 inches deep in March, and spring-toothed 3-5 inches deep in April and May. Cotton planted May 24.											
				2108	0.1200	0.16		2250	1.274	0.0144	
				2113	0.3600	0.19		2310	1.443	0.0245	
				2117	0.7500	0.24		2344	1.443	0.0428	
				2122	0.9600	0.32		2400	1.357	0.0512	
				2126	1.8000	0.44	9-13	35	1.046	0.0669	
				2129	1.0000	0.49		105	0.845	0.0775	
				2134	0.9600	0.57		153	0.671	0.0911	
				2140	0.7000	0.64		238	0.671	0.1023	
				2144	0.9000	0.70		314	0.784	0.1121	
				2148	1.3500	0.79		349	1.046	0.1241	
				2153	0.9600	0.87		424	1.274	0.1392	
				2157	1.2000	0.95		506	1.357	0.1599	
				2202	0.6000	1.00		540	1.532	0.1782	
				2205	0.8000	1.04		603	1.532	0.1914	
				2217	0.3000	1.10		636	1.357	0.2092	
				2231	0.6000	1.24		723	1.046	0.2303	
				2237	0.3000	1.27		804	0.784	0.2443	
				2245	0.2250	1.30		835	0.618	0.2524	
				2301	0.1500	1.34		913	0.568	0.2608	
				2400	0.0712	1.41		948	0.671	0.2689	
			9-13	116	0.0632	1.49		1018	0.671	0.2764	
				259	0.2155	1.86		1108	0.521	0.2876	
				338	0.2462	2.02		1200	0.393	0.2964	
				413	0.2400	2.16		1258	0.321	0.3042	
				438	0.0720	2.19		1434	0.257	0.3145	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-3							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 12 - 14, 1976 (CONTINUED)										
							9-13	1728	0.155	0.3279
								1948	0.083	0.3341
								2208	0.037	0.3373
								2400	0.016	0.3384
							9-14	158	0.005	0.3388
								348	0.003	0.3390
								552	0.001	0.3391
								648	0.001	0.3391
								903	0.0	0.3391
								1028	0.0	0.3391
								1200	0.0	0.3391

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.





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. Lat. 35 deg. 02 min. 23 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

AREA: 29.93 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-4		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1976	P	0.0	0.34	3.36	4.17	1.87	2.53	3.16	3.14	2.89	2.13	0.03	0.62	24.24		
	Q	0.0	0.0	0.076	0.684	0.0	0.116	0.282	0.518	0.436	0.001	0.0	0.0	2.112		
STA AV	P	0.90	1.19	2.30	3.03	3.92	2.30	2.80	2.67	3.76	2.89	1.09	0.90	27.76		
	Q	0.103	0.031	0.135	0.304	0.781	0.336	0.602	0.361	0.321	0.506	0.080	0.011	3.570		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Date	Maximum Discharge Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	4-19	0.220	4-19	0.193	4-19	0.346	4-19	0.523	4-19	0.534	4-19	0.596	4-19	0.596	4-12	0.598

MAXIMUMS FOR PERIOD OF RECORD																				
Year	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1971	5-31	0.489	1973	5-24	0.462	1973	5-24	0.909	1973	5-24	1.826	1972	10-30	2.663	1972	10-30	3.182	1975	7-24	3.554

NOTES: Watershed conditions: 100% cultivation, continuous irrigated cotton. Entire watershed disked and moldboard plowed Jan. and Feb. 1976. Spring tillage consisted of incorporating fertilizer and herbicide, disking and spring-tooth harrowing. Cotton planted May 24. Tillage during growing season consisted of rotary hoeing and cultivating. Irrigated in late July, mid August, and early Sept. Cotton harvested early Nov. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, OSDA Misc. Pub. 1216, pp. 69.33-1 and 69.33-3. Monthly precipitation data obtained from Thiessen weighted values from two recording weighing type rain gages, Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Ok.

1976 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	0.0	0.0	0.01	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	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0			
5	0.0	0.34	0.0	0.0	0.33	0.0	0.0	1.44	0.0	0.21	0.0	0.0		0.52	
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0		0.10	
7	0.0	0.0	1.05	0.24	0.0	0.0	0.0	0.0	0.0	3.18	0.0	0.0		0.0	
8	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.56	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	0.16	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0		0.0	
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.35	0.0	0.0	0.0		0.0	
13	0.0	0.0	0.0	0.0	0.0	0.44	0.52	0.0	0.79	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	0.79	0.0	0.0	1.71	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	0.15	0.0	0.0	0.0	0.0	0.0		0.0	
17	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	
18	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.0		0.0	
19	0.0	0.0	0.0	1.82	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	0.30	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	0.07	0.70	0.0	0.12	0.0	0.14	0.0	0.0		0.0	
24	0.0	0.0	0.0	0.0	0.0	1.31	0.0	0.77	0.0	0.0	0.0	0.0		0.0	
25	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	
26	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.02	0.0	0.0		0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0		0.0	
28	0.0	0.0	0.17	0.86	0.0	0.0	0.63	0.0	0.0	0.02	0.0	0.0		0.0	
29	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.15	0.0	1.31	0.0	0.0		0.0	
30	0.0	0.0	0.0	0.13	0.17	0.0	0.0	0.0	0.0	0.02	0.0	0.0		0.0	
31	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.45	0.0	0.0	0.0	0.0		0.0	
TOTAL	0.0	0.34	3.36	4.17	1.87	2.53	3.16	3.14	2.89	2.13	0.03	0.62			
STA AV	0.90	1.19	2.30	3.03	3.92	2.30	2.80	2.67	3.76	2.89	1.09	0.90			

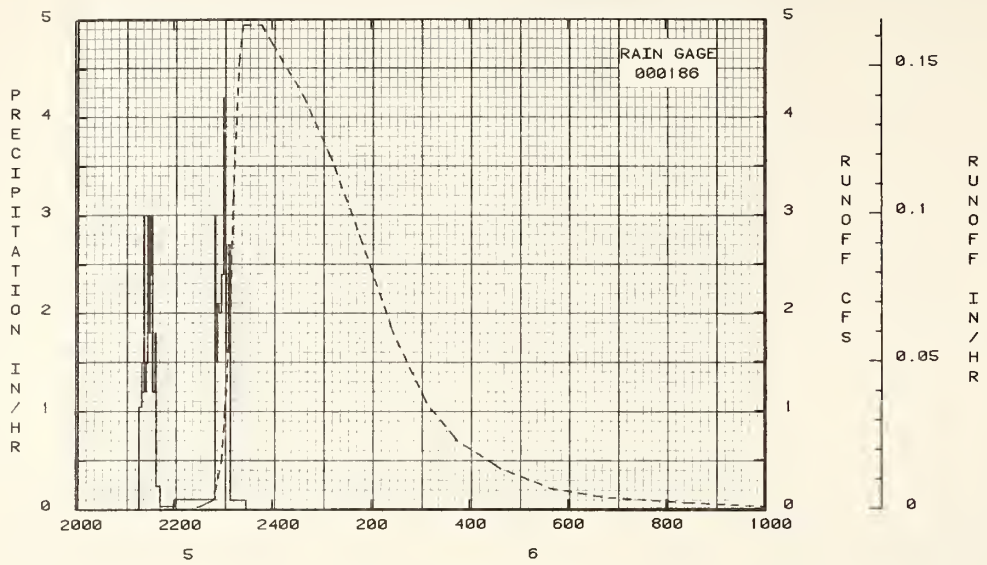
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 186 and 187. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) 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	0.0	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	0.174	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.465	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	0.002	0.0	0.0	0.0	0.0	0.0	0.004	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 T	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	0.075	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.469	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 T	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.109	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.002	0.0	0.0	0.295	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	0.749	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.001	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	0.146	0.0	0.002	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	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	0.108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.093	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 T	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	0.0031	0.0287	0.0	0.0049	0.0114	0.0210	0.0183	0.0	0.0	0.0
INCBES	0.0	0.0	0.076	0.684	0.0	0.116	0.282	0.518	0.436	0.001	0.0	0.0
STA AV	0.103	0.031	0.135	0.304	0.781	0.336	0.602	0.361	0.321	0.506	0.090	0.011

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.795244. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-4												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 5 - 6, 1976												
8-5	0.0	0.0	8-5	2117	0.0	0.0	3-5	2213	0.0	0.0		
				2121	1.0500	0.07		2220	0.005	0.0000		
				2123	1.5000	0.12		2233	0.058	0.0002		
				2124	3.0000	0.17		2246	0.102	0.0007		
				2126	1.2000	0.21		2258	0.492	0.0024		
WATERSHED CONDITIONS:												
100% cultivation, continuous irrigated cotton. Seedbed prepared by plowing, disking, and harrowing. Cotton planted May 24.												
				2126	1.5000	0.26		2303	1.082	0.0045		
				2129	3.0000	0.31		2309	1.987	0.0096		
				2131	1.8000	0.37		2313	3.260	0.0154		
				2132	3.0000	0.42		2320	4.576	0.0306		
				2133	2.4000	0.46		2325	4.949	0.0437		
				2134	2.9980	0.51		2347	4.949	0.1039		
				2137	1.2000	0.57		2400	4.760	0.1387		
				2138	1.7988	0.60	8-6	36	4.221	0.2329		
				2143	0.2400	0.62		113	3.563	0.3082		
				2201	0.0333	0.63		150	2.704	0.3722		
				2250	0.1102	0.72		228	1.778	0.4152		
				2251	3.0000	0.77		308	1.082	0.4509		
				2253	1.5000	0.82		346	0.693	0.4694		
				2255	2.1000	0.89		438	0.407	0.4852		
				2258	2.0000	0.99		536	0.209	0.4954		
				2301	2.4000	1.11		641	0.120	0.5012		
				2302	4.2011	1.18		826	0.059	0.5064		
				2304	2.7000	1.27		1048	0.023	0.5096		
				2307	1.6000	1.35		1200	0.012	0.5103		
				2309	2.7000	1.44		1353	0.005	0.5106		
				2328	0.0947	1.47		1513	0.002	0.5110		
				2400	0.0	1.47		1648	0.0	0.5110		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03314.



EVENT OF AUGUST 5 - 6, 1976  
 CHICKASHA, OKLAHOMA WATERSHED C-4

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. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 33 sec. W.

AREA: 12.75 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED C-5							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P 0.0	0.33	3.32	4.12	1.85	2.56	3.00	3.08	2.66	2.12	0.03	0.62	23.69
	Q 0.0	0.0	0.062	0.198	0.0	0.274	0.552	0.107	0.278	0.0	0.0	0.0	1.470
STA AV	P <sup>1</sup> 0.89	1.18	2.27	3.02	3.81	2.32	2.59	3.12	3.69	2.65	1.07	0.90	27.69
	Q 0.064	0.096	0.351	0.227	0.415	0.169	0.183	0.045	0.160	0.370	0.044	0.001	2.126

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							
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976	7-15	0.200	7-15	0.177	7-15	0.282	7-15	0.404	7-15	0.419	7-15	0.551	7-14	0.552
	10-2	0.595	10-2	0.546	10-2	0.884	10-2	1.547	10-2	1.638	10-2	1.652	10-30	1.837
	1971		1971		1971		1971		1971		1971		1972	5-22 1.925

NOTES: Watershed conditions: 100% cultivation, continuous dry land wheat. Not harvested for grain. Spring-tooth harrowed 5-6" April 27, offset disk and spring-tooth harrowed June 4, offset disk 4-5" deep July 19, fert. and offset disk Aug. 23, offset disk and spring-tooth Sept. 21. Wheat planted Oct. 6. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Ok.

1976	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	0.0	0.01	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	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0
5	0.0	0.33	0.0	0.0	0.34	0.0	0.0	1.42	0.0	0.21	0.0	0.53
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.09
7	0.0	0.0	1.04	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0
8	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.57	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	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.25	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.47	0.53	0.0	0.77	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	0.79	0.0	0.0	1.65	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.23	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	0.06	0.0	0.0	0.0	0.03	0.0	0.0
19	0.0	0.0	0.0	1.76	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	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.08	0.73	0.0	0.18	0.0	0.13	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.65	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	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	0.02	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0
28	0.0	0.0	0.17	0.85	0.0	0.0	0.62	0.0	0.0	0.02	0.0	0.0
29	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.17	0.0	1.30	0.0	0.0
30	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0
31	0.0	0.0	0.0	0.29	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.33	3.32	4.12	1.85	2.56	3.00	3.08	2.66	2.12	0.03	0.62
STA AV	0.69	1.18	2.27	3.02	3.81	2.32	2.59	3.12	3.69	2.65	1.07	0.90

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV values are based on 12 yr (1965-76) record period.



1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	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	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.005	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	0.035	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.114	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	0.162	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.134	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	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.001	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	0.147	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	0.011	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	0.0011	0.0035	0.0	0.0049	0.0095	0.0018	0.0050	0.0	0.0	0.0
INCHES	0.0	0.0	0.062	0.198	0.0	0.274	0.552	0.107	0.278	0.0	0.0	0.0
STA AV	0.064	0.096	0.351	0.227	0.415	0.169	0.183	0.045	0.160	0.370	0.044	0.001

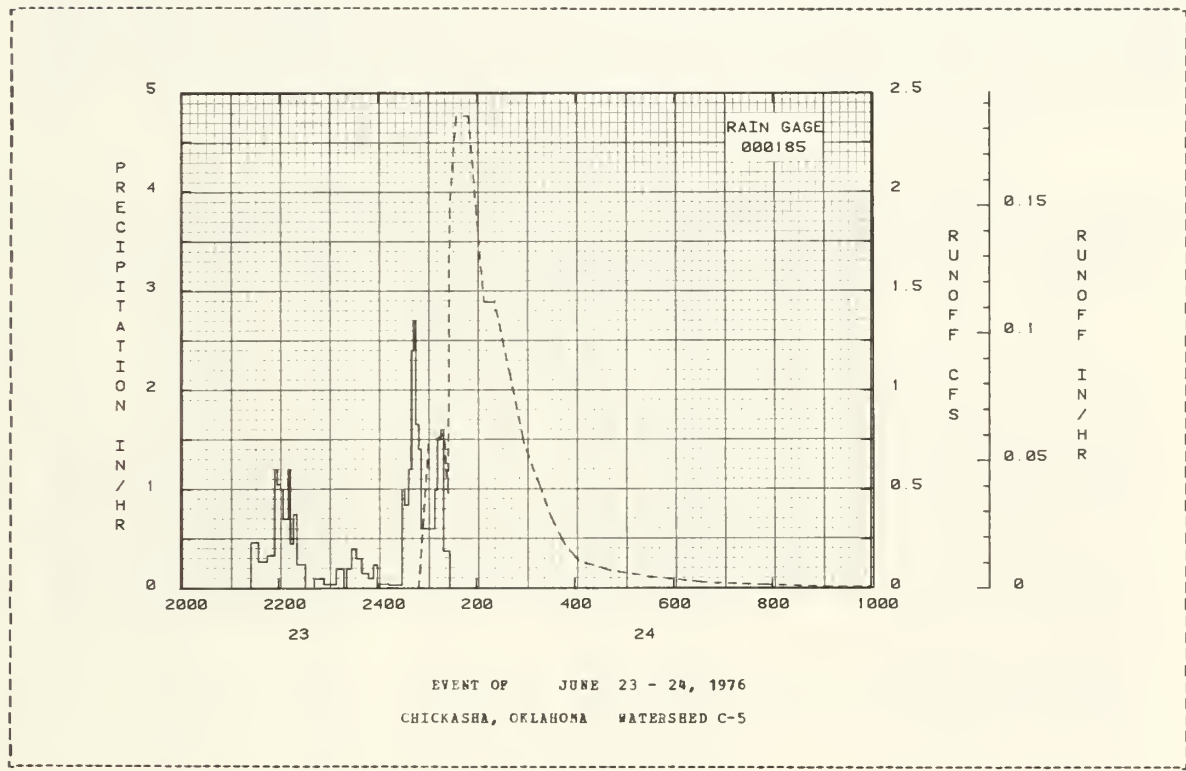
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.866796. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-5											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Fainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 23 - 24, 1976											
RG 000185			RG 000185								
6-23	0.0		6-23	2126	0.0	0.0	6-24	50	0.0	0.0	
6-24		0.0		2135	0.4667	0.07		52	0.121	0.0002	
				2146	0.2727	0.12		56	0.347	0.0014	
				2155	0.3333	0.17		102	0.732	0.0056	
				2158	1.2000	0.23		120	0.780	0.0232	
WATERSHED CONDITIONS:			100% cultivation, continuous dry land wheat. Seedbed preparation: Spring-tooth April 27, disk and spring-tooth June 4, disk July 19, apply fertilizer and disk August 23, disk and spring-tooth Sept. 21. Wheat planted October 6.								
				2202	1.0500	0.30		126	0.480	0.0281	
				2205	1.0000	0.35		127	1.917	0.0297	
				2211	0.7000	0.42		135	2.376	0.0519	
				2214	1.2000	0.48		150	2.376	0.0981	
				2218	0.4500	0.51		159	1.917	0.1232	
				2222	0.7500	0.56		209	1.445	0.1449	
				2232	0.2400	0.60		222	1.445	0.1693	
				2243	0.0	0.60		242	1.051	0.2017	
				2255	0.1000	0.62		258	0.732	0.2201	
				2310	0.0400	0.63		317	0.517	0.2355	
				2319	0.2000	0.66		332	0.347	0.2439	
				2323	0.0	0.66		348	0.216	0.2498	
				2329	0.2000	0.68		404	0.137	0.2534	
				2335	0.4000	0.72		443	0.089	0.2591	
				2341	0.3000	0.75		530	0.062	0.2637	
				2349	0.1500	0.77		640	0.033	0.2680	
				2355	0.1000	0.78		750	0.018	0.2704	
				2400	0.2400	0.80		903	0.011	0.2717	
			6-24	1	0.0	0.80		1050	0.006	0.2729	
				14	0.0462	0.81		1200	0.004	0.2734	
				30	0.0375	0.82		1400	0.0	0.2737	
				33	1.0000	0.87					
				38	0.8400	0.94					
				41	1.2000	1.00					
				44	2.4000	1.12					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07778.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-5							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 23 - 24, 1976 (CONTINUED)										
6-24			46		2.7000	1.21				
			50		1.6500	1.32				
			53		1.4000	1.39				
			110		0.6000	1.56				
			113		1.0000	1.61				
			117		1.5000	1.71				
			120		1.6000	1.79				
			128		0.3750	1.84				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07778.



CHICKASHA, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 34 sec. W.

AREA: 13.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-6															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.0	0.33	3.31	4.11	1.86	2.56	2.99	3.08	2.63	2.11	0.03	0.61	23.62	P	0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	27.71	
	Q	0.0	0.0	0.0	0.239	0.0	0.386	0.720	0.169	0.269	0.0	0.0	0.0	1.843	Q	0.090	0.088	0.381	0.237	0.426	0.187	0.182	0.087	0.204	0.373	0.052	0.007	2.316	
STA AV														STA AV															
		0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	27.71			0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	27.71
		0.090	0.088	0.381	0.237	0.426	0.187	0.182	0.087	0.204	0.373	0.052	0.007	2.316			0.090	0.088	0.381	0.237	0.426	0.187	0.182	0.087	0.204	0.373	0.052	0.007	2.316

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

	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1976	7-15	0.394	7-15	0.299	7-15	0.387	7-15	0.453	7-15	0.455	7-15	0.720	7-14	0.720	7- 8	0.720

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	10-30	1.769	5-24	1.841
1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1971	1972	1972	1973	1973	1973

NOTES: Watershed conditions: 100% cropland, planted to wheat in fall of 1975, not harvested for grain. Spring-tooth harrowed 5-6" deep April 27, offset disk and spring-toothed June 4, offset disked 4-5" deep July 19, fertilized and offset disked Aug. 23, offset disked and spring-tooth harrowed Sept. 21, planted wheat Oct. 6. 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 recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-6													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1	0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0	0.0	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	0.33	0.0	0.0	0.34	0.0	0.0	1.43	0.0	0.21	0.0	0.0	0.53	5	0.0	0.33	0.0	0.0	0.34	0.0	0.0	1.43	0.0	0.21	0.0	0.53	
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.08	0.0	6	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
7	0.0	0.0	1.03	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	7	0.0	0.0	1.03	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	
8	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	8	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.0	0.55	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	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	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	0.13	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.03	0.0	11	0.0	0.0	0.13	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.24	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.47	0.52	0.0	0.77	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.47	0.52	0.0	0.77	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	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	0.79	0.0	0.0	1.65	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.79	0.0	0.0	0.0	1.65	0.0	0.0	0.0	0.0	
16	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	16	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
17	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	0.23	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	0.06	0.0	0.0	0.0	0.03	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.03	0.0	
19	0.0	0.0	0.0	1.76	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	1.76	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	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	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	0.30	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	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.08	0.73	0.0	0.19	0.0	0.13	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.08	0.73	0.0	0.19	0.0	0.13	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.64	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.64	0.0	0.0	0.0	0.0	
25	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	25	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	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	0.02	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	0.02	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0	
28	0.0	0.0	0.17	0.34	0.0	0.0	0.62	0.0	0.0	0.02	0.0	0.0	0.0	28	0.0	0.0	0.17	0.34	0.0	0.0	0.62	0.0	0.0	0.02	0.0	0.0	
29	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.17	0.0	1.29	0.0	0.0	0.0	29	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.17	0.0	1.29	0.0	
30	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	30	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
31	0.0	0.0	0.0	0.29	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.44	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.33	3.31	4.11	1.86	2.56	2.99	3.08	2.63	2.11	0.03	0.61	23.62	TOTAL	0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	
STA AV	0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	27.71	STA AV	0.89	1.18	2.26	3.04	3.81	2.32	2.59	3.13	3.69	2.85	1.07	0.89	27.71

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV values are based on 12 yr (1965-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, 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	0.0	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	0.083	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	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	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.003	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	0.037	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.110	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	0.301	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.093	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	0.124	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 T	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	0.211	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	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.012	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	0.0311	0.0044	0.0	0.0070	0.0127	0.0030	0.0049	0.0	0.0	0.0
INCHES	0.0	0.0	0.060	0.239	0.0	0.386	0.720	0.169	0.269	0.0	0.0	0.0
STA AV	0.090	0.088	0.381	0.237	0.426	0.187	0.182	0.087	0.204	0.373	0.052	0.007

NOTES: To convert discharge in CPS to IN/DAY, multiply by 1.830896. STA AV values are based on 12 yr (1965-76) record period.

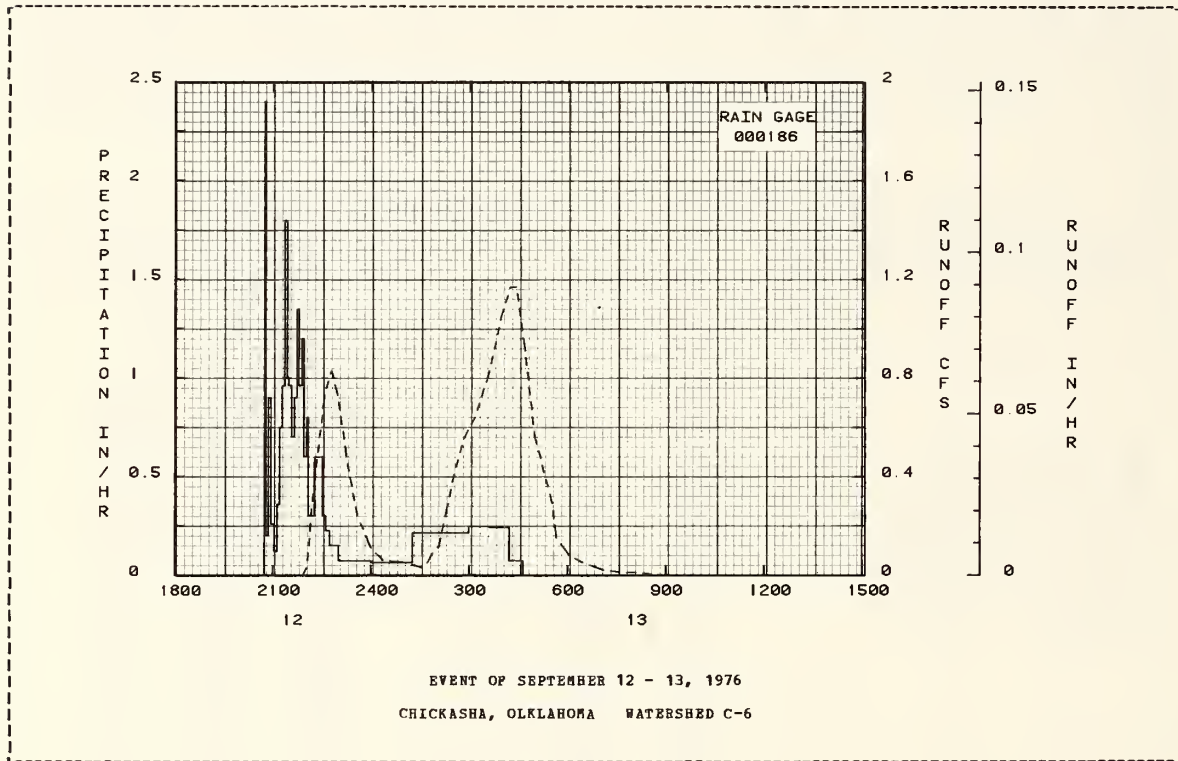
1976		SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA WATERSHED C-6					
PRECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Fainfall	runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 12 - 13, 1976											
	RG 000186			RG 000186							
9-12	0.0	0.0	9-12	2045	0.0	0.0	9-12	2155	0.0	0.0	
				2046	2.4000	0.04		2202	0.033	0.0002	
				2052	0.2000	0.06		2207	0.121	0.0006	
				2056	0.9000	0.12		2210	0.239	0.0013	
				2103	0.2571	0.15		2218	0.410	0.0046	
WATERSHED CONDITIONS:				2108	0.1200	0.16		2235	0.732	0.0170	
100% Cropland, planted to				2113	0.3600	0.19		2247	0.830	0.0289	
wheat in fall of 1975, not				2117	0.7500	0.24		2259	0.732	0.0408	
harvested for grain. Spring-				2122	0.9600	0.32		2315	0.480	0.0531	
tooth harrowed 5-6" deep April				2126	1.8000	0.44		2335	0.239	0.0623	
27, offset disk and spring-				2129	1.0000	0.49		2400	0.112	0.0679	
toothed June 4, offset disked				2134	0.9600	0.57	9-13	22	0.062	0.0703	
4-5" deep July 19, fertilized				2140	0.7000	0.64		102	0.045	0.0730	
and offset disked Aug. 23,				2144	0.9000	0.70		133	0.027	0.0744	
offset disked and spring-tooth				2148	1.3500	0.79		143	0.053	0.0749	
harrowed Sept. 21, planted				2153	0.9600	0.87		153	0.089	0.0758	
wheat Oct. 6.				2157	1.2000	0.95		205	0.121	0.0774	
				2202	0.6000	1.00		221	0.290	0.0816	
				2205	0.8000	1.04		232	0.410	0.0865	
				2217	0.3000	1.10		251	0.557	0.0982	
				2231	0.6000	1.24		310	0.641	0.1127	
				2237	0.3000	1.27		337	0.830	0.1379	
				2245	0.2250	1.30		358	1.051	0.1630	
				2301	0.1500	1.34		415	1.174	0.1871	
				2400	0.0712	1.41		425	1.174	0.2020	
			9-13	116	0.0632	1.49		440	0.937	0.2221	
				259	0.2155	1.86		500	0.557	0.2411	
				338	0.2462	2.02		532	0.290	0.2584	
				413	0.2400	2.16		540	0.155	0.2606	
				438	0.0720	2.19		603	0.078	0.2640	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.07629.



1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-6								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 12 - 13, 1976 (CONTINUED)											
							9-13	628	0.045	0.2660	
								706	0.022	0.2676	
								735	0.014	0.2683	
								805	0.008	0.2687	
								853	0.004	0.2691	
								955	0.002	0.2693	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07629.



CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, E. 7 N., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 01 sec. N.; Long. 97 deg. 54 min. 38 sec. W.

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
1976	P	0.0	0.33	3.32	4.11	1.85	2.56	2.99	3.08	2.64	2.11	0.03	0.61	23.63
	Q	0.0	0.0	0.0	0.060	0.0	0.134	0.026	0.014	0.055	0.0	0.0	0.0	0.290
STA AV	P	0.86	1.16	2.25	3.02	3.79	2.33	2.57	3.12	3.69	2.65	1.07	0.85	27.64
	Q	0.004	0.016	0.095	0.234	0.279	0.213	0.331	0.229	0.230	0.373	0.025	0.004	2.032

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
1976	Maximum Discharge Date	Maximum Volume for Selected Time Interval															
		1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.		
	6-24	0.035		6-24	0.035	6-24	0.063	6-24	0.121	5-24	0.133	6-23	0.134	6-22	0.134	6-16	0.134

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	10-30	1.891	10-30	2.220	7-21	2.440
	1967			1967		1967		1971		1971		1972		1972		1975	

NOTES: Watershed conditions: 100% cropland. North half was chiseled and moldboarded Jan. 19, tandem disked and spring-toothed March 16, spring-toothed June 1, offset disked July 8, fertilized and offset disked July 19, spike-toothed Sept. 7, and planted to alfalfa Sept. 8. The north half of the south half was chiseled, moldboarded, fertilized and disked and planted to grain forage on June 3, harvested on August 27 and moldboarded on Oct. 1. The south half of the south half was in alfalfa that was moldboard plowed on Oct. 1. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.36-2 and 69.36-4. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 135 and 187. Precipitation and runoff records began May 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 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	0.0	0.01	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	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.14	0.0	0.0		
5	0.0	0.33	0.0	0.0	0.34	0.0	0.0	1.43	0.0	0.21	0.0	0.53		
6	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.08		
7	0.0	0.0	1.03	0.24	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0		
8	0.0	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.56	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	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0		
12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.24	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.47	0.52	0.0	0.77	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	0.79	0.0	0.0	1.65	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.23	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	0.06	0.0	0.0	0.0	0.03	0.0	0.0		
19	0.0	0.0	0.0	1.76	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	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.08	0.73	0.0	0.19	0.0	0.13	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.64	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	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	0.02	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.02	0.0	0.0		
28	0.0	0.0	0.17	0.94	0.0	0.0	0.62	0.0	0.0	0.02	0.0	0.0		
29	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.17	0.0	1.29	0.0	0.0		
30	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.0	0.02	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.44	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.33	3.32	4.11	1.85	2.56	2.99	3.08	2.64	2.11	0.03	0.61		
STA AV	0.89	1.18	2.25	3.02	3.79	2.33	2.57	3.12	3.69	2.85	1.07	0.89		

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 165 and 187. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) 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	0.0	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	0.004	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	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	0.006	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	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	0.008	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.021	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	0.067	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	0.150	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	0.022	0.0	0.0050	0.0009	0.0005	0.0021	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.050	0.0	0.134	0.026	0.014	0.055	0.0	0.0	0.0
STA AV	0.004	0.015	0.095	0.234	0.279	0.213	0.331	0.229	0.230	0.373	0.025	0.004

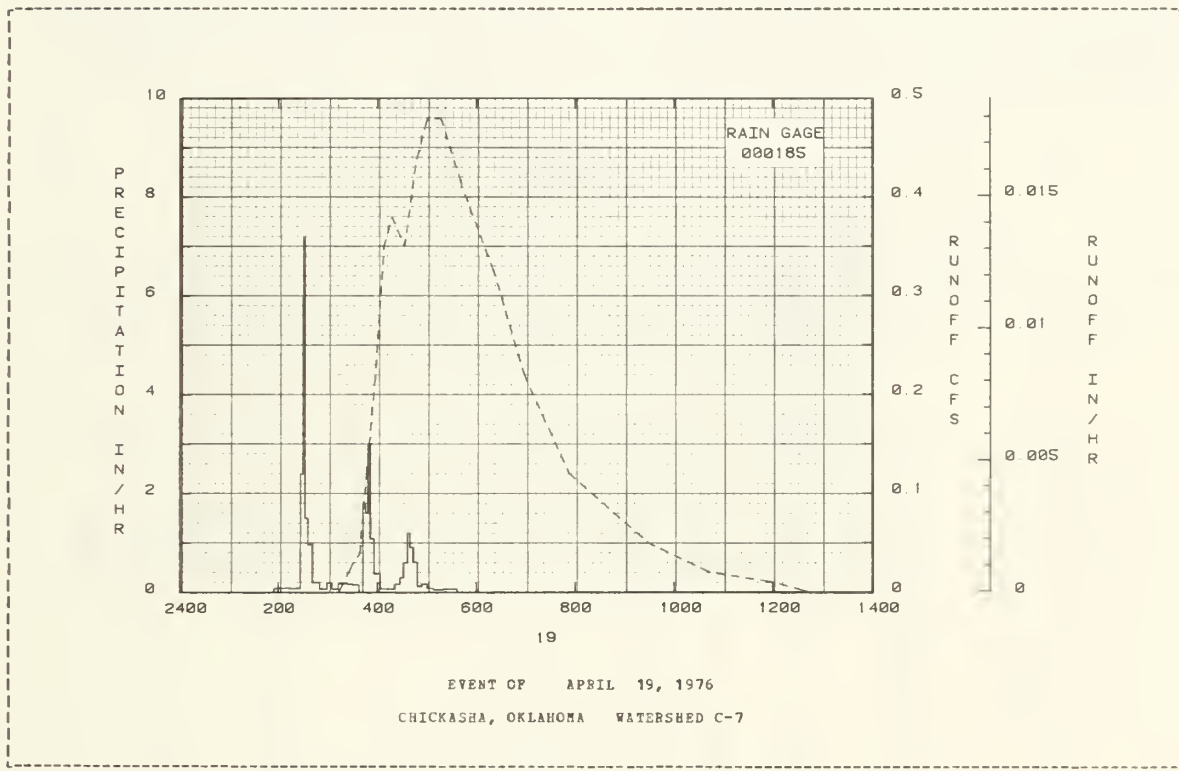
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.897496. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-7											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 19, 1976											
4-19	RG 000185 0.0	0.0	4-19	RG 000185 155	0.0	0.0	4-19	313	0.0	0.0	
				227	0.0938	0.05		319	0.014	0.0000	
				230	2.4000	0.17		331	0.033	0.0002	
				231	6.0000	0.27		339	0.039	0.0304	
				232	7.2000	0.39		347	0.121	0.0008	
				236	1.5000	0.49		358	0.216	0.0319	
				241	0.9600	0.57		408	0.347	0.0037	
				250	0.2000	0.60		418	0.378	0.0060	
				259	0.0667	0.61		433	0.347	0.0093	
				305	0.2000	0.63		448	0.444	0.0130	
				313	0.0750	0.64		501	0.480	0.0168	
				323	0.1800	0.67		517	0.480	0.0216	
				330	0.1714	0.69		543	0.410	0.0288	
				338	0.1500	0.71		623	0.318	0.0379	
				343	0.0	0.71		658	0.215	0.0437	
				346	1.8000	0.80		753	0.121	0.0495	
				349	1.6000	0.83		928	0.053	0.0546	
				351	3.0000	0.93		1043	0.022	0.0564	
				355	1.0800	1.07		1200	0.008	0.0571	
				404	0.3750	1.12		1243	0.004	0.0572	
				413	0.0667	1.13		1405	0.0	0.0573	
				421	0.0750	1.14					
				428	0.1714	1.16					
				432	0.3000	1.18					
				437	0.6000	1.23					
				440	1.2000	1.29					
				444	0.9000	1.35					
				449	0.6000	1.40					
				454	0.1200	1.41					
				501	0.1714	1.43					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF*				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 19, 1976 (CONTINUED)										
			4-13	508	0.0857	1.44				
				520	0.0500	1.45				
				537	0.0706	1.47				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.





CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 01 min. 55 sec. N.; Long. 97 deg. 54 min. 25 sec. W.

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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.0	0.32	3.44	4.41	1.97	2.75	2.97	3.19	2.64	2.17	0.03	0.61	24.50	P	0.0	0.32	3.44	4.41	1.97	2.75	2.97	3.19	2.64	2.17	0.03	0.61	24.50	
	Q	0.0	0.0	0.0	0.042	0.0	0.056	0.037	0.047	0.018	0.0	0.0	0.0	0.200	Q	0.0	0.0	0.0	0.042	0.0	0.056	0.037	0.047	0.018	0.0	0.0	0.0	0.200	
STA AV	P	0.92	1.20	2.34	3.02	3.91	2.41	2.67	3.16	3.72	3.00	1.12	0.92	28.39	P	0.92	1.20	2.34	3.02	3.91	2.41	2.67	3.16	3.72	3.00	1.12	0.92	28.39	
	Q	0.013	0.046	0.186	0.089	0.209	0.094	0.284	0.121	0.134	0.220	0.010	0.0	1.406	Q	0.013	0.046	0.186	0.089	0.209	0.094	0.284	0.121	0.134	0.220	0.010	0.0	1.406	

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

1976	Maximum Discharge Date	Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
8-5	8-5	0.045	8-5	0.030	8-5	0.036	6-24	0.049	6-24	0.056	6-23	0.056	6-22	0.056	6-16	0.056

MAXIMUMS FOR PERIOD OF RECORD

10-2	0.853	10-2	0.693	10-2	0.998	10-2	1.405	10-2	1.458	10-2	1.458	10-1	1.458	7-21	2.656
1971		1971		1971		1971		1971		1971		1971		1975	

NOTES: Watershed conditions: 100% cropland, entire watershed in alfalfa. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.37-1. Maps - revised composite, p. 69.7-21; topography, p. 69.37-5 of foregoing reference. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 188. Precipitation and runoff records began April 1, 1965. STA AV values are based on 12 yr (1965-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-8													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	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	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	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	3	0.0	0.0	0.18	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	0.22	0.0	0.15	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.15	0.0	0.0	0.0	
5	0.0	0.32	0.0	0.0	0.0	0.37	0.0	1.50	0.0	0.21	0.0	0.0	0.0	5	0.0	0.32	0.0	0.0	0.37	0.0	1.50	0.0	0.21	0.0	0.0	0.53	
6	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	6	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
7	0.0	0.0	1.06	0.27	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	7	0.0	0.0	1.06	0.27	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
8	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	8	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.54	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	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	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	0.16	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.03	0.0	0.0	11	0.0	0.0	0.16	0.0	0.0	0.05	0.0	0.0	0.03	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	1.22	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.02	0.0	0.0	1.22	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.49	0.50	0.0	0.81	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.49	0.50	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	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	0.85	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.85	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.13	0.0	0.0	0.17	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	0.17	0.0	0.0	0.0	0.0	0.0	
17	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	17	0.0	0.0	0.0	0.27	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	0.07	0.0	0.0	0.0	0.03	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
19	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	19	0.0	0.0	0.0	1.78	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	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	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	0.31	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	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.08	0.77	0.0	0.25	0.0	0.13	0.0	0.0	0.0	23	0.0	0.0	0.0	0.08	0.77	0.0	0.25	0.0	0.13	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.39	0.0	0.63	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	1.39	0.0	0.63	0.0	0.0	0.0	0.0	
25	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	25	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.64	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	0.64	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	
28	0.0	0.0	0.18	0.96	0.0	0.0	0.53	0.0	0.0	0.01	0.0	0.0	0.0	28	0.0	0.0	0.18	0.96	0.0	0.0	0.53	0.0	0.01	0.0	0.0	0.0	
29	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.22	0.0	1.32	0.0	0.0	0.0	29	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.22	0.0	1.32	0.0	0.0	
30	0.0	0.0	0.0	0.15	0.14	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	30	0.0	0.0	0.0	0.15	0.14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.31	0.0	0.37	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.32	3.44	4.41	1.97	2.75	2.97	3.19	2.64	2.17	0.03	0.61	24.50	TOTAL	0.0	0.32	3.44	4.41	1.97	2.75	2.97	3.19	2.64	2.17	0.03	0.61	24.50
STA AV	0.92	1.20	2.34	3.02	3.91	2.41	2.67	3.16	3.72	3.00	1.12	0.92	28.39	STA AV	0.92	1.20	2.34	3.02	3.91	2.41	2.67	3.16	3.72	3.00	1.12	0.92	28.39

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 188. STA AV values are based on 12 yr (1965-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 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	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	0.034	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	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	0.012	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	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	0.023	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.020	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	0.048	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	0.064	0.0	0.004	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.0016	0.0	0.0021	0.0014	0.0017	0.0007	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.042	0.0	0.056	0.037	0.047	0.018	0.0	0.0	0.0
STA AV	0.013	0.046	0.186	0.089	0.209	0.094	0.284	0.121	0.134	0.220	0.010	0.0

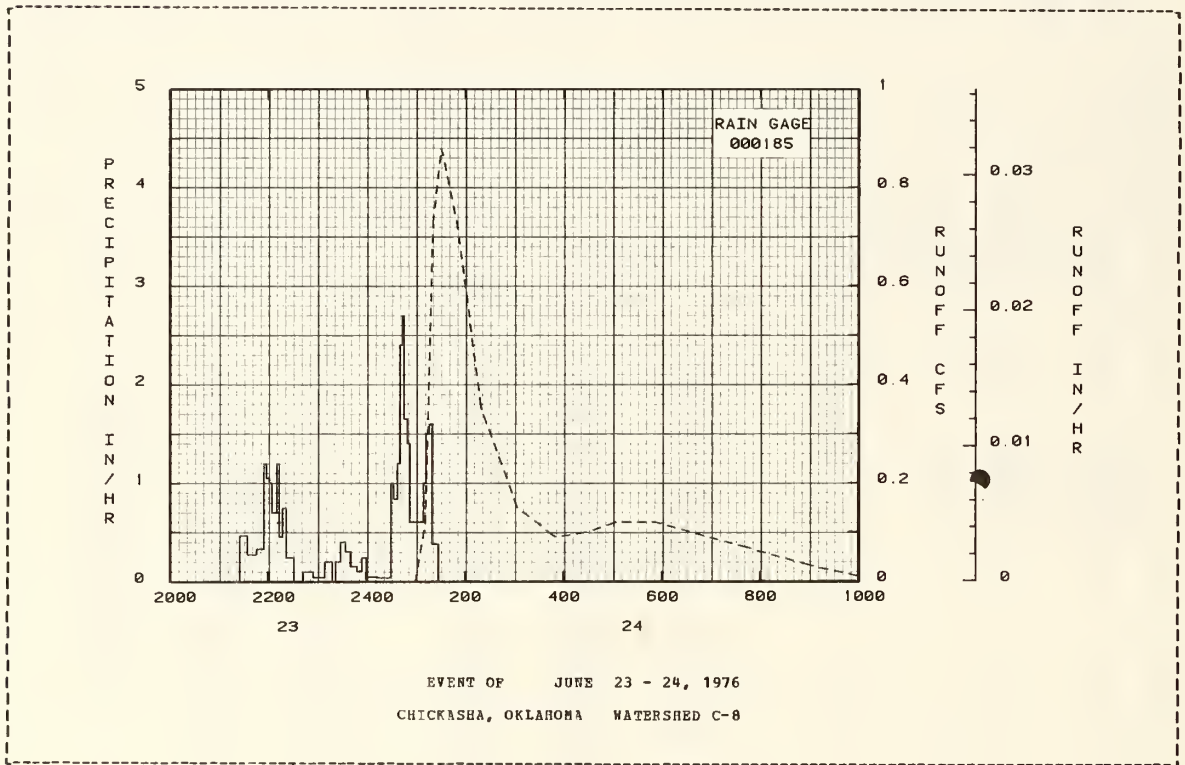
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.872495. STA AV values are based on 12 yr (1965-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-8										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 23 - 24, 1976										
RG 000185			RG 000185							
6-23	0.0		6-23	2126	0.0	0.0	6-24	100	0.0	0.0
6-24		0.0		2135	0.4667	0.07		112	0.121	0.0004
				2146	0.2727	0.12		121	0.732	0.0028
				2155	0.3333	0.17		131	0.883	0.0077
				2158	1.2000	0.23		150	0.732	0.0170
WATERSHED CONDITIONS:			Alfalfa planted 9-26-73. Harvested; May 14, June 8, July 9, August 8 and October 12.							
				2202	1.0500	0.30		220	0.347	0.0268
				2205	1.0000	0.35		304	0.155	0.0335
				2211	0.7000	0.42		350	0.089	0.0369
				2214	1.2000	0.48		428	0.100	0.0390
				2218	0.4500	0.51		504	0.121	0.0414
				2222	0.7500	0.56		550	0.121	0.0448
				2232	0.2400	0.60		740	0.070	0.0512
				2243	0.0	0.60		905	0.033	0.0538
				2255	0.1000	0.62		1045	0.011	0.0552
				2310	0.0400	0.63		1200	0.004	0.0555
				2319	0.2000	0.66		1233	0.0	0.0555
				2323	0.0	0.66				
				2329	0.2000	0.68				
				2335	0.4000	0.72				
				2341	0.3000	0.75				
				2349	0.1500	0.77				
				2355	0.1000	0.78				
				2400	0.2400	0.80				
			6-24	1	0.0	0.80				
				14	0.0462	0.81				
				30	0.0375	0.82				
				33	1.0000	0.87				
				38	0.8400	0.94				
				41	1.2000	1.00				
				44	2.4000	1.12				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED C-8				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
			EVENT OF JUNE 23 - 24, 1976 (CONTINUED)							
			6-24	46	2.7000	1.21				
				50	1.6500	1.32				
				53	1.4000	1.39				
				110	0.6000	1.56				
				113	1.0000	1.61				
				117	1.5000	1.71				
				120	1.6000	1.79				
				128	0.3750	1.84				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.



CHICKASHA, OKLAHOMA WATERSHED R-5

LOCATION: Grady County, Oklahoma; Sh 1/4, sec. 12, T. 7 N., R. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 21 sec. N.; Long. 97 deg. 47 min. 25 sec. W.

AREA: 23.72 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED R-5	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.0	0.35	2.84	3.53	1.71	2.37	3.45	1.65	2.03	2.16	0.11	0.52	20.72	
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.017	
STA AV	P 0.95	1.17	2.25	3.13	4.47	2.98	2.64	2.60	3.99	3.35	1.46	1.05	30.03	
	Q 0.038	0.325	0.219	0.190	0.448	0.287	0.031	0.004	0.049	0.206	0.098	0.023	1.608	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days			
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976	7-15	0.013	7-15	0.010	7-15	0.013	7-15	0.017	7-15	0.017	7-15	0.017	7-14	0.017	7- 8	0.017
MAXIMUMS FOR PERIOD OF RECORD																
	5-24	2.637	5-24	1.576	5-24	1.760	5-24	1.799	5-24	1.800	5-24	1.800	5-22	1.806	5-24	2.035
	1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1976 was good. The vegetative cover in early December 1976, based on 25 clipped samples uniformly spaced, averaged 1,638 lbs. of standing grass, 37 lbs. of weeds, and 4,104 lbs. of mulch 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. See Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 69.42-1 for general description of watershed and p. 69.42-3 for maps - topography; 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 values are based on 11 yr (1966-76) record period. For long-time precipitation records see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)													CHICKASHA, 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		
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	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.08	0.0	0.0		
5	0.0	0.35	0.0	0.0	0.26	0.0	0.0	0.97	0.0	0.10	0.0	0.44		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.08		
7	0.0	0.0	1.00	0.35	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0		
8	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	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	0.13	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.10	0.0		
12	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.97	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.75	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	0.01	0.0		
15	0.0	0.0	0.0	0.78	0.0	0.0	2.65	0.0	0.0	0.03	0.0	0.0		
16	0.0	0.0	0.0	0.13	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.04	0.0	0.12	0.0	0.0	0.0	0.02	0.0	0.0		
19	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.02	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	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.04	0.78	0.0	0.12	0.0	0.15	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.03	0.0	0.0		
28	0.0	0.0	0.25	0.95	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.05	0.0	1.46	0.0	0.0		
30	0.0	0.0	0.0	0.15	0.07	0.0	0.0	0.0	0.0	0.04	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.34	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.35	2.84	3.53	1.71	2.37	3.45	1.65	2.03	2.16	0.11	0.52		
STA AV	0.95	1.17	2.25	3.13	4.47	2.98	2.64	2.60	3.99	3.35	1.46	1.05		

NOTES: Precipitation obtained from Thiessen weighted values from two gages, Nos. 195 and 196. STA AV values are based on 11 yr (1966-76) record period.

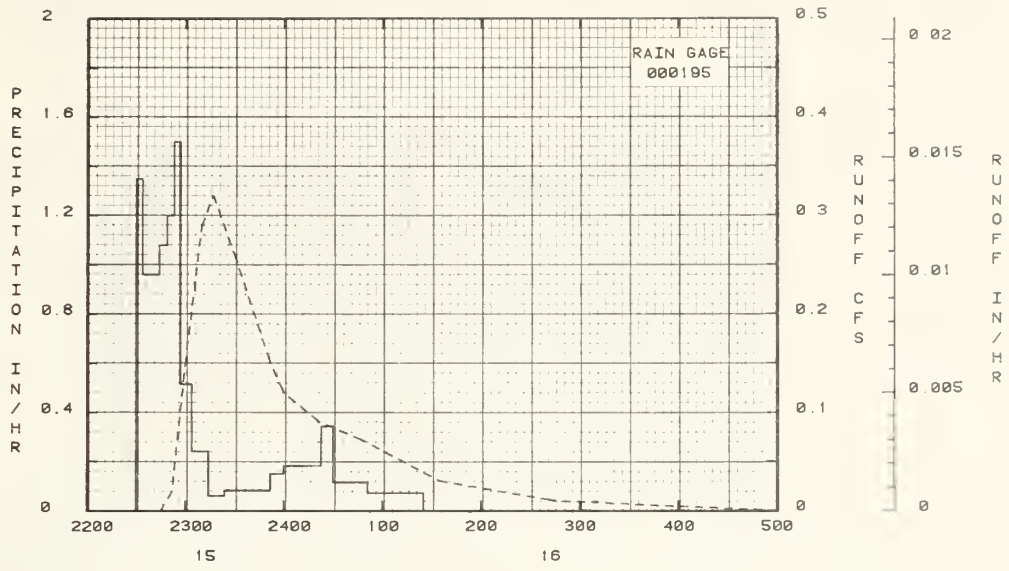


1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	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	0.010	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0005	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0
STA AV	0.038	0.025	0.219	0.180	0.448	0.287	0.031	0.004	0.049	0.206	0.098	0.023

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.003442. STA AV values are based on 11 yr (1966-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-5												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 15 - 16, 1976												
7-15	RG 000195 0.0	0.0	7-15	2230	0.0	0.0	7-15	2245	0.0	0.0		
				2234	1.3500	0.09		2252	0.020	0.0001		
				2244	0.9600	0.25		2300	0.155	0.0005		
				2249	1.0800	0.34		2310	0.289	0.0021		
				2253	1.2000	0.42		2317	0.317	0.0036		
WATERSHED CONDITIONS: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years.				2257	1.5000	0.52		2330	0.263	0.0062		
				2304	0.5143	0.58		2352	0.155	0.0094		
				2314	0.2400	0.62		2400	0.121	0.0102		
				2324	0.0600	0.63		7-16	22	0.092	0.0118	
				2352	0.0857	0.67		50	0.068	0.0134		
				2400	0.1500	0.69		135	0.032	0.0149		
			7-16	23	0.1826	0.76		245	0.011	0.0160		
				30	0.3429	0.80		505	0.002	0.0166		
				51	0.1143	0.84		725	0.0	0.0167		
				125	0.0706	0.88		855	0.0	0.0167		
								1035	0.0	0.0167		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.



EVENT OF JULY 15 - 16, 1976  
CHICKASHA, OKLAHOMA WATERSHED B-5

CHICKASHA, OKLAHOMA WATERSHED R-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. Lat. 35 deg. 05 min. 18 sec. N.; Long. 97 deg. 47 min. 20 sec. W.

AREA: 27.22 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-6
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.0	0.34	2.75	3.44	1.56	2.30	3.30	1.58	1.91	2.08	0.12	0.49	19.87
	Q	0.0	0.0	0.013	0.020	0.0	0.035	0.091	0.0	0.0	0.0	0.0	0.0	0.159
STA AV	P	0.95	1.18	2.0	3.08	4.48	2.93	2.61	2.58	4.01	3.29	1.47	1.04	29.80
	Q	0.019	0.018	0.193	0.209	0.530	0.274	0.043	0.019	0.062	0.195	0.086	0.012	1.659

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	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		7-15	0.060	7-15	0.035	7-15	0.045	7-15	0.047	7-15	0.071	7-15	0.091
		7-15		7-14	0.091	7-14	0.091	7-8	0.091	7-8	0.091	7-8	0.091
MAXIMUMS FOR PERIOD OF RECORD													
		5-24	3.329	5-24	1.914	5-24	2.048	5-24	2.060	5-23	2.060	5-22	2.116
		1973		1973		1973		1973		1973		1973	2.384

NOTES: Watershed conditions: 100% rangeland, native grass continuously grazed by beef cattle during recent years. Range condition class during the year was good, however, entire area was slightly overgrazed throughout the year. The vegetative cover in December 1976, based on 25 uniformly spaced clipped samples, averaged 1,647 pounds of standing grass, 116 pounds of weeds, and 3,021 pounds of mulch. This watershed was in the same pasture area as Watershed R-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 Misc. Pub. 1226, pp. 69.43-1 and 69.43-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. Precipitation and runoff records began July 1, 1966. STA AV values are based on 11 yr (1966-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976	DAILY PRECIPITATION (inches)												CHICKASHA, 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	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	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.07	0.0	0.0	
5	0.0	0.34	0.0	0.0	0.23	0.0	0.0	0.96	0.0	0.10	0.0	0.41	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.08	
7	0.0	0.0	0.98	0.34	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	
8	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	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	0.09	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.10	0.0	
12	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.90	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.72	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	0.02	0.0	
15	0.0	0.0	0.0	0.78	0.0	0.0	2.58	0.0	0.0	0.03	0.0	0.0	
16	0.0	0.0	0.0	0.13	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.04	0.0	0.12	0.0	0.0	0.0	0.03	0.0	0.0	
19	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.01	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	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.02	0.74	0.0	0.15	0.0	0.15	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.03	0.0	0.0	
28	0.0	0.0	0.23	0.91	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.03	0.0	1.46	0.0	0.0	
30	0.0	0.0	0.0	0.13	0.08	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
31	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	
TOTAL	0.0	0.34	2.75	3.44	1.56	2.30	3.30	1.58	1.91	2.08	0.12	0.49	
STA AV	0.95	1.18	2.20	3.08	4.48	2.93	2.61	2.58	4.01	3.29	1.47	1.04	

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. STA AV values are based on 11 yr (1966-76) record period.

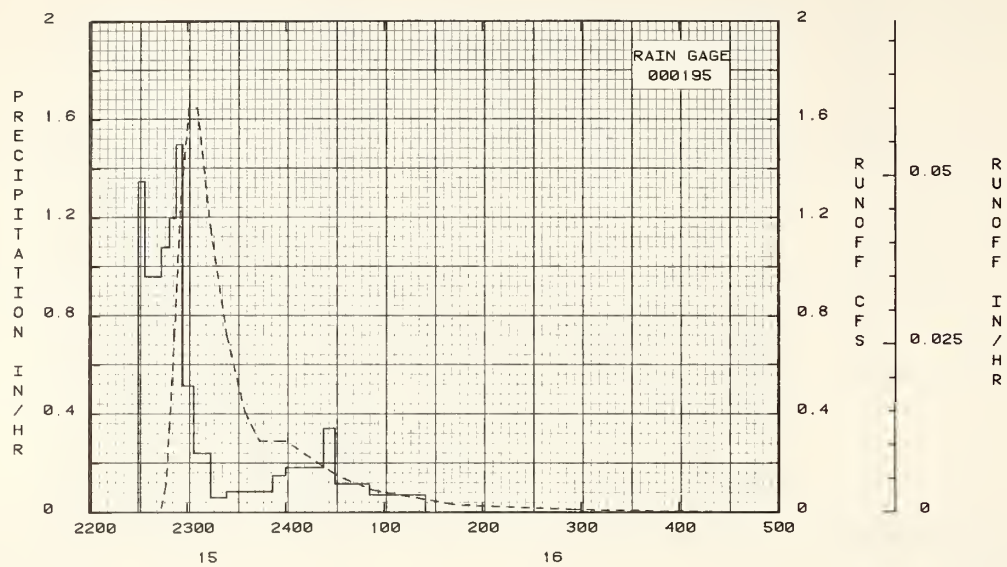
1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED B-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	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	0.015	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 T	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	0.094	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.010	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	0.019	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	0.040	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	0.004	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	0.0005	0.0008	0.0	0.0013	0.0033	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.013	0.020	0.0	0.035	0.091	0.0	0.0	0.0	0.0	0.0
STA AV	0.019	0.018	0.193	0.209	0.530	0.274	0.043	0.019	0.062	0.195	0.086	0.012

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.874418. STA AV values are based on 11 yr (1966-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED B-6												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 15 - 16, 1976												
7-15	0.0	0.047	7-15	2230	0.0	0.0	7-15	2236	0.003	0.0000		
				2238	1.3500	0.09		2242	0.020	0.0000		
				2244	0.9500	0.25		2244	0.120	0.0001		
				2249	1.0800	0.34		2247	0.343	0.0004		
				2253	1.2000	0.42		2249	0.343	0.0004		
WATERSHED CONDITIONS: 100% rangeland, native grass continuously grazed by beef cattle during recent years.												
				2257	1.5000	0.52		2252	0.723	0.0014		
				2304	0.5143	0.58		2256	1.288	0.0038		
				2314	0.2400	0.62		2301	1.648	0.0083		
				2324	0.0600	0.63		2306	1.648	0.0133		
				2352	0.0857	0.67		2314	1.159	0.0201		
			7-16	2400	0.1500	0.69		2324	0.723	0.0258		
				23	0.1825	0.76		2335	0.406	0.0296		
				30	0.3429	0.80		2344	0.287	0.0315		
				51	0.1143	0.84		2400	0.287	0.0343		
				125	0.0706	0.88	7-16	31	0.154	0.0384		
								53	0.091	0.0401		
								143	0.032	0.0419		
								259	0.008	0.0429		
								436	0.002	0.0431		
								616	0.0	0.0432		
								816	0.0	0.0432		
								856	0.0	0.0432		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.036434.





EVENT OF JULY 15 - 16, 1976  
CHICKASHA, OKLAHOMA WATERSHED R-6

CHICKASHA, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 N., R. 6 W., about 8 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 04 min. 58 sec. N.; Long. 97 deg. 47 min. 27 sec. W.

AREA: 19.19 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-7															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.0	0.35	2.75	3.39	1.78	2.30	3.20	1.47	2.07	2.09	0.10	0.46	19.98	P	0.0	0.35	2.75	3.39	1.78	2.30	3.20	1.47	2.07	2.09	0.10	0.46	19.98	
	Q	0.0	0.0	0.103	0.312	0.044	0.344	0.697	0.009	0.058	0.000	0.0	0.0	1.568	Q	0.0	0.0	0.103	0.312	0.044	0.344	0.697	0.009	0.058	0.000	0.0	0.0	1.568	
STA AV	P	0.93	1.12	2.13	3.01	4.37	2.92	2.53	2.57	3.92	3.15	1.39	1.00	29.03	P	0.93	1.12	2.13	3.01	4.37	2.92	2.53	2.57	3.92	3.15	1.39	1.00	29.03	
	Q	0.146	0.118	0.357	0.670	1.104	0.699	0.297	0.247	0.588	0.759	0.298	0.065	5.349	Q	0.146	0.118	0.357	0.670	1.104	0.699	0.297	0.247	0.588	0.759	0.298	0.065	5.349	

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

	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval									
				6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date					
1976	7-15	7-15	7-15	7-15	7-15	7-15	7-15	7-15	7-15	7-15	7-15	7-14	7-8
	0.569	0.338	0.389	0.392	0.525	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697

MAXIMUMS FOR PERIOD OF RECORD

5-24 1973	5-059	5-24 1973	2.185	5-24 1973	2.311	5-24 1973	2.320	5-24 1973	2.320	10-30 1972	2.362	11-10 1972	2.988	5-24 1973	3.705
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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, with severe overgrazing. On May 19, 1975 watershed was fertilized with 740 lbs. 10-20-10. Livestock were excluded until Oct. 4, 1975. The vegetative cover in December 1976 based on 25 uniformly spaced clipped samples, averaged 131 pounds of standing grass, 71 pounds of weeds, and 1,295 pounds per acre of mulch. Prior to Oct. 1970, this watershed was within the same pasture area as Watershed R-8, 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 values are based on 11 yr (1966-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED R-7													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1	0.0	0.0	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	0.0	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	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	3	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.07	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.07	0.0	0.0		
5	0.0	0.35	0.0	0.0	0.25	0.0	0.0	0.92	0.0	0.10	0.0	0.0	0.0	5	0.0	0.35	0.0	0.0	0.25	0.0	0.92	0.0	0.10	0.0	0.38		
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	6	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.10		
7	0.0	0.0	0.99	0.32	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	7	0.0	0.0	0.99	0.32	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
8	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	8	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
9	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	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	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	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	0.10	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.09	0.0	0.0	11	0.0	0.0	0.10	0.0	0.0	0.0	0.20	0.0	0.09	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.99	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.74	0.0	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.74	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	0.01	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0		
15	0.0	0.0	0.0	0.80	0.0	0.0	2.45	0.0	0.0	0.03	0.0	0.0	0.0	15	0.0	0.0	0.0	0.80	0.0	0.0	2.45	0.0	0.03	0.0	0.0		
16	0.0	0.0	0.0	0.15	0.0	0.0	0.19	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	0.19	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.04	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.03	0.0	0.13	0.0	0.0	0.0	0.02	0.0	0.0	0.0	18	0.0	0.0	0.0	0.03	0.0	0.13	0.0	0.0	0.02	0.0	0.0		
19	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.25	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	0.25	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.04	0.75	0.0	0.10	0.0	0.15	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.04	0.75	0.0	0.10	0.0	0.15	0.0		
24	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	24	0.0	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0		
25	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	25	0.0	0.0	0.0	0.0	0.08	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	0.02	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.02	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0		
28	0.0	0.0	0.19	0.89	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.19	0.89	0.0	0.0	0.36	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.05	0.0	1.44	0.0	0.0	0.0	29	0.0	0.0	0.25	0.0	0.0	0.0	0.05	0.0	1.44	0.0	0.0		
30	0.0	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	30	0.0	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.02	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.24	0.0	0.0	0.0		
TOTAL	0.0	0.35	2.75	3.39	1.78	2.30	3.20	1.47	2.07	2.09	0.10	0.46	19.98	TOTAL	0.0	0.35	2.75	3.39	1.78	2.30	3.20	1.47	2.07	2.09	0.10	0.46	19.98
STA AV	0.93	1.12	2.13	3.01	4.37	2.92	2.53	2.57	3.92	3.15	1.39	1.00	29.03	STA AV	0.93	1.12	2.13	3.01	4.37	2.92	2.53	2.57	3.92	3.15	1.39	1.00	29.03

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. STA AV values are based on 11 yr (1966-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, 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	0.0	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	0.006	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.083	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 T	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 T	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	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	0.001	0.0	0.0	0.504	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.003	0.0	0.0	0.058	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	0.162	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	0.277	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	0.036	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	0.086	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 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	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	0.0027	0.0084	0.0012	0.0092	0.0181	0.0002	0.0016	0.0	0.0	0.0
INCHES	0.0	0.0	0.103	0.312	0.044	0.344	0.697	0.009	0.058	0.000	0.0	0.0
STA AV	0.140	0.118	0.357	0.670	1.104	0.699	0.297	0.247	0.588	0.759	0.298	0.065

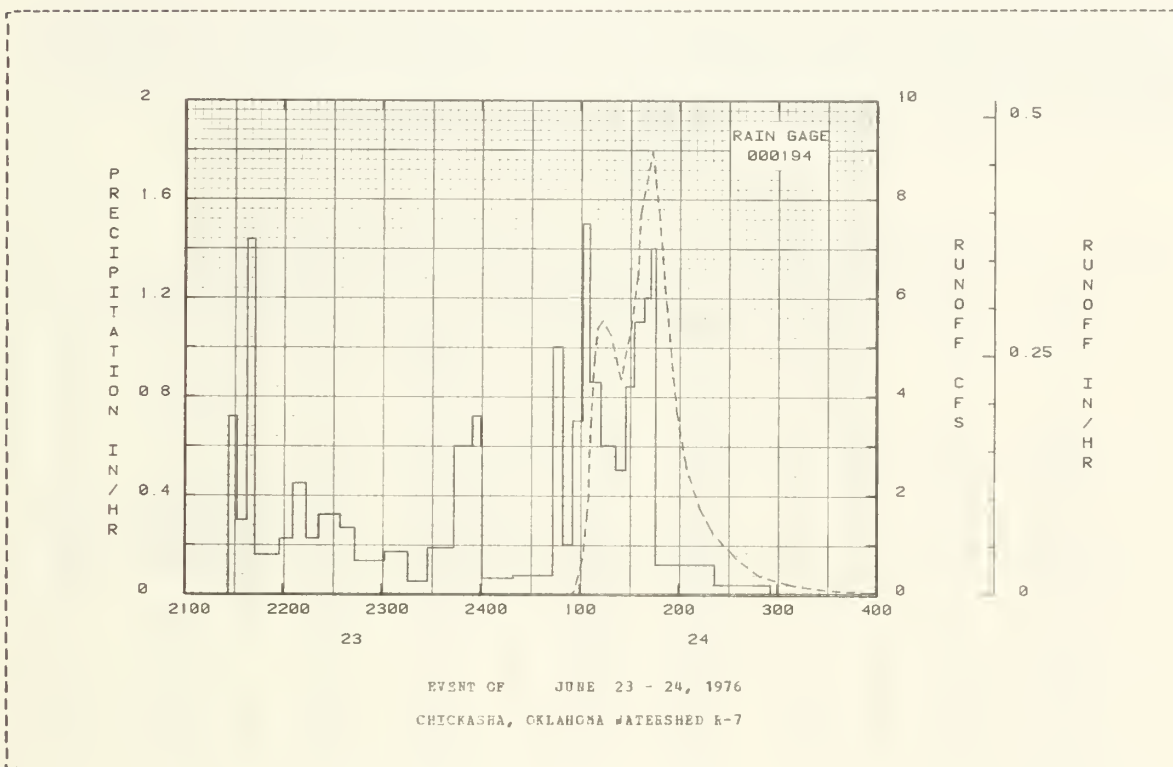
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 1.240315. STA AV values are based on 11 yr (1966-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-7												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 23 - 24, 1976												
6-23	0.0		6-23	2127	0.0	0.0	6-24	55	0.0	0.0		
5-24		0.0		2132	0.7200	0.06		57	0.057	0.0001		
				2138	0.3000	0.09		102	0.721	0.0017		
				2143	1.4400	0.21		105	1.721	0.0049		
				2158	0.1600	0.25		107	3.417	0.0093		
WATERSHED CONDITIONS:				2206	0.2250	0.28		109	4.764	0.0164		
Range condition class during				2214	0.4500	0.34		111	5.381	0.0251		
the year was poor, with				2222	0.2250	0.37		114	5.543	0.0392		
severe overgrazing.				2235	0.3231	0.44		119	5.222	0.0624		
				2244	0.2667	0.48		125	4.331	0.0871		
				2302	0.1333	0.52		131	5.381	0.1122		
				2316	0.1714	0.56		135	6.395	0.1325		
				2328	0.0500	0.57		137	7.718	0.1446		
				2344	0.1875	0.62		144	8.975	0.1949		
				2355	0.6000	0.73		148	7.718	0.2237		
			6-24	2400	0.7200	0.79		153	5.707	0.2526		
				1	0.6000	0.80		159	3.665	0.2768		
				20	0.0632	0.82		205	2.531	0.2928		
				44	0.0750	0.85		213	1.721	0.3075		
				50	1.0000	0.95		221	1.219	0.3176		
				56	0.2000	0.97		235	0.721	0.3293		
				102	0.7000	1.04		250	0.342	0.3362		
				106	1.5000	1.14		311	0.153	0.3407		
				113	0.8571	1.24		329	0.067	0.3424		
				122	0.6000	1.33		401	0.020	0.3436		
				128	0.5000	1.38		435	0.005	0.3440		
				133	0.8400	1.45		523	0.001	0.3441		
				139	1.1000	1.56		713	0.0	0.3441		
				143	1.2000	1.64						
				146	1.4000	1.71						

NOTES: To convert CPS to IN/HR, multiply by 0.051680.

1976 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-7							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
			EVENT OF	JUNE	23 - 24, 1976		(CONTINUED)			
			6-24	222	0.1167	1.78				
				256	0.0353	1.80				

NOTES: To convert CFS to IN/HR, multiply by 0.051680.





CHICKASHA, OKLAHOMA WATERSHED R-8

LOCATION: Grady 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. Lat. 35 deg. 05 min. 03 sec. N.; Long. 97 deg. 47 min. 11 sec. W.

AREA: 27.55 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED R-8																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.0	0.33	2.70	3.39	1.61	2.25	3.17	1.44	1.95	2.06	0.10	0.47	19.47	STA AV	P	0.95	1.18	2.14	3.01	4.45	2.86	2.56	2.49	3.94	3.15	1.43	1.02	29.19
	Q	0.0	0.0	0.063	0.185	0.008	0.349	0.543	0.060	0.073	0.013	0.0	0.0	1.292		Q	0.073	0.069	0.256	0.448	0.892	0.524	0.205	0.142	0.380	0.516	0.205	0.040	3.750

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

1976	Maximum Discharge 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.	
		6-24	0.535	6-24	0.311	7-15	0.355	7-15	0.357	7-15	0.426	7-15	0.543	7-14	0.543	7- 8

MAXIMUMS FOR PERIOD OF RECORD

5-24	4.813	5-24	2.148	5-24	2.304	5-24	2.323	5-24	2.327	5-24	2.330	5-22	2.559	5-24	3.328
1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935, when land use was changed to pasture because of severe erosion. Range condition class during the year was poor, with severe overgrazing. The vegetative cover in Dec. 1976, based on 25 uniformly spaced clipped samples, average 210 pounds of standing grass, 104 pounds of weeds, and 480 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. Pnb. 1226, pp. 69.45-1 and 69.45-3. 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 values are based on 11 yr (1966-76) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1976 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED R-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
3	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.06	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	0.01	0.0	0.06	0.0	0.0			
5	0.0	0.33	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.91	0.0	0.11	5	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.38			
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	6	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.09			
7	0.0	0.0	1.00	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	7	0.0	0.0	1.00	0.33	0.0	0.0	0.0	0.0	0.12	0.0	0.0			
8	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	8	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	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	0.10	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.09	0.0	11	0.0	0.0	0.10	0.0	0.0	0.0	0.11	0.0	0.09	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.93	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.93	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.74	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.74	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	0.01	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0			
15	0.0	0.0	0.0	0.81	0.0	0.0	0.0	2.49	0.0	0.0	0.03	0.0	15	0.0	0.0	0.0	0.81	0.0	0.0	0.0	2.49	0.03	0.0	0.0			
16	0.0	0.0	0.0	0.13	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.13	0.0	0.0	0.17	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	0.01	0.0	0.0	0.0	17	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.01	0.0	0.0			
18	0.0	0.0	0.0	0.04	0.0	0.11	0.0	0.0	0.0	0.03	0.0	0.0	18	0.0	0.0	0.0	0.04	0.0	0.11	0.0	0.0	0.0	0.03	0.0			
19	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	19	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.02	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	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.02	0.71	0.0	0.14	0.0	0.13	0.0	0.0	23	0.0	0.0	0.0	0.0	0.02	0.71	0.0	0.14	0.0	0.13	0.0			
24	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.02	0.0	0.0	26	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.02	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0			
28	0.0	0.0	0.21	0.91	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	28	0.0	0.0	0.21	0.91	0.0	0.0	0.40	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.02	0.0	1.45	0.0	0.0	29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.02	0.0	1.45	0.0			
30	0.0	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.0	0.03	0.0	0.0	30	0.0	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.03	0.0	0.0			
31	0.0	0.0	0.0	0.16	0.16	0.0	0.0	0.22	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.16	0.16	0.0	0.0	0.22	0.0	0.0	0.0			
TOTAL	0.0	0.33	2.70	3.39	1.61	2.25	3.17	1.44	1.95	2.06	0.10	0.47	STA AV	0.95	1.18	2.14	3.01	4.45	2.86	2.56	2.49	3.94	3.15	1.43	1.02		

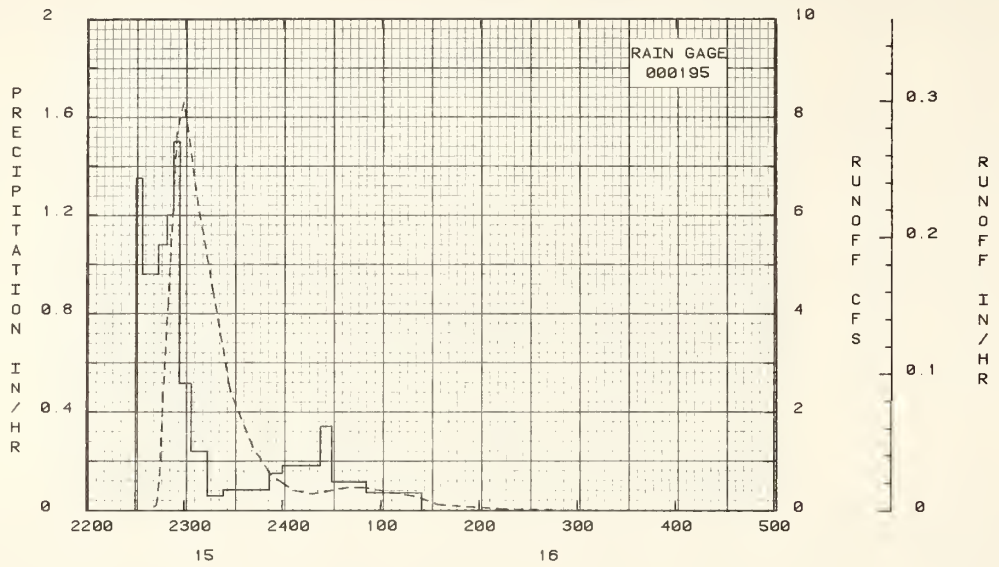
NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. STA AV values are based on 11 yr (1966-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) CHICKASHA, 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	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	0.064	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	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	0.072	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 T	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	0.028	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.056	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	0.024	0.0	0.0	0.601	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.005	0.0	0.0	0.027	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	0.134	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.403	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	0.009	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	0.051	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	0.015	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 T	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	0.0023	0.0071	0.0003	0.0135	0.0203	0.0022	0.0028	0.0005	0.0	0.0
INCHES	0.0	0.0	0.063	0.185	0.008	0.349	0.543	0.060	0.073	0.013	0.0	0.0
STA AV	0.073	0.069	0.256	0.448	0.892	0.524	0.205	0.142	0.380	0.516	0.205	0.040

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.663944. STA AV values are based on 11 yr (1966-76) record period.

1976 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-8											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 15 - 16, 1976											
7-15	0.0	0.357	7-15	2230	0.0	0.0	7-15	2230	0.0	0.0	
				2234	1.3500	0.09		2238	0.003	0.0000	
				2244	0.9600	0.25		2243	0.119	0.0002	
				2249	1.0800	0.34		2245	0.719	0.0007	
				2253	1.2000	0.42		2247	2.424	0.0026	
				2257	1.5000	0.52		2250	4.316	0.0086	
				2304	0.5143	0.58		2255	7.688	0.0266	
				2314	0.2400	0.62		2259	8.299	0.0458	
				2324	0.0600	0.63		2302	7.688	0.0602	
				2352	0.0857	0.67		2308	6.196	0.0852	
				2400	0.1500	0.69		2318	4.316	0.1167	
			7-16	23	0.1826	0.76		2328	2.424	0.1370	
				30	0.3429	0.80		2342	1.280	0.1525	
				51	0.1143	0.84		2353	0.719	0.1591	
				125	0.0706	0.88		2400	0.547	0.1618	
							7-16	8	0.403	0.1641	
								17	0.341	0.1661	
								40	0.472	0.1717	
								48	0.472	0.1739	
								120	0.285	0.1812	
								135	0.119	0.1830	
								213	0.032	0.1848	
								250	0.011	0.1852	
								335	0.003	0.1854	
								450	0.001	0.1855	
								630	0.0	0.1855	
								830	0.0	0.1855	
								1110	0.0	0.1855	

NOTES: To convert CFS to IN/HR, multiply by 0.035998.



EVENT OF JULY 15 - 16, 1976  
CHICKASHA, OKLAHOMA WATERSHED R-8

TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Misshabotna River, Missouri River Basin. Lat. 41 deg. 09 min. 51 sec. N.; Long. 95 deg. 38 min. 30 sec. W.

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
1976	P 0.15	1.21	2.05	4.49	3.12	2.68	2.36	1.05	3.30	0.72	0.02	0.11	21.26
	Q 0.303	0.296	0.342	0.433	0.501	0.455	0.388	0.344	0.313	0.309	0.215	0.188	4.087
STA AV	P 0.57	0.67	1.36	3.34	4.49	4.90	3.43	3.96	4.22	2.71	1.46	0.88	31.98
	Q 0.365	0.547	0.531	0.433	1.010	1.613	0.415	0.487	0.547	0.351	0.298	0.283	6.880

ANNUAL MAXIMUM DISCHARGE (in/cr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1976	6-17	0.036	6-17	0.011	6-17	0.013	4-24	0.024	4-24	0.032	4-23	0.045	4-23	0.067	4-23	0.186

MAXIMUMS FOR PERIOD OF RECORD																
	6-20	5.835	6-20	3.150	6-20	4.160	6-20	4.224	6-20	4.232	6-20	4.246	6-20	4.264	6-4	5.979
	1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 93% contoured corn; 7% prillies and grassed waterways. Precipitation from rain gage 117 before April 1 and after October 30; Thiessen average of gages 116, 117, 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 10, 1964. January 1 to February 10, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1976	DAILY PRECIPITATION (inches)												TREYNOR, IOWA WATERSHED 1
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	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	0.27	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	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.24	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	0.02	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	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
10	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	0.11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.05	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.11	1.18	0.0	0.0	0.0	
14	0.0	0.14	0.0	0.51	0.0	0.78	0.0	0.84	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.48	0.83	0.0	0.48	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.33	0.0	0.03	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.86	0.0	0.60	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	0.18	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	
20	0.0	0.09	0.0	0.71	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.38	0.0	0.0	0.07	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.80	0.0	0.06	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.52	0.12	0.36	0.0	0.0	0.0	0.19	0.0	0.0	
24	0.0	0.0	0.0	1.33	0.0	0.09	0.0	0.0	0.36	0.0	0.0	0.0	
25	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.83	0.69	0.02	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.53	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.02	0.0	0.20	0.01	0.0	0.0	0.09	0.0	0.0	0.11	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	
TOTAL	0.15	1.21	2.05	4.49	3.12	2.68	2.36	1.05	3.30	0.72	0.02	0.11	
STA AV	0.57	0.67	1.36	3.34	4.49	4.90	3.43	3.96	4.22	2.71	1.46	0.88	

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after October 30; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV values are based on 13 yr record period.



1976		MEAN DAILY DISCHARGE (cfs)					TREYNOR, IOWA WATERSHED 1						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.031	0.031	0.038	0.031	0.055	0.046	0.041	0.037	0.029	0.031	0.031	0.019	
2	0.031	0.031	0.038	0.029	0.052	0.046	0.041	0.036	0.029	0.031	0.031	0.019	
3	0.034	0.035	0.038	0.029	0.052	0.046	0.043	0.040	0.029	0.031	0.031	0.019	
4	0.031	0.032	0.038	0.029	0.050	0.046	0.041	0.042	0.029	0.034	0.031	0.019	
5	0.031	0.031	0.038	0.029	0.046	0.046	0.039	0.044	0.029	0.031	0.031	0.019	
6	0.034	0.027	0.035	0.029	0.046	0.046	0.036	0.043	0.029	0.031	0.031	0.019	
7	0.032	0.026	0.038	0.031	0.046	0.046	0.038	0.043	0.029	0.031	0.031	0.019	
8	0.028	0.029	0.039	0.031	0.046	0.043	0.039	0.040	0.032	0.031	0.031	0.019	
9	0.028	0.028	0.049	0.031	0.046	0.043	0.035	0.035	0.031	0.031	0.025	0.019	
10	0.031	0.026	0.042	0.031	0.043	0.044	0.035	0.036	0.029	0.031	0.019	0.019	
11	0.031	0.026	0.043	0.031	0.046	0.043	0.034	0.038	0.029	0.031	0.019	0.019	
12	0.031	0.027	0.039	0.031	0.056	0.043	0.035	0.033	0.030	0.031	0.019	0.019	
13	0.031	0.028	0.031	0.031	0.046	0.044	0.035	0.036	0.050	0.031	0.019	0.019	
14	0.031	0.031	0.031	0.041	0.046	0.065	0.035	0.053	0.031	0.031	0.019	0.019	
15	0.032	0.032	0.031	0.046	0.065	0.046	0.045	0.036	0.031	0.031	0.019	0.019	
16	0.031	0.033	0.031	0.037	0.061	0.044	0.036	0.035	0.031	0.031	0.019	0.019	
17	0.031	0.022	0.031	0.063	0.051	0.082	0.036	0.034	0.031	0.031	0.019	0.019	
18	0.031	0.025	0.031	0.040	0.046	0.049	0.035	0.031	0.031	0.032	0.019	0.019	
19	0.031	0.025	0.031	0.035	0.046	0.044	0.034	0.031	0.042	0.031	0.019	0.019	
20	0.031	0.026	0.031	0.050	0.046	0.043	0.037	0.031	0.031	0.031	0.019	0.019	
21	0.031	0.031	0.031	0.043	0.047	0.043	0.043	0.031	0.031	0.031	0.019	0.019	
22	0.031	0.032	0.031	0.038	0.067	0.043	0.043	0.031	0.031	0.031	0.019	0.019	
23	0.031	0.039	0.030	0.042	0.058	0.051	0.039	0.029	0.031	0.032	0.019	0.019	
24	0.031	0.043	0.031	0.140	0.050	0.053	0.035	0.029	0.033	0.031	0.019	0.019	
25	0.031	0.048	0.031	0.068	0.046	0.043	0.035	0.029	0.059	0.031	0.019	0.019	
26	0.031	0.043	0.031	0.065	0.046	0.063	0.044	0.029	0.037	0.031	0.019	0.019	
27	0.028	0.044	0.031	0.065	0.046	0.052	0.060	0.029	0.031	0.031	0.019	0.019	
28	0.026	0.040	0.030	0.065	0.073	0.041	0.048	0.029	0.031	0.031	0.019	0.019	
29	0.026	0.038	0.037	0.065	0.054	0.040	0.040	0.029	0.031	0.031	0.019	0.019	
30	0.028		0.035	0.057	0.046	0.040	0.041	0.028	0.031	0.031	0.019	0.019	
31	0.031		0.031		0.046		0.036	0.028		0.031		0.019	
MEAN	0.0306	0.0320	0.0345	0.0452	0.0506	0.0475	0.0392	0.0347	0.0327	0.0312	0.0224	0.0190	
INCHES	0.303	0.296	0.342	0.433	0.501	0.455	0.388	0.344	0.313	0.309	0.215	0.188	
STA AV	0.365	0.547	0.531	0.433	1.010	1.613	0.415	0.487	0.547	0.351	0.298	0.283	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.31949. STA AV values are based on 13 yr (1964-76) record period.

TREYNOR, IOWA WATERSHED 2

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missouri River Basin. Lat. 41 deg. 10 min. 10 sec. N.; Long. 95 deg. 39 min. 00 sec. W.

AREA: 82.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TREYNOR, IOWA WATERSHED 2	
	Jau	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 0.15	1.21	2.05	4.39	2.94	2.74	2.59	1.03	3.30	0.71	0.02	0.11	21.24	
	Q 0.571	0.544	0.591	0.531	0.542	0.442	0.366	0.309	0.271	0.287	0.283	0.267	5.005	
STA AV	P 0.57	0.57	1.40	3.27	4.42	4.86	3.37	3.89	4.27	2.71	1.47	0.68	31.79	
	Q 0.464	0.672	0.635	0.461	0.899	1.564	0.410	0.496	0.580	0.416	0.353	0.371	7.323	

ANNUAL MAXIMUM DISCHARGE (cu/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	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1976	6-17 0.050	6-17 0.015	6-17 0.016	6-17 0.019	6-17 0.023	4-23 0.033	4-23 0.054	4-23 0.186					

MAXIMUMS FOR PERIOD OF RECORD													
Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge
6-20 1967	4.866	6-20 1967	2.701	6-20 1967	3.693	6-20 1967	3.780	6-20 1967	3.786	6-20 1967	3.796	6-20 1967	3.810
6-4 1967	5.531												

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after October 30; 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 at Omaha, Nebraska.

1976	DAILY PRECIPITATION (inches)												TREYNOR, IOWA WATERSHED 2	
Day	Jau	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	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
2	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
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
4	0.0	0.0	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
6	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
7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0
8	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
9	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
10	0.0	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
11	0.0	0.0	0.11	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	0.05	0.0	0.60	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	0.02	0.0	0.0	0.0	0.11	1.13	0.0	0.0	0.0	0.0	0.0
14	0.0	0.14	0.0	0.49	0.0	0.76	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.45	0.81	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.33	0.0	0.03	0.17	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	0.66	0.0	0.62	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	0.16	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	0.74	0.0	0.0	0.0	0.0	0.0
20	0.0	0.09	0.0	0.70	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.38	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.73	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.53	0.12	0.35	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	1.27	0.0	0.10	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0
25	0.10	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
26	0.0	0.0	0.0	0.0	0.0	0.89	0.87	0.04	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.45	0.0	0.80	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	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	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
30	0.02	0.20	0.01	0.0	0.0	0.0	0.09	0.0	0.0	0.10	0.02	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	0.15	1.21	2.05	4.39	2.94	2.74	2.59	1.03	3.30	0.71	0.02	0.11		
STA AV	0.57	0.67	1.40	3.27	4.42	4.86	3.37	3.89	4.27	2.71	1.47	0.88		

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through October 30, and from station 117 for remainder of year. STA AV values are based on 13 yr (1964-76) record period.

1976		MEAN DAILY DISCHARGE (cfs)										TREYNOR, IOWA WATERSHED 2											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec											
1	0.064	0.064	0.064	0.064	0.074	0.052	0.045	0.037	0.030	0.030	0.033	0.033											
2	0.064	0.064	0.064	0.064	0.070	0.053	0.045	0.037	0.030	0.031	0.033	0.033											
3	0.064	0.064	0.064	0.064	0.068	0.054	0.045	0.040	0.029	0.033	0.033	0.033											
4	0.064	0.064	0.064	0.064	0.064	0.051	0.045	0.042	0.029	0.036	0.033	0.033											
5	0.064	0.064	0.064	0.064	0.064	0.051	0.042	0.045	0.029	0.031	0.033	0.033											
6	0.064	0.056	0.068	0.064	0.064	0.051	0.038	0.043	0.029	0.033	0.033	0.030											
7	0.063	0.059	0.069	0.064	0.064	0.050	0.041	0.040	0.025	0.031	0.033	0.033											
8	0.064	0.064	0.066	0.054	0.061	0.050	0.041	0.039	0.030	0.031	0.033	0.027											
9	0.064	0.065	0.073	0.047	0.061	0.048	0.039	0.036	0.029	0.031	0.033	0.027											
10	0.064	0.066	0.071	0.047	0.059	0.051	0.039	0.037	0.028	0.029	0.033	0.027											
11	0.064	0.064	0.073	0.047	0.060	0.048	0.035	0.037	0.027	0.029	0.033	0.027											
12	0.064	0.064	0.068	0.045	0.072	0.046	0.035	0.035	0.025	0.030	0.031	0.027											
13	0.064	0.057	0.064	0.045	0.064	0.045	0.036	0.039	0.047	0.031	0.033	0.027											
14	0.064	0.062	0.064	0.056	0.064	0.063	0.038	0.054	0.031	0.030	0.033	0.027											
15	0.065	0.064	0.064	0.057	0.075	0.050	0.054	0.037	0.031	0.031	0.033	0.027											
16	0.064	0.075	0.064	0.048	0.065	0.050	0.041	0.036	0.030	0.033	0.033	0.027											
17	0.064	0.064	0.064	0.069	0.057	0.098	0.039	0.032	0.029	0.033	0.033	0.027											
18	0.064	0.064	0.064	0.050	0.052	0.052	0.035	0.033	0.028	0.035	0.033	0.027											
19	0.064	0.064	0.064	0.047	0.052	0.047	0.035	0.030	0.045	0.033	0.033	0.027											
20	0.064	0.064	0.061	0.059	0.052	0.044	0.038	0.030	0.029	0.033	0.033	0.028											
21	0.064	0.064	0.064	0.055	0.054	0.042	0.046	0.029	0.029	0.033	0.033	0.026											
22	0.064	0.068	0.064	0.050	0.070	0.043	0.044	0.029	0.028	0.033	0.031	0.033											
23	0.064	0.075	0.064	0.054	0.060	0.051	0.040	0.029	0.026	0.036	0.033	0.033											
24	0.064	0.074	0.064	0.112	0.052	0.054	0.034	0.029	0.032	0.033	0.033	0.033											
25	0.064	0.076	0.071	0.072	0.051	0.044	0.034	0.029	0.056	0.033	0.033	0.033											
26	0.064	0.057	0.067	0.070	0.050	0.061	0.044	0.029	0.036	0.033	0.033	0.033											
27	0.064	0.067	0.064	0.074	0.050	0.056	0.061	0.029	0.031	0.033	0.033	0.033											
28	0.065	0.056	0.064	0.080	0.067	0.044	0.044	0.029	0.033	0.033	0.033	0.033											
29	0.064	0.064	0.077	0.083	0.059	0.043	0.042	0.028	0.031	0.033	0.033	0.033											
30	0.064		0.074	0.079	0.055	0.044	0.042	0.026	0.030	0.033	0.033	0.033											
31	0.064		0.064		0.055		0.036	0.028		0.033		0.033											
MEAN	0.0640	0.0653	0.0663	0.0616	0.0609	0.0513	0.0410	0.0347	0.0314	0.0322	0.0329	0.0300											
INCHES	0.571	0.544	0.591	0.531	0.542	0.442	0.366	0.309	0.271	0.287	0.283	0.267											
STA AV	0.464	0.672	0.635	0.461	0.899	1.564	0.410	0.496	0.580	0.416	0.353	0.371											

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28746. STA AV values are based on 13 yr (1964-76) record period.

TREYNOR, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabona River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 107.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													TREYNOR, IOWA WATERSHED 3	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	0.12	1.14	1.96	3.97	2.99	4.00	3.42	1.85	3.40	0.87	0.02	0.11	23.85
	Q	0.332	0.323	0.470	0.540	0.767	0.998	0.605	0.450	0.245	0.229	0.188	0.199	5.344
STA AV	P	1.59	0.63	1.35	3.25	4.58	5.03	3.24	3.39	4.25	2.71	1.40	0.85	31.28
	Q	0.369	0.562	0.624	0.511	0.692	0.899	0.565	0.384	0.345	0.394	0.362	0.371	6.078

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Date	Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	6-27	0.915	6-27	0.265	6-26	0.283	6-26	0.296	6-26	0.395	6-26	0.317	6-26	0.340	6-26	0.474
MAXIMUMS FOR PERIOD OF RECORD																
	6-20	2.010	6-20	1.005	6-20	1.287	6-20	1.336	6-20	1.350	6-20	1.371	2-27	1.403	6-14	1.741
	1967		1967		1967		1967		1967		1967		1965		1967	

NOTES: Watershed conditions: 86% corn, conservation tillage; 14% grassed waterway, roads and farmstead. Precipitation: Arithmetic average of rain gages 113 and 114 before April 1 and after October 30; Thiessen average of gages 112, 113 and 114 for remainder of year. Precipitation records began January 1, 1964. Runoff records began January 2, 1964, January 1, 1964 runoff estimated and included in average. For topographic map of watershed, see hydrologic data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.3-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1976 DAILY AVE TEMPERATURE (degrees F)														TREYNOR, IOWA WATERSHED 3											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	36	27	38	17	34	26	66	31	69	40	83	59	80	54	76	57	80	61	90	49	65	35	27	7	
2	27	10	19	6	34	27	77	42	56	31	81	60	80	61	80	59	85	56	87	52	59	35	27	15	
3	10	-1	41	7	29	19	52	34	61	26	81	55	79	60	92	56	93	61	85	59	47	26	43	16	
4	15	-6	15	7	26	15	59	37	78	39	83	53	81	54	88	66	85	54	68	52	33	20	36	20	
5	37	15	16	8	22	7	77	34	76	53	85	61	84	57	86	70	85	56	59	46	51	19	32	29	
6	30	-4	21	3	38	11	76	44	61	41	85	61	88	58	76	63	85	65	55	31	56	29	28	-5	
7	0	-11	44	11	35	24	59	50	64	37	87	58	90	66	78	51	91	63	54	34	35	22	13	-6	
8	9	-8	47	25	36	25	66	41	72	39	89	63	92	65	63	59	71	53	64	30	57	19	15	-9	
9	24	-3	55	31	44	26	79	38	73	43	92	66	99	72	90	63	72	47	63	39	61	33	49	14	
10	35	17	47	33	40	31	75	48	84	46	90	66	96	73	92	71	81	45	77	39	47	23	29	-1	
11	40	14	53	25	56	30	60	42	78	48	101	65	99	74	90	66	87	45	84	47	28	13	40	-3	
12	44	28	63	37	49	20	65	27	62	52	94	68	96	73	91	64	87	57	76	50	26	7	32	11	
13	39	13	46	27	41	13	80	42	66	42	96	62	96	72	86	64	77	59	69	45	29	14	37	9	
14	39	7	52	26	43	27	85	58	64	52	86	53	94	72	76	64	79	59	83	47	39	13	51	26	
15	52	22	55	39	41	28	80	57	67	45	67	54	85	66	73	63	73	56	53	31	45	20	49	25	
16	25	15	41	34	41	24	72	56	59	51	85	51	78	56	83	62	76	53	43	23	49	21	52	25	
17	27	7	52	32	59	26	66	53	69	43	92	62	86	58	91	71	77	54	45	19	65	30	56	33	
18	43	17	57	33	72	41	62	56	72	42	69	52	90	62	92	70	67	57	37	32	70	39	67	31	
19	39	9	54	31	78	43	66	40	86	49	77	51	94	76	66	66	74	59	35	33	45	35	43	15	
20	47	1	53	32	60	34	55	47	89	56	84	54	94	74	86	60	65	47	51	25	45	27	17	6	
21	42	32	33	19	47	26	66	44	85	60	85	55	80	72	90	63	75	48	47	27	37	23	27	0	
22	45	19	42	19	60	28	68	47	72	54	86	61	86	70	90	66	88	49	56	19	34	14	34	19	
23	55	26	47	27	72	26	79	54	57	49	78	62	96	72	90	66	65	45	45	33	37	23	27	8	
24	43	25	51	33	65	43	59	37	68	52	78	59	88	62	86	65	75	49	39	33	59	23	46	22	
25	35	12	55	31	67	42	56	37	72	47	88	55	85	61	85	62	60	54	45	28	61	34	44	21	
26	22	5	52	33	67	38	54	35	71	48	90	62	88	68	95	65	69	54	41	31	37	19	38	25	
27	23	-2	70	37	61	28	53	43	77	54	77	61	87	69	32	60	58	45	45	27	19	2	61	27	
28	51	17	57	31	68	43	57	44	83	54	87	63	88	72	84	54	57	47	49	27	15	-3	27	3	
29	51	25	43	27	53	39	59	45	75	58	75	63	86	69	86	51	69	40	50	25	22	0	23	3	
30	42	26			42	33	66	45	74	55	78	55	84	66	89	57	85	41	33	40	31	3	16	-11	
31	43	24			52	33			78	55			80	64	67	57			57	31				9	-13
AV.	35	12	46	25	49	28	66	44	72	47	84	59	88	66	85	62	77	53	58	36	44	21	35	12	
MEAN	23.4		35.5		38.8		55.1		59.5		71.9		77.4		73.6		65.1		46.9		32.2		23.5		
STA AV	29	11	35	17	46	25	61	38	74	51	82	60	87	65	83	62	74	52	64	42	46	27	32	18	

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV values based on 13 yr record period beginning 1964.



1976 DAILY PRECIPITATION (inches) TREYNOR, IOWA WATERSHED 3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	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	0.19	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	1.07	0.0	0.0	0.0	0.0	0.0	0.0	0.20	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	0.05
6	0.02	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	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0
10	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	0.14	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0
12	0.0	0.0	0.09	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.16	1.41	0.0	0.0	0.0
14	0.0	0.13	0.0	0.43	0.0	0.85	0.0	0.93	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.36	0.72	0.0	0.46	0.0	0.0	0.0	0.0	0.0
16	0.0	0.36	0.0	0.33	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.82	0.0	0.57	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	0.03	0.16	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	0.0
20	0.0	0.13	0.0	0.64	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
21	0.0	0.33	0.0	0.0	0.06	0.0	0.10	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.68	0.0	0.19	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.56	0.15	0.30	0.0	0.0	0.0	0.41	0.0	0.0
24	0.0	0.0	0.0	1.06	0.0	0.03	0.0	0.0	0.37	0.0	0.0	0.0
25	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	1.45	1.53	0.05	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.73	0.91	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.57	0.0	0.14	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.57	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.02	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.10	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
TOTAL	0.12	1.14	1.96	3.97	2.99	4.00	3.42	1.85	3.40	0.87	0.02	0.11
STA AV	0.59	0.63	1.35	3.25	4.58	5.03	3.24	3.39	4.25	2.71	1.40	0.65

NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after October 30; Thiessen weighted average values from rain gages 112, 113 and 114 for remainder of year. STA AV values based on 13 yr (1964-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.055	0.047	0.059	0.073	0.105	0.110	0.100	0.079	0.044	0.031	0.031	0.027
2	0.055	0.047	0.064	0.073	0.105	0.112	0.101	0.078	0.044	0.032	0.029	0.027
3	0.048	0.047	0.058	0.073	0.105	0.112	0.101	0.078	0.043	0.032	0.027	0.027
4	0.051	0.047	0.055	0.073	0.105	0.112	0.101	0.077	0.042	0.035	0.031	0.027
5	0.055	0.047	0.058	0.073	0.105	0.113	0.099	0.078	0.041	0.030	0.033	0.027
6	0.052	0.047	0.064	0.073	0.105	0.112	0.098	0.079	0.037	0.032	0.031	0.027
7	0.047	0.047	0.064	0.073	0.111	0.112	0.094	0.081	0.034	0.031	0.033	0.027
8	0.047	0.047	0.064	0.073	0.111	0.111	0.094	0.078	0.039	0.032	0.033	0.027
9	0.047	0.047	0.064	0.073	0.110	0.112	0.090	0.078	0.037	0.031	0.029	0.027
10	0.047	0.047	0.064	0.073	0.111	0.111	0.089	0.078	0.037	0.030	0.027	0.027
11	0.047	0.047	0.069	0.073	0.111	0.106	0.089	0.073	0.036	0.030	0.027	0.027
12	0.047	0.047	0.068	0.073	0.124	0.102	0.069	0.062	0.037	0.027	0.027	0.027
13	0.047	0.047	0.064	0.073	0.116	0.105	0.088	0.065	0.034	0.030	0.027	0.027
14	0.047	0.049	0.072	0.077	0.116	0.118	0.088	0.092	0.033	0.031	0.027	0.027
15	0.047	0.047	0.073	0.073	0.122	0.105	0.093	0.064	0.033	0.035	0.027	0.027
16	0.047	0.060	0.073	0.078	0.106	0.102	0.083	0.064	0.031	0.033	0.027	0.027
17	0.047	0.048	0.069	0.090	0.105	0.110	0.081	0.060	0.032	0.033	0.027	0.027
18	0.047	0.047	0.068	0.073	0.105	0.105	0.079	0.060	0.033	0.038	0.027	0.027
19	0.047	0.047	0.064	0.073	0.105	0.102	0.078	0.061	0.044	0.033	0.027	0.023
20	0.047	0.047	0.064	0.080	0.105	0.101	0.079	0.061	0.031	0.033	0.027	0.024
21	0.047	0.047	0.072	0.074	0.106	0.100	0.083	0.061	0.031	0.033	0.027	0.029
22	0.047	0.051	0.073	0.073	0.120	0.098	0.085	0.064	0.030	0.036	0.027	0.033
23	0.047	0.053	0.073	0.081	0.117	0.055	0.079	0.060	0.031	0.043	0.027	0.033
24	0.047	0.055	0.073	0.105	0.112	0.102	0.078	0.057	0.034	0.039	0.027	0.033
25	0.047	0.066	0.073	0.094	0.111	0.095	0.075	0.052	0.047	0.039	0.027	0.033
26	0.047	0.058	0.073	0.094	0.111	0.117	0.090	0.051	0.036	0.034	0.027	0.033
27	0.047	0.055	0.073	0.096	0.113	1.401	0.095	0.050	0.033	0.033	0.027	0.033
28	0.047	0.055	0.073	0.103	0.119	0.102	0.080	0.048	0.033	0.033	0.027	0.033
29	0.047	0.055	0.082	0.105	0.116	0.101	0.080	0.044	0.032	0.033	0.027	0.033
30	0.047	0.078	0.105	0.116	0.116	0.100	0.078	0.044	0.032	0.033	0.027	0.033
31	0.047	0.073	0.105	0.116	0.116	0.100	0.078	0.044	0.032	0.033	0.027	0.033
MEAN	0.0481	0.0500	0.0682	0.0809	0.1112	0.1095	0.0877	0.0652	0.0367	0.0332	0.0282	0.0288
INCHES	0.332	0.323	0.470	0.540	0.767	0.598	0.605	0.450	0.245	0.229	0.186	0.199
STA AV	0.366	0.562	0.624	0.511	0.692	0.899	0.565	0.384	0.345	0.394	0.362	0.371

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.22245. STA AV values are based on 13 yr (1964-76) record period.

TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Mishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

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	
1976 P	0.12	1.09	1.98	4.60	3.24	4.39	3.56	2.03	3.33	0.82	0.02	0.11	25.29	
1976 Q	0.322	0.313	0.380	0.403	0.516	1.047	0.554	0.429	0.263	0.232	0.193	0.174	4.826	
STA AV P	0.56	0.52	1.34	3.29	4.56	5.12	3.29	3.39	4.44	2.78	1.39	0.84	31.63	
STA AV Q	0.482	0.489	0.691	0.594	0.924	1.075	0.800	0.560	0.582	0.545	0.499	0.488	7.729	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		Maximum Volume for Selected Time Interval													
	Date	Rate	1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.
1976	6-27	0.282	6-27	0.130	6-27	0.157	6-27	0.263	6-27	0.411	6-26	0.580	6-26	0.630	6-26	0.731
MAXIMUMS FOR PERIOD OF RECORD																
	6-7 1972	0.607	6-7 1972	0.179	5-10 1971	0.289	5-5 1972	0.563	5-5 1972	0.676	5-5 1972	1.036	5-5 1972	1.316	5-5 1972	1.743

NOTES: Watershed conditions: 73% contoured corn above level terraces which have a capacity of 2 inches of runoff; 23% contoured corn below the bottom terraces; 3% grassed terrace backslopes; 1% gully. Precipitation from rain gage 113 before April 1 and after October 30; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1954. 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 revised topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USDA Misc. Pub. 1412, p. 71.4-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1976	DAILY PRECIPITATION (inches)												TREYNOR, IOWA WATERSHED 4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	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
2	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
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
4	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
5	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	0.05
6	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
7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
8	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
9	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
10	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
11	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.08	0.0	0.82	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	0.03	0.0	0.0	0.0	0.16	1.30	0.0	0.0	0.0	0.0	0.0
14	0.0	0.12	0.0	0.45	0.0	0.94	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.42	0.83	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.33	0.0	0.03	0.16	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	0.85	0.0	0.54	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	0.05	0.17	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	0.77	0.0	0.0	0.0	0.0	0.0
20	0.0	0.11	0.0	0.76	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.36	0.0	0.0	0.07	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.65	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.68	0.15	0.31	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	1.34	0.0	0.10	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0
25	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	1.60	1.66	0.08	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.87	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.56	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.60	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.02	0.0	0.12	0.01	0.0	0.0	0.0	0.0	0.0	0.10	0.02	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	0.12	1.09	1.98	4.60	3.24	4.39	3.56	2.03	3.33	0.82	0.02	0.11		
STA AV	0.58	0.52	1.34	3.29	4.56	5.12	3.29	3.39	4.44	2.78	1.39	0.84		

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through October 30, and from 113 for remainder of year. STA AV values are based on 13 yr record period.

1976		MEAN DAILY DISCHARGE (cfs)					TREYNOR, IOWA WATERSHED 4					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.073	0.064	0.073	0.083	0.105	0.099	0.105	0.099	0.064	0.047	0.043	0.039
2	0.066	0.064	0.073	0.083	0.105	0.094	0.105	0.099	0.064	0.047	0.039	0.039
3	0.064	0.064	0.073	0.081	0.105	0.094	0.105	0.094	0.061	0.047	0.039	0.039
4	0.071	0.054	0.066	0.083	0.103	0.094	0.105	0.094	0.061	0.047	0.046	0.039
5	0.073	0.064	0.068	0.078	0.102	0.094	0.105	0.094	0.061	0.047	0.047	0.039
6	0.067	0.064	0.075	0.073	0.105	0.094	0.105	0.094	0.059	0.047	0.047	0.039
7	0.068	0.064	0.075	0.073	0.105	0.094	0.105	0.094	0.055	0.047	0.047	0.039
8	0.064	0.064	0.073	0.073	0.105	0.094	0.105	0.094	0.058	0.047	0.047	0.039
9	0.064	0.064	0.077	0.073	0.105	0.094	0.105	0.089	0.060	0.047	0.042	0.039
10	0.064	0.064	0.080	0.073	0.101	0.094	0.105	0.087	0.055	0.047	0.039	0.039
11	0.070	0.064	0.083	0.073	0.101	0.091	0.105	0.114	0.055	0.047	0.039	0.039
12	0.068	0.064	0.084	0.073	0.111	0.090	0.105	0.083	0.055	0.047	0.039	0.039
13	0.064	0.064	0.083	0.073	0.105	0.091	0.102	0.084	0.069	0.047	0.039	0.036
14	0.064	0.055	0.083	0.077	0.105	0.102	0.105	0.298	0.055	0.046	0.039	0.033
15	0.064	0.064	0.083	0.075	0.111	0.094	0.109	0.083	0.055	0.047	0.039	0.033
16	0.064	0.072	0.083	0.074	0.105	0.091	0.102	0.083	0.055	0.047	0.039	0.033
17	0.064	0.065	0.080	0.085	0.105	0.093	0.105	0.078	0.053	0.047	0.039	0.033
18	0.064	0.064	0.076	0.079	0.102	0.094	0.101	0.073	0.053	0.047	0.039	0.033
19	0.064	0.064	0.073	0.078	0.101	0.094	0.099	0.073	0.061	0.047	0.039	0.033
20	0.064	0.064	0.073	0.081	0.101	0.094	0.094	0.069	0.052	0.047	0.039	0.033
21	0.064	0.064	0.073	0.083	0.102	0.090	0.098	0.069	0.047	0.047	0.039	0.033
22	0.064	0.068	0.082	0.083	0.110	0.088	0.106	0.067	0.047	0.047	0.039	0.033
23	0.064	0.073	0.077	0.087	0.109	0.089	0.099	0.068	0.047	0.049	0.039	0.033
24	0.064	0.078	0.073	0.117	0.105	0.091	0.094	0.069	0.049	0.047	0.039	0.033
25	0.064	0.080	0.073	0.106	0.105	0.088	0.094	0.064	0.061	0.047	0.039	0.033
26	0.064	0.078	0.073	0.105	0.105	0.541	0.136	0.068	0.055	0.047	0.039	0.033
27	0.064	0.083	0.073	0.105	0.105	3.330	0.371	0.064	0.050	0.047	0.039	0.033
28	0.064	0.083	0.079	0.105	0.111	0.188	0.117	0.064	0.047	0.047	0.039	0.033
29	0.064	0.076	0.086	0.105	0.105	0.110	0.101	0.064	0.047	0.047	0.039	0.033
30	0.064		0.087	0.105	0.105	0.105	0.098	0.064	0.047	0.047	0.039	0.033
31	0.064		0.083		0.105		0.099	0.064		0.047		0.033
MEAN	0.0654	0.0681	0.0773	0.0847	0.1050	0.2199	0.1126	0.0872	0.0553	0.0471	0.0405	0.0354
INCHES	0.322	0.313	0.380	0.403	0.516	1.047	0.554	0.429	0.263	0.232	0.193	0.174
STA AV	0.482	0.489	0.691	0.594	0.924	1.075	0.800	0.560	0.582	0.545	0.499	0.488

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.15868. STA AV values are based on 13 yr (1964-76) record period.

TIFTON, GEORGIA LITTLE RIVER WATERSHED B

LOCATION: Tift County, Georgia; approximately 3 miles west of Tifton on County Road S1983; Little River, Withlacoochee River Sub-basin, Sawnee River Basin, east weir: Lat. 31 deg. 28 min. 51 sec., long. 83 deg. 34 min. 56 sec.

AREA: 82592.00 acres 129.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TIFTON, GEORGIA LITTLE RIVER WATERSHED B															
		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
1976	P	3.88	2.01	3.82	2.93	8.88	3.21	5.65	5.03	3.83	4.98	5.90	4.34	54.46															
	Q	1.184	1.128	0.780	0.337	3.760	0.333	1.038	0.337	0.631	0.515	1.196	3.568	14.807															
STA AV	P	4.68	4.96	5.20	5.19	4.25	5.28	5.83	4.63	2.68	2.23	2.63	4.17	51.72															
	Q	1.670	2.331	1.753	3.368	1.300	0.559	0.580	0.382	0.446	0.126	0.243	0.965	14.325															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge				Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1976		5-17	0.023	5-17	0.020	5-17	0.040	5-17	0.120	5-17	0.237	5-17	0.453	5-16	0.782
														11-27	1.669

MAXIMUMS FOR PERIOD OF RECORD															
		4-16	0.030	4-16	0.030	4-16	0.059	4-16	0.176	4-16	0.349	4-16	0.671	4-15	1.192
		1975		1975		1975		1975		1975		1975		1973	3.467

NOTES: Watershed Conditions: Residential, 1.0%; forest, 39.7%; commercial, 0.4%; water, 1.9%; crops, 35.8%; wetland, 2.5%; pasture, 17.8%; roads, 0.9%. For topographic and composition map showing location of rain gages see pages 74.002-21 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began November 25, 1971. Monthly precipitation values are weighted using the reciprocal distance squared method from 28 recording gages. Runoff station averages include part-year records. Precipitation STA AV values are for record period beginning 1971. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)														TIFTON, GEORGIA LITTLE RIVER WATERSHED B													
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	0.71	0.0	0.0	0.39	0.08	0.67	0.0	0.01	0.0	0.0	0.0	1	0.0	0.71	0.0	0.0	0.39	0.08	0.67	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.19	0.02	0.25	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.19	0.02	0.25	0.0	0.0	0.0	0.0			
3	0.16	0.0	0.0	0.0	0.01	0.14	0.08	0.01	0.0	0.0	0.0	0.0	3	0.16	0.0	0.0	0.0	0.01	0.14	0.08	0.01	0.0	0.0	0.0			
4	0.01	0.0	0.0	0.0	0.0	0.03	0.27	0.0	0.18	0.0	0.0	0.0	4	0.01	0.0	0.0	0.0	0.03	0.27	0.0	0.18	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.01	0.52	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.59	0.01	0.52	0.0	0.0	0.0			
6	0.01	0.0	0.14	0.18	0.0	0.0	1.00	0.0	0.99	0.21	0.0	0.71	6	0.01	0.0	0.14	0.18	0.0	0.0	1.00	0.0	0.99	0.21	0.0			
7	0.63	0.0	0.01	0.0	1.33	0.0	0.0	0.31	1.23	0.02	0.0	0.37	7	0.63	0.0	0.01	0.0	1.33	0.0	0.0	0.31	1.23	0.02	0.0			
8	0.54	0.0	0.01	0.0	0.18	0.0	0.0	0.03	0.26	1.85	0.0	0.01	8	0.54	0.0	0.01	0.0	0.18	0.0	0.0	0.03	0.26	1.85	0.0			
9	0.01	0.0	0.19	0.0	0.03	0.01	0.0	0.57	0.03	0.02	0.01	0.0	9	0.01	0.0	0.19	0.0	0.03	0.01	0.0	0.57	0.03	0.02	0.01			
10	0.0	0.0	0.0	0.0	0.02	0.01	0.03	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.02	0.01	0.03	0.0	0.0	0.0	0.0			
11	0.03	0.0	0.0	0.0	0.11	0.01	0.0	0.0	0.0	0.0	0.0	0.54	11	0.03	0.0	0.0	0.0	0.11	0.01	0.0	0.0	0.0	0.0	0.54			
12	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.36	12	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.36			
13	0.01	0.0	0.49	0.06	0.12	0.0	0.0	0.05	0.0	0.0	0.0	0.04	13	0.01	0.0	0.49	0.06	0.12	0.0	0.0	0.05	0.0	0.0	0.04			
14	0.14	0.0	0.54	0.01	2.10	0.0	0.0	0.01	0.16	0.0	0.18	0.24	14	0.14	0.0	0.54	0.01	2.10	0.0	0.0	0.01	0.16	0.0	0.18			
15	0.0	0.0	0.39	0.0	1.13	0.0	0.0	0.0	0.02	0.0	0.07	0.05	15	0.0	0.0	0.39	0.0	1.13	0.0	0.0	0.0	0.02	0.0	0.07			
16	0.18	0.0	0.38	0.0	0.36	0.01	0.0	0.22	0.0	0.0	0.0	0.0	16	0.18	0.0	0.38	0.0	0.36	0.01	0.0	0.22	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.04	0.25	1.17	0.09	0.0	0.75	0.66	0.0	17	0.0	0.0	0.0	0.0	0.04	0.25	1.17	0.09	0.0	0.75	0.66			
18	0.0	0.28	0.0	0.0	0.02	0.01	0.05	0.0	0.0	0.0	0.0	0.0	18	0.0	0.28	0.0	0.0	0.02	0.01	0.05	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.11	0.15	0.0	19	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.11	0.15			
20	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	1.54	0.27	0.34	20	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	1.54	0.27			
21	0.0	0.08	0.15	0.0	0.0	0.0	0.0	0.06	0.09	0.0	0.01	0.0	21	0.0	0.08	0.15	0.0	0.0	0.0	0.0	0.06	0.09	0.0	0.01			
22	0.0	0.94	0.09	0.0	1.53	0.01	0.07	0.0	0.0	0.0	0.0	0.0	22	0.0	0.94	0.09	0.0	1.53	0.01	0.07	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.03	0.0	1.20	0.0	0.02	0.32	0.0	0.0	0.0	0.0	23	0.0	0.0	0.03	0.0	1.20	0.0	0.02	0.32	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.04	0.07	0.0	0.02	0.01	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.04	0.07	0.0	0.02	0.01	0.0	0.0			
25	0.0	0.0	0.01	0.24	0.12	0.0	0.0	0.0	0.03	0.40	0.0	0.99	25	0.0	0.0	0.01	0.24	0.12	0.0	0.0	0.0	0.03	0.40	0.0			
26	1.51	0.0	0.0	0.0	0.01	0.40	1.49	3.04	0.06	0.0	2.15	0.03	26	1.51	0.0	0.0	0.0	0.01	0.40	1.49	3.04	0.06	0.0	2.15			
27	0.64	0.0	0.44	0.0	0.03	0.47	0.01	0.02	0.09	0.0	1.46	0.0	27	0.64	0.0	0.44	0.0	0.03	0.47	0.01	0.02	0.09	0.0	1.46			
28	0.0	0.0	0.02	0.0	0.10	0.48	0.06	0.0	0.08	0.0	0.77	0.25	28	0.0	0.0	0.02	0.0	0.10	0.48	0.06	0.0	0.08	0.0	0.77			
29	0.0	0.0	0.01	0.35	0.0	0.41	0.10	0.0	0.07	0.0	0.17	0.0	29	0.0	0.0	0.01	0.35	0.0	0.41	0.10	0.0	0.07	0.0	0.17			
30	0.0	0.0	0.0	2.09	0.0	0.27	0.02	0.0	0.0	0.08	0.0	0.0	30	0.0	0.0	0.0	2.09	0.0	0.27	0.02	0.0	0.0	0.08	0.0			
31	0.01		0.91		0.0		0.0		0.0		0.41		31	0.01		0.91		0.0		0.0		0.0		0.41			
TOTAL		3.88	2.01	3.82	2.93	8.88	3.21	5.65	5.03	3.83	4.98	5.90	4.34														
STA AV		4.68	4.96	5.20	5.19	4.25	5.28	5.83	4.63	2.68	2.23	2.63	4.17														

NOTES: Values are weighted using Reciprocal Distance Squared Method from 28 recording gages. STA AV values are based on 6 yr (1971-76) record period.



1976 MEAN DAILY DISCHARGE (cfs) TIFTON, GEORGIA LITTLE RIVER WATERSHED B												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	101.8	294.9	69.1	144.1	27.7	144.7	187.6	26.7	51.5	2.2	38.1	1100.4
2	126.0	275.6	59.0	188.2	127.5	129.6	261.0	14.0	24.0	2.2	34.1	720.1
3	137.0	245.9	52.8	220.7	253.0	116.2	155.5	8.7	13.4	2.1	33.6	473.4
4	124.2	244.6	48.1	161.2	232.8	101.1	140.9	5.9	8.6	1.9	31.0	344.1
5	94.2	233.0	43.2	99.7	144.6	108.8	118.5	4.1	7.1	1.7	26.8	277.0
6	72.9	192.9	40.0	63.6	64.6	123.3	159.5	2.8	6.6	1.5	22.7	250.0
7	60.0	150.4	38.4	47.4	48.2	91.5	297.4	2.1	40.8	1.4	20.1	329.6
8	90.1	125.0	36.3	39.7	280.9	61.0	493.3	3.1	263.3	1.6	18.2	386.3
9	121.8	112.0	37.5	37.8	378.6	40.0	375.5	2.9	446.5	9.5	16.4	447.7
10	155.9	99.6	43.0	34.1	272.6	27.2	246.2	2.1	441.4	25.1	15.9	496.9
11	194.9	88.8	48.7	27.1	196.7	18.9	120.5	1.4	325.6	94.1	15.4	448.4
12	187.9	82.7	51.3	20.6	119.6	13.3	58.8	2.2	189.2	138.6	14.6	396.9
13	140.2	80.4	49.3	16.5	75.0	9.3	34.7	24.3	95.6	80.6	13.6	442.1
14	105.0	76.2	56.1	13.2	70.4	6.5	21.9	23.0	52.1	38.6	12.7	494.0
15	88.8	70.7	75.7	10.6	467.0	4.6	13.4	12.2	35.0	21.9	13.3	507.7
16	85.3	65.7	139.2	9.2	654.8	3.5	8.1	6.8	28.5	14.5	14.6	477.6
17	91.4	62.2	194.7	8.3	1549.7	3.1	4.9	4.1	27.2	19.5	19.2	417.8
18	85.9	60.6	246.1	7.5	1137.7	6.0	5.6	2.5	25.7	32.6	38.3	357.7
19	76.6	65.6	261.5	6.0	568.3	7.0	14.9	1.4	21.9	25.7	54.9	303.5
20	69.8	65.1	199.8	4.4	405.5	5.9	35.8	0.9	17.8	50.6	83.6	252.2
21	61.1	74.1	126.1	3.2	249.8	5.6	65.5	0.6	14.6	104.9	104.5	227.3
22	53.2	89.1	86.7	2.4	178.1	6.8	36.5	0.4	12.1	157.4	95.3	225.1
23	48.7	98.5	71.7	1.7	579.1	7.9	18.6	0.2	9.5	228.6	85.6	238.5
24	45.3	148.2	73.1	1.2	1079.6	9.3	12.2	0.2	7.3	190.9	72.5	238.8
25	42.7	243.0	76.7	0.8	1306.8	8.3	7.0	0.1	5.7	121.6	53.8	214.7
26	45.7	245.9	73.1	0.6	1029.1	5.9	4.0	0.1	4.8	93.9	53.7	296.4
27	109.7	149.3	68.0	0.4	541.3	4.3	2.5	0.6	3.9	79.6	193.4	361.0
28	215.4	95.2	67.2	0.2	366.6	13.2	64.4	25.1	3.3	72.6	553.2	453.1
29	369.1	79.1	72.4	0.2	262.7	19.9	342.5	452.1	2.7	67.7	1118.4	488.4
30	501.1		96.9	0.3	207.0	52.4	224.0	388.0	2.4	58.1	1284.6	389.8
31	408.8		105.3		173.4		71.2	149.5		46.4		326.3
MEAN	132.56	134.96	87.34	39.02	420.85	38.50	116.20	37.67	72.93	57.66	138.39	399.38
INCHES	1.184	1.128	0.780	0.337	3.760	0.333	1.038	0.337	0.631	0.515	1.196	3.568
STA AV	1.670	2.931	1.753	3.363	1.300	0.559	0.580	0.382	0.446	0.126	0.243	0.965

NOTES: To convert runoff in CPS to IN/DAY, multiply by 0.0002881. STA AV values are based on 6 yr (1971-76) record period.

1976 SELECTED RUNOFF EVENT TIFTON, GEORGIA LITTLE RIVER WATERSHED B												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 3 - 17, 1976												
9-4	RG 000022		9-4	RG 000022			9-3	2400	10.521	0.0		
9-3	0.0	0.604	9-4	1859	0.0	0.0	9-4	645	9.047	0.0000		
			9-4	2020	0.0741	0.10	9-4	1555	8.038	0.0002		
			9-4	2140	0.0750	0.20	9-4	2400	7.719	0.0010		
			9-5	1430	0.0	0.20	9-5	845	7.106	0.0010		
			9-5	1435	1.1999	0.30						
WATERSHED CONDITIONS:			9-6	1330	0.0	0.30	9-6	1855	6.812	0.0013		
Residential, 1.0%; water,			9-6	1350	0.6000	0.50	9-6	2400	6.248	0.0013		
1.9%; crops, 35.8%; wet-			9-6	1400	0.6000	0.60	9-6	1115	5.717	0.0015		
land, 2.5%; pasture, 17.8%;			9-6	1450	0.1200	0.70	9-6	2010	7.719	0.0015		
roads, 0.9%; commercial,			9-6	1810	0.0300	0.80	9-6	2400	8.366	0.0015		
0.4%; forest, 39.7%.												
			9-7	1820	1.2000	1.00	9-7	605	10.521	0.0016		
			9-7	539	0.0	1.00	9-7	1020	22.146	0.0016		
			9-7	605	0.2308	1.10	9-7	1435	35.625	0.0016		
			9-7	630	0.2400	1.20	9-7	1750	51.419	0.0017		
			9-7	645	1.2000	1.50	9-7	1925	68.564	0.0017		
			9-7	650	2.4001	1.70	9-7	2100	94.021	0.0018		
			9-7	655	1.1999	1.80	9-7	2245	129.125	0.0024		
			9-7	700	1.2001	1.90	9-7	2400	148.422	0.0026		
			9-7	715	0.4000	2.00	9-8	130	172.001	0.0028		
			9-7	1205	0.0207	2.10	9-8	250	187.277	0.0030		
			9-8	819	0.0	2.10	9-8	410	195.242	0.0037		
			9-8	1220	0.0249	2.20	9-8	505	203.433	0.0039		
			9-8	1620	0.0250	2.30	9-8	625	209.012	0.0050		
			9-8	1645	0.2400	2.40	9-8	715	217.575	0.0052		
			9-9	829	0.0	2.40	9-9	830	223.413	0.0059		
			9-9	1215	0.0265	2.50	9-9	945	235.398	0.0061		
			9-9	1600	0.0267	2.60	9-9	1105	244.660	0.0068		
			9-14	1155	0.0	2.60	9-14	1155	254.161	0.0071		
			9-14	1200	1.2001	2.70	9-14	1310	263.903	0.0079		
							9-14	1355	273.891	0.0081		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000012.

1976 SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED B							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 3 - 17, 1976 (CONTINUED)										
							9- 8	1455	280.687	0.0090
								1600	294.611	0.0093
								1715	305.353	0.0102
								1755	323.825	0.0105
								1850	331.419	0.0112
								1940	343.030	0.0115
								2040	350.913	0.0126
								2130	362.968	0.0129
								2230	371.156	0.0140
								2325	383.667	0.0144
							9- 9	2400	387.903	0.0152
								45	396.451	0.0156
								145	400.781	0.0180
								225	409.520	0.0184
								325	413.944	0.0209
								415	418.391	0.0238
								500	427.385	0.0243
								545	427.385	0.0281
								550	431.928	0.0285
								640	431.928	0.0329
								645	436.511	0.0333
								740	436.511	0.0381
								745	441.117	0.0385
								840	441.117	0.0434
								845	445.758	0.0438
								950	445.758	0.0496
								955	450.436	0.0501
								1115	450.436	0.0573
								1120	455.141	0.0577
								1250	455.141	0.0659
								1255	459.875	0.0664
								1440	459.875	0.0761
								1455	464.653	0.0765
								1825	464.653	0.0960
								1900	469.456	0.0965
							9-10	2400	469.456	0.1247
								145	469.456	0.1346
								220	464.653	0.1350
								520	464.653	0.1518
								600	459.875	0.1522
								825	459.875	0.1656
								830	455.141	0.1660
								1015	455.141	0.1756
								1020	450.436	0.1760
								1140	450.436	0.1833
								1220	445.758	0.1864
								1300	445.758	0.1891
								1320	441.117	0.1895
								1415	441.117	0.1944
								1430	436.511	0.1948
								1520	436.511	0.1992
								1555	431.928	0.2009
								1630	427.385	0.2013
								1720	427.385	0.2056
								1725	422.875	0.2060
								1825	422.875	0.2111
								1830	418.391	0.2115
								1925	418.391	0.2161
								1930	413.944	0.2166
								2015	413.944	0.2205
								2020	409.520	0.2207
								2105	409.520	0.2244
								2110	405.135	0.2248
								2200	405.135	0.2289
								2205	400.781	0.2293
								2255	400.781	0.2333
								2300	396.451	0.2337
								2350	396.451	0.2376
								2400	392.163	0.2380
							9-11	45	392.163	0.2416
								50	387.903	0.2419
								215	393.667	0.2450
								220	379.469	0.2454
								305	379.469	0.2488
								355	371.156	0.2492

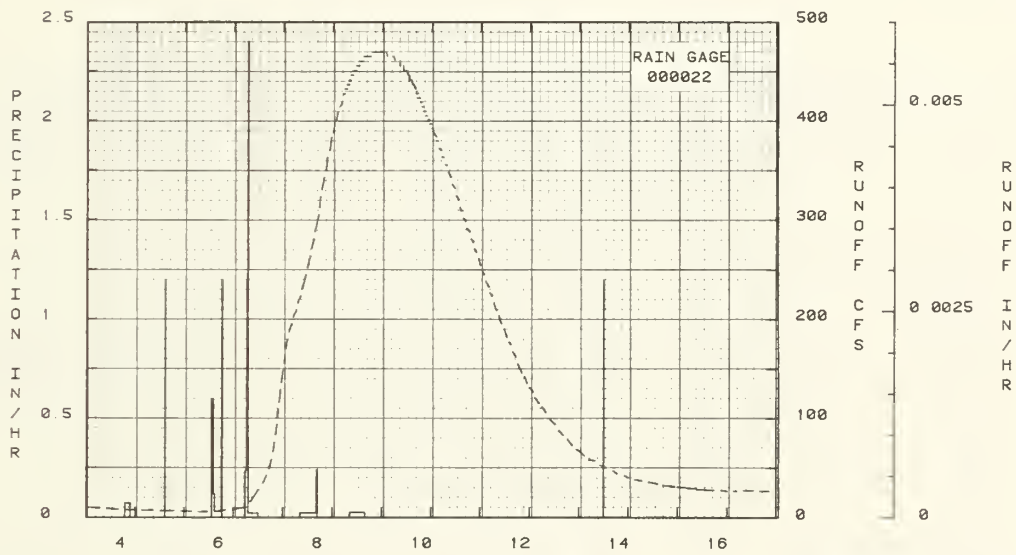
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000012.

1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED B							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 3 - 17, 1976 (CONTINUED)										
							9-11	440	371.156	0.2525
								525	362.968	0.2529
								610	362.968	0.2562
								650	354.904	0.2565
								735	354.904	0.2590
								825	346.956	0.2594
								935	343.030	0.2611
								1020	335.260	0.2618
								1120	331.419	0.2631
								1215	323.825	0.2637
								1320	320.075	0.2650
								1415	308.988	0.2653
								1515	308.988	0.2663
								1545	301.746	0.2666
								1645	298.162	0.2680
								1725	291.091	0.2683
								1835	287.592	0.2701
								1915	280.687	0.2703
								2020	277.271	0.2720
								2055	270.531	0.2723
								2200	267.201	0.2736
								2310	260.625	0.2749
								2400	254.161	0.2757
							9-12	50	247.799	0.2759
								155	244.660	0.2774
								230	238.458	0.2776
								400	232.361	0.2788
								435	226.368	0.2790
								540	223.413	0.2801
								645	214.697	0.2804
								745	209.012	0.2806
								905	203.433	0.2810
								1015	195.242	0.2812
								1145	189.910	0.2819
								1250	182.091	0.2821
								1410	176.998	0.2828
								1450	174.490	0.2841
								1545	167.102	0.2842
								1710	162.293	0.2852
								1840	152.952	0.2853
								2010	146.187	0.2855
								2140	141.792	0.2862
								2250	135.359	0.2863
								2400	131.183	0.2865
							9-13	135	127.092	0.2872
								235	121.116	0.2874
								415	115.330	0.2875
								605	111.575	0.2884
								800	106.098	0.2888
								950	99.079	0.2889
								1210	94.021	0.2894
								1405	87.547	0.2895
								1610	82.891	0.2896
								1825	78.403	0.2900
								2040	72.675	0.2901
								2245	68.564	0.2901
								2400	67.230	0.2903
							9-14	20	67.230	0.2906
								235	62.065	0.2907
								450	58.369	0.2907
								745	57.169	0.2915
								1020	52.538	0.2915
								1320	50.318	0.2920
								1630	47.108	0.2924
								1845	44.036	0.2924
								2230	42.064	0.2930
								2400	40.151	0.2930
							9-15	315	38.298	0.2931
								640	37.392	0.2937
								1025	35.625	0.2942
								1425	33.914	0.2948
								1710	32.258	0.2948
								2245	31.451	0.2959
								2400	30.656	0.2963
							9-16	520	29.876	0.2975

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000012.

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 3 - 17, 1976 (CONTINUED)										
							9-16	525	29.110	0.2975
								915	29.110	0.2989
								930	28.355	0.2989
								1345	28.355	0.3004
								1400	27.615	0.3004
								2120	27.615	0.3028
								2400	26.887	0.3037
							9-17	435	26.887	0.3051
								440	27.615	0.3052
								1235	27.615	0.3078
								1640	26.887	0.3079
								2400	26.887	0.3102

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000012.



EVENT OF SEPTEMBER 3 - 17, 1976  
TIFTON, GEORGIA LITTLE RIVER WATERSHED B



TIPTON, GEORGIA LITTLE RIVER WATERSHED N

LOCATION: Tift County, Georgia; approximately 4 miles northwest of Tifton on County Road S1179; Beard Creek, Little River Watershed, Withlacoochee River Sub-basin, Swannee River Basin. Lat. 31 deg. 31 min. 03 sec., long. 83 deg. 35 min. 10 sec.

AREA: 3872.00 acres 6.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED N	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 3.17	1.57	3.50	2.92	10.99	3.60	4.82	4.25	5.05	5.44	6.21	4.44	55.96	
	Q 1.338	1.034	0.823	0.370	4.333	0.561	0.837	0.155	0.914	0.760	1.835	3.032	15.992	
STA AV	P 4.36	4.70	5.30	4.98	4.94	5.21	5.46	5.38	2.92	2.74	2.27	3.92	52.19	
	Q 1.913	2.722	2.157	2.873	1.634	0.824	0.727	0.464	0.587	0.291	0.501	1.144	15.838	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
1976	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.						
	5-15 0.074	5-15 0.074	5-15 0.147	5-15 0.397	5-15 0.603	5-15 0.783	5-22 0.992	5-7 1.610						
MAXIMUMS FOR PERIOD OF RECORD														
	2-2 0.162	2-2 0.161	2-2 0.318	2-2 0.855	2-2 1.361	2-2 1.672	4-25 2.096	3-31 3.622						
	1973	1973	1973	1973	1973	1973	1973	1973						

NOTES: Watershed conditions: Residential, 1.7%; water, 2.1%; crops, 46.7%; wetland, 0.2%; pasture, 17.3%; roads, 0.9%; forest, 31.1%. For topographic and composition map showing location of rain gages, see pages 74.003-21 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pnh. 1446. Precipitation records began January 1968. Runoff records began November 1, 1970. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 9 recording gages. Runoff station averages include part-year records. Precipitation station averages are for record period beginning 1970. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED N	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.83	0.0	0.0	0.56	0.24	0.69	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.28	0.05	0.09	0.0	0.0	0.0	0.0		
3	0.23	0.0	0.0	0.0	0.0	0.01	0.17	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.22	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.02	0.21	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.28	0.0	0.0	0.50	0.0	1.68	0.16	0.0	0.76		
7	0.33	0.0	0.01	0.0	2.88	0.0	0.0	0.67	1.93	0.04	0.0	0.27		
8	0.69	0.0	0.0	0.0	0.48	0.0	0.0	0.12	0.36	1.79	0.0	0.0		
9	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.05	0.07	0.01	0.0	0.91		
10	0.0	0.0	0.02	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.32	0.0	0.0	0.04	0.01	0.0	0.0	0.0	0.0	0.0	0.54		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49		
13	0.03	0.0	0.49	0.0	0.25	0.0	0.0	0.20	0.0	0.0	0.0	0.01		
14	0.09	0.0	0.29	0.0	1.83	0.0	0.0	0.0	0.35	0.0	0.17	0.30		
15	0.0	0.0	0.40	0.03	0.76	0.0	0.0	0.0	0.0	0.0	0.04	0.04		
16	0.14	0.0	0.40	0.0	0.48	0.06	0.0	0.11	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.41	1.33	0.02	0.0	1.21	0.73	0.0		
18	0.0	0.23	0.0	0.0	0.0	0.03	0.07	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	0.04	0.20	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	1.59	0.27	0.31		
21	0.0	0.04	0.13	0.0	0.0	0.0	0.0	0.41	0.17	0.0	0.03	0.0		
22	0.0	0.45	0.04	0.0	1.44	0.02	0.37	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.06	0.0	1.67	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.05	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.13	0.49	0.0	0.0	0.0	0.0	0.53	0.0	0.97		
26	1.13	0.0	0.0	0.0	0.0	0.09	0.18	2.48	0.0	0.0	2.08	0.07		
27	0.53	0.0	0.38	0.0	0.0	0.51	0.0	0.03	0.05	0.0	1.68	0.0		
28	0.0	0.0	0.02	0.0	0.10	0.43	0.28	0.0	0.01	0.0	0.76	0.26		
29	0.0	0.0	0.03	0.35	0.0	0.84	0.01	0.0	0.0	0.0	0.25	0.0		
30	0.0	0.0	0.0	2.13	0.0	0.40	0.0	0.0	0.0	0.07	0.0	0.0		
31	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41		
TOTAL	3.17	1.57	3.50	2.92	10.99	3.60	4.82	4.25	5.05	5.44	6.21	4.44		
STA AV	4.33	4.70	5.30	4.98	4.94	5.21	5.46	5.38	2.92	2.74	2.27	3.92		

NOTES: Values are weighted using Reciprocal Distance Squared Method from 9 recording gages. STA AV values are based on 7 yr (1970-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED #												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	11.88	11.42	3.25	15.91	33.87	5.61	12.48	0.04	0.28	0.83	3.51	15.70
2	5.98	19.50	3.10	6.46	10.65	9.38	10.94	0.01	0.19	0.69	3.17	13.13
3	4.95	9.73	3.03E	3.72	4.51	9.53	5.08	0.0 T	0.10	0.54	2.99	11.97
4	6.44	7.52	3.03E	2.74	2.47	6.69	4.61	0.0	0.05	0.31E	2.82	10.97
5	4.98	6.91	2.86E	2.10	1.52	5.76	10.05	0.0	0.11	0.02E	2.66	10.26
6	3.95	6.58	2.86	2.25	1.01	4.60	24.54	0.0	3.83	0.0	2.54	12.68
7	4.04	6.30	2.90	3.50	46.46	3.39	12.93	0.0	60.19	0.0	2.53	33.87
8	18.47	5.54	2.63	2.70	50.26	2.66	6.35	0.10	25.35	0.34	2.42	21.74
9	11.75	5.28	3.19	1.93	24.36	2.17	3.89	0.44	12.69	15.38	2.39	13.75
10	6.48	4.97	3.06	1.49	11.50	1.77	2.58	0.80	7.85	7.20	2.39	12.85
11	5.62	5.14	2.53	1.23	7.75	1.46	1.78	0.44	4.44	3.42	2.48	18.39
12	5.36	4.80	2.27	1.04	6.26	1.24	1.23	0.20	2.76	2.07	2.55	20.60
13	5.45	4.53	4.99	0.91	4.75	1.01	0.79	0.10	2.05	1.53	2.63	28.93
14	5.49	4.39	6.92	0.80	7.00	0.76	0.45	0.05	2.78	1.21	2.76	18.20
15	5.27	4.31	7.70	0.69	127.49	0.69	0.23	0.01	4.40	1.01	3.48	20.25
16	4.66	4.17	14.31	0.60	26.17	0.87	0.11	0.0 T	3.38	0.88	3.67	16.72
17	5.66	4.02	10.24	0.47	29.67	1.57	2.24	0.0	2.59	5.58	6.02	13.20
18	4.96	4.07	5.33	0.34	12.98	2.35	22.17	0.0	2.02	8.81E	10.02	11.43
19	4.02	5.56	3.99	0.27	8.25	2.32	6.32	0.0	1.72	3.48E	6.31	10.62
20	3.77	4.59	3.43	0.19	6.24	2.74	2.71	0.0	1.47	10.25E	7.93	11.11
21	3.83	3.91	3.43	0.13	5.38	3.15	1.36	0.0	1.41	8.31E	8.18	14.09
22	3.77	6.19	3.81	0.09	15.69	1.98	0.72	0.0	1.26	6.40E	5.31	10.57
23	3.58	7.22	3.75	0.05	110.44	1.16	0.57	0.0	1.08	4.56	4.08	9.65
24	3.57	4.41	3.19	0.02	49.16	0.75	0.49	0.0	1.00	3.75	3.62	9.14
25	3.56	3.58	2.79	0.00	25.67	0.46	0.32	0.0	0.98	5.00	3.64	9.58
26	6.31	3.40	2.65	0.0 T	23.59	0.28	0.18	0.10	0.93	9.78	13.26	38.42
27	26.96	3.47	3.69	0.0	13.59	0.23	0.19	15.50	0.90	6.71	45.70	16.93
28	15.60	3.19	5.60	0.0	13.05	0.48	0.15	4.85	0.93	4.69	72.66	12.60
29	8.40	3.19	4.08	0.0	10.64	2.77	0.27	1.56	0.90	3.80	43.05	15.86
30	6.72	3.39	3.39	10.53	8.05	13.42	0.25	0.69	1.00	3.57	23.85	11.96
31	6.02	5.31	6.55		6.55		0.13	0.34		3.59		17.75
MEAN	7.023	5.803	4.317	2.005	22.738	3.041	4.391	0.814	4.954	3.990	9.953	15.912
INCHES	1.336	1.034	0.823	0.370	4.333	0.561	0.837	0.155	0.914	0.760	1.835	3.032
STA AV	1.913	2.722	2.157	2.873	1.634	0.824	0.727	0.464	0.587	0.291	0.501	1.144

NOTES: To convert runoff in CPS to IN/DAY, multiply by 0.00614712. STA AV values are based on 7 yr (1970-76) record period.

1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED #												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 12 - 20, 1976												
5-14	0.0	0.073	5-14	724	0.0	0.0	5-14	505	4.178	0.0		
				1540	0.0363	0.30		820	4.608	0.0014		
				1825	0.0364	0.40		1100	5.299	0.0015		
				1830	1.2000	0.50		1420	5.542	0.0042		
				1850	0.3000	0.60		1555	6.578	0.0043		
WATERSHED CONDITIONS:												
				1910	0.3000	0.70		1820	6.854	0.0052		
				2200	0.0353	0.80		1945	9.298	0.0054		
				2230	0.2000	0.90		2125	11.423	0.0057		
				2245	0.4000	1.00		2225	14.659	0.0060		
				2250	1.1999	1.10		2310	19.896	0.0064		
				2300	0.6000	1.20		2400	30.546	0.0070		
				2305	1.2001	1.30	5-15	45	52.628	0.0111		
				2315	0.5999	1.40		125	80.796	0.0159		
				2325	1.2000	1.60		210	109.093	0.0205		
				2335	0.6000	1.70		245	134.416	0.0233		
				2350	0.4000	1.80		250	141.863	0.0263		
				2400	0.4200	1.87		300	169.527	0.0329		
			5-15	5	0.3600	1.90		325	200.938	0.0527		
				20	1.2000	2.20		330	200.938	0.0570		
				30	0.6000	2.30		340	212.864	0.0658		
				55	0.2400	2.40		355	218.719	0.0705		
				115	0.3000	2.50		400	224.520	0.0752		
			5-16	1309	0.0	2.50		410	224.520	0.0848		
				1320	0.5454	2.60		415	230.256	0.0896		
				1330	0.6000	2.70		425	230.256	0.0995		
				1335	1.2001	2.80		440	241.585	0.1046		
				1545	0.0461	2.90		450	241.585	0.1149		
				1650	0.0923	3.00		505	252.739	0.1202		
								515	252.739	0.1310		
								530	263.732	0.1366		

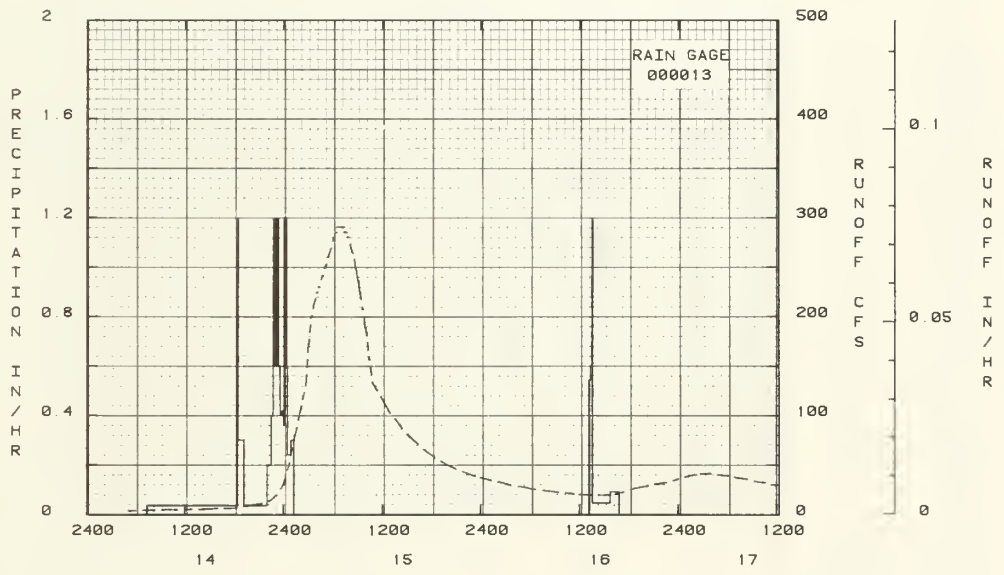
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00025613.

1976 SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER 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	Rate (cfs)	Acc. (inches)
EVENT OF MAY 12 - 20, 1976 (CONTINUED)										
							5-15	545	269.190	0.1423
								600	280.002	0.1482
								610	280.002	0.1602
								615	285.377	0.1662
								625	285.377	0.1784
								630	290.721	0.1845
								720	290.721	0.2466
								725	285.377	0.2527
								740	285.377	0.2710
								745	280.002	0.2770
								755	280.002	0.2890
								810	269.190	0.2948
								825	263.732	0.3004
								835	258.251	0.3059
								845	247.178	0.3167
								850	247.178	0.3220
								900	235.948	0.3323
								905	235.948	0.3374
								915	224.520	0.3472
								920	224.520	0.3520
								935	206.943	0.3658
								940	206.943	0.3702
								955	188.692	0.3829
								1000	188.692	0.3869
								1025	156.064	0.4053
								1030	156.064	0.4086
								1050	132.839	0.4210
								1125	125.126	0.4236
								1215	111.911	0.4334
								1300	102.225	0.4401
								1340	95.616	0.4422
								1425	86.795	0.4459
								1520	78.466	0.4476
								1625	70.623	0.4491
								1735	62.245	0.4505
								1825	57.319	0.4517
								1945	50.816	0.4528
								2100	45.603	0.4538
								2215	41.508	0.4546
								2320	38.393	0.4555
							5-16	2400	36.888	0.4563
								115	33.983	0.4570
								230	31.895	0.4590
								340	29.230	0.4597
								515	27.320	0.4620
								640	24.890	0.4625
								810	23.723	0.4651
								925	22.035	0.4655
								1115	20.950	0.4687
								1200	19.896	0.4691
								1330	19.381	0.4728
								1535	19.381	0.4799
								1725	23.153	0.4808
								1845	26.700	0.4814
								2020	29.230	0.4833
								2120	31.216	0.4839
								2235	32.582	0.4867
								2355	35.418	0.4882
								2400	36.149	0.4890
							5-17	110	38.393	0.4914
								205	40.716	0.4923
								245	41.508	0.4932
								400	41.508	0.5065
								455	39.933	0.5073
								600	39.158	0.5115
								705	36.888	0.5123
								825	35.418	0.5161
								925	33.278	0.5168
								1035	31.895	0.5189
								1140	29.884	0.5195
								1255	28.585	0.5225
								1345	26.700	0.5231
								1505	24.890	0.5237
								1630	23.153	0.5242
								1755	22.035	0.5265

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00025613.

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 12 - 20, 1976 (CONTINUED)										
							5-17	1905	20.419	0.5270
								2055	19.381	0.5299
								2140	18.375	0.5303
								2310	17.884	0.5337
								2400	16.924	0.5341
							5-18	200	16.456	0.5383
								310	15.542	0.5386
								525	15.097	0.5428
								700	14.228	0.5431
								945	13.806	0.5478
								1105	12.982	0.5481
								1335	12.581	0.5515
								1545	11.801	0.5539
								1710	11.051	0.5541
								2000	10.686	0.5580
								2155	9.978	0.5582
								2400	9.635	0.5590
							5-19	210	9.635	0.5644
								215	9.298	0.5646
								435	9.298	0.5702
								450	8.969	0.5703
								805	8.969	0.5778
								840	8.646	0.5780
								1120	8.646	0.5839
								1340	8.330	0.5884
								1515	7.720	0.5885
								1830	7.424	0.5919
								2040	6.854	0.5920
								2400	6.854	0.5979
							5-20	25	6.578	0.5980
								1230	6.578	0.6184
								1505	6.047	0.6185
								1930	5.791	0.6219
								1935	5.542	0.6221

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00025613.



EVENT OF MAY 12 - 20, 1976  
TIPTON, GEORGIA LITTLE RIVER WATERSHED N



TIPTON, GEORGIA LITTLE RIVER WATERSHED 0

LOCATION: Tift County, Georgia; approximately 2.5 miles northwest of Tifton on County Road S1179; Mill Creek, Little River Watershed, Withlacoochee River Sub-basin, Suwannee River Basin. Lat. 31 deg. 29 min. 36 sec., long. 83 deg. 34 min. 04 sec.

AREA: 3936.00 acres 6.15 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED 0																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1976	P	3.61	1.58	3.68	1.96	11.69	4.44	3.52	3.86	4.88	5.70	6.02	4.24	55.18																	
	Q	1.390	1.950	0.713	0.346	4.772	0.787	0.909	0.020	0.572	0.890	1.894	2.994	16.338																	
STA AV	P	3.79	4.25	5.19	4.05	4.85	4.26	5.61	5.71	2.82	2.29	2.43	4.20	49.44																	
	Q	1.843	2.789	2.697	2.584	1.439	0.547	0.618	1.078	0.554	0.282	0.351	0.934	15.720																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1976		5-15	0.079	5-15	0.079	5-15	0.155	5-15	0.418	5-15	0.672	5-23	0.901	5-22	1.190	5-22	1.979														
MAXIMUMS FOR PERIOD OF RECORD																															
		2-2	0.155	2-2	0.154	2-2	0.304	2-2	0.794	2-2	1.249	4-3	1.691	3-30	2.097	3-31	5.012														
		1973		1973		1973		1973		1973		1973		1973		1973															

NOTES: Watershed conditions: Residential, 1.6%; water, 2.9%; crops, 29.6%; pasture, 31.7%; roads, 1.3%; forest, 32.9%. For topographic and composition map showing location of rain gages, see pages 74.004-29 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began December 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 9 recording gages. Runoff station averages include part-year records. Precipitation STA AV values are for record period beginning 1968. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED 0													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.89	0.0	0.0	0.68	0.50	0.93	0.0	0.01	0.0	0.0	0.0															
2	0.0	0.01	0.0	0.0	0.0	0.27	0.01	0.05	0.0	0.0	0.0	0.0															
3	0.21	0.0	0.0	0.0	0.0	0.01	0.19	0.03	0.0	0.0	0.0	0.0															
4	0.0	0.0	0.0	0.0	0.01	0.05	0.14	0.0	0.25	0.0	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.05	0.03	0.0	0.0	0.0															
6	0.0	0.0	0.05	0.26	0.0	0.0	0.26	0.0	1.26	0.24	0.0	0.66															
7	0.45	0.0	0.01	0.0	2.14	0.0	0.0	0.56	2.23	0.02	0.0	0.26															
8	0.97	0.0	0.01	0.0	1.00	0.0	0.0	0.10	0.19	1.64	0.0	0.0															
9	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.02	0.01	0.02	0.0	0.01															
10	0.0	0.0	0.05	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0															
11	0.0	0.05	0.0	0.0	0.01	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.50														
12	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.54														
13	0.0	0.0	0.59	0.02	0.47	0.0	0.0	0.37	0.0	0.0	0.0	0.01															
14	0.08	0.0	0.28	0.0	1.72	0.0	0.0	0.04	0.49	0.01	0.20	0.31															
15	0.0	0.0	0.28	0.05	0.99	0.0	0.0	0.0	0.0	0.0	0.02	0.04															
16	0.14	0.0	0.46	0.0	0.61	0.10	0.0	0.19	0.0	0.0	0.0	0.0															
17	0.01	0.0	0.0	0.0	0.0	0.94	0.22	0.11	0.0	1.80	0.70	0.0															
18	0.0	0.30	0.0	0.0	0.0	0.01	0.07	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	0.22	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	1.33	0.30	0.21															
21	0.0	0.01	0.10	0.0	0.0	0.04	0.0	0.03	0.28	0.0	0.0	0.0															
22	0.0	0.32	0.01	0.0	1.41	0.13	0.45	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.0	0.06	0.0	1.78	0.0	0.07	0.02	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	0.0	0.0	0.0	0.03	0.72	0.01	0.0	0.0	0.0	0.62	0.0	0.99															
26	1.21	0.0	0.0	0.0	0.0	0.0	0.12	2.24	0.01	0.0	2.14	0.02															
27	0.53	0.0	0.36	0.0	0.0	0.33	0.01	0.0	0.10	0.0	1.33	0.0															
28	0.0	0.0	0.05	0.0	0.11	0.42	0.03	0.0	0.02	0.0	0.80	0.29															
29	0.0	0.0	0.0	0.35	0.0	0.90	0.08	0.0	0.0	0.0	0.31	0.0															
30	0.0	0.0	0.0	1.25	0.0	0.41	0.01	0.0	0.0	0.02	0.0	0.0															
31	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40															
TOTAL	3.61	1.58	3.68	1.96	11.69	4.44	3.52	3.86	4.88	5.70	6.02	4.24															
STA AV	3.79	4.25	5.19	4.05	4.85	4.26	5.61	5.71	2.82	2.29	2.43	4.20															

NOTES: Values are weighted using Reciprocal Distance Squared Method from 9 recording gages. STA AV values are based on 9 yr (1968-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED 0												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.65	14.69	2.52	24.10	12.50	7.90	23.93	0.0	0.0	0.24	3.20	14.99E
2	4.89	22.12	2.35	7.12	4.64	17.19	28.83	0.0	0.0	0.11	2.85	12.32E
3	4.12	10.34	2.23	4.00	2.11	10.33	8.14	0.0	0.0	0.07	2.47	11.47E
4	4.80	8.26	2.23	2.96	0.99	7.21	5.60	0.0	0.99	0.03E	2.35	10.39
5	3.57	6.71	2.33	2.63	0.80	6.00	15.58	0.0	1.61	0.00E	2.13	9.85
6	3.02	6.38	2.23	2.31	0.87	4.73	31.66	0.0	4.04	0.0	2.06	12.96
7	2.93	6.21	2.34	3.33	15.50	3.59	14.41	0.0	38.36	0.0	1.89	32.08
8	28.40	5.24	2.22	2.42	53.07	2.49	7.49	0.0	17.69	0.83	1.83	23.07
9	12.40	4.36	2.69	1.60	52.08	2.20	4.78	0.0	6.75	11.89	1.80	13.23
10	7.27	4.50	2.55	1.05	14.10	1.71	3.17	0.0	4.13	4.02	2.02	10.71
11	5.93	4.36	2.14	1.03	8.50	1.31	2.26	0.0	2.24	1.97	1.94	16.80
12	5.33	4.47	1.87	0.86	6.22	1.19	1.55	0.0	1.19	1.11	1.94	21.20
13	4.51	4.22	5.30	0.58	8.19	0.92	1.16	0.0	0.73	0.83	1.89	32.68
14	5.05	4.01	6.64	0.51	16.80	0.60	0.81	0.0	1.36	0.60	1.99	26.60E
15	4.65	3.84	8.23	0.42	144.57	0.37	0.40	0.0	2.99	0.46	3.13	24.45E
16	4.71	3.77	12.68	0.30	34.52	0.33	0.18	0.0	2.52	0.33	3.23	17.04E
17	5.95	3.36	9.68	0.19	34.45	2.45	0.07	0.0	1.68	15.60	6.46	13.22E
18	4.41	4.39	4.68	0.13	13.11	11.98	0.04	0.0	0.84	12.59	10.44	10.86
19	3.91	8.21	3.33	0.07	8.96	4.49	0.06	0.0	0.80	3.72	5.55	9.57
20	3.69	5.33	2.69	0.04	7.62	3.81	0.02	0.0	0.72	24.62	8.78	10.48
21	3.53	4.08	2.89	0.04	5.92	4.48	0.0	0.0	1.27	12.53	7.94	12.55
22	3.43	6.13	2.94	0.02	17.89	3.02	0.0	0.0	1.42	5.19	4.66	9.46
23	3.18	5.36	2.90	0.01	142.47	2.11	0.0	0.0	0.88	3.69	3.30	9.11
24	3.19	4.10	2.33	0.00	53.21	1.45	0.0	0.0	0.44	3.13	2.88	8.76
25	3.18	3.90	2.03	0.00	32.32	0.96	0.0	0.0	0.33	5.92	2.78	9.98
26	7.58	3.54	1.88	0.00	42.46	0.58	0.0	0.0	0.26	12.26	16.38	39.14
27	33.25	3.70	3.03	0.00	15.86	0.46	0.0	2.25	0.27	9.70	53.33	16.79
28	18.57	3.07	4.48	0.0	13.67	1.76	0.0	0.82	0.37	4.64	75.40	12.34
29	10.02	2.59	3.41	0.0	10.55	4.75	0.0	0.19	0.43	3.76	51.39	14.80
30	6.00		2.40	1.51	8.35	19.82	0.0	0.02	0.35	3.50	27.35E	10.71
31	6.14		8.44		6.85		0.0	0.0		3.69		17.63
MEAN	7.414	5.990	3.303	1.909	25.462	4.340	4.849	0.106	3.155	4.749	10.444	15.973
INCHES	1.390	1.150	0.713	0.346	4.772	0.787	0.909	0.020	0.572	0.890	1.694	2.994
STA AV	1.848	2.789	2.597	2.584	1.439	0.547	0.618	1.078	0.554	0.282	0.351	0.934

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.00604717. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED 0											
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 JANUARY 24 - 31, 1976											
RG 000008			RG 000006								
1-26	0.0		1-26	739	0.0	0.0	1-24	2400	3.194	0.0	
1-24		0.01 <sup>1</sup>		1040	0.0331	0.10	1-25	1230	3.194	0.0101	
				1340	0.0333	0.20		1955	3.194	0.0149	
				1345	3.6000	0.50		2020	3.021	0.0150	
				1400	0.4000	0.60		2400	3.021	0.0177	
WATERSHED CONDITIONS:				1420	0.3000	0.70	1-26	205	3.021	0.0179	
Residential, 1.6%; crops,				1455	0.1714	0.80		605	3.021	0.0206	
29.5%; pasture, 31.7%;				1610	0.0800	0.90		800	3.194	0.0209	
water, 2.9%; roads, 1.3%;				1840	0.0400	1.00		1025	3.194	0.0227	
forest, 32.9%.				2035	0.0522	1.10		1040	3.557	0.0227	
				2115	0.1500	1.20		1305	3.557	0.0249	
				2330	0.0444	1.30		1340	3.557	0.0250	
				2400	0.0200	1.31		1415	5.658	0.0253	
			1-27	450	0.0186	1.40		1515	7.150	0.0255	
				540	0.1200	1.50		1620	11.974	0.0257	
				625	0.1333	1.60		1715	14.470	0.0260	
				845	0.0429	1.70		1745	15.227	0.0263	
				1035	0.0545	1.80		1900	15.227	0.0311	
								2000	14.470	0.0314	
								2105	14.846	0.0330	
								2215	16.002	0.0340	
								2340	19.295	0.0344	
								2400	20.167	0.0348	
							1-27	35	21.966	0.0353	
								135	22.895	0.0372	
								225	24.323	0.0377	
								330	24.760	0.0414	
								435	25.648	0.0435	
								520	27.907	0.0441	
								605	29.289	0.0447	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000251965.

1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED 0							
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 JANUARY 24 - 31, 1976 (CONTINUED)										
							1-27	715	33.556	0.0454
								800	35.510	0.0469
								855	37.999	0.0477
								925	39.518	0.0485
								950	40.028	0.0494
								1115	40.028	0.0636
								1200	40.028	0.0653
								1255	40.028	0.0729
								1340	39.518	0.0779
								1420	38.503	0.0787
								1515	37.999	0.0819
								1600	36.997	0.0826
								1650	36.499	0.0865
								1725	35.510	0.0872
								1825	35.018	0.0909
								1910	34.042	0.0916
								2005	34.042	0.0995
								2010	33.556	0.1002
								2110	33.556	0.1086
								2115	33.074	0.1093
								2205	33.074	0.1163
								2210	32.593	0.1170
								2300	32.593	0.1238
								2305	32.114	0.1245
								2350	32.114	0.1306
								2400	31.638	0.1312
							1-28	50	30.692	0.1319
								200	29.754	0.1344
								255	28.826	0.1368
								340	27.451	0.1374
								435	26.545	0.1390
								540	24.760	0.1396
								630	23.366	0.1401
								720	21.966	0.1405
								810	20.609	0.1410
								915	19.295	0.1422
								1010	17.611	0.1426
								1115	16.797	0.1436
								1230	15.612	0.1446
								1335	14.470	0.1449
								1445	14.099	0.1461
								1550	13.372	0.1464
								1720	13.015	0.1480
								1815	12.663	0.1483
								1930	12.663	0.1523
								1935	12.316	0.1525
								2050	12.316	0.1564
								2055	11.974	0.1567
								2225	11.974	0.1612
								2230	11.636	0.1614
								2400	11.636	0.1658
							1-29	10	11.304	0.1661
								200	11.304	0.1713
								205	10.976	0.1715
								355	10.976	0.1766
								400	10.653	0.1768
								705	10.653	0.1851
								710	10.334	0.1853
								915	10.334	0.1907
								920	10.021	0.1909
								1240	10.021	0.1994
								1310	9.712	0.1996
								1510	9.712	0.2045
								1610	9.408	0.2047
								1955	9.408	0.2136
								2000	9.109	0.2137
								2400	9.109	0.2229
							1-30	50	8.815	0.2231
								410	8.815	0.2305
								415	8.525	0.2307
								700	8.525	0.2366
								705	8.240	0.2368
								935	8.240	0.2420
								940	7.961	0.2421
								1345	7.961	0.2503

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000251965.

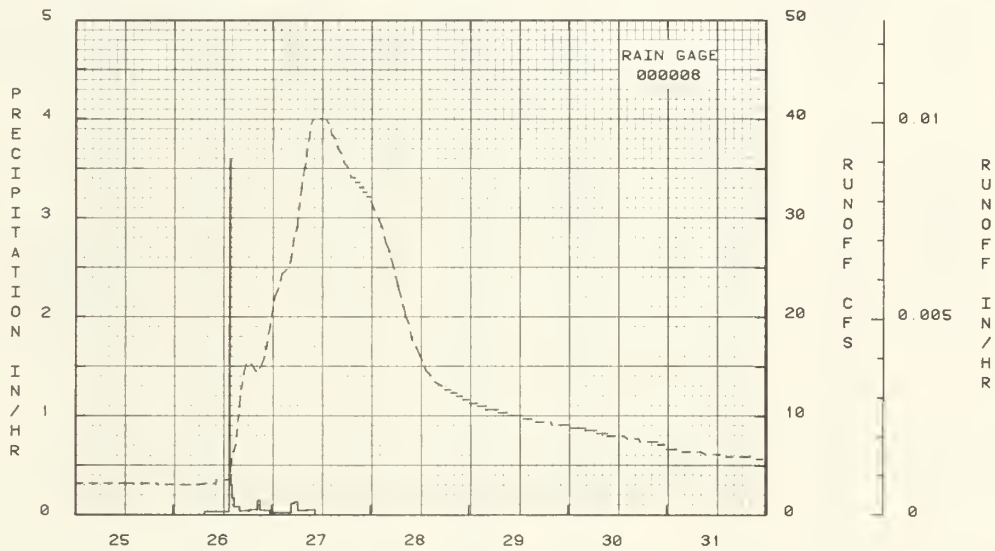
1976

SELECTED RUNOFF EVENT

TIPTON, GEORGIA LITTLE RIVER WATERSHED 0

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 JANUARY 24 - 31, 1976 (CONTINUED)										
							1-30	1430	7.685	0.2505
								1720	7.685	0.2560
								1740	7.415	0.2561
								2155	7.415	0.2641
								2200	7.150	0.2642
								2335	7.150	0.2671
								2400	6.633	0.2672
							1-31	230	6.633	0.2706
								350	6.382	0.2707
								805	6.382	0.2767
								930	6.136	0.2771
								1135	6.136	0.2796
								1300	6.136	0.2815
								1425	5.894	0.2816
								1600	5.894	0.2830
								1805	5.894	0.2858
								2015	5.894	0.2888
								2150	5.658	0.2896
								2320	5.658	0.2901
								2400	5.894	0.2904

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000251965.



EVENT OF JANUARY 24 - 31, 1976  
TIPTON, GEORGIA LITTLE RIVER WATERSHED 0



TIPTON, GEORGIA LITTLE RIVER WATERSHED F

LOCATION: Turner County, Georgia; approximately 7 miles south of Ashburn on County Road S1989; Little River, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 36 min. 17 sec., Long. 83 deg. 37 min. 53 sec.

AREA: 28378.00 acres 44.34 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED F															
		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
1976	P	4.25	2.39	4.12	2.95	8.78	2.54	5.48	6.50	4.06	4.68	5.98	4.30	55.73	1976	P	4.25	2.39	4.12	2.95	8.78	2.54	5.48	6.50	4.06	4.68	5.98	4.30	55.73
	Q	1.363	1.279	1.215	0.369	3.764	0.417	0.734	0.718	0.989	0.863	1.896	3.583	17.209		Q	1.363	1.279	1.215	0.369	3.764	0.417	0.734	0.718	0.989	0.863	1.896	3.583	17.209
STA AV	P	3.87	4.83	6.21	3.91	5.06	4.68	5.99	5.77	2.71	2.04	2.30	4.09	51.46	STA AV	P	3.87	4.83	6.21	3.91	5.06	4.68	5.99	5.77	2.71	2.04	2.30	4.09	51.46
	Q	1.491	2.620	2.721	2.550	1.409	0.875	0.785	1.113	0.525	0.176	0.278	0.923	15.465		Q	1.491	2.620	2.721	2.550	1.409	0.875	0.785	1.113	0.525	0.176	0.278	0.923	15.465

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

1976	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date						
1976	5-16	0.049	5-16	0.049	5-16	0.097	5-16	0.286	5-15	0.539	5-15	0.891	5-15	1.201	11-26	1.931
	4-15	0.007	4-15	0.067	4-15	0.135	4-15	0.400	4-15	0.773	4-15	1.352	4-14	1.972	4-10	3.530
	1975		1975		1975		1975		1975		1975		1975		1975	

MAXIMUMS FOR PERIOD OF RECORD

NOTES: Watershed conditions: Residential, 1.9%; forest, 43.7%; commercial, 1.1%; water, 1.8%; crops, 32.3%; wetland, 1.4%; pasture, 17.1%; roads, 0.8%. For topographic and composition map showing location of rain gages see pages 74.005-33 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Ennoff records began January 1, 1969. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 17 recording gages. Precipitation STA AV values are for record period beginning 1969. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)														TIPTON, GEORGIA LITTLE RIVER WATERSHED F													
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	0.61	0.0	0.0	0.32	0.01	0.50	0.0	0.01	0.0	0.0	0.0	0.0	1	0.0	0.61	0.0	0.0	0.32	0.01	0.50	0.0	0.01	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.16	0.02	0.51	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.16	0.02	0.51	0.0	0.0	0.0	0.0	
3	0.16	0.0	0.0	0.0	0.0	0.0	0.16	0.03	0.0	0.0	0.0	0.0	0.0	3	0.16	0.0	0.0	0.0	0.0	0.0	0.16	0.03	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.13	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.13	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.79	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.79	0.0	0.0	
6	0.0	0.0	0.29	0.15	0.0	0.0	1.33	0.0	1.06	0.26	0.0	0.69		6	0.0	0.0	0.29	0.15	0.0	0.0	0.0	1.33	0.0	1.06	0.26	0.69	
7	0.62	0.0	0.0	0.01	0.89	0.0	0.01	0.44	1.17	0.0	0.0	0.42		7	0.62	0.0	0.0	0.01	0.89	0.0	0.01	0.44	1.17	0.0	0.0	0.42	
8	0.45	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.20	1.67	0.0	0.0		8	0.45	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.20	1.67	0.0	0.0	
9	0.01	0.0	0.19	0.0	0.0	0.0	0.0	1.08	0.01	0.01	0.0	0.0		9	0.01	0.0	0.19	0.0	0.0	0.0	0.0	0.0	1.08	0.01	0.01	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0		10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
11	0.06	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.52		11	0.06	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.52	
12	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.33		12	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.0	0.33	
13	0.0	0.0	0.47	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.04		13	0.0	0.0	0.47	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
14	0.14	0.0	0.85	0.02	2.38	0.0	0.0	0.0	0.16	0.0	0.20	0.21		14	0.14	0.0	0.85	0.02	2.38	0.0	0.0	0.0	0.16	0.0	0.20	0.21	
15	0.0	0.0	0.44	0.0	1.60	0.0	0.0	0.0	0.02	0.0	0.07	0.08		15	0.0	0.0	0.44	0.0	1.60	0.0	0.0	0.0	0.0	0.02	0.0	0.08	
16	0.18	0.0	0.35	0.0	0.40	0.0	0.0	0.31	0.0	0.0	0.0	0.0		16	0.18	0.0	0.35	0.0	0.40	0.0	0.0	0.0	0.31	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.02	0.23	1.32	0.09	0.0	0.59	0.61	0.0		17	0.0	0.0	0.0	0.0	0.02	0.23	1.32	0.09	0.0	0.59	0.61	0.0	
18	0.0	0.32	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0		18	0.0	0.32	0.0	0.0	0.02	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.13	0.10	0.0		19	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.13	0.10	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	1.61	0.27	0.33		20	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	1.61	0.27	0.33	
21	0.0	0.10	0.20	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.01	0.0		21	0.0	0.10	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.01	0.0
22	0.0	1.06	3.11	0.0	1.61	0.0	0.02	0.0	0.0	0.0	0.0	0.0		22	0.0	1.06	3.11	0.0	1.61	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
23	0.01	0.01	0.0	1.00	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0		23	0.01	0.01	0.0	1.00	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0		24	0.0	0.0	0.0	0.0	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.33	0.02	0.0	0.0	0.0	0.07	0.32	0.0	1.01		25	0.0	0.0	0.0	0.33	0.02	0.0	0.0	0.0	0.0	0.07	0.32	1.01	
26	1.71	0.0	0.0	0.0	0.0	0.10	1.70	3.58	0.07	0.0	2.25	0.01		26	1.71	0.0	0.0	0.0	0.0	0.10	1.70	3.58	0.07	0.0	0.0	2.25	0.01
27	0.69	0.0	0.47	0.0	0.05	0.41	0.01	0.03	0.11	0.0	1.48	0.0		27	0.69	0.0	0.47	0.0	0.05	0.41	0.01	0.03	0.11	0.0	0.0	1.48	0.0
28	0.0	0.0	0.03	0.0	0.10	0.51	0.0	0.0	0.07	0.0	0.67	0.28		28	0.0	0.0	0.03	0.0	0.10	0.51	0.0	0.0	0.07	0.0	0.0	0.67	0.28
29	0.0	0.0	0.0	0.31	0.0	0.14	0.07	0.0	0.11	0.0	0.12	0.0		29	0.0	0.0	0.0	0.31	0.0	0.14	0.07	0.0	0.11	0.0	0.0	0.12	0.0
30	0.0	0.0	0.0	2.06	0.0	0.32	0.07	0.0	0.0	0.09	0.0	0.0		30	0.0	0.0	0.0	2.06	0.0	0.32	0.07	0.0	0.0	0.0	0.0	0.09	0.0
31	0.02		0.67		0.0		0.0		0.0		0.38			31	0.02		0.67		0.0		0.0		0.0		0.38		
TOTAL		4.25	2.09	4.12	2.95	8.78	2.54	5.48	6.50	4.06	4.68	5.98	4.30	TOTAL		4.25	2.09	4.12	2.95	8.78	2.54	5.48	6.50	4.06	4.68	5.98	4.30
STA AV		3.87	4.83	6.21	3.91	5.06	4.68	5.99	5.77	2.71	2.04	2.30	4.09	STA AV		3.87	4.83	6.21	3.91	5.06	4.68	5.99	5.77	2.71	2.04	2.30	4.09

NOTES: Values are weighted using Reciprocal Distance Squared Method from 17 recording gages. STA AV values are based on 8 yr (1969-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED P												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	51.82	71.93	27.36	92.01	115.77	46.05	24.26	3.26	7.19	5.08	24.97	225.98
2	42.17	94.21	23.30	66.58	101.86	42.34	38.09	2.74	5.95	3.67	19.74	152.08
3	33.44	102.65	21.66	54.63	74.73	46.47	37.49	1.81	4.50	2.14	17.00	123.15
4	25.34	82.99	21.21	29.70	27.02	78.60	27.01	3.35	2.95	1.30	14.54	109.08
5	21.56	65.11	20.65	20.32	12.84	45.31	27.32	3.47	3.33	0.83	12.83	99.61
6	16.60	55.33	21.68	17.37	8.83	32.39	66.55	2.65	59.36	0.60	10.83	95.56
7	17.50	51.34	22.09	21.86	17.50	22.96	96.25	1.14	204.05	0.83	10.58	159.69
8	59.89	46.14	30.55	22.12	69.87	15.99	94.26	0.67	273.10	3.35	10.64	231.37
9	86.82	41.98	34.73	16.37	55.43	11.64	43.46	2.14	221.99	100.88	8.91	185.64
10	81.99	40.14	35.29	12.11	35.08	8.12	17.85	44.35	126.54	103.26	8.00	132.84
11	60.47	38.52	26.72	12.16	23.12	5.69	13.37	73.91	57.51	40.60	8.21	125.51
12	41.40	37.26	21.02	8.39	20.99	4.35	8.30	12.60	25.79	17.51	8.53	159.16
13	34.95	35.30	30.66	7.06	27.74	3.34	4.50	6.13	19.56	10.96	8.84	193.86
14	35.70	31.35	48.67	8.36	21.72	1.90	2.46	3.28	17.58	8.48	8.76	179.86
15	38.46	29.39	70.62	9.90	373.58	1.10	1.30	1.90	24.24	6.75	11.71	166.63
16	34.02	28.09	133.57	7.69	993.41	0.74	0.65	1.12	23.65	4.81	17.70	153.51
17	32.44	27.55	146.25	4.93	291.15	0.58	0.33	0.74	18.23	8.72	23.66	134.66
18	30.32	26.38	110.21	4.50	237.39	0.55	11.44	0.43	14.03	20.15	44.93	109.38
19	26.37	40.57	69.34	3.66	132.31	2.25	62.38	0.24	10.53	17.65	48.79	91.04
20	22.91	47.02	43.97	2.52	79.19	7.04	16.24	0.20	9.91	75.94	44.59	87.90
21	21.60	34.18	38.79	1.72	58.26	11.10	7.71	0.11	6.27	150.82	45.04	101.17
22	20.66	56.41	44.79	1.23	72.59	16.92	4.51	0.05	5.45	115.15	37.47	107.60
23	16.90	127.91	50.22	1.14	296.25	9.05	3.10	0.04	5.44	67.35	25.14	90.75
24	17.77	111.90	47.65	1.05	499.32	3.79	1.78	0.23	3.75	38.80	18.61	77.74
25	18.76	58.63	43.48	0.80	261.73	1.67	0.73	0.34	2.75	31.00	15.71	73.06
26	28.31	39.49	32.53	0.49	155.61	1.88	24.10	4.96	2.63	41.54	34.54	163.32
27	130.13	42.32	34.32	0.26	106.54	2.81	134.59	357.08	3.62	42.16	245.57	219.56
28	272.91	32.38	55.86	0.19	93.38	3.81	79.43	229.63	4.97	34.48	516.21	158.04
29	178.00	27.83	58.49	0.15	86.34	28.50	15.16	64.26	4.49	26.31	564.39	127.66
30	116.33		44.98	10.21	80.10	39.69	6.17	21.88	5.31	22.78	374.00	114.66
31	78.98		29.36		59.07		4.19	10.85		24.57		118.74
MEAN	53.18	52.59	46.74	14.65	144.76	16.56	28.22	27.60	39.30	33.18	75.36	137.82
INCHES	1.383	1.279	1.215	0.369	3.764	0.417	0.734	0.718	0.989	0.863	1.696	3.583
STA AV	1.491	2.620	2.721	2.550	1.409	0.875	0.785	1.113	0.525	0.176	0.276	0.923

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.000838736. STA AV values are based on 8 yr (1969-76) record period.

1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED P											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 25 - DECEMBER 9, 1976											
RG 000027			RG 000027								
11-26	0.0		11-26	1104	0.0	0.0	11-25	2400	14.861	0.0	
11-25		0.013		1150	0.1304	0.10	11-26	1240	14.861	0.0009	
				1235	0.1333	0.20		1555	22.221	0.0009	
				1310	0.1714	0.30		1910	54.379	0.0011	
				1320	0.6000	0.40		2115	88.513	0.0013	
WATERSHED CONDITIONS:											
Residential, 1.8%; forest, 43.7%; commercial, 1.1%;											
water, 1.8%; crops, 32.3%;											
wetland, 1.4%; pasture, 17.1%; roads, 0.8%.											
				1330	0.5999	0.50		2400	137.585	0.0017	
				1345	0.6000	0.70	11-27	215	162.887	0.0022	
				1420	0.1714	0.80		355	171.921	0.0042	
				1510	0.1200	0.90		505	165.084	0.0047	
				1525	0.4000	1.00		650	169.408	0.0114	
				1545	0.3000	1.10		655	193.706	0.0119	
				1605	0.3000	1.20		825	193.706	0.0221	
				1615	0.5995	1.30		930	202.228	0.0226	
				1630	0.4000	1.40		1125	210.666	0.0263	
				1635	1.1999	1.50		1325	239.703	0.0270	
				1655	0.3000	1.60		1500	264.194	0.0278	
				1735	0.1500	1.70		1705	300.594	0.0286	
				1810	0.1714	1.80		1835	324.791	0.0296	
				1825	0.4000	1.90		2025	340.927	0.0336	
				1850	0.2400	2.00		2200	365.167	0.0346	
				2130	0.0375	2.10		2400	389.542	0.0369	
			11-27	355	0.0	2.10	11-28	130	405.851	0.0381	
				1000	0.0166	2.20		320	422.220	0.0418	
				1600	0.0167	2.30		445	438.663	0.0430	
				1705	0.0923	2.40		630	446.912	0.0534	
				1900	0.0522	2.50		735	455.179	0.0546	
				1945	0.1333	2.60		925	463.465	0.0629	
				2010	0.2400	2.70		1100	484.281	0.0643	
				2050	0.1500	2.80		1300	509.437	0.0672	
				2120	0.2000	2.90		1410	534.800	0.0688	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000834973.

1976 SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED F							
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			25 - DECEMBER			9, 1976 (CONTINUED)				
			11-27	2145	0.2400	3.00	11-28	1610	573.242	0.0704
				2205	0.3000	3.10		1730	594.814	0.0722
				2230	0.2400	3.20		1915	612.186	0.0739
				2345	0.0600	3.30		1950	629.656	0.0758
				2400	0.0400	3.31		2125	638.429	0.0869
			11-28	315	0.0277	3.40		2230	647.229	0.0888
				1844	0.0	3.40		2400	651.641	0.10J2
				1855	0.5454	3.50	11-29	415	651.641	0.1970
				1905	0.6000	3.60		550	647.229	0.2234
				1920	0.8000	3.60		725	638.429	0.2345
			11-29	1925	1.2001	3.90		855	620.907	0.2363
				249	0.0	3.90		1040	612.186	0.2470
				430	0.0594	4.00		1140	559.147	0.2488
				610	0.0600	4.10		1340	566.167	0.2573
								1510	564.656	0.2590
								1655	543.301	0.2606
								1835	522.094	0.2621
								2020	501.031	0.2636
								2210	464.281	0.2692
								2400	463.469	0.2706
							11-30	120	451.042	0.2719
								305	442.783	0.2796
								450	426.323	0.2809
								655	414.026	0.2869
								910	401.768	0.2881
								1010	389.542	0.2926
								1205	373.292	0.2970
								1315	361.137	0.2980
								1455	353.049	0.3042
								1600	340.927	0.3052
								1740	332.856	0.3110
								1945	320.759	0.3120
								2025	308.662	0.3129
								2210	300.594	0.3190
								2400	288.488	0.3297
							12- 1	140	280.404	0.3264
								300	268.251	0.3272
								505	260.127	0.3332
								649	247.697	0.3340
								815	239.703	0.3347
								945	235.592	0.3395
								1135	227.337	0.3441
								1310	219.032	0.3492
								1420	210.666	0.3496
								1610	205.456	0.3552
								1715	197.975	0.3558
								1920	193.706	0.3626
								2030	185.084	0.3631
								2250	180.729	0.3705
								2400	171.921	0.3710
							12- 2	350	167.366	0.3783
								630	160.675	0.3788
								955	156.310	0.3847
								1310	149.902	0.3882
								1605	143.661	0.3886
								2005	139.592	0.3955
								2400	133.625	0.3998
							12- 3	205	125.738	0.4002
								515	127.820	0.4069
								715	124.040	0.4071
								935	122.176	0.4076
								1315	122.176	0.4233
								1445	120.330	0.4236
								1505	120.330	0.4435
								1510	118.502	0.4443
								2255	118.502	0.4598
								2400	116.691	0.4639
							12- 4	405	114.857	0.4739
								630	111.362	0.4743
								1115	109.620	0.4823
								1435	106.186	0.4832
								1820	106.186	0.4956
								1825	104.497	0.4959
								2210	104.497	0.5096
								2400	102.824	0.5150

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0035349473.

1976

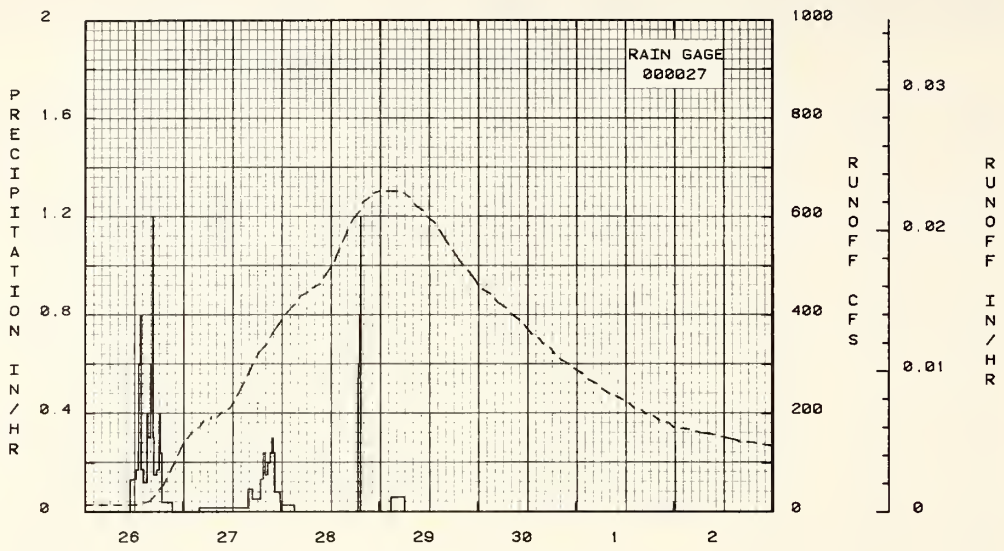
SELECTED RUNOFF EVENT

TIPTON, GEORGIA WETLE RIVER WATERSHED 9

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 FUTURE DEL 25 - DECEMBER 9, 1976 (CONTINUED)										
							12- 5	720	101.167	0.5155
								735	121.167	0.5321
								710	59.527	0.5323
								1050	97.904	0.5326
								1610	97.904	0.5483
								1700	96.298	0.5486
								2105	96.298	0.5628
								2400	94.700	0.5712
			12- 6					255	93.134	0.5714
								710	93.134	0.5852
								755	91.578	0.5855
								1225	91.578	0.5999
								1320	90.937	0.6002
								1710	90.037	0.6123
								1955	102.824	0.6126
								2400	116.691	0.6139
			12- 7					225	133.625	0.6182
								415	135.592	0.6147
								725	142.661	0.6181
								925	149.902	0.6185
								1225	152.019	0.6256
								1530	162.887	0.6270
								1740	171.921	0.6300
								1850	185.084	0.6305
								2035	193.706	0.6345
								2120	202.228	0.6350
								2250	206.456	0.6395
								2400	214.857	0.6417
			12- 8					210	223.191	0.6465
								315	231.471	0.6476
								545	235.592	0.6586
								605	239.703	0.6593
								1250	239.703	0.7158
								1330	235.592	0.7165
								1505	235.592	0.7295
								1545	231.471	0.7302
								1800	231.471	0.7484
								1805	227.337	0.7491
								2020	227.337	0.7670
								2035	223.191	0.7676
								2210	223.191	0.7800
								2215	215.032	0.7806
								2400	213.032	0.7940
			12- 9					25	214.857	0.7947
								205	214.857	0.8072
								210	210.666	0.8078
								355	210.666	0.8207
								400	206.456	0.8213
								525	206.456	0.8315
								705	202.228	0.8405
								835	193.706	0.8415
								1000	193.706	0.8499
								1120	185.084	0.8505
								1355	180.729	0.8579
								1505	171.921	0.8584
								1850	167.366	0.8652
								2115	160.675	0.8657
								2400	156.310	0.8698

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000349473.





EVENT OF NOVEMBER 25 - DECEMBER 9, 1976  
TIPTON, GEORGIA LITTLE RIVER WATERSHED F

TIFTON, GEORGIA LITTLE RIVER WATERSHED I

LOCATION: Turner County, Georgia; approximately 3 miles west of Ashburn on State Highway 112; Little River, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 40 min. 28 sec., long. 83 deg. 41 min. 26 sec.

AREA: 12333.00 acres 19.27 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TIFTON, GEORGIA LITTLE RIVER WATERSHED I	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1976	P 4.62	1.99	4.40	2.80	10.03	3.05	4.69	6.13	4.19	4.59	6.48	4.42	57.39	
	Q 1.543	1.402	1.581	0.406	4.976	0.654	0.772	0.616	1.091	0.727	2.688	3.700	20.156	
STA AV	P 3.83	4.59	6.00	3.51	5.06	4.45	6.14	5.68	2.29	1.76	2.53	4.29	50.13	
	Q 1.538	2.666	3.035	2.400	1.545	0.928	0.771	1.310	0.481	0.132	0.345	0.877	16.028	

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	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1976	5-15 0.087	5-15 0.086	5-15 0.171	5-15 0.496	5-15 0.911	5-15 1.456	5-15 1.889	5-15 2.325					

MAXIMUMS FOR PERIOD OF RECORD													
Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge	Date	Maximum Discharge
4-15 1975	0.088	4-15 1975	0.087	4-15 1975	0.174	4-14 1975	0.514	4-14 1975	0.971	4-14 1975	1.604	4-14 1975	2.131
												5-28 1970	4.143

NOTES: Watershed conditions: Residential, 0.1%; water, 1.0%; crops, 27.1%; wetland, 0.3%; pasture, 16%; roads, 0.9%; forest, 54.6%. For topographic and composition map showing location of rain gages see pages 74.006-30 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began January 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 11 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976	DAILY PRECIPITATION (inches)											TIFTON, GEORGIA LITTLE RIVER WATERSHED I	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.50	0.0	0.0	0.25	0.01	0.46	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.22	0.02	0.79	0.0	0.0	0.0	0.0	
3	0.22	0.0	0.0	0.0	0.0	0.03	0.04	0.01	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.14	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.99	0.0	0.0	0.0	
6	0.0	0.0	0.44	0.16	0.0	0.0	1.08	0.0	1.12	0.34	0.0	0.57	
7	0.97	0.0	0.0	0.0	0.79	0.0	0.01	0.73	1.39	0.0	0.0	0.46	
8	0.38	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	1.27	0.0	0.0	
9	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.84	0.01	0.01	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.01	0.0	0.01	
11	0.05	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.52	
12	0.01	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.37	
13	0.01	0.0	0.36	0.08	0.06	0.0	0.0	0.0	0.0	0.01	0.0	0.06	
14	0.14	0.0	1.07	0.01	2.73	0.0	0.0	0.0	0.12	0.0	0.21	0.21	
15	0.0	0.0	0.52	0.0	2.31	0.0	0.0	0.0	0.01	0.0	0.08	0.10	
16	0.19	0.0	0.37	0.0	0.67	0.0	0.0	0.34	0.0	0.0	0.01	0.0	
17	0.0	0.0	0.0	0.0	0.05	0.35	1.36	0.11	0.0	0.67	0.61	0.0	
18	0.0	0.31	0.0	0.0	0.03	0.01	0.08	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.01	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.14	0.09	0.0	
20	0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.0	0.0	1.70	0.25	0.33	
21	0.0	0.12	0.26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.01	0.0	
22	0.0	0.94	0.13	0.0	1.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.11	0.01	0.0	0.86	0.0	0.0	0.34	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.05	0.07	0.0	0.01	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.01	0.02	0.34	0.0	1.05	
26	1.78	0.0	0.0	0.0	0.0	0.10	1.03	2.90	0.02	0.0	2.31	0.0	
27	0.83	0.0	0.46	0.0	0.11	0.66	0.02	0.05	0.15	0.0	1.59	0.0	
28	0.0	0.0	0.02	0.0	0.10	0.29	0.0	0.0	0.02	0.0	1.22	0.29	
29	0.0	0.0	0.0	0.22	0.0	0.18	0.11	0.0	0.09	0.0	0.10	0.0	
30	0.0	0.0	0.0	1.90	0.0	0.49	0.15	0.0	0.0	0.10	0.0	0.0	
31	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	
TOTAL	4.62	1.99	4.40	2.80	10.03	3.05	4.69	6.13	4.19	4.59	6.48	4.42	
STA AV	3.83	4.59	6.00	3.51	5.06	4.45	6.14	5.68	2.29	1.76	2.53	4.29	

NOTES: Values are weighted using Reciprocal Distance Squared Method from 11 recording gages. STA AV values are based on 9 yr (1968-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED I												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	21.38	36.27	12.21	36.84	48.50	24.23	22.97	2.22	3.03	1.76	9.27	74.52
2	20.61	53.56	11.22	38.20	49.82	25.60	36.27	1.11	2.11	0.96	7.70	59.30
3	12.21	44.69	10.75	17.98	17.65	30.53	27.97	2.06	1.41	0.51	6.86	52.08
4	11.04	33.45	10.63	12.70	7.62	24.64	9.88	2.98	1.05	0.20	6.23	47.92
5	10.31	27.93	13.69	10.58	4.54	20.55	9.23	2.70	18.45	0.06	5.33	44.04
6	9.50	25.02	10.30	9.96	3.07	16.80	35.29	1.03	45.34	0.04	6.97	47.33
7	8.52	24.31	17.80	13.39	12.09	12.25	57.91	0.74	131.15	0.25	5.63	102.80
8	33.55	22.98	21.03E	11.15	24.69	9.17	31.69	5.50	141.68	5.20	4.51	106.55
9	49.68	21.48	20.79E	8.29	19.19	6.90	14.20	21.60	69.94	35.12	4.03	69.14
10	31.82	21.90	27.14E	11.03	12.14	5.15	12.70	41.23	30.53	18.69	3.96	50.95
11	18.91	20.96	17.00E	6.10	10.03	4.05	7.64	8.32	17.91	8.71	4.02	59.28
12	17.04	19.51	12.93	4.89	12.09	3.05	4.26	5.35	11.97	5.02	4.58	87.47
13	16.13	17.80	16.15E	4.30	8.68	1.93	2.38	2.47	9.24	3.35	4.33	84.46
14	19.39	15.33	23.46E	8.08	10.30	1.09	1.14	1.33	11.26	2.39	4.85	78.06
15	18.51	15.05	66.26E	6.02	698.84E	0.49	0.32	0.82	13.76	1.96	7.76	69.93
16	15.08	14.36	86.55E	4.09	270.40	0.20	0.04	0.43	11.27	1.40	9.13	69.19
17	15.97	14.45E	64.89E	2.56	211.80	0.10	9.20	1.34	9.15	4.04	13.49	54.57
18	15.87	15.37	41.36E	1.50	86.88	5.96	43.41	1.23	6.58	8.65	24.09	45.07
19	13.30	26.02	30.21E	0.84	50.13	7.15	13.85	0.44	4.86	6.42	19.97	40.85
20	11.80	19.30	27.66E	0.38	36.76	10.92	7.81	0.08	3.86	50.14	19.30	42.62
21	11.30	13.71	29.78E	0.13	29.96	21.23	4.87	0.00	3.22	62.19	19.02	54.98
22	10.57	45.55	33.33E	0.02	66.34	11.76	3.68	0.0	3.07	36.36	13.80	46.09
23	9.80	57.19	31.76E	0.0 T	334.64	4.81	0.57	0.0	2.22	21.93	9.96	39.02
24	10.52	29.47	31.71E	0.0	205.46	2.41	0.75	0.0	1.60	12.25	8.23	35.47
25	9.70	19.21	18.95	0.0	86.98	3.60	2.41	0.0	1.35	11.12	7.41	36.84
26	18.93	26.37	17.07	0.0	53.92	1.43	8.41	35.15	1.25	17.72	28.48	110.97
27	110.42	16.02	20.81	0.0	44.32	2.90	17.85	127.34	1.30	16.13	208.58	90.56
28	111.04	14.11	34.68	0.0	48.44	23.67	6.30	31.22	1.98	11.71	404.95	55.62
29	64.40	14.44	27.86	0.0	50.50	38.22	2.10	13.25	2.13	9.41	356.81	54.64
30	39.84		19.45	1.43	35.17	17.93	1.65	5.84	2.58	11.52	163.49	51.43
31	30.27		17.82		27.72		3.41	3.63		11.73		55.76
MEAN	25.785	25.052	26.425	7.015	83.175	11.290	12.908	10.303	18.840	12.159	46.421	61.849
INCBS	1.543	1.402	1.581	0.406	4.976	0.654	0.772	0.616	1.091	0.727	2.688	3.700
STA AV	1.538	2.666	3.035	2.400	1.545	0.928	0.771	1.310	0.481	0.132	0.345	0.877

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.001926. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED I												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 13 - 21, 1976												
RG 000031			RG 000031									
5-14	0.0		5-14	1409	0.0	0.0	5-13	2400	7.048	0.0		
5-13		0.017		1555	0.0566	0.10	5-14	1010	7.349	0.0044		
				1925	0.0571	0.30		1920	7.658	0.0057		
				1930	1.2000	0.40		2205	18.686	0.0058		
				1935	2.4000	0.60		2335	47.684	0.0072		
WATERSHED CONDITIONS:												
Residential, 0.1%; water, 1.0%; crops, 27.1%; wetland, 0.3%; pasture, 16%; roads, 0.9%; forest, 54.6%.												
				2030	0.1091	0.70		2400	59.379	0.0076		
				2120	0.1200	0.80	5-15	55	87.032	0.0082		
				2145	0.2400	0.90		100	94.941	0.0088		
				2155	0.6000	1.00		225	151.316	0.0162		
				2200	2.4000	1.20		250	171.069	0.0173		
				2205	2.4000	1.40		315	222.808	0.0188		
				2210	1.2000	1.50		355	330.683	0.0209		
				2220	0.6000	1.60		425	388.187	0.0235		
				2235	0.4000	1.70		445	422.777	0.0290		
				2245	0.6000	1.80		615	555.990	0.0639		
				2255	1.2000	2.00		630	582.143	0.0716		
				2305	0.6000	2.10		715	678.000	0.0761		
				2320	0.4000	2.20		800	781.731	0.0813		
				2330	0.6000	2.30		840	843.428	0.0869		
				2340	0.6000	2.40		905	885.292	0.1045		
				2350	0.6000	2.50		950	936.310	0.1107		
				2400	0.3000	2.55		1030	979.454	0.1172		
			5-15	10	0.3000	2.60		1100	1010.001	0.1240		
				15	1.2000	2.70		1135	1036.405	0.1309		
				100	0.1333	2.80		1150	1054.114	0.1379		
				255	0.0522	2.90		1215	1058.561	0.1450		
				305	0.6000	3.00		1235	1071.924	0.1522		
				310	2.4000	3.20		1300	1076.384	0.1594		
				320	1.2000	3.40		1345	1058.561	0.1665		
				325	1.2000	3.50		1405	1054.114	0.1736		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0008025.

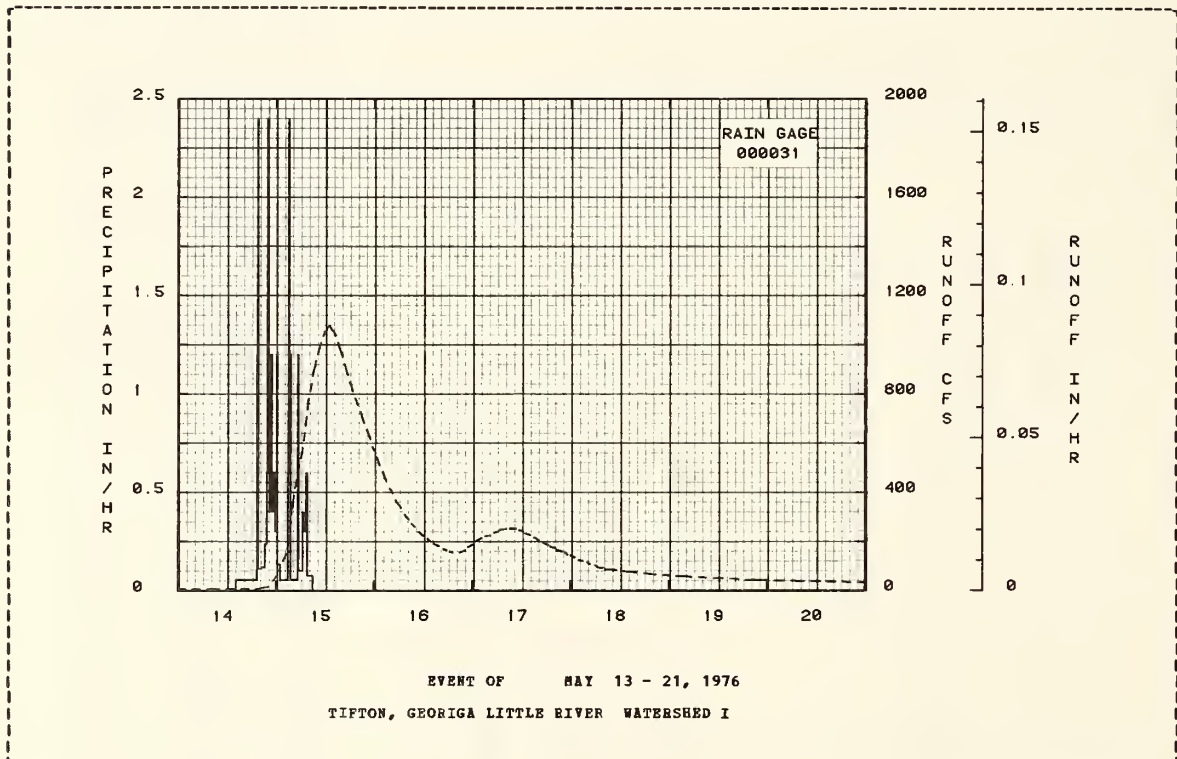
1976 SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED I							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 13 - 21, 1976 (CONTINUED)										
5-15			330		1.2000	3.60	5-15	1435	1036.405	0.1805
			520		0.0545	3.70		1520	996.877	0.2075
			530		1.2000	3.90		1615	949.194	0.2659
			530		0.1000	4.00		1650	914.952	0.2721
			645		0.4000	4.10		1735	876.870	0.2898
			725		0.3000	4.30		1815	839.270	0.2955
			735		0.6000	4.40		2000	753.406	0.4075
			855		0.0750	4.50		2045	721.386	0.4124
								2130	681.909	0.4216
								2220	643.050	0.4346
								2300	612.397	0.4429
								2355	570.897	0.4663
								2400	570.897	0.4701
							5-16	45	537.500	0.4737
								120	508.231	0.4772
								210	479.356	0.4804
								300	443.812	0.5113
								355	412.340	0.5197
								430	395.059	0.5224
								530	360.934	0.5322
								635	334.024	0.5345
								745	300.845	0.5385
								830	287.707	0.5405
								905	271.370	0.5423
								955	258.362	0.5440
								1050	238.941	0.5456
								1155	222.808	0.5471
								1305	209.918	0.5485
								1340	200.244	0.5499
								1435	190.554	0.5512
								1545	180.834	0.5536
								1650	167.798	0.5547
								1745	164.523	0.5603
								1825	157.941	0.5613
								1910	154.637	0.5624
								2050	154.637	0.5831
								2200	164.523	0.5864
								2255	177.582	0.5876
							5-17	2400	187.314	0.5901
								100	203.468	0.5914
								205	213.140	0.5929
								305	222.808	0.5944
								425	226.036	0.6080
								515	235.714	0.6096
								620	242.176	0.6128
								650	248.641	0.6145
								815	251.882	0.6263
								905	251.882	0.6280
								1035	251.882	0.6499
								1120	245.407	0.6516
								1215	242.176	0.6565
								1300	232.483	0.6580
								1400	226.036	0.6626
								1505	216.366	0.6669
								1610	203.468	0.6683
								1725	193.785	0.6722
								1835	184.076	0.6759
								1905	177.582	0.6771
								2015	171.069	0.6817
								2045	164.523	0.6828
								2155	157.941	0.6870
								2250	151.316	0.6911
								2320	144.641	0.6921
								2400	141.275	0.6939
							5-18	105	134.497	0.6976
								200	124.152	0.6984
								300	120.645	0.7024
								405	113.537	0.7055
								450	106.259	0.7062
								600	102.543	0.7103
								645	94.941	0.7110
								715	91.026	0.7116
								755	91.026	0.7165
								830	85.858	0.7170
								1110	82.399	0.7198

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00008025.



1976 SELECTED RUNOFF EVNT			TIFTON, GEORIGIA LITTLE RIVER WATERSHED I							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Bate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 13 - 21, 1976 (CONTINUED)										
							5-18	1350	76.806	0.7203
								1605	72.484	0.7208
								1855	68.301	0.7236
								2050	64.251	0.7240
								2350	61.302	0.7277
								2400	60.337	0.7281
							5-19	320	57.489	0.7316
								530	54.716	0.7319
								910	52.908	0.7369
								1125	50.259	0.7372
								1510	47.684	0.7404
								1705	45.183	0.7407
								2025	43.556	0.7448
								2400	41.177	0.7462
							5-20	415	40.400	0.7551
								715	38.871	0.7554
								1110	38.118	0.7603
								1455	35.187	0.7605
								1840	33.072	0.7607
								2400	31.702	0.7648
							5-21	205	31.029	0.7650

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008025.



TIPTON, GEORGIA LITTLE RIVER WATERSHED J

LOCATION: Turner County, Georgia; approximately 3 miles west of Ashburn on State Highway 32; Little River, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 41 min. 32 sec., long. 83 deg. 42 min. 09 sec.

AREA: 5466.00 acres 8.54 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED J																
		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
1976	P	4.84	1.84	4.69	2.83	10.10	3.72	3.59	5.41	4.37	4.69	6.72	4.38	57.18	P	4.84	1.84	4.69	2.83	10.10	3.72	3.59	5.41	4.37	4.69	6.72	4.38	57.18	
	Q	1.566	1.201	1.382	0.304	5.180	0.768	0.568	0.188	0.887	0.527	2.514	3.980	19.027	Q	1.566	1.201	1.382	0.304	5.180	0.768	0.568	0.188	0.887	0.527	2.514	3.980	19.027	
STA AV	P	3.94	4.62	6.10	3.50	5.12	4.48	5.91	5.29	2.26	1.77	2.60	4.32	49.92	P	3.94	4.62	6.10	3.50	5.12	4.48	5.91	5.29	2.26	1.77	2.60	4.32	49.92	
	Q	1.465	2.726	3.122	2.372	1.582	0.938	0.651	1.021	0.319	0.083	0.301	0.817	15.397	Q	1.465	2.726	3.122	2.372	1.582	0.938	0.651	1.021	0.319	0.083	0.301	0.817	15.397	

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

1976	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days		
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
5-15	0.087	5-15	0.087	5-15	0.173	5-15	0.500	5-15	0.930	5-15	1.484	5-15	1.989	5-15	3.002				
MAXIMUMS FOR PERIOD OF RECORD																			
3-3	0.114	3-3	0.113	3-3	0.223	3-3	0.589	4-14	1.038	3-30	1.719	5-28	2.388	5-28	4.838				
1971		1971		1971		1971		1975		1970		1970		1970					

NOTES: Watershed conditions: Residential, 0.3%; water, 0.3%; crops, 26.3%; wetland, 0.1%; pasture, 15.5%; roads, 0.9%; forest, 56.1%. For topographic and composition map showing location of rain gages see pages 74.007-31 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began January 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 15 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED J												
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	0.57	0.0	0.0	0.23	0.02	0.45	0.0	0.0	0.0	0.0	0.0	1	0.0	0.57	0.0	0.0	0.23	0.02	0.45	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.95	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.95	0.0	0.0	0.0	
3	0.24	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.01	0.0	0.0	0.0	3	0.24	0.0	0.0	0.0	0.0	0.04	0.05	0.01	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.88	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.88	0.0	0.0	
6	0.0	0.0	0.48	0.11	0.0	0.0	0.0	0.96	0.01	1.35	0.37	0.0	6	0.0	0.0	0.48	0.11	0.0	0.0	0.0	0.96	0.01	1.35	0.37	
7	1.09	0.0	0.0	0.0	0.81	0.0	0.02	0.86	1.46	0.0	0.0	0.0	7	1.09	0.0	0.0	0.0	0.81	0.0	0.02	0.86	1.46	0.0	0.0	
8	0.33	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.23	0.0	0.0	8	0.33	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.23	0.0	0.0
9	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.33	0.01	0.01	0.0	0.0	9	0.0	0.0	0.19	0.0	0.0	0.0	0.33	0.01	0.01	0.0	0.0	
10	0.0	0.01	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.09	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	0.09	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	
12	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	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.01	0.0	0.34	0.09	0.10	0.0	0.0	0.0	0.0	0.01	0.0	0.0	13	0.01	0.0	0.34	0.09	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.15	0.0	1.14	0.02	2.75	0.0	0.0	0.0	0.10	0.0	0.23	0.0	14	0.15	0.0	1.14	0.02	2.75	0.0	0.0	0.10	0.0	0.23	0.0	
15	0.0	0.0	0.56	0.0	2.31	0.0	0.0	0.0	0.01	0.0	0.05	0.11	15	0.0	0.0	0.56	0.0	2.31	0.0	0.0	0.01	0.0	0.05	0.11	
16	0.19	0.0	0.42	0.0	0.74	0.0	0.0	0.31	0.0	0.0	0.01	0.0	16	0.19	0.0	0.42	0.0	0.74	0.0	0.0	0.31	0.0	0.0	0.0	
17	0.0	0.0	0.01	0.0	0.08	0.53	0.87	0.13	0.0	0.73	0.61	0.0	17	0.0	0.0	0.01	0.0	0.08	0.53	0.87	0.13	0.0	0.73	0.61	
18	0.0	0.30	0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.01	0.0	18	0.0	0.30	0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	
19	0.0	0.01	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.12	0.08	0.0	19	0.0	0.01	0.0	0.0	0.0	0.57	0.0	0.0	0.12	0.08	0.0	
20	0.0	0.0	0.0	0.0	0.02	0.21	0.0	0.0	0.0	1.76	0.26	0.32	20	0.0	0.0	0.0	0.0	0.02	0.21	0.0	0.0	0.0	1.76	0.26	0.32
21	0.0	0.14	0.28	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.01	0.0	21	0.0	0.14	0.28	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	
22	0.0	0.80	0.14	0.0	1.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.80	0.14	0.0	1.77	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.01	0.02	0.0	0.81	0.0	0.0	0.34	0.0	0.0	0.0	0.0	23	0.0	0.01	0.02	0.0	0.81	0.0	0.0	0.34	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.02	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.02	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.01	0.0	0.36	0.0	1.04	25	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.01	0.0	0.36	1.04	
26	1.81	0.0	0.0	0.0	0.0	0.16	0.65	2.40	0.01	0.0	2.33	0.0	26	1.81	0.0	0.0	0.0	0.0	0.16	0.65	2.40	0.01	0.0	2.33	
27	0.91	0.0	0.45	0.0	0.18	0.91	0.01	0.04	0.16	0.0	1.62	0.0	27	0.91	0.0	0.45	0.0	0.18	0.91	0.01	0.04	0.16	0.0	1.62	
28	0.01	0.0	0.03	0.0	0.10	0.24	0.0	0.0	0.03	0.0	1.42	0.30	28	0.01	0.0	0.03	0.0	0.10	0.24	0.0	0.0	0.03	0.0	1.42	
29	0.01	0.0	0.0	0.21	0.0	0.25	0.13	0.0	0.07	0.0	0.09	0.0	29	0.01	0.0	0.0	0.21	0.0	0.25	0.13	0.0	0.07	0.0	0.09	
30	0.0	0.0	1.92	0.0	0.46	0.18	0.0	0.0	0.0	0.10	0.0	0.0	30	0.0	0.0	1.92	0.0	0.46	0.18	0.0	0.0	0.0	0.10	0.0	
31	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	31	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	
TOTAL	4.84	1.84	4.69	2.83	10.10	3.72	3.59	5.41	4.37	4.69	6.72	4.38	TOTAL	4.84	1.84	4.69	2.83	10.10	3.72	3.59	5.41	4.37	4.69	6.72	4.38
STA AV	3.94	4.62	6.10	3.50	5.12	4.48	5.91	5.29	2.26	1.77	2.60	4.32	STA AV	3.94	4.62	6.10	3.50	5.12	4.48	5.91	5.29	2.26	1.77	2.60	4.32

NOTES: Values are weighted using Reciprocal Distance Squared Method from 15 recording gages. STA AV values are based on 9 yr (1968-76) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIFTON, GEORGIA LITTLE RIVER WATERSHED J												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	9.44	16.05	3.57	18.23	28.77	9.10	14.96	0.0	0.04	0.18	2.46	35.93
2	6.94	25.75	3.30	12.01	23.41	11.30	20.48	0.00	0.01	0.06	1.96	28.14
3	3.85	18.65	3.08	5.48	4.49	13.33	6.87	0.01	0.00	0.02	1.70	24.63
4	4.18	12.52	3.08	3.92	1.69	9.11	3.41	1.53	0.0 T	0.00	1.48	22.04
5	3.65	10.74	3.00	3.10	0.86	7.30	3.03	0.53	5.24	0.0	1.21	20.32
6	2.76	10.03	2.81	3.05	0.51	5.47	13.23	0.08	6.45	0.01	1.02	22.05
7	2.76	9.77	6.45	4.69	1.19	3.61	32.41	0.29	54.63	0.01E	0.97	49.78
8	18.50	8.70	8.77	3.54	9.00	2.54	12.18	3.07	76.54	0.51E	0.89	53.29
9	25.40	7.89	6.18	2.40	6.83	1.81	5.26	6.17	23.38	7.16E	0.81	32.19
10	10.38	7.19	5.55	1.77	3.44	1.29	2.81	3.38	9.77	5.72E	0.81	22.08
11	6.88	6.71	3.72	1.42	2.16	0.98	1.75	0.58	5.18	1.82E	0.83	27.95
12	6.66	6.62	3.01	1.18	2.53	0.70	1.09	0.20	3.10	0.83E	0.90	40.46
13	6.48	6.18	5.11	1.22	1.51	0.39	0.63	0.10	2.34	0.47E	0.92	45.57
14	6.50	5.63	11.02	2.85	2.57	0.17	0.30	0.03	2.98	0.30	0.99	41.24
15	6.66	5.42	33.42	1.67	322.80E	0.06	0.10	0.01	3.62	0.16	2.13	35.79
16	5.41	5.19	41.75	1.05	128.05	0.02	0.01	0.00	2.63	0.09	2.74	32.40
17	5.84	4.97	31.28	0.63	110.71	0.01	1.44	0.02	1.99	0.62	4.15	24.16
18	5.45	5.86	15.52	0.37	40.83	3.45	5.97	0.01	1.36	2.70	9.26	19.72
19	4.23	10.04	9.89	0.20	22.35	2.48	2.38	0.0	0.93	1.46	7.13	17.72
20	3.90	7.14	8.80	0.08	15.33	11.56	1.21	0.0	0.63	18.37	6.25	19.15
21	3.80	4.73	9.15	0.02	12.06	12.41	0.41	0.0	0.47	37.23	6.69	25.06
22	3.57	22.49	13.99	0.00	34.05	3.77	0.11	0.0	0.49	10.87	4.16	19.52
23	3.30	23.73	12.43	0.0	160.52	1.40	0.01	0.0	0.30	4.21	2.70	16.11
24	3.10	9.53	8.89	0.0	93.11	0.64	0.0	0.0	0.19	2.94	2.11	14.99
25	3.08	6.09	5.99	0.0	42.33	0.27	0.0	0.0	0.14	3.02	1.86	15.45
26	10.73	5.20	6.48	0.0	23.08	0.11	0.10	6.12	0.11	6.11	14.99	56.73
27	69.48	4.82	8.89	0.0	19.10	3.90	0.27	13.14	0.13	5.37	89.88	44.65
28	62.41	4.32	16.56	0.0	27.37	36.58	0.05	6.36	0.28	3.28	171.19	23.78
29	25.87	3.63	10.90	0.0	24.14	21.18	0.01	1.16	0.31	2.48	165.79	26.24
30	15.49		6.85	1.05	14.13	10.76	0.00	0.37	0.35	2.27	69.32	22.58
31	13.05		6.90		10.89		0.00	0.11		2.77		25.26
MEAN	11.604	9.509	10.235	2.331	38.377	5.882	4.209	1.395	6.787	3.906	19.242	29.191
INCHES	1.566	1.201	1.382	0.304	5.180	0.768	0.568	0.188	0.887	0.527	2.514	3.940
STA AV	1.465	2.726	3.122	2.372	1.582	0.938	0.651	1.021	0.319	0.083	0.301	0.817

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.00435449. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIFTON, GEORGIA LITTLE RIVER WATERSHED J											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Painfall	Funoff	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 13 - 20, 1976											
5-14	RG 000038		5-14	1309	0.0	0.0	5-13	2400	1.179	0.0	
5-13	0.10	0.007		1615	0.0323	0.10	5-14	1825	1.079	0.0031	
				1920	0.0324	0.20		2155	4.392	0.0031	
				1930	1.2000	0.40		2400	29.677	0.0036	
				1935	3.6000	0.70	5-15	35	40.313	0.0042	
WATERSHED CONDITIONS:											
Residential, 0.3%; water, 0.8%; crops, 26.3%; wet-land, 0.1%; pasture, 15.5%; roads, 0.9%; forest, 56.1%.											
				1940	1.2001	0.80		125	65.595	0.0051	
				1945	1.1999	0.90		225	108.090	0.0098	
				1955	0.6000	1.00		305	127.980	0.0154	
				2050	0.1091	1.10		340	170.067	0.0179	
				2130	0.1500	1.20		415	180.060	0.0206	
				2150	0.3000	1.30		450	197.682	0.0265	
				2155	1.1999	1.40		530	238.778	0.0336	
				2205	0.6000	1.50		555	275.797	0.0377	
				2210	1.1999	1.60		620	308.374	0.0423	
				2215	2.4001	1.80		705	355.904	0.0581	
				2220	1.1999	1.90		750	393.353	0.0640	
				2235	0.4000	2.00		830	413.914	0.0887	
				2245	1.2000	2.20		855	434.742	0.0952	
				2255	0.6000	2.30		940	464.981	0.1161	
				2310	0.4000	2.40		1020	480.303	0.1233	
				2320	0.6000	2.50		1115	480.303	0.2032	
				2335	0.4000	2.60		1210	468.033	0.2103	
				2345	0.6000	2.70		1310	452.819	0.2171	
				2400	0.4000	2.80		1355	440.749	0.2238	
			5-15	10	0.5999	2.90		1450	428.761	0.2303	
				15	1.2001	3.00		1545	413.914	0.2366	
				110	0.1091	3.10		1625	405.063	0.2427	
				250	0.1200	3.30		1630	413.914	0.2489	
				255	2.4000	3.50		1655	396.271	0.2549	
				300	1.1999	3.60		1755	381.729	0.2607	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00018143.

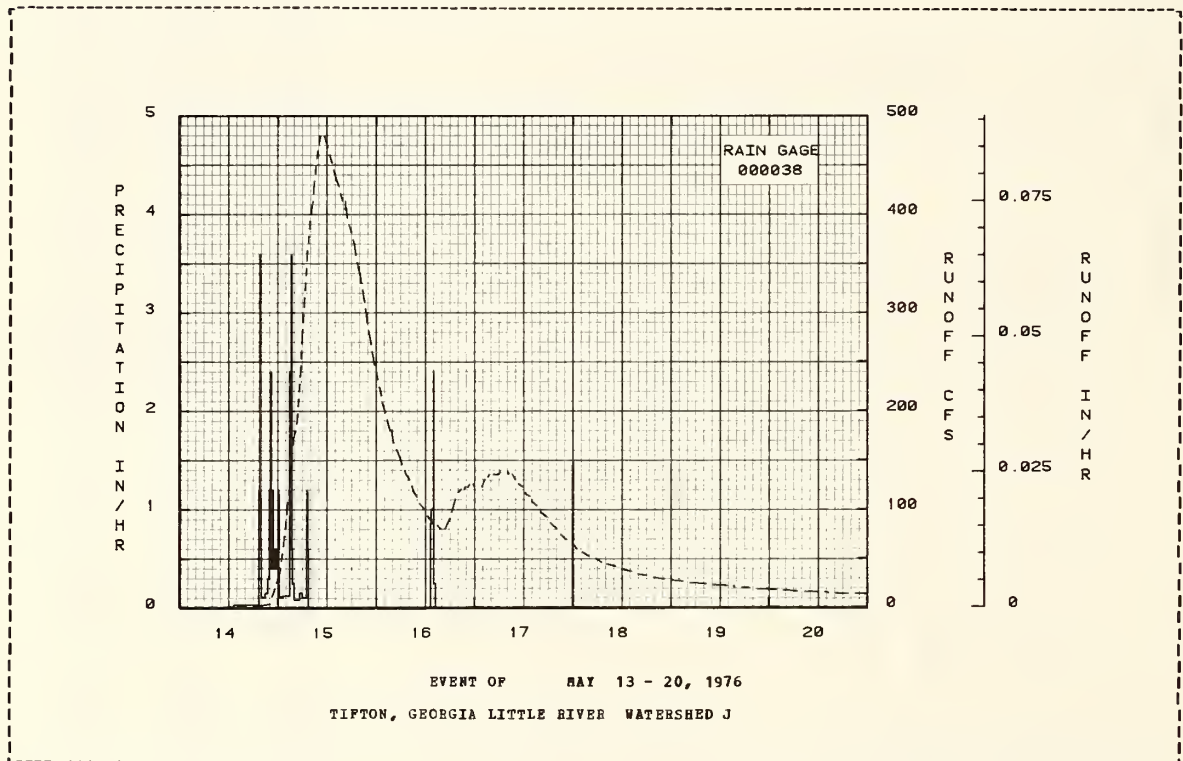
1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED J							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 13 - 20, 1976 (CONTINUED)										
			5-15	305	1.2001	3.70	5-15	1835	370.195	0.2663
				315	1.2000	3.90		1900	358.751	0.2772
				320	3.6000	4.20		1945	344.573	0.2824
				330	0.6000	4.30		2020	330.539	0.2874
				355	0.2400	4.40		2105	311.125	0.2921
				515	0.0750	4.50		2150	289.273	0.3054
				555	0.1500	4.60		2240	267.777	0.3178
				655	0.1000	4.70		2335	246.623	0.3253
				705	0.6000	4.80		2400	238.778	0.3289
				715	1.2000	5.00	5-16	50	223.225	0.3323
				725	0.5999	5.10		140	205.296	0.3386
			5-16	1318	0.0	5.10		240	190.106	0.3415
				1325	0.8572	5.20		320	180.060	0.3442
				1355	1.0000	5.70		345	180.060	0.3469
				1400	2.4000	5.90		415	167.579	0.3521
				1425	0.2400	6.00		520	157.644	0.3544
			5-18	1	0.0	6.00		620	145.276	0.3567
				5	1.4999	6.10		715	135.394	0.3587
								805	130.451	0.3646
								905	118.070	0.3664
								955	113.091	0.3716
								1035	105.581	0.3732
								1145	99.638	0.3777
								1255	90.236	0.3791
								1350	84.889	0.3804
								1455	83.152	0.3854
								1540	79.755	0.3866
								1645	79.755	0.4023
								1755	50.236	0.4037
								1915	110.591	0.4053
								2005	118.070	0.4071
								2040	120.551	0.4089
								2135	120.551	0.4290
								2140	123.029	0.4308
								2225	123.029	0.4475
								2245	125.507	0.4494
								2345	125.507	0.4722
								2400	123.029	0.4755
							5-17	145	123.029	0.5150
								230	130.451	0.5169
								320	132.925	0.5250
								335	135.394	0.5270
								435	135.394	0.5516
								530	135.394	0.5597
								545	135.394	0.5618
								620	137.862	0.5639
								805	137.862	0.6076
								820	135.394	0.6097
								910	135.394	0.6261
								955	130.451	0.6281
								1045	125.507	0.6300
								1135	123.029	0.6374
								1230	115.581	0.6392
								1330	113.091	0.6460
								1400	108.090	0.6477
								1515	103.571	0.6540
								1625	95.802	0.6554
								1735	92.066	0.6610
								1840	84.889	0.6623
								2005	79.755	0.6659
								2115	73.235	0.6670
								2225	68.585	0.6681
								2400	64.134	0.6720
							5-18	100	59.880	0.6729
								230	55.817	0.6737
								355	51.940	0.6745
								540	49.457	0.6783
								700	45.883	0.6790
								825	43.597	0.6796
								1030	41.390	0.6840
								1205	38.218	0.6846
								1420	36.196	0.6895
								1610	33.297	0.6900
								1805	32.365	0.6954
								2010	29.677	0.6959

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00018143.



1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED J							
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 13 - 20, 1976 (CONTINUED)										
							5-18	2225	28.815	0.7011
								2400	27.140	0.7019
							5-19	255	26.328	0.7099
								500	24.752	0.7103
								835	23.988	0.7168
								1040	22.507	0.7171
								1345	21.790	0.7231
								1525	21.790	0.7234
								1535	20.401	0.7240
								1915	19.730	0.7303
								2135	18.431	0.7306
								2340	19.072	0.7309
								2400	17.803	0.7317
							5-20	435	17.189	0.7392
								700	16.004	0.7395
								1200	15.433	0.7462
								1425	15.433	0.7465
								1430	14.331	0.7467
								1730	13.800	0.7469
								2210	13.800	0.7586
								2400	13.283	0.7626

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00018143.



TIPTON, GEORGIA LITTLE RIVER WATERSHED K

LOCATION: Turner County, Georgia; approximately 2 miles west of Ashburn on State Highway 32; Newell Branch, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 41 min. 46 sec., Long. 83 deg. 41 min. 52 sec.

AREA: 4115.00 acres 6.43 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED K	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1976	P	4.60	1.93	4.56	2.77	10.21	2.66	4.80	6.48	4.02	4.51	6.60	4.43	57.57
	Q	1.505	1.366	1.572	0.448	4.590	0.463	0.777	0.620	0.913	0.720	2.084	3.818	18.876
STA AV	P	3.84	4.60	6.06	3.47	5.00	4.54	6.05	6.11	2.18	1.73	2.53	4.30	50.42
	Q	1.459	2.566	2.946	2.301	1.410	0.896	0.774	1.462	0.433	0.129	0.280	0.851	15.528

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1976	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	6 Days						
	5-15	0.087	5-15	0.086	5-15	0.171	5-15	0.474	5-15	0.830	5-15	1.254	5-14	1.636	5-15	2.551

MAXIMUMS FOR PERIOD OF RECORD																
	4-14	0.094	4-14	0.093	4-14	0.186	4-14	0.534	4-14	0.944	4-14	1.454	4-14	1.909	4-10	3.539
	1975		1975		1975		1975		1975		1975		1975		1975	

NOTES: Watershed conditions: Water, 1.0%; crops, 29.8%; wetland, 0.1%; pasture, 12.6%; roads, 0.7%; forest, 55.8%. For topographic and composition map showing location of rain gages see pages 74.008-30 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1968. Runoff records began January 1, 1968. Monthly precipitation values are weighted using the Reciprocal Distance Squared Method from 12 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976	DAILY PRECIPITATION (inches)												TIPTON, GEORGIA LITTLE RIVER WATERSHED K	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.59	0.0	0.0	0.24	0.01	0.50	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.22	0.02	0.00	0.0	0.0	0.0	0.0	0.0	
3	0.24	0.0	0.0	0.0	0.0	0.01	0.03	0.01	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.11	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.81	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.53	0.20	0.0	0.0	1.06	0.0	0.96	0.34	0.0	0.0	0.69	
7	0.57	0.0	0.0	0.0	0.71	0.0	0.01	0.61	1.53	0.0	0.0	0.0	0.45	
8	0.41	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.02	1.22	0.0	0.0	0.0	
9	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.01	0.02	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	0.02	0.0	0.0	0.0	
11	0.03	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	
12	0.02	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	
13	0.0	0.0	0.32	0.03	0.02	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.05	
14	0.11	0.0	1.10	0.0	2.76	0.0	0.0	0.0	0.15	0.0	0.21	0.0	0.23	
15	0.0	0.0	0.57	0.0	2.33	0.0	0.0	0.0	0.02	0.0	0.10	0.10	0.10	
16	0.19	0.0	0.39	0.0	0.76	0.0	0.0	0.37	0.0	0.0	0.01	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.05	0.04	1.40	0.12	0.0	0.64	0.00	0.0	0.0	
18	0.0	0.29	0.0	0.0	0.04	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.14	0.09	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	1.69	0.26	0.32	0.32	
21	0.0	0.12	0.28	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
22	0.0	0.93	0.12	0.0	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.01	0.0	0.89	0.0	0.0	0.30	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	0.01	0.0	0.0	
25	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.02	0.05	0.33	0.0	1.03	1.03	
26	1.76	0.0	0.0	0.0	0.0	0.09	1.07	3.13	0.01	0.0	2.30	0.0	0.0	
27	0.82	0.0	0.45	0.0	0.09	0.61	0.03	0.07	0.16	0.0	1.62	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.10	0.22	0.0	0.0	0.01	0.0	1.31	0.28	0.28	
29	0.0	0.0	0.0	0.22	0.0	0.08	0.07	0.0	0.07	0.0	0.09	0.0	0.0	
30	0.0	0.0	0.0	1.85	0.0	0.59	0.20	0.0	0.0	0.10	0.0	0.0	0.0	
31	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.36	
TOTAL		4.60	1.93	4.56	2.77	10.21	2.66	4.80	6.48	4.02	4.51	6.60	4.43	
STA AV		3.84	4.60	6.06	3.47	5.00	4.54	6.05	6.11	2.18	1.73	2.53	4.30	

NOTES: Values are weighted using Reciprocal Distance Squared Method from 12 recording gages. STA AV values are based on 9 yr (1968-1976) record period.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle South Georgia Soil Conservation District

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED K												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.88	14.30	3.08	16.23	20.73	8.11	6.55	0.81	0.70	0.32	2.57	22.62
2	6.02	18.24	2.81	15.35	12.71	9.29	14.93	0.23	0.45	0.18	2.05	19.97
3	2.94	13.84	2.76	5.83	4.56	10.29	10.33	0.32	0.25	0.09	1.80	16.63
4	2.67	11.65	3.36	4.12	2.13	8.15	2.05	0.42	0.14	0.06	1.60	15.37
5	2.28	8.34	6.05	4.03	1.34	6.87	1.49	0.45	3.69	0.65	1.43	13.46
6	3.39	6.77	2.79	3.12	1.73	5.69	12.93	0.11	10.48	0.08	4.46	15.29
7	2.61	7.19	8.64	4.46	6.92	3.99	16.57	0.59	39.14	0.24	1.55	34.47
8	16.65	7.19	7.46	3.24	5.90	2.88	6.72	2.02	41.38	4.47	1.13	33.38
9	17.04	6.85	10.02	5.57	4.72	2.03	2.88	8.57	22.36	12.76	0.97	22.03
10	8.88	9.40	5.76	4.16	3.53	1.41	6.94	10.85	8.09	3.58	1.01	16.77
11	4.88	7.51	3.92	2.25E	3.58	1.10	2.00	2.81	4.77	1.96	1.02	24.16
12	4.40	6.59	2.69	1.62E	4.96	0.79	0.79	2.37	2.95	1.16	1.02	36.22
13	4.52	4.97	6.23	1.36E	3.38	0.53	0.31	0.46	1.86	0.76	1.10	31.93
14	7.79	4.20	9.60	1.08E	6.98	0.41	0.10	0.20	3.15	0.55	1.51	25.65
15	5.70	4.13	25.52	1.15	216.25E	0.17	0.02	0.11	4.08	0.36	2.21	23.01
16	3.77	4.11	29.78	0.63	66.79	0.14	0.0	0.14	3.59	0.32	2.45	26.23
17	5.81	4.16	23.15	0.36	65.57	0.14	3.11	0.75	2.61	1.70	4.88	18.53
18	5.20	6.63	12.25	0.15	26.91	0.02	12.34	0.53	1.37	2.16	7.60	15.31
19	4.09	8.25	7.15	0.04	16.20	0.00	5.96	0.14	0.96	1.38	5.31	13.88
20	3.56	4.17	6.06	0.01	11.69	0.64	4.02	0.01	0.75	21.03	6.51	15.57
21	3.16	3.27	6.98	0.0	9.75	4.68	3.36	0.00	0.64	17.13	5.55	19.41
22	2.73	18.50	5.75	0.0	28.72	2.35	0.78	0.0	0.65	9.50	3.66	15.41
23	2.64	14.60	10.65	0.0	100.74	0.81	0.11	0.0	0.38	12.04	2.69	13.25
24	3.93	7.56	13.86	0.0	55.37	0.71	2.92	0.0	0.27	3.18	2.23	11.68
25	2.59	7.22	5.63	0.0	26.24	1.89	0.53	0.0	0.28	3.24	2.03	13.42
26	10.17	13.34	5.05	0.0	17.64	0.14	2.76	15.00	0.41	5.57	13.11	40.11
27	36.28	4.28	7.76	0.0	14.91	0.03	5.38	42.30	0.50	4.14	55.55	28.54
28	30.42	3.94	11.45	0.0	16.94	1.87	2.57	9.87	0.69	3.13	105.19	18.10
29	25.91	5.14	8.09	0.0	16.25	2.78	0.50	5.64	0.65	2.60	79.13	20.50
30	12.38		6.17	2.67	11.19	2.23	1.79	1.54	0.63	6.91	38.78	18.65
31	8.78		7.25		9.24		3.49	0.89		3.41		20.37
MEAN	8.396	8.144	8.765	2.581	25.597	2.671	4.335	3.458	5.262	4.015	12.009	21.292
INCHES	1.505	1.366	1.572	0.448	4.590	0.463	0.777	0.620	0.913	0.720	2.084	3.818
STA AV	1.459	2.566	2.948	2.301	1.410	0.896	0.774	1.462	0.433	0.129	0.280	0.851

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.0057841. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED K										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 12 - 20, 1976										
5-14	RG 000039	0.054	5-14	RG 000039	0.0	0.0	5-14	750	3.183	0.0
	0.0			1034	0.0226	0.13		1340	2.812	0.0012
				1500	0.0226	0.20		1835	2.994	0.0014
				1930	2.4001	0.43		2055	9.478	0.0016
				1935	1.1999	0.50		2145	14.837	0.0019
WATERSHED CONDITIONS:										
	Water, 1.0%;			1945	1.2000	0.70		2210	22.198	0.0023
	crops, 29.8%;			2040	0.1091	0.80		2245	36.549	0.0030
	wetland, 0.1%;			2115	0.1714	0.90		2255	38.133	0.0045
	pasture,			2145	0.2000	1.00		2330	50.316	0.0108
	12.6%;			2155	0.6000	1.10		2400	70.033	0.0135
	roads, 0.7%;									
	forest, 55.8%.									
				2205	1.2000	1.30	5-15	20	93.683	0.0153
				2210	3.6000	1.60		55	119.576	0.0264
				2215	1.1999	1.70		120	126.524	0.0339
				2230	0.4000	1.80		200	128.268	0.0442
				2240	0.6000	1.90		240	124.784	0.0492
				2245	1.1599	2.00		300	121.310	0.0515
				2255	0.6000	2.10		315	126.524	0.0591
				2300	1.1999	2.20		330	147.681	0.0620
				2315	0.4000	2.30		350	158.457	0.0683
				2325	0.6000	2.40		405	169.376	0.0782
				2335	0.5999	2.50		410	176.732	0.0816
				2345	0.6000	2.60		435	224.212	0.1018
				2400	0.2800	2.57		445	235.958	0.1111
			5-15	5	0.3600	2.70		505	251.943	0.1161
				15	0.6000	2.80		535	253.954	0.1263
				25	0.6000	2.50		550	255.972	0.1366
				110	0.1333	3.00		615	253.954	0.1468
				255	0.0571	5.10		630	255.972	0.1571
				300	4.7999	3.50		705	274.306	0.1626
				305	1.2001	3.60		710	280.455	0.1681

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000241.

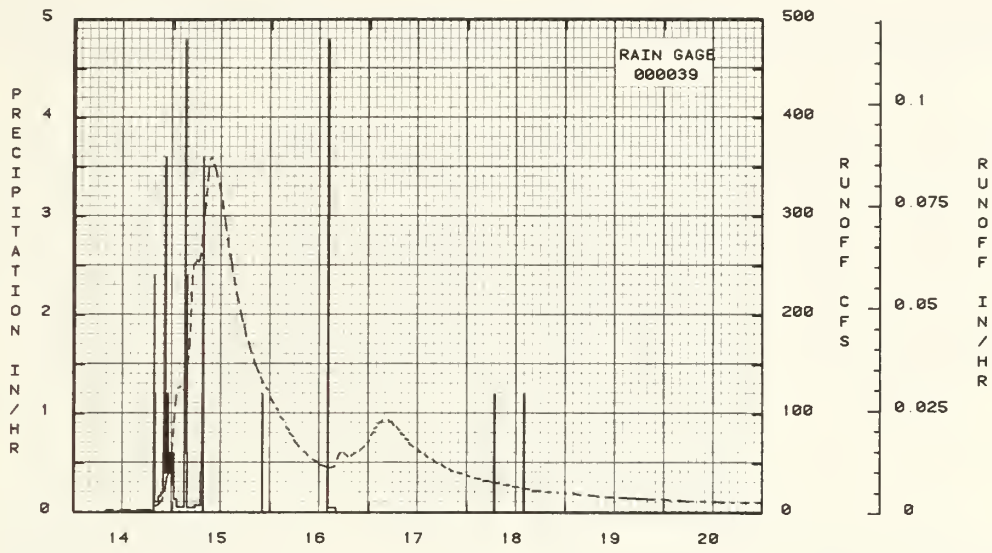
1976 SELECTED RUNOFF EVENT			TIPTON, GEORGIA LITTLE RIVER WATERSHED K							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 12 - 20, 1976 (CONTINUED)										
5-15				315	1.2000	3.80	5-15	725	286.719	0.1852
				325	2.4000	4.20		745	305.614	0.1913
				335	0.6000	4.30		800	314.121	0.1976
				530	0.0522	4.40		840	350.990	0.2251
				650	0.0750	4.50		900	359.833	0.2323
				705	0.4000	4.60		930	359.833	0.2757
				715	6.5999	4.70		1010	350.990	0.2827
				720	1.2001	4.80		1045	340.023	0.2965
				725	3.6000	5.10		1115	333.495	0.3032
				730	1.1999	5.20		1140	322.688	0.3361
				2200	0.0	5.20		1200	316.256	0.3425
				2205	1.2001	5.30		1215	307.736	0.3487
5-16				1353	0.0	5.30		1250	292.979	0.3909
				1355	3.0002	5.40		1320	276.365	0.3965
				1400	4.7999	5.60		1410	255.972	0.4500
				1600	0.0500	5.90		1435	243.937	0.4549
5-18				640	0.0	5.90		1455	237.976	0.4597
				645	1.1999	6.00		1535	222.263	0.4966
				1350	0.0	6.00		1610	212.579	0.5009
				1355	1.2001	6.10		1705	193.525	0.5208
								1725	189.766	0.5246
								1800	178.581	0.5319
								1930	173.045	0.5354
								1915	162.061	0.5386
								2010	151.259	0.5417
								2105	142.344	0.5446
								2135	137.040	0.5473
								2210	131.767	0.5500
								2250	126.524	0.5525
								2315	124.784	0.5576
								2400	116.122	0.5599
							5-16	40	110.959	0.5622
								125	105.818	0.5643
								145	104.106	0.5706
								225	97.286	0.5725
								305	93.883	0.5763
								350	87.088	0.5781
								430	83.689	0.5797
								450	80.287	0.5814
								530	76.878	0.5829
								545	73.462	0.5844
								700	66.670	0.5858
								615	62.333	0.5883
								910	58.163	0.5894
								1020	54.159	0.5905
								1135	51.262	0.5936
								1210	48.456	0.5946
								1325	46.637	0.5993
								1440	45.742	0.6057
								1545	47.542	0.6067
								1645	59.189	0.6155
								1710	61.274	0.6168
								1805	60.227	0.6204
								1855	57.147	0.6215
								1945	56.163	0.6227
								2045	61.274	0.6239
								2155	63.401	0.6290
								2300	67.779	0.6304
								2345	71.747	0.6333
								2400	73.462	0.6362
							5-17	30	78.585	0.6376
								115	81.990	0.6411
								125	85.387	0.6444
								200	87.088	0.6497
								220	90.484	0.6515
								240	92.184	0.6533
								310	92.184	0.6644
								315	93.883	0.6663
								455	93.883	0.7040
								500	92.184	0.7059
								535	92.184	0.7188
								605	88.786	0.7206
								645	87.088	0.7241
								725	83.669	0.7275
								750	80.287	0.7291

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000241.



1976 SELECTED RUNOFF EVENT			TIFTON, GEORGIA LITTLE RIVER WATERSHED K							
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 12 - 20, 1976 (CONTINUED)										
							5-17	835	78.585	0.7354
								855	75.172	0.7369
								930	73.462	0.7414
								955	70.033	0.7428
								1055	66.670	0.7441
								1155	64.480	0.7480
								1240	61.274	0.7493
								1340	59.189	0.7528
								1430	56.139	0.7540
								1535	54.159	0.7583
								1645	50.316	0.7593
								1750	48.456	0.7632
								1850	45.742	0.7642
								1940	43.983	0.7651
								2035	42.262	0.7659
								2140	40.581	0.7667
								2250	39.755	0.7723
								2400	38.133	0.7769
							5-18	45	36.549	0.7777
								155	35.004	0.7784
								320	34.246	0.7832
								405	32.759	0.7839
								535	32.028	0.7890
								625	30.598	0.7896
								755	29.896	0.7950
								855	28.521	0.7956
								1020	27.847	0.7995
								1115	26.528	0.8001
								1240	25.882	0.8042
								1335	24.617	0.8047
								1515	23.999	0.8095
								1605	22.789	0.8100
								1755	22.198	0.8145
								1915	21.041	0.8149
								2030	20.476	0.8153
								2210	20.475	0.8235
								2215	19.920	0.8239
								2400	19.920	0.8323
							5-19	10	19.373	0.8327
								205	19.373	0.8417
								345	18.304	0.8420
								700	17.783	0.8488
								815	16.767	0.8492
								950	16.272	0.8495
								1135	16.272	0.8564
								1315	15.306	0.8567
								1510	15.306	0.8637
								1515	14.637	0.8640
								1719	14.637	0.8709
								1715	14.375	0.8712
								1955	14.375	0.8804
								2000	13.922	0.8807
								2400	13.922	0.8941
							5-20	135	13.040	0.8944
								529	12.612	0.9002
								525	12.193	0.9005
								1005	12.193	0.9142
								1019	11.780	0.9144
								1240	11.760	0.9215
								1450	10.981	0.9217
								1705	10.581	0.9277
								1710	10.593	0.9279
								2400	10.593	0.9454

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000241.



EVENT OF MAY 12 - 20, 1976  
TIPTON, GEORGIA LITTLE RIVER WATERSHED K

TIPTON, GEORGIA LITTLE RIVER WATERSHED M

LOCATION: Turner County, Georgia; approximately 4 miles northwest of Ashburn on County Road S1531; Newell Branch, Little River Watershed, Withlacoochee River Sub-basin, Suwanee River Basin. Lat. 31 deg. 41 min. 46 sec., long. 83 deg. 43 min. 52 sec.

AREA: 646.00 acres 1.01 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED M														
		Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1976	P	4.73	1.50	4.91	2.66	10.08	3.66	4.13	5.69	3.89	4.88	6.80	4.38	57.31													
	Q	0.967	0.871	1.039	0.225	3.154	0.615	0.635	0.281	0.412	0.431	1.509	2.857	13.015													
STA AV	P	3.98	4.65	6.39	3.43	4.85	4.89	6.04	5.18	2.05	1.76	2.57	4.34	50.15													
	Q	1.049	1.942	2.482	1.733	1.052	0.898	0.659	0.773	0.138	0.068	0.190	0.563	11.547													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1976		5-15	0.073	5-15	0.074	5-15	0.142	5-15	0.406	5-15	0.681	5-14	0.936	5-14	1.229	5-15	1.856										
MAXIMUMS FOR PERIOD OF RECORD																											
		3-3	0.341	3-3	0.325	3-3	0.594	3-3	1.159	3-3	1.420	3-2	1.948	3-2	2.261	2-28	3.254										
		1971		1971		1971		1971		1971		1971		1971		1971											

NOTES: Watershed conditions: Crops, 42.2%; pasture, 10.6%; roads, 0.7%; forest, 46.5%. For topographic and composition map showing location of rain gages see pages 74.009-24 and 74.002-22, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USDA Misc. Pub. 1446. Precipitation records began January 1963. Runoff records began January 1968. Monthly precipitation values are weighted using Reciprocal Distance Squared Method from 8 recording gages. For long-time precipitation records, see National Weather Service records at Tifton, Georgia.

1976 DAILY PRECIPITATION (inches)													TIPTON, GEORGIA LITTLE RIVER WATERSHED M												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.50	0.0	0.0	0.22	0.0	0.33	0.0	0.0	0.0	0.0	0.0													
2	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.04	1.29	0.0	0.0	0.0													
3	0.25	0.0	0.0	0.0	0.0	0.0	0.05	0.05	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	0.12	0.0	0.0	0.0													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.59	0.0	0.0													
6	0.0	0.0	0.58	0.10	0.0	0.0	0.94	0.0	1.12	0.34	0.0	0.56													
7	1.06	0.0	0.0	0.0	0.70	0.0	0.0	1.20	1.61	0.0	0.0	0.45													
8	0.34	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.0													
9	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.06	0.06	0.01	0.0	0.0													
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0													
11	0.05	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.62													
12	0.05	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.50													
13	0.0	0.0	0.37	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05													
14	0.11	0.0	1.21	0.0	2.87	0.0	0.0	0.0	0.05	0.0	0.18	0.21													
15	0.0	0.0	0.58	0.0	2.19	0.0	0.0	0.0	0.02	0.0	0.07	0.09													
16	0.15	0.0	0.45	0.0	0.70	0.0	0.0	0.11	0.0	0.0	0.06	0.0													
17	0.0	0.0	0.0	0.0	0.16	0.01	1.18	0.06	0.0	0.72	0.60	0.0													
18	0.0	0.20	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0													
19	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.09	0.04	0.0													
20	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	2.06	0.29	0.24													
21	0.0	0.16	0.38	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0													
22	0.0	0.54	0.10	0.0	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.21	0.0	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
25	0.02	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.36	0.0	1.04													
26	1.74	0.0	0.0	0.0	0.0	0.13	0.55	2.64	0.0	0.0	2.22	0.01													
27	0.95	0.0	0.44	0.0	0.23	0.83	0.03	0.08	0.14	0.0	1.54	0.0													
28	0.0	0.0	0.0	0.0	0.10	0.21	0.0	0.0	0.0	0.0	1.73	0.28													
29	0.0	0.0	0.0	0.21	0.0	0.08	0.03	0.0	0.08	0.0	0.07	0.02													
30	0.0	0.0	0.0	1.80	0.0	1.10	0.40	0.0	0.0	0.10	0.0	0.0													
31	0.0		0.56		0.0		0.0					0.31													
TOTAL	4.73	1.50	4.91	2.66	10.08	3.66	4.13	5.69	3.89	4.88	6.80	4.38													
STA AV	3.98	4.65	6.39	3.43	4.85	4.89	6.04	5.18	2.05	1.76	2.57	4.34													

NOTES: Values are weighted using Reciprocal Distance Squared Method from 8 recording gages. STA AV values are based on 9 yr (1963-76) record period.

1976 MEAN DAILY DISCHARGE (cfs) TIPTON, GEORGIA LITTLE RIVER WATERSHED #												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.826	1.603	0.335	1.813	2.921	0.912	3.326	0.019	0.027	0.023	0.341	2.322
2	0.442	2.117	0.311	0.802	0.942	1.603	1.609	0.029	0.022	0.027	0.288	2.110
3	0.321	1.275	0.301	0.495	0.338	1.388	0.575	0.923	0.021	0.027	0.258	1.947
4	0.353	1.057	0.291	0.372	0.146	1.026	0.362	0.483	0.025	0.022	0.228	1.807
5	0.281	0.978	0.268	0.291	0.073	0.908	0.327	0.178	0.029	0.019	0.201	1.733
6	0.235	0.954	0.326	0.282	0.041	0.700	1.890	0.062	0.058	0.020	0.168	2.081
7	0.319	0.936	1.131	0.375	0.113	0.518	2.111	1.375	5.848	0.031	0.166	4.492
8	2.234	0.851	0.717	0.315	0.633	0.414	0.777	0.828	2.349	0.036	0.157	3.309
9	1.229	0.801	0.614	0.235	0.549	0.315	0.424	0.264	0.846	0.364	0.145	2.063
10	0.674	0.727	0.506	0.178	0.343	0.261	0.239	0.124	0.487	0.497	0.143	1.885
11	0.538	0.723	0.385	0.149	0.229	0.212	0.142	0.061	0.283	0.216	0.145	3.268
12	0.528	0.713	0.313	0.118	0.274	0.164	0.084	0.031	0.160	0.104	0.145	3.458
13	0.511	0.664	0.428	0.099	0.184	0.103	0.045	0.022	0.100	0.055	0.145	4.435
14	0.661	0.621	1.338	0.083	1.323	0.059	0.027	0.020	0.101	0.032	0.166	2.792
15	0.569	0.596	0.546	0.072	24.921	0.045	0.021	0.018	0.167	0.020	0.305	3.277
16	0.467	0.574	3.164	0.056	8.382	0.040	0.019	0.016	0.160	0.019	0.360	2.579
17	0.504	0.574	1.883	0.037	4.778	0.045	0.171	0.016	0.110	0.040	0.674	2.029
18	0.441	0.612	0.954	0.028	2.577	0.036	2.395	0.013	0.066	0.133	1.240	1.784
19	0.406	0.754	0.767	0.021	1.604	0.410	1.680	0.008	0.049	0.143	0.702	1.703
20	0.373	0.623	0.722	0.019	1.161	1.864	0.476	0.006	0.032	3.960	0.724	1.977
21	0.369	0.535	1.065	0.019	0.977	1.052	0.176	0.006	0.031	1.798	0.756	2.202
22	0.369	1.264	1.279	0.023	6.242	0.441	0.078	0.003	0.022	0.623	0.499	1.674
23	0.360	1.174	1.051	0.016	9.876	0.203	0.040	0.0	0.030	0.362	0.357	1.674
24	0.336	0.676	0.779	0.018	4.405	0.115	0.025	0.0	0.026	0.260	0.290	1.578
25	0.334	0.526	0.664	0.024	2.392	0.060	0.029	0.0	0.022	0.276	0.261	1.878
26	1.431	0.435	0.611	0.017	1.747	0.036	0.034	0.216	0.022	0.664	2.465	5.864
27	5.700	0.444	0.974	0.017	1.788	0.381	0.038	2.112	0.030	0.565	6.392	2.348
28	2.519	0.408	1.364	0.017	2.750	1.366	0.033	0.544	0.028	0.401	12.388	1.956
29	1.343	0.367	0.826	0.013	1.639	0.734	0.034	0.159	0.019	0.317	7.929	2.716
30	1.096		0.609	0.100	1.209	1.290	0.023	0.060	0.021	0.301	2.917	1.864
31	1.014		0.688		1.051		0.016	0.034		0.343		2.734
MEAN	0.3640	0.6149	0.9099	0.2034	2.7612	0.5567	0.5556	0.2461	0.3730	0.3773	1.3651	2.5010
INCHES	0.987	0.871	1.039	0.225	3.154	0.615	0.635	0.281	0.412	0.431	1.509	2.857
STA AV	1.049	1.942	2.462	1.733	1.052	0.898	0.659	0.773	0.138	0.068	0.190	0.563

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.035419. STA AV values are based on 9 yr (1968-76) record period.

1976 SELECTED RUNOFF EVENT TIPTON, GEORGIA LITTLE RIVER WATERSHED #												
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 18 - 24, 1976												
RG 000049			RG 000049									
10-13	0.0		10-19	2239	0.0	0.0	10-18	1020	0.125	0.0		
10-18		0.002		2330	0.1177	0.10		1345	0.166	0.0000		
				2400	0.1200	0.16		2400	0.166	0.0026		
			10-20	20	0.1200	0.20	10-19	1430	0.145	0.0043		
				55	0.1714	0.30		1435	0.125	0.0043		
WATERSHED CONDITIONS:												
Crops, 42.2%; pasture, 10.6%; roads, 0.7%; forest, 46.5.												
				100	1.2001	0.40		2400	0.125	0.0044		
				110	0.5999	0.50	10-20	340	0.621	0.0045		
				120	0.6000	0.60		630	1.297	0.0047		
				135	0.4000	0.70		810	3.402	0.0051		
				140	1.1999	0.80		910	4.108	0.0056		
				150	0.6000	0.90		1015	4.785	0.0068		
				215	0.2400	1.00		1115	6.369	0.0076		
				255	0.1500	1.10		1200	6.969	0.0103		
				325	0.2000	1.20		1205	7.284	0.0112		
				340	0.4000	1.30		1255	7.284	0.0205		
				525	0.0571	1.40		1415	7.284	0.0308		
				640	0.0800	1.50		1420	6.969	0.0317		
				645	1.2001	1.60		1500	6.969	0.0388		
				650	2.4000	1.80		1505	6.664	0.0397		
				755	0.0923	1.90		1600	6.664	0.0491		
								1605	6.369	0.0499		
								1645	6.369	0.0564		
								1650	6.083	0.0572		
								1735	6.083	0.0642		
								1820	5.538	0.0650		
								1930	5.278	0.0697		
								2005	4.785	0.0703		
								2105	4.552	0.0738		
								2140	4.108	0.0743		
								2255	3.959	0.0779		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001475797.



1976		SELECTED RUNOFF EVENT		TIPTON, GEORGIA LITTLE RIVER WATERSHED M							
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 18 - 24, 1976 (CONTINUED)											
							10-20	2400	3.581	0.0797	
							10-21	105	3.402	0.0832	
								200	3.061	0.0836	
								325	2.900	0.0866	
								425	2.595	0.0869	
								550	2.451	0.0894	
								635	2.180	0.0897	
								840	1.979	0.0915	
								1015	1.703	0.0917	
								1245	1.533	0.0935	
								1450	1.297	0.0936	
								1815	1.152	0.0956	
								1950	1.018	0.0957	
								2255	0.954	0.0979	
								2400	0.893	0.0993	
			10-22	245	0.777	0.0994		705	0.723	0.1020	
				955	0.621	0.1020		1455	0.574	0.1040	
				1810	0.485	0.1041					
				2400	0.444	0.1053					
			10-23	250	0.406	0.1054		820	0.406	0.1088	
				825	0.369	0.1089		825	0.369	0.1089	
				1315	0.369	0.1116					
				1800	0.301	0.1116					
				2400	0.301	0.1144					
			10-24	255	0.271	0.1144		1125	0.271	0.1180	
				1210	0.242	0.1180					
				2400	0.242	0.1224					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001475797.

