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United States
Department of
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Agricultural
Research
Service

Miscellaneous
Publication
Number 1437

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974

1974

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ABSTRACT

Burford, James B., Jane L. Thurman, and Ralph T. Roberts. 1983. Hydrologic data for experimental agricultural watersheds in the United States, 1974. U.S. Department of Agriculture Miscellaneous Publication No. 1437, 417 pp.

Hydrologic data from 98 agricultural watersheds for calendar year 1974 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 18th publication in this series.

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

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



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Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974

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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 1974. 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 1974 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 1974 in this publication. Table 4 includes similar data on discontinued watersheds.

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1974

This is the 18th publication in the series on hydrological data by the U.S. Department of Agriculture. The first three are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 17 publications, previously published records and general descriptions associated with each study can be readily found.

This publication contains selected hydrologic data from 98 watersheds for 1974. 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 95 watersheds; daily precipitation for 97 watersheds; mean daily discharge for 98 watersheds; applicable daily maximum and minimum air temperatures for 94 watersheds; and detailed information on 1 or more selected typical storm events for 82 watersheds.

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

For newly established watersheds, descriptions of watershed physical characteristics, instrumentation, land management, and recommended area of application of the results are given as well as graphs and maps.

The first 11 publications in this series resulted from the cooperative efforts of several 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 seventh 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 upper and lower case alphameric 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 1974, 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, and 1437. These 15 publications are listed in table 1 as references 4-18. 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. 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 when requested.

Table 2 lists in which of the 18 references data are included for each watershed and shows for which watersheds data are stored in the ARS Water Data Bank.

Table 3 summarizes where data for each watershed can be found in this 18th publication.

Table 4 lists the watershed units where studies were discontinued in 1973.

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 4-17, 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

Table 1.--Description of references 4-18 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 water-sheds	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

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18¹/--
Continued

Water-shed ident code ² / ₂	Study location		Water-shed name-No.	Area in acres ³ / ₃	Record		Rev. (19--) ref. No. ⁴ / ₄ / ⁵ / ₅	Index to information in reference ¹ /--																	
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
25001*	McCredie	MO	S.R.W.	153.	41	07	01 02	04 05 06 07 08 09 10 11 12 13 14 15 16 17 18																	
25002	McCredie	MO	No.2	44.3	51 63	07	01 02	04 05 06 07																	
26001*	Coshocton	OH	102	1.26	37	06	01 02	04 05 06 07 08 09 10 11 12 13 14 15 16 17 18																	
26002*	Coshocton	OH	104	1.33	37 46		01 02	04																	
26003*	Coshocton	OH	129	2.71	38 71	06	01 02	04 05 06 07 08 09 10 11 12 13 14 15																	
26004*	Coshocton	OH	135	2.69	38 69	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26005*	Coshocton	OH	130	1.63	38 71	06	01 02	04 05 06 07 08 09 10 11 12 13 14																	
26006*	Coshocton	OH	107	2.59	38 46		01 02	04																	
26007*	Coshocton	OH	131	2.21	38 69	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26008*	Coshocton	OH	132	0.62	48 69	06	01 02	04 05 06 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	06	01 02	04 05 06 07 08 09 10 11 12 13 14 15 16 17 18																	
26011*	Coshocton	OH	115	1.61	39 70	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26012*	Coshocton	OH	127	1.65	49 70	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26013*	Coshocton	OH	109	1.69	38	06	01 02	04 05 06 07 08 09 10 11 12 13 14 15 16 17 18																	
26014*	Coshocton	OH	103	0.65	39	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26015*	Coshocton	OH	110	1.27	39	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26016*	Coshocton	OH	113	1.45	39 76	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26017*	Coshocton	OH	118	1.96	40 76	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26018*	Coshocton	OH	111	1.18	39 70	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26019*	Coshocton	OH	121	1.42	39	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26020*	Coshocton	OH	106	1.56	39 72	06	01 02	04 05 06 07 08 09 10 11 12 13 14 15																	
26021*	Coshocton	OH	188	2.05	39 70	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26022	Coshocton	OH	124	2.07	39 47		01 02	04																	
26023*	Coshocton	OH	185	7.40	39 72	06	01 02	04 05 06 07 08 09 10 11 12 13 14																	
26024*	Coshocton	OH	187	7.20	41 72	06	01 02	04 05 06 07 08 09 10 11 12 13 14																	
26025*	Coshocton	OH	192	7.59	39	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26026*	Coshocton	OH	172	43.6	39 72	06	01 02	04 05 06 07 08 09 10 11																	
26027*	Coshocton	OH	169	29.0	40 71	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26028*	Coshocton	OH	177	75.6	40 71	06	01 02	04 05 06 07 08 09 10 11 12 13																	
26029*	Coshocton	OH	183	74.2	38 63	06	01 02 03	04 05 06 07																	
26030*	Coshocton	OH	196	303.	37	06	01 02 03	04 05 06 07 08 09 10 11 12 13 14 15 16 17 18																	
26031*	Coshocton	OH	10	122.	39 71	06	01 02	04 05 06 07 08 09 10 11 12 13 14																	
26032*	Coshocton	OH	5	349.	40 71	06	01 02	04 05 06 07 08 09 10 11 12 13 14																	
26033*	Coshocton	OH	92	920.	39 71	06	01 02	04 05 06 07 08 09 10 11 12 13 14																	
26034*	Coshocton	OH	94	1,520.	39 71	06	01 02	04 05 06 07 08 09 10 11 12 13 14																	
26035*	Coshocton	OH	95	2,570.	39 72	06	01 02	04 05 06 07 08 09 10 11 12 13 14 15																	
26036*	Coshocton	OH	97	4,580.	37 70	06	01 02 03	04 05 06 07 08 09 10 11 12 13 14																	
26037	Coshocton	OH	994	17,400.	36	06	01 02	04 05 06 07 08 09 10 11																	
26038*	Coshocton	OH	174	52.8	60 77	06		05 06 07 08 09 10 11 12 13 14 15 16 17 18																	
26039*	Coshocton	OH	194	187.	60 77	06		05 06 07 08 09 10 11 12 13 14 15 16 17 18																	
26040*	Coshocton	OH	182	69.6	64			10 11 12 13 14																	
26041*	Coshocton	OH	166	79.2	67			13 14 15																	
27001	Hamilton	OH	W-1	187.	38 44		01 02 03																		
27002	Hamilton	OH	W-II	16.2	38 44		01 02																		
27003	Hamilton	OH	W-III	28.8	38 44		01 02																		
27004	Hamilton	OH	W-IV	20.3	38 44		01 02																		
28001	Zanesville	OH	C.W.	2.55	34 45		01 02																		
28002	Zanesville	OH	P.W.	3.57	34 45		01 02																		
28003	Zanesville	OH	W.W.	2.23	34 45		01 02																		
29001	Colby	WI	W-1	345.	49 66		01 02 03 04 05 06 07 08 09 10																		
30001	Coon Valley	WI	No. 1	49,400.	34 40		01 02																		
30002	Coon Valley	WI	No. 2	49,344.	34 40		01 02																		
31001*	Fennimore	WI	W-1	330.	38 69	07	01 02 03 04 05 06 07 08 09 10 11																		
31002*	Fennimore	WI	W-2	22.8	38 68	07	01 02 03 04 05 06 07 08 09 10 11																		
31003*	Fennimore	WI	W-3	52.5	38 69	07	01 02 04 05 06 07 08 09 10 11																		
31004*	Fennimore	WI	W-4	171.	38 68	07	01 02 03 04 05 06 07 08 09 10 11																		

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18^{1/--}--
Continued

Water-shed ident. code ^{2/--}	Study location		Water- shed name-No.	Area in acres ^{3/--}	Record Rev. (19--) ref.			Index to information in reference ^{1/--}																	
	Town	State			B	E	No.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
32001	La Crosse	WI	U.P.W.	2.41	33	55	01	02																	
32002	La Crosse	WI	U.C.W.	2.24	33	46	01	02																	
32003	La Crosse	WI	C.W.	2.71	37	63	07	01	02		04	05	06	07											
32004	La Crosse	WI	C.W.A.	2.95	52	63	07	01	02																
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		05	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
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
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																

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18^{1/--}
Continued

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres	Record (19--)	Rev. B/E No.	Index to information in reference ^{1/--}																	
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
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																
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	06	01	02	04	05	06	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	06	01	02			06	07	08	09	10	11							
44027*	Hastings	NE	23-H	4.20	41	67	01	02				06	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	07	01	02	04	05	06	07	08	09	10	11							
45002*	Safford	AZ	W-II	682.	39	76	08	01	02	03	04	05	06		08	09	10	11						
45003*	Safford	AZ	W-IV	764.	39	76		01	02		04	05	06		08	09	10	11						
45004*	Safford	AZ	W-V	723.	39	76	07	01	02		04	05	06	07	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	08	01	02	03	04	05	06		08	09	10	11	12					
47002*	Albuquerque	NM	W-II	40.5	39	76	07	01	02		04	05	06	07	08	09	10	11	12					
47003*	Albuquerque	NM	W-III	176.	39	76	07	01	02		04	05	06	07	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															

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18^{1/--}
Continued

Water-shed ident. code ^{2/--}	Study location		Water-shed name-No.	Area in acres ^{3/--}	Record (19--) B ₄ /E ₅	Rev. ref. No. ^{5/--}	Index to information in reference ^{1/--}																	
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
55001	Emmett	ID	W-1	219.4	38	41	01	02																
55002	Emmett	ID	W-2	69.4	38	41	01	02	03															
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			
61002*	Monticello	IL	IB	45.5	49	59	01	02	03	04												18		
62001*	Oxford	MS	W-4	2,000.	57	06	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18		
62002*	Oxford	MS	W-5	1,000.	57	06	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18		
62003*	Oxford	MS	W-10	5,530.	57	06	03	04	05	06	07	08	09	10	11	12	13	14	15					
62004*	Oxford	MS	W-12	22,800.	57	06	04	05	06	07	08	09	10	11	12	13	14	15						
62005*	Oxford	MS	W-17	32,100.	57	06	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18			
62006	Oxford	MS	W-19	243.	57	64	06	04	05	06	07	08												
62007*	Oxford	MS	W-24	512.	57	06	04	05	06	07	08	09	10	11	12	13	14	15						
62008*	Oxford	MS	W-28	1,080.	57	06	04	05	06	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	06	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18			
62011*	Oxford	MS	W-34	75,000.	57	06	03	04	05	06	07	08	09	10	11	12	13	15	16	17	18			
62012*	Oxford	MS	W-35	7,550.	57	77	06	04	05	06	07	08	09	10	11	12	13	14	15					
62013	Oxford	MS	WC-1	3.88	58	06	04	05	06	07	08	09	10	11										
62014*	Oxford	MS	WC-2	1.45	58	06	04	05	06	07	08	09	10	11										
62015	Oxford	MS	WC-3	1.61	58	06	04	05	06	07	08	09	10	11										
62016	Oxford	MS	WP-4	3.01	58	63	04	05	06	07														
62017*	Oxford	MS	W-17A	3,200.	57	06	05	06	07	08	09	10	11	12	13	14	15							
62018*	Oxford	MS	W-35A	1,090.	57	06	05	06	07	08	09	10	11	12	13	14	15							
63001*	Tombstone	AZ	W-1	36,900.	54	74	07	04	05	06	07	08	09	10	12	13	14	15	16	17	18			
63002*	Tombstone	AZ	W-2	28,100.	54	74	07	04	05	06	07	09	10	12	13	14	15	16	17	18				
63003*	Tombstone	AZ	W-3	2,220.	54	74	07	04	05	06	07	09	10	11	12	13	14	15	16	17	18			
63004*	Tombstone	AZ	W-4	560.	54	74	07	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18		
63005*	Tombstone	AZ	W-5	5,510.	54	73	07	04	05	06	07													
63006*	Tombstone	AZ	W-6	23,500.	62	74					07	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			
63011*	Tombstone	AZ	6311	2,035.	63	74						08	09	10	12	13	14	15	16	17	18			
63015*	Tombstone	AZ	6315	5,912.	65	74						09	10	11	12	13	14	15	16	17	18			
63103*	Tombstone	AZ	63103	8.3	65							10	11	12					16	17	18			
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			
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 1-18^{1/--}
Continued

Water- shed ident. code ^{2/--}	Study location		Water- shed name-No.	Area in acres ^{3/--}	Record Rev. (19--) ref.			Index to information in reference ^{1/--}																				
	Town	State			B	E	No.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18			
65007	Newell	SD	W-7	160.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16					
65008	Newell	SD	W-8	160.	58	61					04	05																
65009	Newell	SD	W-9	815.	58	61					04	05																
65010	Newell	SD	W-10	280.	58	61					04	05																
65011	Newell	SD	W-11	160.	58	61					04	05																
65012	Newell	SD	W-12	90.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16					
65013	Newell	SD	W-13	160.	58	73					04	05	06	07	08	09	10	11	12	13	14	15	16					
65014	Newell	SD	W-14	35.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16					
65015	Newell	SD	W-15	115.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16					
65016	Newell	SD	W-16	13,000.	58	61	05				04	05																
66001*	Moorefield	WV	W-1	8.57	58	67	06				04	05	06	07	08	09	10	11										
66002*	Moorefield	WV	W-2	9.73	58	67	06				04	05	06	07	08	09	10	11										
66004*	Moorefield	WV	W-4	6.32	58	67	06				04	05	06	07	08	09	10	11										
66005*	Moorefield	WV	W-5	9.55	58	67	06				04	05	06	07	08	09	10	11										
67001*	N. Danville	VT	W-1	10,610.	58	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			
68002*	Reynolds	ID	W-2	8,990.	65											09	10	11	12	13	14	15	16	17	18			
68003*	Reynolds	ID	W-3	7,846.	66													10	11	12	13	14	15	16	17	18		
68004*	Reynolds	ID	W-4	13,453.	67														11	12	13	14	15	16	17	18		
68011*	Reynolds	ID	W-11	306.	67	78													11	12	13	14	15	16	17	18		
68012*	Reynolds	ID	W-12	205.	67	77													11	12	13	14	15	16	17	18		
68013*	Reynolds	ID	W-13	100.	63													10	11	12	13	14	15	16	17	18		
68014*	Reynolds	ID	W-14	33.	67														11	12	13	14	15	16	17	18		
69001*	Chickasha	OK	100	2,339,800.	61	79								06	07	08	09	10	11	12	13	14	15	16	17	18		
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		
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
69008*	Chickasha	OK	611	4,845.	61	74								06	07	08	09				13	14	15	16	17	18		
69009*	Chickasha	OK	612	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		
69011*	Chickasha	OK	131	25,660.	62	78								06	07	08	09	10	11	12	13	14	15	16	17	18		
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		
69014*	Chickasha	OK	110	25,020.	63	78										07	08	09	10	11	12	13	14	15	16	17	18	
69015*	Chickasha	OK	522	132,990.	63											07	08	09	10	11	12	13	14	15	16	17	18	
69016*	Chickasha	OK	512	22,530.	63	78										07	08	09	10	11	12	13	14	15	16	17	18	
69017*	Chickasha	OK	621	21,310.	63											07	08	09	10	11	12	13	14	15	16	17	18	
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			
69020	Chickasha	OK	514	7,225.	67	78																						
69021	Chickasha	OK	5141	4,064.	67	78																						
69022	Chickasha	OK	5142	360.	67	74																						
69023	Chickasha	OK	5143	485.	67	74																						
69024	Chickasha	OK	5144	1,456.	67	78																						
69025	Chickasha	OK	5145	253.	67	78																						
69026	Chickasha	OK	5146	762.	67	78																						

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-18^{1/--}--
Continued^{2/}

Water- shed ident. code ^{2/}	Study location		Water- shed name-No.	Area in acres ^{3/}	Record Rev. (19--) ref. B _{4/} E _{5/} No.	Index to information in reference ^{1/--}																	
	Town	State				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
69027*	Chickasha	OK	311	15,206.	67	78							11	12	13	14	15	16	17	18			
69028*	Chickasha	OK	515	1,657.	73															17	18		
69030*	Chickasha	OK	C-1	17.8	65	76						09	10	11	12	13	14	15	16	17	18		
69031*	Chickasha	OK	C-2	32.5	62	75						09	10	11	12	13	14	15	16	17	18		
69032*	Chickasha	OK	C-3	44.3	65	76						09	10	11	12	13	14	15	16	17	18		
69033*	Chickasha	OK	C-4	29.9	65	76						09	10	11	12	13	14	15	16	17	18		
69034*	Chickasha	OK	C-5	12.8	65	76						09	10	11	12	13	14	15	16	17	18		
69035*	Chickasha	OK	C-6	13.0	65	76						09	10	11	12	13	14	15	16	17	18		
69036*	Chickasha	OK	C-7	26.5	65	76						09	10	11	12	13	14	15	16	17	18		
69037*	Chickasha	OK	C-8	27.3	65	76						09	10	11	12	13	14	15	16	17	18		
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		
69043*	Chickasha	OK	R-6	27.2	66	78							10	11	12	13	14	15	16	17	18		
69044*	Chickasha	OK	R-7	19.2	66	78							10	11	12	13	14	15	16	17	18		
69045*	Chickasha	OK	R-8	27.6	66	78							10	11	12	13	14	15	16	17	18		
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	
71002*	Treynor	IA	W-2	82.8	64							08	09	10	11	12	13	14	15	16	17	18	
71003*	Treynor	IA	W-3	107.	64							08	09	10	11	12	13	14	15	16	17	18	
71004*	Treynor	IA	W-4	150.	64							08	09	10	11	12	13	14	15	16	17	18	
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							
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			

1/ For description of references 1-18, see page 1 and table 1.
2/ * = streamflow data for all or part of record period are stored in ARS Water Data Bank.
3/ (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.
4/ B = year (19--) record began; E = year (19--) record ended.
5/ Reference in which additional or revised watershed information has been included.

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 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 previous to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

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

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) location (publication) where the most recent map may be found; (3) length of precipitation and runoff records; and (4) location of the nearest 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 3-17 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

No new watersheds are included. For watersheds under study during 1974 and listed in this publication, see table 3.

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 "Soil Survey Manual," Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

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

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

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

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

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

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

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

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

Class 3.—The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. More than about 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

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

Class +.—Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingebiel and Montgomery in U.S. Department of Agriculture "Land-Capability Classification," Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. 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 part of the time below and part of the time above the water table. This is the ordinary type of intermittent stream.

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

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

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

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

WATERSHED CONDITIONS describe the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a 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 publications since then. Unless stated otherwise, time used in tables is eastern, central, mountain, or Pacific standard, whichever applies to the given location.

PERSONNEL RESPONSIBLE FOR DATA PREPARATION

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

	<u>Location</u>
C. A. Burrough, P. R. Yates, H. D. Wade.....	8
A. P. Barnett, A. W. Thomas.....	10
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L. A. Kramer, M. Mazzocco.....	25, 71
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V. A. Ferreira, F. Lopez.....	63, 64
R. L. Engleman.....	68
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ADDITIONAL PUBLICATIONS BY LOCATION

In references 1 and 4-17 (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. Following is a listing, by location number, of publications (issued in 1974 or otherwise noted) that resulted from related work through 1974. Several publications pertaining to the overall program of hydrology that could not be tied to a specific location are listed at the end under General References.

10. Watkinsville, Georgia
Thomas, A. W., Kruse, E. G., and Duke, H. R.
Steady infiltration from line sources buried in soil. Amer. Soc. Agr. Engin. Trans. 17(1): 125-128, 133, illus.
16. Klingerstown, Pennsylvania
Engman, E. T.
Partial area hydrology and its application to water resources. Water Resources Bul. 10(3): 512-521, illus.
 Parmele, L. H., and Gburek, W. J.
Hydrologic impact of tropical storm Agnes. Jour. Hydrol. 22: 179-193, illus.
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A partial area model for storm flow synthesis. Water Resources Res. 10(3): 464-472, illus.
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Selection of soil moisture parameters for synthesizing storm hydrographs. Amer. Soc. Civ. Engin., Natl. Water Resources Engin. Mtg., Los Angeles, Calif., Jan. 21-25, Proc. 2127: 1-27, illus. (Preprint.)
Gburek, W. J., and Broyan, J. G.
A natural non-point phosphate input to small streams. In Processing and Management of Agricultural Waste, Cornell Agr. Waste Mangt. Conf., Rochester, N.Y., Mar. 25-27, Proc. 1974: 39-50, illus.
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Soluble phosphate output on an agricultural watershed in Pennsylvania. Water Resources Res. 10(1): 113-118, illus.
Rogowski, A. S., Engman, E. T., and Jacoby, E. L., Jr.
Transient response of a layered, sloping soil to natural rainfall in the presence of a shallow water table: Experimental results. U.S. Dept. Agr. ARS-NE-30, 61 pp., illus.
25. McCredie, Missouri
Rausch, D. L., and Haden, J. D.
Columbia spillway sampler. U.S. Dept. Agr. ARS-NC-16, 8 pp., illus.

26. Coshocton, Ohio
 Glass, B. L., and Edwards, W. M.
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 Field measurement of evaporation from soil shrinkage cracks. *Soil Sci. Soc. Amer. Proc.* 38(1): 131-134, illus.
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 Predicting sediment yield frequency for rural basins to determine man's effect on long-term sedimentation. In *Effects of Man on the Interface of the Hydrological Cycle With the Physical Environment - Symp., Paris, France*, Proc. 113: 105-108.
61. Monticello, Illinois
 Jones, B. A., Jr., and McFall, R. L.
 Water losses through surface runoff in central Illinois. *Ill. Res.* 3(1): 8-9. 1961.
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 Discussion: Predicting storm runoff on small experimental watersheds. *Amer. Soc. Civ. Engin. Hydrol. Div. Jour.* 87(HY2): 196-198. 1961.
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 Estimating soil erosion from the redistribution of fallout ¹³⁷Cs. *Soil Sci. Soc. Amer. Proc.* 38(1): 137-139, illus.
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 Stephenson, G. R., and Freeze, R. A.
 Mathematical simulation of subsurface flow contributions to snowmelt runoff, Reynolds Creek Watershed, Idaho. *Water Resources Res.* 10(2): 284-294, illus.
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Quality of water discharged from two agricultural watersheds in southwestern Iowa. *Water Resources Res.* 10(2): 359-365.
74. Tifton, Georgia
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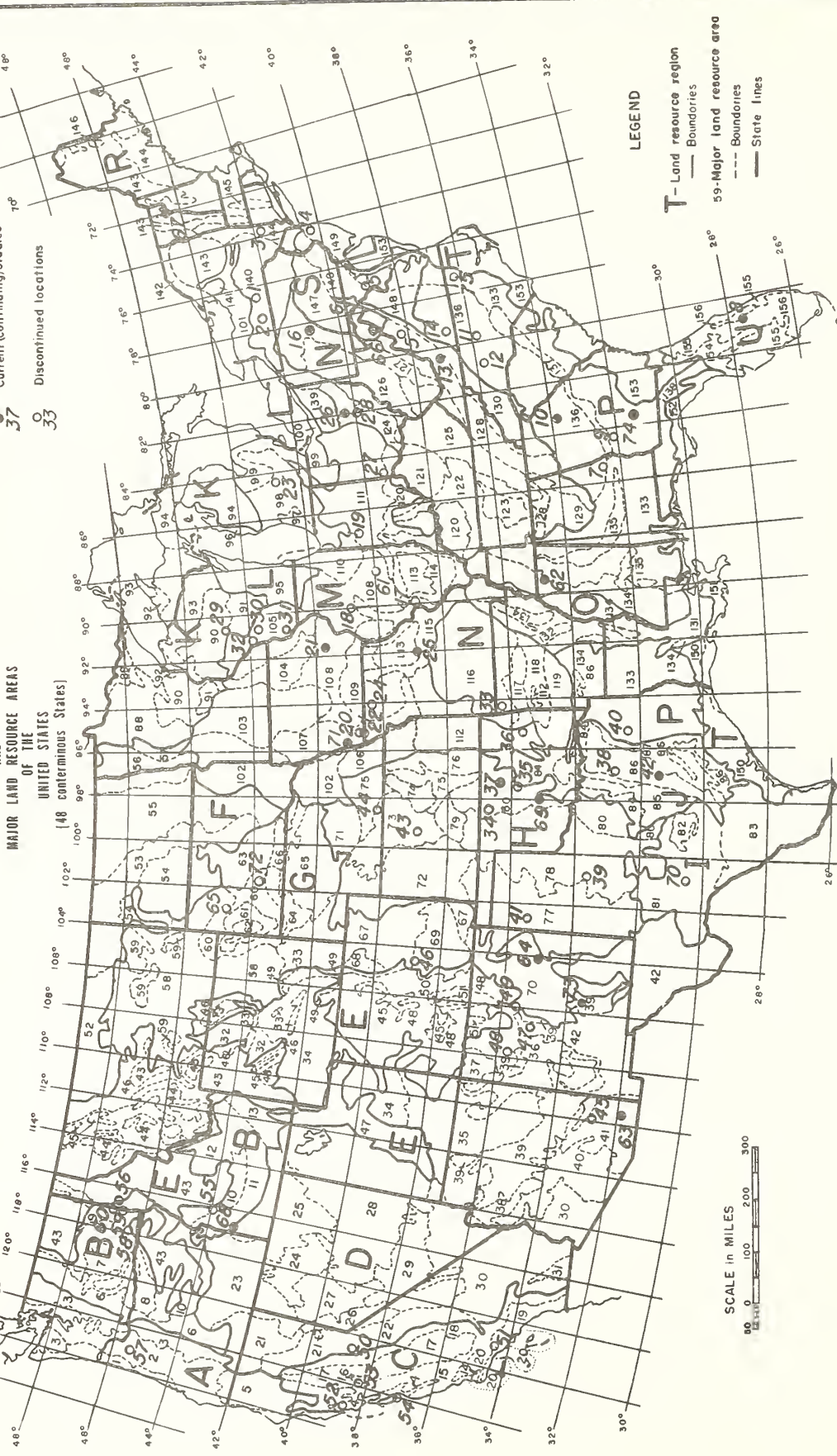
UNITED STATES INDEX MAP AND RELATED DATA

[Pages 20 through 22]

LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE AGRICULTURAL RESEARCH SERVICE (1974)

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

KEY TO RESEARCH LOCATIONS
● 37 Current (continuing) studies
○ 33 Discontinued locations



LEGEND

- T - Land resource region
- Boundaries
- Major land resource area
- Boundaries
- State lines

SCALE IN MILES
0 100 200 300

U. S. Department of Agriculture

Land Resource Area delineations as determined by the Soil Conservation Service

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

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 Siskiyou-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 Coast 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 Inyemountain Desertic Basins
- 33 Semiarid Rocky Mountain Mountains and Plateaus
- 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 Ruchland
- 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

Information from SCS, State, and other Offices

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 Footholes
- 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 Cross Timbers
- 85 Grand Prairie
- 86 Texas Blackland Prairie
- 87 Texas Claypan Area

K NORTHERN LAKE STATES FOREST AND FORAGE REGION

- 88 Northern Minnesota Swampland 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 Plains 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

(Continued)

- 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

EAST AND CENTRAL GENERAL FARMING AND FOREST REGION

- 112 (See M Above)
- 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

MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION

- 131 Southern Mississippi Valley Alluvium
- 132 Eastern Arkansas Prairies
- 134 (See P below)

SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION

- 86 (See J Above)
- 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

NORTHEASTERN FORAGE AND FOREST REGION

- 139 Eastern Ohio Till Plain
- 140 Glaciated Allegheny Plateau and Catskill Mountains
- 141 Tug Hill Plateau
- 142 St. Lawrence-Chemplain Plain
- 143 Northeastern Mountains
- 144 New England and Eastern New York Upland
- 145 Connecticut Valley
- 146 Aroostook Area

NORTHERN ATLANTIC SLOPE TRUCK, FRUIT, AND POULTRY REGION

- 147 Northern Appalachian Ridges and Valleys
- 148 Northern Piedmont
- 149 Northern Coastal Plain

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

FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION

- 154 South Central Florida Ridge
- 155 Southern Florida Flatwoods
- 156 Florida Everglades and Associated Areas

Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1974 and included in this publication

State	Locality	Assigned location number	Major land resource area ^{1/}	Watershed units	Events reported	Pages
Arizona.....	Tombstone	63	D-41	8	18	228-266
Florida.....	Vero Beach.....	08	U-55	3	0	24- 29
Georgia.....	Watkinsville.....	10	P-136	1	1	30- 32
Idaho.....	Reynolds.....	68	D-23, D-25	8	9	270-302
Illinois.....	Monticello.....	61	M-108	2	20	170-210
Iowa.....	Treynor.....	71	M-107	4	0	410-417
Mississippi....	Oxford.....	62	P-133, P-134	5	5	211-227
Missouri.....	McCredie.....	25	M-113	1	1	31- 40
New Mexico.....	Santa Rosa.....	64	G-70	1	1	267-269
Ohio.....	Coshocton.....	26	N-124	6	11	41- 63
Oklahoma.....	Chickasha.....	69	H-78, H-80, J-84	34	29	303-409
	Stillwater.....	37	H-80	2	4	64- 72
Pennsylvania...	Klingerstown.....	16	S-147	1	1	33- 36
Texas.....	Riesel (Waco).....	42	J-86	22	22	73-169

^{1/} 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^{1/}

State	Locality	Major land resource area ^{2/}	Discontinued watershed units ^{3/}		
			Number	Record period (19--)	Assigned location and watershed number
Vermont.....	Danville.....	R-144	4	58-76 60-79 60-75 60-76	67.001 67.003 67.004 67.005

^{1/} For discontinued watershed studies prior to 1973, see tables in previous publications.
^{2/} See location map (p. 20) and legend (p. 21).
^{3/} Data not available for this publication; may be included in future references.

WATERSHED DATA BY LOCATION NUMBER
AND
DECIMAL PAGING

[8.002-1 TO 71.004-2, A TOTAL OF 394 DATA SHEETS]

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

VERO HEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-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 HEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	1.25	0.78	0.10	3.01	4.33	9.64	11.43	7.36	4.74	1.47	1.26	1.42	46.79
	Q	0.074	0.061	0.027	0.111	0.022	0.832	6.832	4.577	0.792	0.826	0.051	0.072	14.277
STA AV	P	1.90	2.36	3.22	1.90	4.53	8.63	6.71	6.86	5.91	4.09	1.35	1.52	48.95
	Q	0.477	0.438	0.998	0.193	0.337	2.066	2.274	2.187	2.545	1.945	1.834	0.202	15.495

NOTES: Watershed conditions: 1974: 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, 1972, USDA Misc. Pub. 1412, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 7 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971; afterwards, use Okeechobee 9 SW).

1974 DAILY AIR TEMPERATURE (degrees F)														VERO HEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-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	88	64	86	63	79	48	93	61	92	62	91	68	86	72	92	73	91	74	86	67	85	63	68	38
2	79	58	84	63	82	46	91	70	91	59	91	69	87	71	91	74	92	73	86	64	86	63	65	38
3	81	63	84	63	80	51	89	71	88	60	93	66	86	72	86	73	94	72	83	62	84	61	64	36
4	85	58	74	42	83	53	89	73	93	63	89	65	86	73	86	74	93	75	81	62	84	58	65	40
5	85	51	75	61	85	52	84	50	90	66	94	70	86	73	91	72	94	75	88	71	87	60	74	54
6	74	63	80	64	85	61	87	49	87	63	95	68	87	71	88	73	94	75	76	72	88	64	76	52
7	86	59	85	68	87	58	89	55	84	57	93	71	91	74	87	75	94	75	78	71	86	60	78	60
8	84	59	85	52	87	61	85	64	89	57	92	69	90	72	90	73	94	75	82	66	85	59	79	45
9	84	57	59	36	88	57	83	48	91	65	90	68	91	74	92	73	94	75	85	65	75	58	65	34
10	84	57	62	38	89	54	80	60	92	66	91	68	89	73	95	74	96	75	83	64	82	55	66	45
11	84	56	69	34	85	60	81	68	92	77	92	67	93	75	93	72	93	74	85	66	86	54	74	48
12	84	58	75	40	86	63	85	70	92	65	92	66	88	71	87	74	94	76	84	62	79	44	78	60
13	80	63	79	42	85	55	89	61	91	63	93	69	86	70	91	69	97	72	85	69	74	50	80	62
14	78	67	81	48	83	64	89	69	90	64	92	68	89	69	95	74	94	72	88	66	84	64	75	66
15	79	59	84	60	74	62	91	64	87	65	87	64	90	74	96	74	93	74	90	71	83	66	74	65
16	85	60	76	54	84	60	92	64	89	66	87	68	90	71	95	73	92	74	91	72	85	62	74	54
17	81	58	70	39	80	41	80	57	88	67	94	70	92	69	93	70	94	70	88	60	84	68	68	34
18	84	58	75	61	80	43	64	52	88	66	94	67	87	72	90	72	94	74	80	58	89	62	66	44
19	83	58	81	54	85	62	83	51	88	65	93	68	90	70	92	74	92	73	82	58	86	62	74	60
20	83	57	82	62	88	66	81	60	89	67	92	70	94	73	94	72	92	74	80	57	87	49	82	67
21	88	59	86	67	91	68	82	60	90	66	88	67	93	72	95	71	90	71	79	66	76	46	75	56
22	87	57	87	46	87	71	87	66	91	68	95	73	93	70	91	73	91	74	78	73	75	44	76	48
23	83	59	77	57	84	70	85	63	87	71	87	73	92	73	89	72	93	74	84	72	79	50	78	58
24	84	65	76	55	90	66	87	56	92	68	80	72	93	73	91	72	90	75	83	71	82	56	80	56
25	80	58	68	33	91	68	83	50	94	67	77	72	95	72	88	71	93	74	84	72	82	58	82	64
26	83	62	58	36	93	65	82	58	95	71	85	76	95	73	92	74	92	75	84	67	78	63	78	62
27	83	67	69	46	92	68	81	53	90	68	87	73	89	72	92	72	93	76	83	64	76	54	80	58
28	83	62	73	48	89	68	83	56	93	68	81	72	90	73	90	74	96	74	82	60	74	52	81	56
29	82	59			89	70	85	52	91	66	90	73	89	74	92	73	94	75	84	63	78	57	80	56
30	87	64			88	53	88	54	93	72	88	73	85	75	92	74	90	69	85	62	70	62	84	60
31	86	64			92	58			92	65			90	72	91	71			86	62			85	58
AV.	83	60	76	51	86	59	85	60	90	66	90	69	90	72	91	73	93	74	84	66	82	57	75	53
MEAN	71.6		63.8		72.7		72.3		78.0		79.6		81.0		82.0		83.5		74.7		69.6		63.9	
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 period from July 1, 1956 through 1974.

1974	DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0 T	0.70	0.04	0.0	0.0 T	0.0 T	0.01
2	0.03	0.0 T	0.0	1.29	0.0	0.25	0.30	0.05	0.0	0.0	0.0	0.0
3	0.0	0.01	0.0	0.0	0.0	0.72	0.37	0.16	0.0	0.0	0.02	0.0
4	0.0	0.0	0.0	0.0	0.10	0.13	0.35	0.24	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.47	0.02	0.15	0.17	0.99	0.08	0.0	0.0	0.0
6	0.12	0.0	0.0	0.0	0.01	0.22	0.58	0.07	0.02	1.14	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.09	0.01	0.11	0.02	0.0	0.0	0.0
8	0.0	0.05	0.0	0.0	0.77	0.0	0.01	0.34	0.17	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.64	0.0	0.01	0.0
10	0.0	0.0	0.0	0.0	0.0	0.09	0.03	0.11	0.0	0.0	0.03	0.0
11	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.08	0.05	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.47	0.0 T	0.0	0.0	0.0	0.0 T
13	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.03
14	0.22	0.0	0.0	0.0	0.18	0.03	0.0	0.0	0.14	0.0	0.0	0.01
15	0.01	0.0	0.10	0.0	0.51	0.22	0.01	0.0	0.0	0.0	0.0	0.31
16	0.0	0.40	0.0	1.23	0.16	0.25	0.27	0.03	0.0	0.07	0.0	0.65
17	0.0	0.0	0.0	0.0	0.0	0.0	1.69	1.12	0.0	0.0	0.0	0.20
18	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.07	0.0	0.0 T	0.27	0.0
19	0.0	0.31	0.0	0.0	0.0	0.0	0.0 T	1.05	0.32	0.0	0.01	0.0
20	0.0	0.01	0.0	0.0	0.0	0.0	0.30	0.0	0.03	0.0	0.01	0.0
21	0.0	0.0	0.0	0.0	0.0	0.08	0.37	0.31	0.01	0.0	0.0	0.04
22	0.0 T	0.0	0.0	0.0	0.0	0.39	1.88	0.0	0.0	0.0 T	0.0	0.0
23	0.0	0.0	0.0	0.02	0.05	0.0	0.04	0.14	0.57	0.0 T	0.0	0.0
24	0.0	0.0	0.0	0.0	0.01	1.11	0.02	0.91	0.0	0.0 T	0.0	0.0
25	0.02	0.0	0.0	0.0	0.0	3.46	0.57	0.18	0.28	0.01	0.0	0.0
26	0.0	0.0	0.0	0.0	0.17	0.55	0.25	0.0	0.18	0.0	0.01	0.03
27	0.0	0.0	0.0	0.0	0.0	0.46	0.42	0.0	0.04	0.23	0.72	0.14
28	0.23	0.0 T	0.0	0.0	0.54	0.68	0.69	0.53	0.50	0.0 T	0.0 T	0.0 T
29	0.32	0.0	0.0	0.0	0.61	0.48	0.55	0.83	0.0	0.0 T	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.12	0.06	0.0	1.66	0.0 T	0.18	0.0
31	0.0	0.0	0.0	0.0	1.20	0.0	0.09	0.0	0.0	0.02	0.0	0.0
TOTAL	1.25	0.78	0.10	3.01	4.33	9.64	11.43	7.36	4.74	1.47	1.26	1.42
STA AV	1.90	2.36	3.22	1.90	4.53	8.63	6.71	6.86	5.91	4.09	1.35	1.52

NOTES: Thiessen weighted rainfall, using 7 rain gages. STA AV based on period July 1, 1955 through 1974.

1974	MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	25.0	43.0	24.0	0.0	4.3	9.1	250.0	398.0	265.0	657.0	0.0	0.0
2	0.0	0.0	0.0	5.0	0.0	0.0	310.0	308.0	155.0	291.0	0.0	0.0
3	0.7	0.0	0.0	45.0	0.0	0.0	760.0	192.0	88.0	101.0	0.0	28.0
4	11.0	14.0	0.0	0.0	0.0	0.0	520.0	196.0	63.0	91.0	2.4	0.0
5	0.0	0.0	0.0	0.0	0.0	28.0	450.0	349.0	38.0	58.0	2.3	0.0
6	0.0	0.0	0.0	28.0	0.0	0.0	380.0	974.0	30.0	100.0	0.0	0.0
7	15.0	0.0	0.0	0.0	0.0	0.0	470.0	697.0	55.0	306.0	0.0	0.0
8	0.0	0.0	9.5	37.0	0.1	0.0	600.0	416.0	11.0	245.0	19.0	0.0
9	0.0	0.0	0.0	0.0	0.0	29.0	350.0	464.0	41.0	148.0	0.0	25.0
10	0.0	28.0	0.0	0.0	0.0	0.0	200.0	315.0	260.0	69.0	0.0	0.0
11	28.0	0.0	0.6	33.0	0.5	0.0	189.0	360.0	134.0	32.0	0.0	0.0
12	0.0	0.0	2.5	0.0	0.0	0.0	237.0	259.0	71.0	25.0	0.0	0.0
13	0.0	16.0	0.0	0.0	0.0	0.0	240.0	224.0	60.0	29.0	17.0	0.0
14	29.0	0.0	0.0	0.0	0.0	1.0	187.0	150.0	51.0	22.0	0.0	0.0
15	0.0	0.0	20.0	34.0	2.3	40.0	230.0	109.0	61.0	33.0	0.0	23.0
16	39.0	0.0	0.0	5.6	24.0	0.0	208.0	85.0	52.0	7.6	0.0	0.0
17	0.0	47.0	0.0	3.0	0.0	0.0	495.0	99.0	33.0	26.0	7.3	32.0
18	0.0	0.0	0.0	36.0	0.0	0.0	1240.0	454.0	28.0	17.0	21.0	25.0
19	30.0	0.0	0.0	0.0	0.0	0.0	1020.0	460.0	22.0	0.0	5.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	690.0	950.0	31.0	0.0	5.8	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	587.0	505.0	33.0	14.0	28.0	0.0
22	0.0	24.0	19.0	34.0	0.0	30.0	557.0	359.0	0.0	0.0	0.0	0.0
23	16.0	0.0	0.0	0.0	0.0	0.0	1370.0	243.0	16.0	7.4	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	1080.0	262.0	51.0	0.0	0.0	0.0
25	0.0	0.0	0.0	17.0	0.0	170.0	802.0	660.0	46.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	480.0	916.0	572.0	53.0	23.0	4.1	36.0
27	0.0	0.0	0.0	0.0	0.0	390.0	766.0	380.0	61.0	0.4	0.0	0.0
28	14.0	0.0	0.0	0.0	0.0	370.0	992.0	339.0	75.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	430.0	1130.0	616.0	185.0	0.0	0.0	32.0
30	0.0	0.0	0.0	34.0	0.6	360.0	1160.0	973.0	157.0	19.0	31.0	0.0
31	0.0	0.0	0.0	0.0	30.0	0.0	812.0	493.0	0.0	0.0	0.0	0.0
MEAN	6.70	6.14	2.44	10.39	1.99	77.90	619.29	414.87	74.20	74.88	4.76	6.48
INCHES	0.074	0.061	0.027	0.111	0.022	0.832	6.832	4.577	0.792	0.826	0.051	0.072
STA AV	0.477	0.438	0.998	0.193	0.337	2.066	2.274	2.187	2.545	1.945	1.834	0.202

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. Rnoff 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	
1974 P	1.56	1.15	0.10	3.83	3.09	10.14	9.81	7.40	5.91	1.17	1.00	1.70	46.86	
Q	0.125	0.074	0.029	0.128	0.001	0.974	8.059	4.667	1.975	1.325	0.022	0.032	17.412	
STA AV P	1.81	2.36	3.18	2.21	4.41	7.97	6.94	6.81	5.67	3.96	1.26	1.47	48.05	
Q	0.431	0.327	0.954	0.175	0.252	1.540	2.237	2.234	2.545	1.748	1.059	0.148	13.650	

NOTES: Watershed conditions: 1974: Improved pasture, 41%; range & forest, 48%; cropland, 1%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USDA Misc. Pub. 1412, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 2 gages through Dec. 31, 1966; 3 gages beginning Jan. 1, 1967. 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).

1974 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	0.0	0.0	0.0	0.0 T	1.15	0.0	0.0	0.0	0.0	0.01		
2	0.04	0.0	0.0	1.71	0.0	0.56	0.35	0.16	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.12	0.43	0.53	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.17	0.38	0.19	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.63	0.01	0.02	0.19	0.85	0.07	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.01	0.0	0.59	0.01	0.01	0.92	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.06	0.04	0.0	0.0	0.0		
8	0.0	0.10	0.0	0.0	0.40	0.0	0.0 T	0.0	0.29	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	2.23	0.0	0.01	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.30	0.10	0.49	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0		
13	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.01		
14	0.09	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.20	0.0	0.0	0.0 T		
15	0.0	0.0	0.10	0.0	0.51	0.29	0.0	0.0	0.0	0.0	0.0	0.35		
16	0.0	0.39	0.0	1.49	0.05	0.16	0.11	0.10	0.0	0.0	0.0	0.80		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.86	1.20	0.0	0.0	0.0	0.19		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.01	0.0		
19	0.0	0.65	0.0	0.0	0.0	0.0	0.0	1.38	0.05	0.0	0.01	0.0		
20	0.0	0.01	0.0	0.0	0.0	0.0	0.21	0.0	0.12	0.0	0.0 T	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.03	0.18	0.0	0.0 T	0.0	0.0	0.11		
22	0.02	0.0	0.0	0.0	0.0	0.23	1.84	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.21	0.12	0.0	0.0	0.01		
24	0.0	0.0	0.0	0.0	0.02	1.05	0.09	0.56	0.0	0.0	0.0	0.0		
25	0.0 T	0.0	0.0	0.0	0.0	4.18	0.44	0.06	0.35	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.70	0.18	0.0	0.11	0.0	0.0	0.05		
27	0.0	0.0	0.0	0.0	0.0	0.77	0.34	0.0	0.01	0.25	0.80	0.16		
28	0.69	0.0	0.0	0.0	0.61	0.64	0.87	1.42	0.68	0.0	0.01	0.01		
29	0.24	0.0	0.0	0.0	0.77	0.48	0.78	0.18	0.0	0.0	0.0	0.0		
30	0.14	0.0	0.0	0.0	0.0	0.30	0.03	0.0	1.57	0.0 T	0.16	0.0		
31	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.56	1.15	0.10	3.83	3.09	10.14	9.81	7.40	5.91	1.17	1.00	1.70		
STA AV	1.81	2.36	3.18	2.21	4.41	7.97	6.94	6.81	5.67	3.96	1.26	1.47		

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 based on period July 1, 1955 through 1974.

1974												
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	3.00	2.80	1.00	0.10	0.20	0.70	111.00	74.00	65.00	109.00	0.50	0.50
2	3.00	2.60	0.90	0.10	0.10	0.80	276.00	51.00	54.00	83.00	0.40	0.40
3	2.60	2.20	0.80	4.10	0.10	2.40	188.00	40.00	45.00	59.00	0.40	0.40
4	2.60	2.00	0.70	3.80	0.10	3.00	170.00	49.00	35.00	44.00	0.40	0.40
5	2.40	1.80	0.60	3.40	0.0	2.60	192.00	90.00	25.00	30.00	0.40	0.40
6	2.40	1.60	0.60	3.40	0.0	2.00	133.00	176.00	17.00	27.00	0.40	0.40
7	2.60	1.00	0.60	3.20	0.0	2.00	149.00	114.00	12.00	65.00	0.40	0.30
8	2.60	1.20	0.60	3.00	0.0	1.80	96.00	82.00	10.00	59.00	0.30	0.30
9	2.20	1.40	0.70	2.60	0.0	1.80	79.00	72.00	62.00	46.00	0.30	0.30
10	2.00	1.40	0.60	2.40	0.0	1.60	63.00	72.00	186.00	34.00	0.30	0.30
11	2.00	1.40	0.60	2.40	0.0	0.90	53.00	140.00	89.00	24.00	0.30	0.30
12	1.80	1.00	0.60	2.20	0.0	0.80	57.00	53.00	63.00	17.00	0.30	0.30
13	2.00	0.70	0.60	2.00	0.0	1.00	89.00	35.00	48.00	14.00	0.30	0.30
14	2.40	0.70	0.50	1.80	0.0	1.00	51.00	24.00	48.00	12.00	0.30	0.30
15	2.40	0.70	0.50	1.40	0.0	0.90	37.00	15.00	30.00	10.00	0.30	0.30
16	2.20	0.60	0.60	1.80	0.0	1.00	27.00	10.00	22.00	8.60	0.30	0.60
17	2.00	1.00	0.60	5.10	0.0	2.40	24.00	15.00	16.00	7.20	0.30	1.60
18	1.80	1.00	0.50	3.40	0.0	2.80	62.00	90.00	13.00	6.50	0.30	1.00
19	1.80	1.00	0.40	2.80	0.0	2.80	59.00	160.00	11.00	5.40	0.40	0.80
20	1.80	1.40	0.40	2.40	0.0	2.20	37.00	272.00	8.90	4.50	0.40	0.70
21	1.40	2.00	0.30	2.20	0.0	2.00	25.00	81.00	8.10	6.20	0.40	0.60
22	1.20	1.80	0.30	2.00	0.0	2.20	149.00	53.00	6.70	3.80	0.40	0.70
23	1.20	1.60	0.30	1.80	0.0	2.00	715.00	40.00	6.20	1.10	0.40	0.60
24	1.20	1.40	0.30	1.60	0.0	2.60	148.00	48.00	5.90	0.10	0.40	0.60
25	1.20	1.00	0.30	1.80	0.0	39.00	100.00	49.00	5.70	0.50	0.40	0.60
26	1.00	1.00	0.30	1.60	0.0	38.00	134.00	40.00	7.50	0.60	0.40	0.50
27	1.00	0.90	0.30	1.20	0.0	68.00	94.00	34.00	6.20	0.60	0.50	0.60
28	1.20	0.90	0.20	0.90	0.0	116.00	147.00	93.00	11.00	0.80	0.60	0.60
29	3.40		0.20	0.60	0.0	87.00	239.00	131.00	66.00	0.60	0.50	0.60
30	3.00		0.10	0.40	0.0	109.00	314.00	113.00	31.00	0.70	0.50	0.50
31	2.80		0.10		0.10		121.00	81.00		0.50		0.40
MEAN	2.07	1.36	0.49	2.18	0.02	16.68	133.52	77.32	33.81	21.96	0.38	0.52
INCHES	0.125	0.074	0.029	0.128	0.001	0.974	8.059	4.667	1.975	1.325	0.022	0.032
STA AV	0.431	0.327	0.954	0.175	0.252	1.540	2.237	2.234	2.545	1.748	1.059	0.148

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

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

LOCATION: 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. 18 min. 40 sec. N.; Long. 80 deg. 53 min. 44 sec. W.

AREA: 22656.00 acres 35.40 sq. miles

		MONTHLY PRECIPITATION AND RUNOFF (inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.83	0.68	0.16	1.95	5.49	9.04	10.96	7.38	4.33	1.65	1.30	1.35	45.12
	Q	0.095	0.075	0.085	0.055	0.038	0.769	6.658	4.002	0.699	0.795	0.096	0.122	13.489
STA AV	P	2.00	2.24	3.01	1.01	4.57	10.34	7.77	7.55	5.01	4.89	1.35	1.34	51.08
	Q	0.550	0.343	0.845	0.178	0.284	2.419	3.045	2.787	1.627	1.834	0.558	0.311	14.779

NOTES: Watershed Conditions: 1974: 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. Pnb. 1383, p. 08.002-3. Precipitation and runoff records began April 1964, part-year records not included in STA AV. Precipitation Thiessen weighted using 2 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971; afterwards use Okeechobee 9 SW).

1974	DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.10	0.0	0.0 T	0.0 T	0.01
2	0.06	0.0	0.0	0.82	0.0	0.05	0.18	0.0	0.0	0.0	0.0	0.0
3	0.0	0.02	0.0	0.0	0.0	1.38	0.32	0.0	0.0	0.0	0.04	0.0
4	0.0	0.0	0.0	0.0	0.02	0.03	0.20	0.22	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.39	0.0	0.38	0.13	0.92	0.06	0.0	0.0	0.0
6	0.12	0.0	0.0	0.0	0.0	0.23	0.50	0.13	0.0	1.28	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.05	0.02	0.0	0.0	0.0
8	0.0	0.04	0.0	0.0	1.01	0.0	0.0	0.71	0.02	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	0.01	0.0
10	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.05	0.0
11	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.13	0.12	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.66	0.0	0.0	0.0	0.0	0.0
13	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
14	0.25	0.0	0.0	0.0	0.26	0.05	0.0	0.0	0.06	0.0	0.0	0.01
15	0.01	0.0	0.16	0.0	0.39	0.16	0.0	0.0	0.0	0.0	0.0	0.27
16	0.0	0.39	0.0	0.70	0.27	0.09	0.59	0.0	0.0	0.22	0.0	0.57
17	0.0	0.0	0.0	0.0	0.0	0.0	2.27	1.15	0.0	0.0	0.0	0.24
18	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.10	0.0	0.01	0.58	0.0
19	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.59	0.22	0.0	0.01	0.0
20	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.01	0.64	0.86	0.0	0.0	0.0	0.01
22	0.0	0.0	0.0	0.0	0.0	0.38	1.70	0.0	0.0	0.0 T	0.0	0.0
23	0.0	0.0	0.0	0.04	0.04	0.0	0.08	0.17	1.30	0.01	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	1.15	0.0	0.78	0.0	0.01	0.0	0.0
25	0.02	0.0	0.0	0.0	0.0	2.82	0.44	0.42	0.18	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.28	0.38	0.12	0.0	0.20	0.0	0.02	0.05
27	0.0	0.0	0.0	0.0	0.0	0.20	0.35	0.0	0.05	0.07	0.39	0.18
28	0.03	0.01	0.0	0.0	1.17	0.80	0.51	0.07	0.20	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.08	0.43	0.34	0.98	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	1.87	0.0	0.20	0.0
31	0.0	0.0	0.0	0.0	1.97	0.0	0.20	0.0	0.0	0.05	0.0	0.0
TOTAL	0.83	0.68	0.16	1.95	5.49	9.04	10.96	7.38	4.33	1.65	1.30	1.35
STA AV	2.00	2.24	3.01	1.01	4.57	10.34	7.77	7.55	5.01	4.89	1.35	1.34

NOTES: For daily air temperatures in the vicinity, see p. 08.002-1. Precipitation values are Thiessen weighted averages of two gages. STA AV based on 10 yr (1965-1974) record period.

1974 MEAN DAILY DISCHARGE (cfs) VERO BEACH, FLORIDA (WILLIAMS DITCH) WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.30	2.10	1.60	1.60	0.90	3.00	68.00	80.00	82.00	126.00	2.10	3.00
2	3.30	2.10	1.60	1.80	0.90	2.40	225.00	62.00	51.00	72.00	2.10	3.00
3	3.30	2.40	1.80	2.40	0.90	2.70	175.00	47.00	31.00	43.00	2.40	3.00
4	3.30	3.00	2.40	3.30	0.90	5.40	148.00	44.00	18.00	25.00	3.30	3.00
5	3.30	3.00	2.70	3.00	0.90	5.00	124.00	63.00	12.00	15.00	3.00	3.00
6	3.30	3.30	2.70	2.40	0.90	6.90	110.00	217.00	10.00	24.00	2.70	2.70
7	3.60	3.30	2.70	2.10	0.90	5.00	170.00	177.00	8.60	128.00	2.40	2.40
8	3.60	3.60	2.40	2.10	1.20	5.00	114.00	134.00	7.70	93.00	2.40	2.40
9	3.60	3.90	2.40	1.80	1.60	3.90	68.00	177.00	7.30	62.00	2.70	2.40
10	3.30	3.30	2.70	1.80	1.60	2.70	51.00	123.00	19.00	41.00	2.70	2.40
11	3.00	3.00	2.70	1.60	1.40	2.70	58.00	88.00	17.00	23.00	2.70	3.90
12	3.00	3.00	3.00	1.80	1.20	3.00	90.00	132.00	13.00	13.00	2.70	3.90
13	3.00	2.70	3.00	1.80	1.20	2.70	259.00	114.00	9.60	10.00	3.30	3.90
14	3.60	2.40	2.40	1.80	1.20	2.40	142.00	71.00	7.70	9.10	3.60	3.90
15	4.60	2.40	3.00	1.80	1.40	2.40	77.00	45.00	6.90	7.70	3.60	4.20
16	5.00	2.70	3.30	1.60	2.10	2.10	59.00	33.00	3.90	6.50	3.30	4.60
17	3.90	3.00	3.30	1.60	1.80	1.80	202.00	41.00	3.30	7.30	3.00	7.70
18	3.60	2.70	3.90	1.60	1.40	1.60	608.00	144.00	3.60	6.50	2.70	6.90
19	2.70	2.40	3.90	1.60	1.20	1.60	454.00	114.00	3.30	5.70	5.00	5.40
20	2.40	2.70	3.60	1.60	1.20	1.80	301.00	117.00	5.00	4.60	5.00	4.60
21	2.10	2.40	3.30	1.40	0.90	2.10	193.00	87.00	4.60	4.20	3.90	4.20
22	2.10	2.10	2.70	1.20	0.70	2.40	201.00	150.00	4.20	3.90	3.30	3.90
23	2.10	1.80	2.40	1.20	0.70	2.40	715.00	83.00	8.70	3.60	2.70	3.60
24	2.10	1.60	2.40	1.20	0.70	2.20	482.00	93.00	58.00	3.60	2.70	3.60
25	2.10	1.60	2.40	1.20	0.70	70.00	272.00	259.00	43.00	3.60	2.70	3.30
26	2.10	1.60	2.10	1.40	0.70	140.00	195.00	296.00	55.00	3.30	2.70	3.30
27	1.80	1.60	1.80	1.40	0.70	110.00	128.00	159.00	49.00	3.00	3.00	3.60
28	2.10	1.60	2.10	1.40	0.90	108.00	155.00	100.00	62.00	2.70	3.30	3.90
29	2.10		2.40	1.20	1.40	124.00	212.00	103.00	34.00	2.40	3.00	3.90
30	1.90		2.10	1.20	1.60	87.00	175.00	301.00	27.00	2.10	3.00	3.60
31	1.80		1.80		2.10		107.00	155.00		2.10		3.30
MEAN	2.93	2.55	2.60	1.73	1.16	24.40	204.45	122.87	22.18	24.42	3.03	3.76
INCRS	0.095	0.075	0.085	0.055	0.038	0.769	6.658	4.002	0.699	0.795	0.096	0.122
STA AV	0.550	0.343	0.845	0.178	0.284	2.419	3.045	2.787	1.627	1.834	0.558	0.311

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00105056. Rnooff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 10 yr (1965-1974) record period.

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

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

AREA: 19.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	3.61	4.92	2.34	4.26	5.83	4.75	6.42	6.39	2.05	0.36	3.79	5.25	49.97
	Q	0.170	0.038	0.002	0.049	0.025	0.072	0.363	0.179	0.0	0.0	0.001	0.010	0.910
STA AV	P	4.80	4.61	5.96	4.34	4.04	3.81	4.96	3.94	3.17	2.77	3.55	4.76	50.72
	Q	0.471	0.361	0.658	0.417	0.359	0.203	0.361	0.300	0.033	0.057	0.272	0.268	3.761

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 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.								
1974	7-27	0.560	7-27	0.340	7-27	0.352	7-27	0.352	7-27	0.352	7-26	0.363	7-25	0.363	7-19	0.363

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		
4-25 1945	2.710	6-26 1963	1.840	6-26 1963	2.540	6-26 1963	3.480	6-26 1963	3.740	6-26 1963	3.780	11-26 1948	5.680	11-22 1948	6.640

NOTES: Watershed conditions: 1974: Excellent coastal bermudagrass pasture. Fertilized and cut as follows: Jan. 11 2500 lbs. ammonia nitrate, May 23 7 tons NaNO₃, July 30 31 tons of hay cut, Aug. 6 4000 lbs. NH₄NO₃, Sept. 11 20 tons of hay cut, Nov. 14 19 tons CaCO₃, Dec 4 drilled w/ 42 bn. of rye. A total of 11226 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 (1940-74).

1974 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	59	39	70	35	71	46	86	50	83	59	82	67	88	61	90	66	86	70	76	44	82	47	40	33
2	44	39	73	55	72	51	77	61	81	58	82	66	92	64	86	69	85	70	68	44	84	47	38	35
3	49	39	71	42	74	53	80	64	85	60	80	67	86	64	81	70	81	64	64	37	83	49	53	33
4	57	47	48	33	78	44	75	60	82	55	79	63	84	70	86	67	81	58	65	32	79	48	56	22
5	47	46	57	27	78	57	61	46	69	51	80	56	83	70	86	69	66	61	72	34	69	53	52	23
6	59	46	49	31	81	53	59	39	74	44	81	64	86	69	82	67	65	60	78	40	67	43	50	21
7	58	37	56	46	81	55	68	33	73	43	83	66	85	68	76	66	71	64	82	44	64	34	44	39
8	57	32	55	33	83	48	67	50	77	45	85	63	85	68	80	68	76	64	70	48	63	39	52	40
9	57	43	40	26	84	50	57	41	80	60	88	63	90	67	85	71	78	66	75	41	67	32	45	30
10	68	55	51	22	86	55	67	37	83	59	86	67	89	69	89	68	86	63	78	43	67	32	54	24
11	66	52	55	35	69	54	69	36	83	57	82	59	89	70	82	71	89	64	81	46	68	33	54	32
12	52	33	64	25	76	46	74	53	77	61	82	56	86	68	84	70	88	65	80	47	56	40	53	43
13	47	30	67	35	62	40	78	62	81	52	81	60	86	68	87	71	89	66	81	51	59	32	54	34
14	36	32	65	53	64	37	76	64	81	48	86	59	90	68	80	68	85	67	79	51	63	36	58	29
15	58	36	66	48	68	32	67	50	81	58	83	62	92	67	87	67	83	65	80	58	52	27	42	36
16	66	56	50	37	62	43	70	44	84	61	85	66	33	67	84	70	82	65	72	52	59	23	53	32
17	73	56	57	36	53	35	65	46	84	61	79	53	88	67	88	68	84	66	73	46	68	42	42	27
18	56	48	60	30	66	35	71	37	89	64	83	51	89	67	89	66	81	60	79	44	55	50	48	25
19	56	48	66	48	70	58	76	41	91	68	88	58	93	67	89	66	82	56	66	39	62	52	40	35
20	60	52	63	37	77	61	75	46	78	65	93	63	90	72	81	69	85	57	67	32	68	44	46	40
21	68	46	67	33	70	41	73	47	78	66	90	63	92	64	83	67	87	63	58	31	59	38	55	39
22	70	38	65	43	63	33	76	56	80	65	92	67	80	66	87	65	70	57	63	28	68	36	61	28
23	66	41	62	33	59	40	72	54	83	68	82	65	80	65	87	64	72	50	73	29	67	31	64	27
24	73	57	65	31	65	43	68	44	88	63	80	58	84	70	88	66	61	52	75	34	69	33	63	48
25	68	54	39	24	50	37	71	33	83	64	81	60	83	68	91	67	62	51	79	40	56	33	67	40
26	62	52	48	18	59	40	78	38	70	56	82	54	85	70	90	68	68	57	82	44	52	26	48	33
27	71	58	57	21	64	45	85	46	76	57	78	56	81	71	92	68	71	63	82	48	52	22	54	44
28	67	53	65	25	73	54	84	49	79	52	79	53	90	68	91	71	84	67	78	50	57	27	62	50
29	56	47			75	52	82	51	83	56	83	55	91	69	88	70	80	58	78	48	57	24	56	52
30	66	40			72	50	81	58	87	63	86	57	92	68	88	69	79	46	79	55	50	39	68	55
31	67	36			77	52			88	66			88	63	88	70			80	50			67	54
AV.	60	45	59	34	70	46	73	48	81	58	83	61	85	68	86	68	79	61	75	43	64	37	53	36
MEAN	52.4		46.7		58.5		60.4		69.7		72.0		76.5		77.1		69.9		58.8		50.6		44.3	
STA AV	53	34	55	32	64	41	73	47	79	55	86	64	89	69	87	68	84	64	75	51	63	39	56	37

NOTES: STA AV based on 6 yr (1969-74) record period.

1974 DAILY PRECIPITATION (inches) WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.11	0.0	0.0	0.0	0.02	0.0	0.0	0.43	0.0	0.0	0.03
2	0.0	0.21	0.0	0.80	0.11	0.12	0.01	0.06	0.01	0.0	0.0	0.0
3	0.40	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.21	0.0	0.0	0.0
4	0.23	0.0	0.0	1.51	0.48	0.0	0.03	0.10	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.20	0.06	0.0	0.32	0.0
6	0.0	1.57	0.0	0.0	0.0	0.03	0.17	0.0	0.88	0.0	0.0	0.0
7	0.35	0.39	0.0	0.0	0.0	0.45	0.0	0.90	0.07	0.0	0.0	0.48
8	0.0	0.08	0.0	0.40	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0
9	0.06	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.80	0.0	0.0	0.0	0.0
11	0.14	0.0	0.0	0.0	0.14	0.0	0.03	0.0	0.0	0.0	0.32	0.0
12	0.0	0.0	0.15	0.11	0.50	0.0	0.0	0.01	0.0	0.0	0.0	0.06
13	0.0	0.0	0.0	1.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.30	0.37	0.0	0.0	0.0	0.05	0.0	0.32	0.08	0.0	0.28	0.0
15	0.0	0.65	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.27
16	0.0	0.77	0.0	0.0	0.0	0.0	0.0	2.20	0.0	0.36	0.0	0.0
17	0.0	0.02	0.0	0.0	0.0	0.0	0.12	0.71	0.0	0.0	0.28	0.0
18	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.53	0.0
19	0.0	0.16	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.92
20	0.76	0.0	0.02	0.0	0.0	0.54	0.0	0.07	0.0	0.0	0.62	0.25
21	0.27	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0
22	0.0	0.57	0.0	0.33	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	2.73	0.0	0.17	0.0	0.0	0.0	0.0	0.0
24	0.29	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	1.03
25	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.16
26	0.16	0.0	0.0	0.0	0.32	0.0	2.35	0.0	0.0	0.0	0.0	0.0
27	0.08	0.0	0.10	0.0	0.0	3.22	3.38	0.0	0.09	0.0	0.0	0.0
28	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14
29	0.26	0.0	0.74	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.89
30	0.0	0.0	0.04	0.0	0.01	0.0	0.0	0.18	0.0	0.0	1.42	0.02
31	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.61	4.92	2.34	4.26	5.83	4.75	6.42	6.39	2.05	0.36	3.79	5.25
STA AV	4.80	4.61	5.96	4.34	4.04	3.81	4.96	3.94	3.17	2.77	3.55	4.76

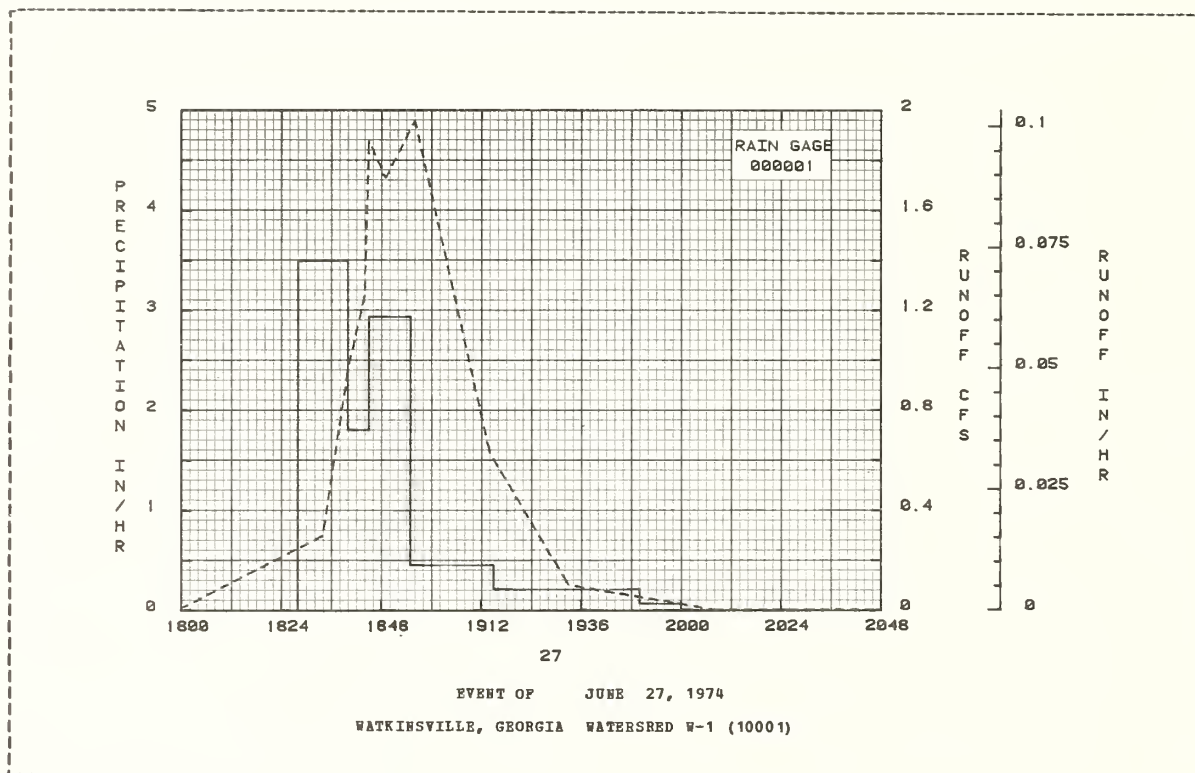
NOTES: Daily precipitation values from rain gage R1-W1. STA AV based on 35 yr (1940-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.134	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	0.003	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	0.029	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 T	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.001	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	0.003	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.007	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
16	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.141	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	0.001
20	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.002	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	0.018	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 T
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	0.008	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.058	0.284	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	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0044	0.0011	0.0001	0.0013	0.0007	0.0019	0.0094	0.0047	0.0	0.0	0.0	0.0003
INCHES	0.170	0.038	0.002	0.049	0.025	0.072	0.363	0.179	0.0	0.0	0.001	0.010
STA AV	0.471	0.361	0.658	0.417	0.359	0.203	0.361	0.300	0.033	0.057	0.272	0.268

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.239669. STA AV based on 35 yr (1940-74) record period.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 27, 1974										
6-27	1.60	0.015	6-27	1800	0.0	0.0	6-27	1800	0.011	0.0
				1828	0.0	0.0		1834	0.298	0.0045
				1840	3.5000	0.70		1840	0.964	0.0077
				1845	1.8001	0.85		1844	1.259	0.0115
				1855	2.9399	1.34		1845	1.882	0.0131
WATERSHED CONDITIONS:										
Dormant Coastal				1915	0.4500	1.49	1849	1.733	0.0193	
Bermudagrass.				1950	0.2057	1.61	1856	1.961	0.0301	
Excellent cover.				2000	0.0601	1.62	1914	0.626	0.0502	
							1933	0.103	0.0562	
							2008	0.0	0.0577	
							2030	0.0	0.0577	

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



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
1974	P	2.85	1.29	4.92	2.31	3.60	5.49	3.11	2.93	4.57	1.30	2.45	3.23	38.05	2.85	1.29	4.92	2.31	3.60	5.49	3.11	2.93	4.57	1.30	2.45	3.23	38.05		
	Q	3.385	1.171	3.170	3.158	0.914	0.554	0.909	0.472	0.469	0.327	0.598	2.013	17.141	3.385	1.171	3.170	3.158	0.914	0.554	0.909	0.472	0.469	0.327	0.598	2.013	17.141		
STA AV	P	2.09	2.02	2.92	3.09	4.21	6.16	3.50	3.15	4.18	2.27	3.92	3.51	41.03	2.09	2.02	2.92	3.09	4.21	6.16	3.50	3.15	4.18	2.27	3.92	3.51	41.03		
	Q	1.745	2.416	2.935	2.428	1.702	2.902	0.691	0.472	0.755	0.345	1.480	2.885	20.756	1.745	2.416	2.935	2.428	1.702	2.902	0.691	0.472	0.755	0.345	1.480	2.885	20.756		

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

Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval							
		1 Runr Date Vol.	2 Runrs Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.	
1-21 1974	0.040	1-21 0.038	1-21 0.069	1-21 0.160	1-21 0.271	1-21 0.447	1-21 0.759	3-30 1.756	

MAXIMUMS FOR PERIOD OF RECORD

6-22 1972	0.917	6-22 1972	0.786	6-22 1972	1.484	6-22 1972	3.411	6-22 1972	6.373	6-22 1972	10.432	6-22 1972	12.378	6-21 1972	14.330
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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 HB37 and HE37. Length of record 7 yr (1968-74). For long-time precipitation records, see National Weather Service records at Selinsgrove, CAA Airport, Pennsylvania.

1974 DAILY AIR 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	36	26	42	29	46	35	68	42	68	55	81	60	83	56	80	63	55	38	76	54	40	29	
2	30	20	33	24	36	28	63	38	60	35	65	52	85	56	84	62	72	60	50	32	70	52	44	34	
3	30	25	26	19	48	32	72	42	57	40	74	46	88	64	82	68	68	53	43	29	64	56	41	28	
4	30	19	22	11	71	43	72	62	55	40	78	53	88	66	79	60	64	48	55	23	69	57	38	26	
5	31	16	24	10	66	38	64	42	54	29	78	55	80	66	75	56	68	42	71	38	62	50	42	24	
6	30	26	30	14	52	30	42	34	54	38	78	52	80	60	75	53	61	52	76	44	54	44	43	22	
7	30	20	31	20	67	45	61	26	50	32	70	56	86	57	78	60	71	52	62	44	50	41	50	32	
8	22	13	22	15	54	32	52	34	60	28	76	60	88	62	74	58	74	57	54	36	56	38	56	38	
9	28	17	25	12	35	30	38	26	56	49	87	60	89	62	79	61	74	56	60	32	54	37	38	26	
10	30	23	26	8	44	30	46	25	61	41	90	65	86	64	77	61	74	56	68	39	59	32	30	22	
11	34	27	27	22	43	22	NR	NR	67	35	75	53	72	56	75	53	76	54	69	41	56	41	43	20	
12	27	13	42	20	40	20	NR	NR	64	46	71	48	77	49	76	52	84	64	70	48	51	42	46	35	
13	19	7	54	32	34	16	NR	NR	57	45	74	44	82	51	82	64	82	62	67	54	44	34	40	37	
14	30	8	42	20	44	20	NR	NR	77	45	77	54	90	56	82	62	66	48	65	54	46	32	37	31	
15	46	23	29	14	48	20	NR	NR	82	58	78	60	84	64	80	58	68	44	62	47	36	27	35	30	
16	49	32	30	16	44	30	58	37	80	56	69	59	76	58	82	56	70	48	49	41	44	28	42	32	
17	40	18	38	26	34	28	62	26	85	62	70	52	77	51	80	64	74	50	65	40	43	29	39	28	
18	28	16	35	21	43	26	67	28	78	56	73	47	84	62	80	57	72	52	49	26	50	28	32	21	
19	36	28	41	30	48	27	53	38	74	51	78	53	86	63	84	58	74	48	42	24	48	30	30	21	
20	32	28	42	33	49	26	62	23	70	44	82	61	72	52	85	59	76	62	40	27	48	42	36	23	
21	39	30	46	25	40	30	74	28	74	46	75	62	76	47	83	60	72	44	44	26	42	34	39	27	
22	43	36	58	38	42	26	72	55	84	55	81	60	80	52	76	63	62	40	60	27	38	25	38	26	
23	47	36	39	26	55	34	56	40	74	55	62	56	65	59	83	65	50	36	58	39	48	21	39	24	
24	36	32	38	20	52	21	46	39	73	53	74	52	68	59	81	62	54	28	59	38	58	36	44	35	
25	45	27	31	20	36	14	58	32	59	45	60	54	75	58	80	55	60	38	56	39	51	27	39	29	
26	42	29	30	15	53	22	66	46	64	42	70	52	72	62	78	64	68	44	56	38	29	20	34	23	
27	60	40	40	16	46	24	70	38	62	46	73	52	84	66	83	68	74	46	64	37	36	16	35	24	
28	46	37	47	30	44	33	82	50	67	40	66	54	86	62	80	66	67	61	61	39	40	23	39	24	
29	45	34			34	24	86	60	62	52	71	54	80	60	81	65	72	51	68	47	38	25	42	24	
30	51	33			38	30	80	60	76	56	79	53	79	59	72	59	60	41	67	54	33	20	44	30	
31	58	31			38	32			66	58			80	56	80	59			70	49				33	26
AV.	37	25	35	21	46	28	62	39	67	46	74	54	81	59	80	60	70	50	59	38	50	35	40	27	
MEAN	31.0		28.0		36.9		50.3		56.3		64.3		69.6		69.9		59.8		48.8		42.3		33.6		
STA AV	33	19	34	20	44	29	59	39	66	48	76	57	81	61	79	60	73	54	61	43	48	34	38	26	

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 2400 the preceding day to 2400 the date shown. Data recorded at HB37 meteorological station. STA AV based on 7 yr (1968-74) 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

1974 DAILY PRECIPITATION (inches) KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.05	0.0	0.20	0.0	0.05	0.08	0.05	0.0	0.71	0.05	0.0	0.15
2	0.0	0.05	0.05	0.05	0.05	0.0	0.0	0.95	0.05	0.15	0.15	0.25H
3	0.40	0.05	0.0	0.10	0.15	0.05	0.0	0.49	1.06	0.0	0.20	0.0
4	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0
5	0.0	0.0	0.05	0.60	0.0	0.0	0.16	0.0	0.0	0.0	0.10E	0.0
6	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.15	0.0	0.0	0.0
7	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.0	0.15	0.0	0.0	0.30
8	0.20	0.0	1.11	0.36	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.99
9	0.20	0.0	0.50	0.45	0.40	0.0	0.0	0.10	0.0	0.0	0.0	0.0
10	0.45	0.05	0.0	0.05R	0.05	0.44	0.0	0.0	0.0	0.0	0.0	0.0
11	0.35	0.05S	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	1.39	0.0	0.0	0.0	0.10	0.0	0.70	0.05
13	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.65	0.0	0.10	0.0
14	0.0	0.0	0.0	0.10	0.0	0.0	0.10	0.0	0.10	0.0	0.30	0.10
15	0.0	0.0	0.0	0.0	0.0	0.53	0.10	0.0	0.0	0.20	0.10H	0.10
16	0.0	0.0	0.55	0.0	0.0	0.63	0.0	0.0	0.0	0.70	0.0	0.70H
17	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.05	0.0	0.0	0.0	0.0
18	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.10	0.30	0.0	0.10	0.0	0.10	0.10	0.0	0.0	0.0	0.10	0.0
20	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.29	0.0	0.45	0.0
21	0.85	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.05	0.0
22	0.0	0.69	0.0	0.10	0.15	0.05	0.0	0.53	0.10	0.0	0.05L	0.10
23	0.0	0.0	0.0	0.0	0.40	0.85	0.21	0.02	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.25	0.15	0.0	0.0	0.0	0.0	0.0
25	0.0	0.10S	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.20	0.10	0.10
26	0.15	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	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.25	0.0	0.0	0.05	0.0	0.85	0.79	0.10	0.66	0.0	0.0	0.0
29	0.0	0.0	0.10	0.0	0.40	0.0	1.40	0.39	0.15	0.0	0.0	0.0
30	0.0	0.0	1.21	0.05	0.0	1.21	0.0	0.30	0.0	0.0	0.0	0.0
31	0.0	0.0	0.35	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.39
TOTAL	2.85	1.29	4.92	2.31	3.60	5.49	3.11	2.93	4.57	1.30	2.45	3.23
STA AV	2.09	2.02	2.92	3.09	4.21	6.16	3.50	3.15	4.18	2.27	3.92	3.51

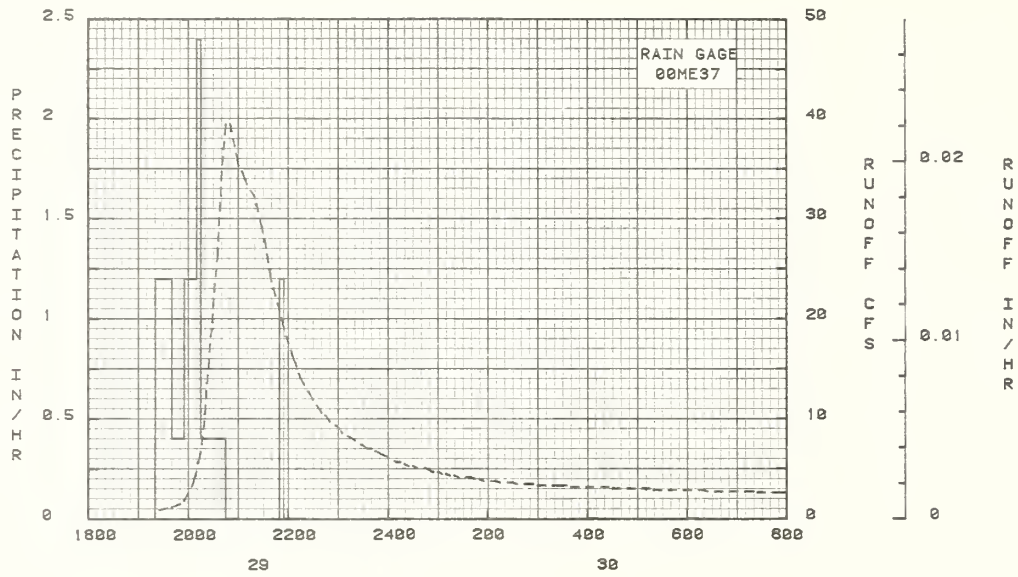
NOTES: Precipitation values are Thiessen weighted average of rain gages MB37 and ME37. STA AV based on 7 yr (1968-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.656	6.697	3.412	25.491	1.594	1.914	13.297	1.013	1.318	1.050	0.551	1.289
2	6.868	5.758	3.047	17.781	1.467	1.296	7.039	2.726	0.983	1.065	0.551	2.279
3	6.250	4.909	2.972	12.537	1.631	1.177	4.373	3.933	3.382	1.020	0.916	1.661
4	5.550	4.090	2.980	11.822	1.453	1.073	3.307E	3.955	2.041	0.916	0.708	1.415
5	4.767	3.583	3.032	16.157	1.341	0.991	2.927E	2.786	1.445	0.901	0.700	1.385
6	4.380	3.285	2.913	17.014	1.408	0.939	2.726E	1.914	1.207	0.872	0.588	1.408
7	3.978	3.240	3.009	12.246	1.281	0.909	2.518E	1.497	1.378	0.849	0.551	1.490
8	3.345	2.965	8.239	10.064	1.199	0.887	2.339E	1.311	1.058	0.805	0.521	19.226
9	3.322	2.667	25.044	14.794	1.527	0.857	2.153E	1.244	0.961	0.767	0.492	17.200
10	3.382	2.376	25.729	13.535	1.371	1.065	1.981E	1.117	0.901	0.745	0.499	8.805
11	6.808	2.346	16.373	11.188	1.207	0.939	1.818E	0.976	0.819	0.663	0.507	5.892
12	5.363	2.138	11.136	9.185	5.624	0.827	1.661E	0.924	0.827	0.596	1.564	4.596
13	3.836	2.138	8.149	8.082	5.684	0.752	1.520E	0.894	1.333	0.574	1.415	3.628
14	3.486	1.900	6.749	7.002	4.767	0.678	1.385E	0.819	1.490	0.574	1.341	3.419
15	3.300	1.661	5.669	6.019	4.030	0.663	1.244E	0.693	1.021	0.603	1.981	2.868
16	3.777	1.669	7.188	4.894	3.382	1.512	1.132E	0.663	0.939	1.646	1.751	8.924
17	5.088	1.669	6.198	4.246	3.084	1.713	1.013E	0.685	0.879	1.073	1.713	13.409
18	4.551	1.557	5.289	3.814	2.860	1.050	0.909E	0.618	0.857	0.886	1.572	9.899
19	4.798	1.914	5.147	3.613	2.548	0.953	0.775	0.499	0.790	0.842	1.475	6.943
20	4.239	1.788	4.559	3.211	2.220	0.968	0.678	0.529	0.991	0.819	2.816	5.192
21	24.515	1.512	8.216	3.039	2.049	0.946	0.611	0.440	1.363	0.730	3.389	4.358
22	25.297	5.877	8.224	2.994	2.034	0.864	0.574	0.655	1.065	0.708	3.270	3.680
23	19.911	4.574	8.134	2.875	2.317	1.832	0.663	0.708	0.924	0.715	2.890	3.151
24	14.771	3.836	7.144	2.525	1.840	1.214	0.730	0.536	0.805	0.700	2.577	2.979
25	12.030	3.717	5.631	2.197	1.624	1.594	0.618	0.462	0.805	0.730	2.443	2.950
26	9.915	3.300	5.132	2.004	1.497	1.371	0.596	0.454	0.790	0.670	1.914	2.421
27	10.108	3.047	4.447	1.840	1.415	1.251	0.559	0.432	0.693	0.611	1.654	2.190
28	11.017	3.047	4.037	1.743	1.318	2.302	1.222	0.477	1.467	0.596	1.594	2.027
29	10.913	3.710	1.691	1.512	1.512	3.173	3.680	0.760	1.311	0.574	1.385	1.855
30	9.863	5.617	1.676	1.378	1.378	5.535	2.414	0.834	1.110	0.551	1.192	1.728
31	8.194	19.025	1.385	1.385	1.385	1.274	0.574	0.574	0.544	0.544	1.691	1.691
MEAN	8.1351	3.1164	7.6177	7.8426	2.1951	1.3748	2.1850	1.1332	1.1650	0.7870	1.4841	4.8373
INCHES	3.385	1.171	3.170	3.158	0.914	0.554	0.909	0.472	0.469	0.327	0.598	2.013
STA AV	1.745	2.416	2.935	2.428	1.702	2.902	0.691	0.472	0.755	0.345	1.480	2.885

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 based on 7 yr (1968-74) record period.

1974 SELECTED RUNOFF EVENT			KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 29 - 30, 1974										
7-29	RG 00HE37 0.10	0.010	7-29	RG 00HE37 1920	0.0	0.0	7-29	1925	0.976	0.0
				1925	1.2001	0.10		1935	1.127	0.0001
				1935	1.2000	0.30		1940	1.208	0.0001
				1940	1.2001	0.40		1950	1.565	0.0002
				1955	0.4000	0.50		1955	1.871	0.0003
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%.										
				2000	1.2001	0.60		2005	3.453	0.0006
				2005	1.1999	0.70		2010	4.852	0.0008
				2010	1.2001	0.80		2015	6.785	0.0010
				2015	2.4000	1.00		2020	10.628	0.0014
				2030	0.4000	1.10		2025	15.996	0.0020
				2045	0.4000	1.20		2030	21.255	0.0029
				2150	0.0	1.20		2035	26.379	0.0040
				2155	1.2001	1.30		2040	34.742	0.0054
								2045	39.445	0.0072
								2050	39.445	0.0090
								2100	35.378	0.0125
								2105	34.742	0.0141
								2110	33.470	0.0157
								2120	32.198	0.0188
								2130	28.635	0.0217
								2135	26.379	0.0229
								2140	23.732	0.0241
								2145	22.246	0.0252
								2150	20.793	0.0262
								2155	18.944	0.0271
								2205	16.395	0.0287
								2210	15.199	0.0295
								2215	14.045	0.0302
								2225	12.608	0.0314
								2230	11.925	0.0320
								2240	10.628	0.0330
								2245	10.321	0.0335
								2250	9.718	0.0340
								2300	9.137	0.0348
								2305	8.578	0.0353
								2335	7.028	0.0374
								2340	7.028	0.0378
								2345	6.785	0.0381
								2400	6.098	0.0390
							7-30	10	5.663	0.0395
								15	5.663	0.0398
								20	5.451	0.0401
								25	5.248	0.0403
								30	5.248	0.0406
								35	5.045	0.0408
								45	5.045	0.0413
								55	4.659	0.0417
								100	4.659	0.0419
								105	4.475	0.0421
								110	4.475	0.0423
								115	4.291	0.0426
								120	4.291	0.0428
								125	4.116	0.0429
								140	4.116	0.0435
								145	3.942	0.0437
								150	3.942	0.0439
								155	3.776	0.0441
								210	3.776	0.0446
								215	3.610	0.0448
								230	3.610	0.0453
								235	3.453	0.0454
								255	3.453	0.0461
								300	3.297	0.0462

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



EVENT OF JULY 29 - 30, 1974
KLINGENSTOWN, PENNSYLVANIA WATERSHED WE-38

MCCREDIE, MISSOURI STATION RESERVOIR W-1

LOCATION: Callaway County, Mo.; 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missouri 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		STATION RESERVOIR W-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1974	P	3.66	2.38	2.11	3.28	6.64	3.89	1.70	7.09	0.95	1.30	3.65	1.69	38.34			
	Q	4.836	1.460	0.773	0.355	2.128	1.550	0.012	0.273	0.035	0.0	0.550	0.441	12.413			
STA AV	P	1.52	1.56	2.81	3.67	4.36	4.40	3.62	2.86	3.89	3.51	2.09	1.80	36.09			
	Q	0.690	0.687	1.258	1.124	0.924	1.000	0.502	0.126	0.503	1.039	0.433	0.448	8.734			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
	5-30	0.310	5-30	0.284	5-30	0.512	5-30	1.259	5-30	1.391	5-30	1.418	1-16	1.732	1-16	3.165

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

NOTES: Watershed conditions: 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. Previous published runoff amounts and rates were computed with a variable watershed area equal to the total area less the reservoir surface area, which was a function of reservoir stage. For topographic map of watershed, see Hydrologic 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 (1890-1974).

1974 DAILY AIR TEMPERATURE (degrees F)														MCCREDIE, MISSOURI		STATION RESERVOIR W-1								
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	7	-14	53	23	56	32	61	54	70	45	72	54	90	60	89	65	68	58	60	37	70	53	32	30
2	17	9	53	27	74	46	75	41	70	52	77	53	93	71	85	65	66	47	60	29	66	48	31	23
3	20	9	34	28	78	58	75	56	64	50	79	55	93	72	84	54	62	45	59	32	60	47	28	7
4	21	-2	31	14	74	46	72	36	65	45	79	61	92	66	75	52	63	40	74	48	44	42	37	8
5	28	10	58	27	63	35	46	33	70	45	78	64	82	62	82	54	68	44	74	52	42	33	44	22
6	24	17	58	24	79	45	62	26	62	47	79	63	85	60	82	59	71	45	72	57	50	40	41	36
7	18	2	24	17	83	50	62	47	70	46	77	63	91	66	76	63	76	54	58	35	49	31	39	36
8	27	9	24	15	81	62	49	36	70	54	75	61	92	70	85	61	76	54	66	32	58	31	38	19
9	27	5	30	19	73	58	63	29	62	45	77	66	91	69	84	68	74	58	67	46	54	34	37	15
10	16	9	44	26	70	42	67	41	62	43	74	59	95	69	83	68	81	62	71	36	51	45	50	26
11	16	6	54	19	60	44	65	50	70	60	76	55	94	71	85	67	81	64	77	44	54	46	48	31
12	11	-13	61	35	60	39	66	55	69	48	76	53	96	69	88	65	78	66	77	57	52	34	39	34
13	29	6	61	34	46	32	80	44	86	46	79	56	96	70	87	68	77	47	73	54	46	28	46	31
14	40	18	57	29	53	29	80	42	86	57	85	63	96	70	85	65	66	41	61	52	36	25	46	28
15	44	32	40	29	53	44	60	38	69	47	81	61	98	72	85	64	68	46	58	37	49	25	46	34
16	50	34	46	28	46	30	60	42	85	65	79	52	88	63	82	66	65	56	67	37	45	36	33	31
17	50	31	60	26	43	26	63	38	85	64	75	52	93	60	83	64	75	52	72	42	54	34	31	22
18	55	41	46	42	69	29	69	45	77	62	84	56	97	71	82	62	82	54	72	39	57	36	40	18
19	44	34	44	32	69	33	74	49	83	67	85	66	98	74	88	59	82	55	63	36	60	49	38	23
20	42	36	54	27	40	22	80	55	88	66	91	74	97	74	90	65	72	58	60	38	59	38	42	30
21	39	34	54	37	36	22	79	57	87	67	91	74	97	72	90	67	69	47	61	34	52	31	37	30
22	44	38	41	30	49	24	67	50	78	60	86	71	92	73	89	68	66	37	71	39	68	32	59	25
23	41	27	39	22	49	15	67	43	79	58	71	53	92	64	83	65	64	37	70	49	70	54	37	29
24	46	24	35	12	28	5	62	33	76	54	70	51	86	61	81	63	64	42	73	54	69	35	36	28
25	51	26	29	7	45	15	75	47	76	55	72	52	84	61	86	64	71	52	72	56	41	24	28	19
26	51	34	50	16	62	33	80	50	64	55	76	53	90	65	88	70	71	48	71	46	52	27	30	15
27	42	34	57	37	71	41	82	58	72	57	80	56	96	66	87	71	70	51	72	48	49	29	36	29
28	35	33	57	43	71	52	81	62	81	66	82	55	98	68	81	61	69	56	70	48	46	27	37	30
29	50	29			65	52	66	64	82	68	86	58	86	66	75	61	67	40	75	58	34	28	47	36
30	58	32			64	39	63	58	86	62	89	68	86	57	77	56	67	41	79	57	30	27	44	30
31	58	29			72	40			86	58			91	57	76	64			73	60			39	34
AV.	36	20	46	26	61	37	68	46	75	55	79	59	92	67	84	63	71	50	69	45	52	36	39	26
MEAN	27.8		36.1		48.9		57.2		65.3		69.4		79.5		73.5		60.5		56.8		44.0		32.7	
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 33 yr record period.

1969		DAILY PRECIPITATION (inches)					HCCREDIE, MISSOURI			STATION RESERVOIR W-1			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.15	0.0	0.0	0.05	
2	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.24	0.26	0.0	0.14	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	
4	0.0	0.0	0.0	0.03	0.0	0.0	1.28	0.0	0.0	0.0	1.05	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	0.04	
6	0.0	0.37	0.0	0.0	0.0	1.42	0.0	0.19	0.0	0.06	0.0	0.28	
7	0.0	0.0	0.0	0.55	0.43	0.42	0.0	0.32	0.0	0.0	0.0	0.0	
8	0.14	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.21	0.0	0.22	0.0	0.03	0.25	0.0	1.14	0.01	0.0	0.10	0.0	
10	0.06	0.0	1.27	0.19	0.19	0.0	0.0	0.04	0.0	0.0	0.83	0.0	
11	0.0	0.0	0.10	0.28	0.15	0.18	0.0	0.0	0.11	0.02	0.0	0.53	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	
13	0.0	0.0	0.0	0.13	0.0	0.05	0.0	0.0	0.0	0.12	0.05	0.0	
14	0.0	0.0	0.0	0.20	1.49	0.20	0.12	0.0	0.0	0.42	0.0	0.17	
15	0.0	0.0	0.20	0.0	0.0	0.24	0.18	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.85	0.0	0.0	0.0	0.45	0.0	0.0	0.03	0.0	
17	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.74	1.06	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.11	0.29	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.19	0.0	0.08	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.52	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.64	0.05	0.0	0.0	0.35	0.0	0.07	1.45	0.0	0.0	0.0	0.0	
23	0.0	0.03	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	
24	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
25	0.0	0.0	0.0	0.0	0.15	0.0	0.05	0.15	0.0	0.0	0.0	0.0	
26	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
28	0.29	0.0	0.07	0.0	0.0	0.0	0.0	0.90	0.42	0.02	0.0	0.0	
29	0.0	0.0	0.05	0.78	0.07	0.0	0.0	0.0	0.0	0.01	0.44	0.0	
30	0.0	0.0	0.0	0.0	2.31	0.05	0.0	0.0	0.0	0.0	0.02	0.09	
31	0.0	0.0	0.0	0.0	0.07	0.0	0.0	1.06	0.0	0.49	0.23	0.0	
TOTAL	3.66	2.38	2.11	3.28	6.64	3.89	1.70	7.09	0.95	1.30	3.65	1.69	
STA AV	1.52	1.56	2.81	3.67	4.36	4.40	3.62	2.86	3.89	3.51	2.09	1.80	

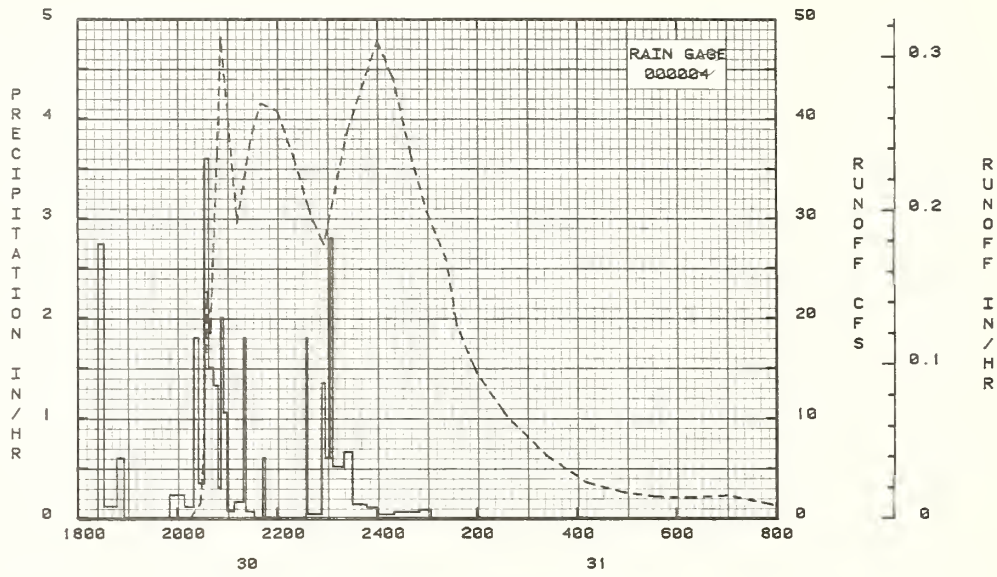
NOTES: Precipitation data are Thiessen weighted values for 4 recording rain gages and 1 non-recording rain gage. STA AV values are for 33 yr record period.

1974		MEAN DAILY DISCHARGE (cfs)					HCCREDIE, MISSOURI			STATION RESERVOIR W-1			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.064	0.0	0.0	0.225	0.0	0.0	0.022	
2	0.0	0.0	0.0	0.0	0.848	0.004	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.054	0.0	0.0	0.0	0.0	0.0	0.003	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.076	0.0	0.0	0.0	1.114	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.271	0.006	
6	0.0	0.483	0.0	0.0	0.0	1.296	0.0	0.0	0.0	0.0	0.0	0.513	
7	0.0	0.057	0.0	0.075	0.0	4.656	0.0	0.0	0.0	0.0	0.0	0.583	
8	0.0	0.0	0.0	0.0	0.0	2.717	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	1.245	0.0	0.151	0.0	0.0	0.006	0.0	
10	0.0	0.0	2.363	0.0	0.0	0.038	0.0	0.035	0.0	0.0	1.841	0.0	
11	0.0	0.0	2.537	0.182	0.0	0.007	0.0	0.0	0.0	0.0	0.228	0.694	
12	0.0	0.0	0.102	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.195	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	
14	0.0	0.0	0.0	0.0	2.472	0.0	0.0	0.0	0.0	0.0	0.0	0.157	
15	0.0	0.0	0.0	0.0	0.241	0.0	0.0	0.0	0.0	0.0	0.0	0.201	
16	1.907	0.0	0.0	1.980	0.062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	3.473	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	7.120	1.203	0.0	0.0	0.763	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	1.055	3.851	0.0	0.0	0.119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	1.873	0.126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.565	1.531	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	3.793	1.423	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.566	0.117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	6.750	0.393	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.960	0.214	0.0	0.0	0.0	0.0	0.0	0.355	0.0	0.0	0.0	0.0	
28	1.691	0.051	0.0	0.0	0.0	0.0	0.0	0.340	0.0	0.0	0.0	0.0	
29	0.547	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.046	0.0	
30	0.328	0.0	0.0	0.0	5.275	0.0	0.0	0.0	0.0	0.0	0.051	0.001	
31	0.151	0.0	0.0	0.0	3.933	0.0	0.887	0.0	0.0	0.0	0.481	0.0	
MEAN	1.0094	0.3375	0.1613	0.0765	0.4441	0.3342	0.0024	0.0571	0.0075	0.0	0.1187	0.0920	
INCHES	4.836	1.460	0.773	0.355	2.128	1.550	0.012	0.273	0.035	0.0	0.550	0.441	
STA AV	0.690	0.687	1.258	1.124	0.924	1.000	0.502	0.126	0.503	1.039	0.433	0.448	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.155557. STA AV values are for 33 yr record period.

1974 SELECTED RUNOFF EVENT			MCCREDIE, MISSOURI STATION RESERVOIR W-1									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF MAY 30 - 31, 1974												
5-30	RG 000004 0.0	0.0	5-30	RG 000004	1825	0.0	0.0	5-30	1900	0.0	0.0	
					1832	2.7429	0.32		1956	0.016	0.0	
					1848	0.1125	0.35		2016	0.037	0.0001	
					1856	0.6000	0.43		2028	1.522	0.0011	
					1951	0.0	0.43		2032	6.071	0.0027	
					2009	0.2334	0.50		2036	22.680	0.0090	
					2020	0.1091	0.52		2040	18.444	0.0178	
					2026	1.7999	0.70		2048	37.147	0.0419	
					2033	0.3429	0.74		2052	48.159	0.0603	
					2038	3.5999	1.04		2112	29.479	0.1442	
					2044	1.5001	1.19		2128	37.805	0.2023	
					2049	1.3200	1.30		2140	41.516	0.2537	
					2053	0.2998	1.32		2200	40.743	0.3426	
					2056	2.0001	1.42		2220	36.044	0.4256	
					2100	1.0501	1.49		2240	30.388	0.4973	
					2109	0.0666	1.50		2256	27.320	0.5472	
					2120	0.1636	1.53		2324	38.718	0.6471	
					2123	1.7999	1.62		2400	47.765	0.8153	
					2133	0.0601	1.63	5-31	20	43.721	0.9141	
					2143	0.0	1.63		40	36.476	1.0007	
					2146	0.6000	1.66		100	30.584	1.0732	
					2235	0.0	1.66		124	25.653	1.1461	
					2237	1.7999	1.72		136	19.232	1.1752	
					2254	0.0353	1.73		200	14.458	1.2189	
					2258	1.3499	1.82		236	10.174	1.2668	
					2304	0.6001	1.88		324	6.195	1.3092	
					2307	2.8000	2.02		412	3.524	1.3344	
					2320	0.5077	2.13		500	2.496	1.3500	
					2330	0.6600	2.24		544	2.048	1.3608	
					2348	0.1333	2.28		624	2.072	1.3697	
					2400	0.1000	2.30		700	2.259	1.3781	
			5-31		20	0.0300	2.31		756	1.330	1.3890	
					50	0.0600	2.34		844	0.531	1.3938	
					105	0.0800	2.36		920	0.533	1.3959	
									1050	0.498	1.4009	
									1212	0.071	1.4034	
									1328	0.284	1.4049	
									1500	0.356	1.4080	
									1616	0.425	1.4113	
									1740	0.321	1.4146	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00648. Event precipitation totals for rain gages R-2, R-3, S-6 and R-8 are 2.40, 2.36, 2.41 and 2.43 respectively and the Thiessen average event precipitation is 2.38 inches.



COSROCTON, ORIO WATERSHED 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum 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)													COSROCTON, ORIO WATERSHED 102	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	3.03	1.93	4.64	3.40	4.53	2.83	2.83	7.30	3.49	1.28	3.43	4.34	43.03
	Q	0.012	0.0	0.020	0.338	0.0	0.0	0.038	0.154	0.123	0.0	0.020	0.0	0.704
STA AV	P	1.90	2.23	3.98	3.37	3.91	4.35	4.11	3.14	2.46	2.35	2.61	2.49	36.89
	Q	0.041	0.076	0.098	0.066	0.009	0.132	0.154	0.037	0.018	0.009	0.007	0.001	0.647

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.	
1974	4-3	1.236	4-3	0.334	4-3	0.338	4-3	0.338	4-3	0.338	4-2	0.338	4-1	0.338	3-26	0.358

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	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	7-5	2.470	6-29	2.597
1957		1957		1969		1969		1969		1969		1969		1969	

NOTES: Watershed conditions: Cover of improved practice alfalfa meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.1-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1947 to Apr. 30, 1957 and Sept. 1, 1957 to March 29, 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1974 DAILY PRECIPITATION (inches)													COSROCTON, ORIO WATERSHED 102	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.84	0.0	0.0 T	1.14S		
2	0.0	0.0	0.19	0.05	0.19E	0.0	0.0	0.37	0.02	0.0	0.10	1.11S		
3	0.03E	0.0 T	0.0	1.26	0.0 T	0.0	0.0	0.22	0.60	0.0	0.0	0.0 T		
4	0.0	0.03S	0.02E	0.01	0.0	0.0	0.52	0.43	0.0	0.0	1.24	0.0		
5	0.0	0.0 T	0.2E	0.0	0.05	0.0	0.31	0.0	0.0	0.0	0.07	0.0		
6	0.0	0.76S	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.14	0.0		
7	0.01S	0.01S	0.20	0.0	0.0	0.0 T	0.0	0.0	0.0	0.04E	0.0	0.23		
8	0.11HZ	0.0	0.0	0.30H	0.15	0.0 T	0.0	0.10	0.0	0.0	0.0	0.03		
9	0.11HZ	0.0	0.51	0.02E	0.25	0.0	0.14E	0.16	0.0	0.0	0.0	0.0 T		
10	0.11HZ	0.04SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.11HZ	0.05SZ	0.18	0.0	0.48	0.08	0.0	0.08	0.0	0.0	0.49	0.0		
12	0.11HZ	0.0	0.0	0.0	1.00	0.0	0.0	0.13	0.03E	0.0	0.33	0.08		
13	0.11HZ	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.40	0.0	0.02H	0.0R		
14	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.40E	0.01H	0.0		
15	0.0	0.0	0.44	0.0	0.10	1.01E	0.01E	0.0	0.0	0.48	0.0 T	0.16H		
16	0.0	0.0	0.1RH	0.0	0.0	0.20	0.0	0.0	0.0	0.07	0.0	0.0 T		
17	0.0	0.0	0.0	0.0	0.33E	0.0	0.0	0.60E	0.0	0.0	0.0	0.05S		
18	0.51	0.0	0.02	0.0	0.03E	0.0	0.0	0.0	0.02E	0.0	0.0	0.0 T		
19	0.77	0.24	0.10	0.0	0.0	0.15	0.0	0.0	0.0	0.04H	0.02E	0.08S		
20	0.14E	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.78	0.0 T	0.21	0.0		
21	0.08	0.13	0.49H	0.0	0.0	0.41	0.0	0.0	0.53	0.0	0.15S	0.06S		
22	0.0	0.31	0.0	0.24	0.71	0.83	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.51	0.0	0.23SZ	0.02H	0.31	0.02E	0.33E	0.0	0.0	0.09	0.0	0.21		
24	0.0	0.99SZ	0.23SZ	0.0	0.33	0.0	0.0	0.0	0.0	0.02	0.30	0.44		
25	0.0	0.10SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.31S	0.14		
26	0.20	0.0	0.0	0.0	0.0	0.01E	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	0.77	0.09E	0.0	0.02E	0.03E		
28	0.12	0.17E	0.04E	0.0	0.09	0.0	0.0 T	2.27	0.04	0.0	0.0	0.0		
29	0.0	0.0	1.29	0.0	0.48E	0.0	1.52	1.32	0.14	0.0	0.0	0.0		
30	0.0	0.0	0.23	0.64	0.0	0.03E	0.0	0.24	0.0	0.06	0.02H	0.0		
31	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.56	0.0	0.0	0.50H			
TOTAL	3.03	1.93	4.64	3.40	4.53	2.83	2.83	7.30	3.49	1.28	3.43	4.34		
STA AV	1.90	2.23	3.98	3.37	3.91	4.35	4.11	3.14	2.46	2.35	2.61	2.49		

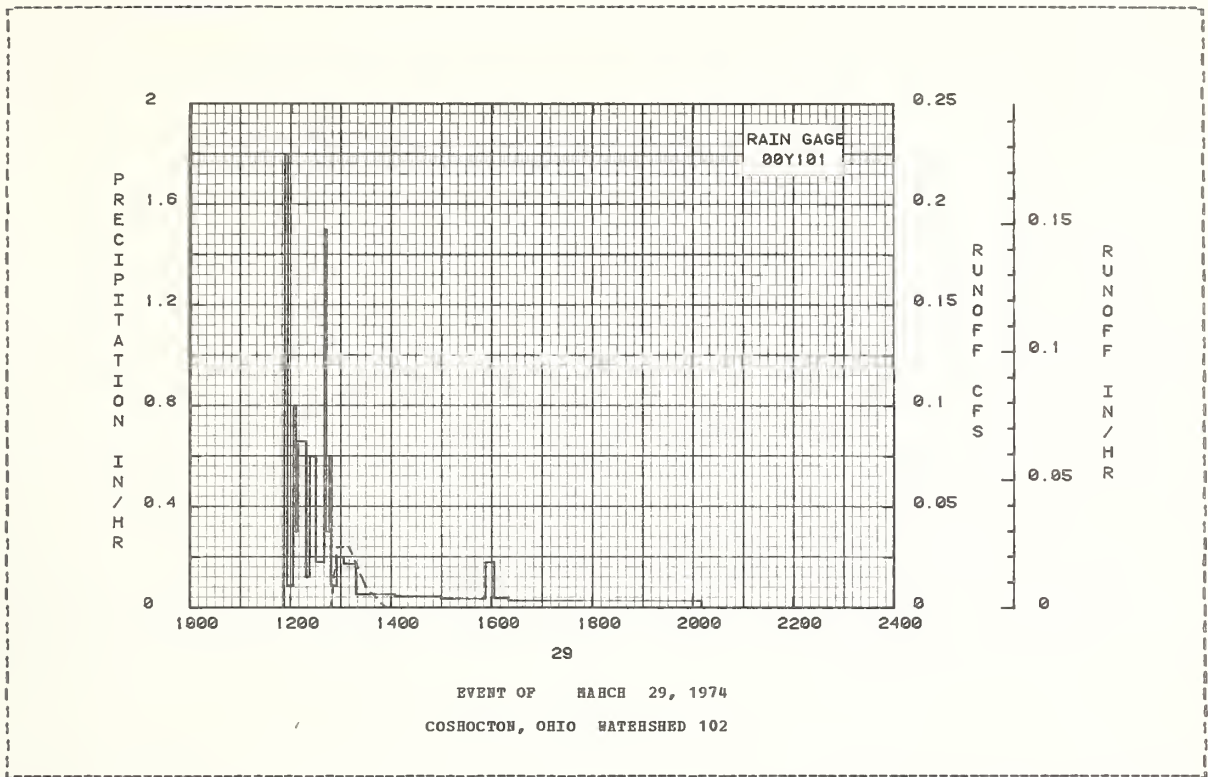
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y101. STA AV based on 25 yr period, part-years records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1974 MEAN DAILY DISCHARGE (cfs) COSROCTON, OHIO WATERSHED 102												
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Ang	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	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	0.018	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	0.001	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.001	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	0.003	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	0.001	0.0	0.0	0.0	0.002	0.004	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	0.003	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0006	0.0	0.0	0.0001	0.0003	0.0002	0.0	0.0	0.0
INCRS	0.012	0.0	0.020	0.338	0.0	0.0	0.038	0.154	0.123	0.0	0.020	0.0
STA AV	0.041	0.076	0.098	0.066	0.009	0.132	0.154	0.037	0.018	0.009	0.007	0.001

NOTES: To convert CFS to IN/DAY, multiply by 18.8902. STA AV based on 25 yr period, part-years records included.

1974 SELECTED RUNOFF EVENT COSROCTON, OHIO WATERSHED 102												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 29, 1974												
3-29	RG 00Y101 0.47	0.0	3-29	RG 00Y101 1152	0.0	0.0	3-29	1248	0.0	0.0		
				1156	1.8000	0.12		1256	0.029	0.0016		
				1203	0.0857	0.13		1302	0.034	0.0040		
				1206	0.8000	0.17		1310	0.029	0.0074		
				1208	0.3000	0.18		1330	0.010	0.0125		
				1218	0.6600	0.29		1354	0.001	0.0143		
				1223	0.1200	0.30		2400	0.0	0.0199		
				1230	0.6000	0.37						
				1240	0.1800	0.40						
				1242	1.5000	0.45						
				1246	0.3000	0.47						
				1248	0.6000	0.49						
				1255	0.0857	0.50						
				1304	0.2000	0.53						
				1318	0.1714	0.57						
				1405	0.0511	0.61						
				1500	0.0436	0.65						
				1553	0.0340	0.68						
				1603	0.1800	0.71						
				1620	0.0353	0.72						
				2010	0.0261	0.82						

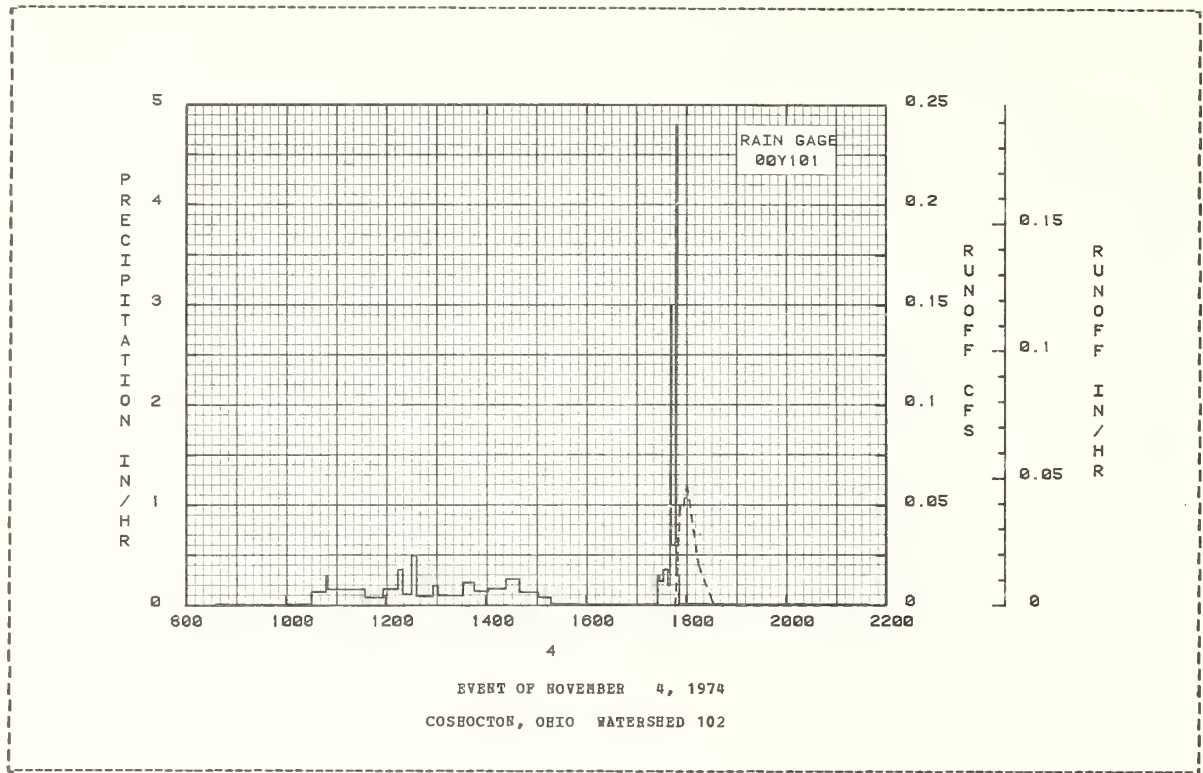
NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.78772000.



1974 SELECTED HUNOFF EVENT			COSHOCOTON, OHIO WATERSHED 102							
ANTECEDENT CONDITIONS			RAINFALL			HUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	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 4, 1974										
	HG 00Y101			HG 00Y101						
11- 4	0.12	0.001	11- 4	836	0.0	0.0	11- 4	1747	0.0	0.0
				1031	0.0157	0.03		1753	0.045	0.0018
				1048	0.1412	0.07		1757	0.050	0.0043
				1050	0.2998	0.08		1801	0.063	0.0072
				1135	0.1600	0.20		1815	0.025	0.0154
				1157	0.0819	0.23		1834	0.001	0.0186
				1215	0.1666	0.28		1913	0.0	0.0190
				1220	0.3600	0.31				
				1231	0.1091	0.33				
				1237	0.5000	0.38				
				1257	0.0900	0.41				
				1303	0.2000	0.43				
				1333	0.1000	0.48				
				1346	0.2307	0.53				
				1403	0.1412	0.57				
				1424	0.1714	0.63				
				1440	0.2625	0.70				
				1503	0.1304	0.75				
				1518	0.0800	0.77				
				1726	0.0141	0.80				
				1728	0.2998	0.81				
				1733	0.2401	0.83				
				1738	0.3600	0.86				
				1741	0.2002	0.87				
				1742	3.0007	0.92				
				1747	0.6000	0.97				
				1748	4.8011	1.05				
				1752	0.3001	1.07				
				2023	0.0159	1.11				
				2138	0.0080	1.12				

WATERSHED CONDITIONS:
Pasture of orchardgrass,
timothy, and alfalfa.

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



COSHOCTON, OHIO WATERSHED 123

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

AHEA: 1.37 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 123	
	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Ang	Sep	Oct	Nov	Dec	Annal	
1974 P	3.16	1.98	4.90	3.46	4.40	2.63	2.98	7.37	3.48	1.33	3.47	4.55	43.71	
Q	0.0	0.0	1.794	0.0	0.0	0.0	0.0	1.743	0.0	0.0	0.0	1.929	5.466	
STA AV P	2.68	2.39	3.49	3.53	3.83	4.08	4.33	2.93	2.63	2.25	2.69	2.50	37.33	
Q	0.343	0.365	0.447	0.260	0.133	0.247	0.195	0.114	0.042	0.017	0.062	0.161	2.387	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Date	Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1974 4-3	1.831	4-3	0.683	4-3	0.742	4-3	0.777	4-3	0.812	4-3	0.815	4-1	1.019	5-4	1.993

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
6-12 1957	5.970	6-12 1957	1.370	6-12 1957	1.480	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

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.10-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1974 DAILY AIR TEMPERATURE (degrees F)													COSHOCTON, OHIO WATERSHED 123												
Day	Jan		Feb		Mar		Apr		May		Jnn		Jnl		Ang		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	26	10	36	22	43	31	63	36	64	46	69	55	83	59	81	59	68	58	54	36	68	60	34	32	
2	22	6	30	23	64	36	64	45	63	42	73	52	84	62	83	62	68	53	44	31	72	58	31	30	
3	25	22	30	19	74	54	71	47	61	48	77	55	87	68	77	64	60	51	48	32	68	50	28	23	
4	28	12	22	8	68	60	73	44	56	38	80	50	86	66	72	57	64	47	55	29	61	54	27	17	
5	26	12	21	5	68	32	44	30	62	39	79	60	84	61	73	52	67	48	71	40	56	42	27	13	
6	26	20	39	20	61	36	44	28	46	34	78	63	82	56	75	52	64	50	74	48	47	36	33	18	
7	25	8	35	17	72	50	60	34	53	32	81	64	85	63	81	59	70	57	53	38	50	36	40	27	
8	25	2	24	11	75	45	43	28	57	39	79	65	87	66	78	60	76	51	55	34	54	30	42	27	
9	36	25	23	11	73	50	38	27	54	44	84	63	86	67	79	60	75	60	64	37	59	35	25	17	
10	30	25	28	10	58	29	55	36	59	42	80	61	86	70	77	58	74	62	67	44	52	33	33	13	
11	30	21	23	18	41	28	64	38	77	42	71	53	77	58	70	60	78	63	71	46	58	47	40	25	
12	21	8	48	20	42	23	68	54	64	47	69	52	78	52	80	68	78	66	71	53	57	35	39	36	
13	28	5	56	30	33	16	73	56	64	46	73	47	86	58	84	63	77	57	67	52	43	30	36	34	
14	38	20	30	18	44	17	76	42	83	49	77	54	88	64	79	61	63	50	71	57	47	24	34	32	
15	46	32	33	13	48	27	43	39	72	56	75	58	82	62	80	57	67	46	56	44	32	24	39	30	
16	50	31	44	22	48	28	57	39	81	53	70	51	76	58	82	60	70	49	58	43	45	25	40	32	
17	41	33	36	17	40	28	62	38	83	63	64	48	82	56	79	66	73	54	67	38	50	33	42	26	
18	58	34	44	18	43	18	64	41	72	54	73	48	85	64	75	61	71	58	47	32	53	34	27	22	
19	58	36	49	18	45	32	56	38	73	55	75	55	87	68	80	57	74	54	36	29	57	38	36	25	
20	63	37	45	30	48	24	70	34	79	48	84	63	77	58	83	61	70	56	38	29	57	36	34	19	
21	56	39	57	27	37	25	76	51	82	60	76	64	79	52	81	62	60	48	47	28	37	32	34	23	
22	53	38	55	27	44	20	61	52	71	57	71	54	81	58	82	61	50	40	62	31	44	32	36	27	
23	52	30	30	20	49	22	52	37	76	57	66	50	68	63	81	61	53	36	61	43	61	30	49	32	
24	34	26	31	18	23	9	49	36	69	55	70	51	76	59	81	64	62	36	63	46	58	41	43	37	
25	43	24	18	8	33	3	58	32	58	47	70	51	80	58	83	61	67	47	65	46	41	28	37	25	
26	61	30	28	8	49	23	71	46	63	49	67	54	83	63	83	62	71	48	59	40	30	17	27	22	
27	57	40	51	9	52	28	77	50	64	45	73	52	86	66	86	68	72	49	65	37	41	21	33	24	
28	50	34	46	40	58	33	81	62	70	45	69	60	88	63	73	60	74	63	69	44	41	26	34	30	
29	42	34			52	38	79	63	72	59	73	55	83	60	73	60	67	46	70	50	39	26	41	34	
30	52	31			51	35	65	53	76	63	78	61	78	57	75	64	57	40	68	57	39	28	43	29	
31	54	26			41	32			73	65			79	57	78	65			75	57				36	29
AV.	41	24	36	18	51	30	62	42	68	49	74	56	82	61	79	61	68	51	60	41	51	35	35	26	
MEAN	32.4		27.2		40.5		51.9		58.4		64.9		71.7		69.9		59.8		50.7		42.7		30.9		
STA AV	38	21	35	19	52	33	59	41	69	50	76	58	81	62	79	62	73	54	61	43	49	34	39	26	

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV is for 36 yr (1939-74) record period.

1974 DAILY PRECIPITATION (inches) COSROCTON, ORIO WATERSRED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.77	0.0	0.0 T	1.39S
2	0.0	0.0	0.24	0.04	0.22	0.0	0.0	0.32	0.03	0.0	0.10E	0.91S
3	0.02E	0.0 T	0.0	1.34	0.0 T	0.0	0.0	0.22	0.64	0.0	0.0	0.0 T
4	0.0	0.02S	0.03E	0.01	0.0	0.0	0.49	0.38	0.0	0.0	1.34	0.0
5	0.0	0.0 T	0.29	0.0	0.04E	0.0	0.28	0.0	0.0	0.0	0.06	0.0
6	0.0	0.84S	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.15	0.0
7	0.01S	0.01S	0.24	0.0	0.0	0.0 T	0.0	0.0	0.0	0.04E	0.0	0.27
8	0.13HZ	0.0	0.0	0.33H	0.15	0.0 T	0.0	0.10	0.0	0.0	0.0	0.02
9	0.13HZ	0.0	0.55	0.02E	0.22	0.0	0.09	0.21	0.0	0.0	0.0	0.0 T
10	0.13HZ	0.03SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.13HZ	0.04SZ	0.23	0.0	0.51	0.06E	0.0	0.11	0.0	0.0	0.50	0.0
12	0.13HZ	0.0	0.0	0.0	1.07	0.0	0.0	0.16	0.03E	0.0	0.32	0.07 Z
13	0.13HZ	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.45	0.0	0.02H	0.08 Z
14	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.38E	0.01H	0.0
15	0.0	0.0	0.51	0.0	0.10	1.00	0.01E	0.0	0.0	0.51	0.0 T	0.23H
16	0.0	0.0	0.13H	0.0	0.0	0.13	0.0	0.0	0.0	0.07	0.0	0.0 T
17	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.63E	0.0	0.0	0.0	0.03S
18	0.52	0.0	0.04	0.0	0.03E	0.0	0.0	0.0	0.02E	0.0	0.0	0.0 T
19	0.80	0.29	0.08	0.0	0.0	0.09	0.0	0.0	0.0	0.04H	0.03E	0.12S
20	0.12	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.70	0.0 T	0.18	0.0
21	0.05	0.18	0.48H	0.0	0.0	0.40	0.0	0.0	0.56	0.0	0.10S	0.06S
22	0.0	0.31	0.0	0.22E	0.53	0.82	0.0	0.0	0.0	0.0	0.0	0.0
23	0.52	0.0	0.18SZ	0.02H	0.31	0.02E	0.38	0.0	0.0	0.11	0.0	0.21
24	0.0	0.06SZ	0.18SZ	0.0	0.29	0.0	0.0	0.0	0.0	0.02	0.29	0.47
25	0.0	0.06SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.33H	0.14
26	0.20	0.0	0.0	0.0	0.0	0.01E	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	0.81	0.08E	0.0	0.01E	0.02E
28	0.14	0.14	0.07E	0.0	0.08	0.0	0.0 T	2.16	0.05	0.0	0.0	0.0
29	0.0	1.44	0.0	0.48E	0.0	0.48E	0.0	1.73	1.24E	0.15	0.0	0.0
30	0.0	0.21	0.57E	0.0	0.0	0.03E	0.0	0.25	0.0	0.06	0.03H	0.0
31	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.53H
TOTAL	3.16	1.98	4.90	3.46	4.40	2.63	2.98	7.37	3.48	1.33	3.47	4.55
STA AV	2.68	2.39	3.49	3.53	3.83	4.08	4.33	2.93	2.63	2.25	2.69	2.50

NOTES: Precipitation amounts are for rain gage Y103. STA AV based on 36 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.

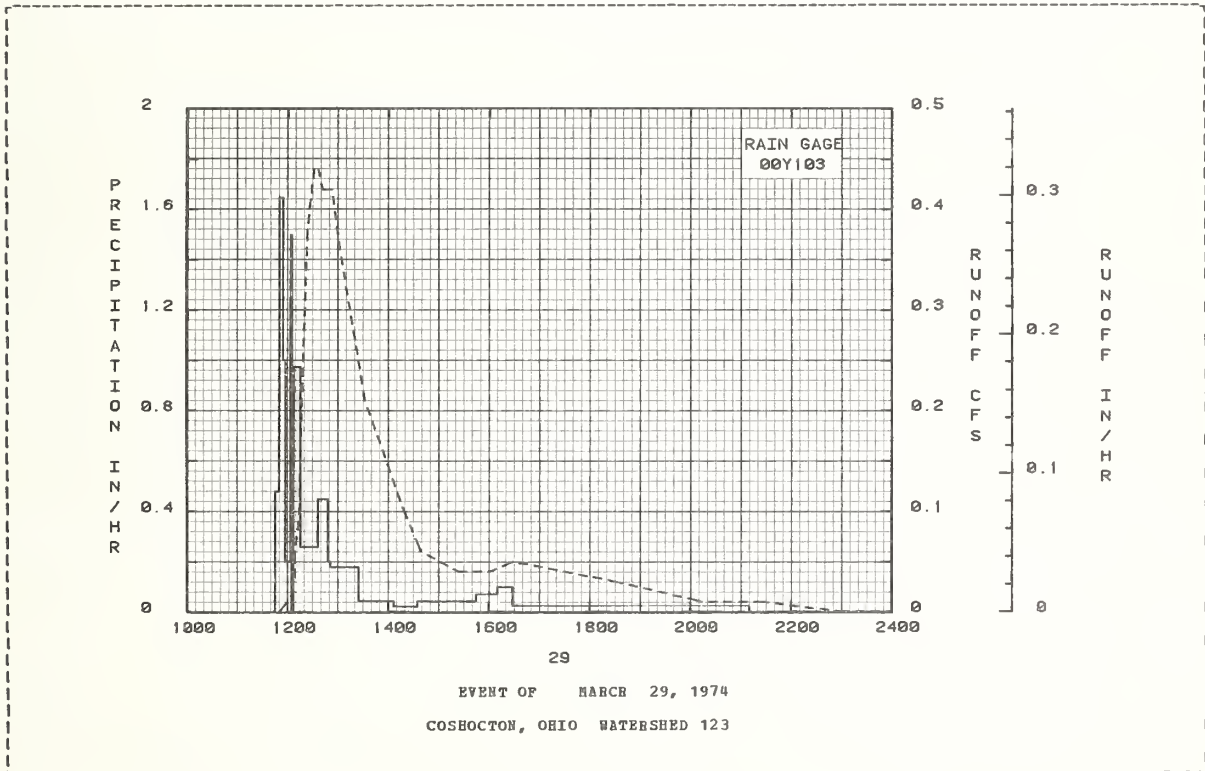
1974 MEAN DAILY DISCHARGE (cfs) COSROCTON, ORIO WATERSRED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0
2	0.0	0.0	0.0 T	0.005	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.047	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.030	0.0
5	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 T
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020
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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
12	0.0	0.0	0.0 T	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.013	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	0.0
14	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
15	0.008	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
16	0.007	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
17	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
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	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.002	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
24	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0
29	0.0	0.035	0.0	0.0 T	0.0	0.0	0.0 T	0.015	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 T	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.005
MEAN	0.0	0.0	0.0033	0.0	0.0	0.0	0.0	0.0032	0.0	0.0	0.0	0.0036
INCRESES	0.0	0.0	1.794	0.0	0.0	0.0	0.0	1.743	0.0	0.0	0.0	1.929
STA AV	0.343	0.365	0.447	0.260	0.133	0.247	0.195	0.114	0.042	0.017	0.062	0.161

NOTES: To convert CPS to IN/DAY, multiply by 17.3735. STA AV based on 36 yr period.

1974 SELECTED RUNOFF EVENT			COSHOCOTON, OHIO WATERSHED 123							
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 29, 1974										
3-29	RG 00Y103 0.49	0.009	3-29	RG 00Y103 1145	0.0	0.0	3-29	1150	0.0	0.0
				1150	0.4800	0.04		1159	0.006	0.0003
				1154	1.6500	0.15		1207	0.020	0.0016
				1157	1.0000	0.20		1209	0.060	0.0025
				1200	0.2000	0.21		1214	0.099	0.0073
				1203	0.2000	0.22		1215	0.160	0.0089
				1205	1.5000	0.27		1223	0.381	0.0350
				1207	0.0	0.27		1231	0.438	0.0745
				1215	0.9750	0.40		1236	0.438	0.1010
				1236	0.2571	0.49		1241	0.419	0.1268
				1248	0.4500	0.58		1252	0.419	0.1824
				1251	0.2000	0.59		1302	0.363	0.2296
				1325	0.1765	0.69		1332	0.209	0.3331
				1407	0.0429	0.72		1419	0.099	0.4204
				1435	0.0214	0.73		1439	0.060	0.4396
				1545	0.0429	0.78		1524	0.041	0.4670
				1610	0.0720	0.81		1600	0.041	0.4848
				1628	0.1000	0.84		1628	0.053	0.5007
				2110	0.0234	0.95		1730	0.041	0.5359
								1830	0.030	0.5616
								2014	0.012	0.5879
								2124	0.006	0.5955
								2300	0.002	0.6002
								2400	0.0	0.6009

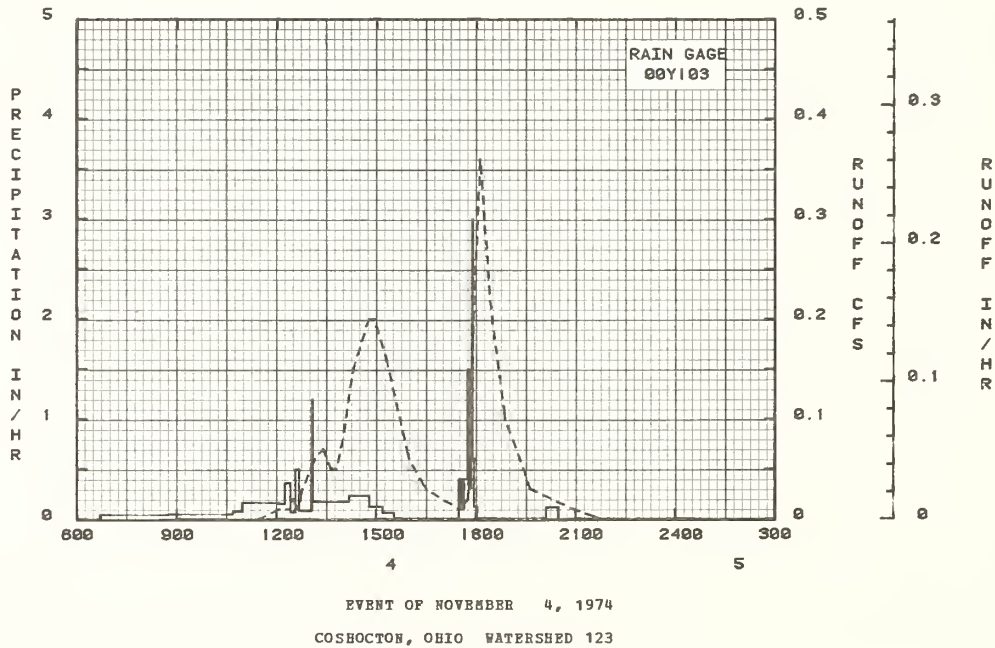
WATERSHED CONDITIONS:
Last year's standing
corn stalks.

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



ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Hainfall (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 NOVEMBER 4, 1974										
11- 4	HG 00Y103 0.0	0.0	11- 4	HG 00Y103 642	0.0	0.0	11- 4	1123	0.0	0.0
				845	0.0439	0.09		1128	0.002	0.0001
				1042	0.0513	0.19		1206	0.006	0.0019
				1058	0.0750	0.21		1219	0.006	0.0028
				1204	0.1636	0.39		1222	0.012	0.0032
WATERSHED CONDITIONS: Standing corn stalks.				1216	0.1500	0.42		1229	0.016	0.0043
				1226	0.3600	0.48		1239	0.012	0.0060
				1235	0.0667	0.49		1247	0.030	0.0081
				1241	0.4999	0.54		1310	0.060	0.0205
				1304	0.0783	0.57		1324	0.067	0.0313
				1305	1.1993	0.59		1338	0.053	0.0414
				1411	0.1727	0.78		1348	0.053	0.0478
				1447	0.2333	0.92		1400	0.082	0.0576
				1512	0.1200	0.97		1418	0.149	0.0826
				1532	0.0600	0.99		1446	0.196	0.1409
				1730	0.0051	1.00		1456	0.196	0.1646
				1733	0.4001	1.02		1518	0.160	0.2118
				1739	0.0999	1.03		1559	0.060	0.2662
				1745	0.4001	1.07		1630	0.030	0.2831
				1747	1.4996	1.12		1729	0.006	0.2959
				1749	0.6001	1.14		1733	0.006	0.2962
				1751	0.2998	1.15		1746	0.020	0.2982
				1753	1.5001	1.20		1754	0.172	0.3075
				1754	3.0002	1.25		1807	0.363	0.3494
				1757	0.6000	1.28		1827	0.209	0.4184
				1802	0.1199	1.29		1853	0.099	0.4667
				2007	0.0048	1.30		1938	0.030	0.5018
				2028	0.1143	1.34		2054	0.006	0.5183
								2144	0.002	0.5207
								2157	0.0	0.5208
								2400	0.0	0.5208

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



COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingma 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
1974	P	2.95	1.92	4.60	3.41	4.32	2.66	2.37	7.05	3.29	1.28	3.41	4.30	41.56
	Q	0.011	0.0	0.001	0.131	0.0	0.005	0.001	0.165	0.0	0.0	0.0	0.0	0.314
STA AV	P	2.58	2.25	3.41	3.46	3.83	4.07	4.34	2.87	2.65	2.20	2.61	2.38	36.67
	Q	0.063	0.174	0.113	0.047	0.088	0.246	0.275	0.147	0.042	0.010	0.001	0.016	1.221

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												
				1 Hour Vol.	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.	
1974	8-28	0.472	4-3	0.125	4-3	0.131	4-3	0.131	4-3	0.131	4-2	0.131	8-27	0.165	8-21	0.165
MAXIMUMS FOR PERIOD OF RECORD																
	5-17 1941	4.340	6-29 1941	0.820	6-28 1940	1.090	7-5 1969	1.416	3-4 1963	1.920	3-4 1963	2.170	3-3 1963	2.550	3-1 1963	2.660

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pnb. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage Y102. Precipitation and runoff records began Nov. 1938. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1974	DAILY PRECIPITATION (inches)						COSHOCTON, OHIO WATERSHED 109						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.73	0.0	0.0 T	1.38S	
2	0.0	0.0	0.23	0.03	0.21E	0.0	0.0	0.36	0.03	0.0	0.09E	0.90S	
3	0.02E	0.0 T	0.0	1.37	0.0 T	0.0	0.0	0.20	0.56	0.0	0.0	0.0 T	
4	0.0	0.02S	0.04E	0.01E	0.0	0.0	0.15	0.39	0.0	0.0	1.28	0.0	
5	0.0	0.0 T	0.30	0.0	0.03E	0.0	0.27	0.0	0.0	0.0	0.08	0.0	
6	0.0	0.83S	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.15	0.0	
7	0.01S	0.0	0.25	0.0	0.0	0.0 T	0.0	0.0	0.0	0.03E	0.0	0.24	
8	0.11EZ	0.0	0.0	0.20E	0.19	0.0 T	0.0	0.10	0.0	0.0	0.0	0.02	
9	0.10EZ	0.0	0.58	0.02E	0.24	0.0	0.07	0.17	0.0	0.0	0.0	0.0 T	
10	0.11EZ	0.03SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.11EZ	0.04SZ	0.16	0.0	0.50	0.06E	0.0	0.07E	0.0	0.0	0.45E	0.0	
12	0.10EZ	0.0	0.0	0.0	0.99	0.0	0.0	0.18	0.03E	0.0	0.38	0.07SZ	
13	0.11EZ	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.46	0.0	0.02E	0.07SZ	
14	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.38E	0.01E	0.0	
15	0.0	0.0	0.50	0.0	0.10	0.97	0.01E	0.0	0.0	0.50	0.0 T	0.15E	
16	0.0	0.0	0.16E	0.0	0.0	0.20	0.0	0.0	0.0	0.07	0.0	0.0 T	
17	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.68E	0.0	0.0	0.0	0.04S	
18	0.55	0.0	0.02	0.0	0.02E	0.0	0.0	0.0	0.03E	0.0	0.0	0.0 T	
19	0.75	0.28	0.10	0.0	0.0	0.08	0.0	0.0	0.0	0.04E	0.04E	0.07S	
20	0.09	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.69	0.0 T	0.19	0.0	
21	0.09	0.17	0.44E	0.0	0.0	0.43	0.0	0.0	0.46E	0.0	0.10S	0.05S	
22	0.0	0.32	0.0	0.24E	0.53	0.77	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.51	0.0	0.10SZ	0.02E	0.29	0.0 T	0.37	0.0	0.0	0.10	0.0	0.24	
24	0.0	0.04SZ	0.10SZ	0.0	0.29	0.0	0.0	0.0	0.0	0.02	0.30	0.41	
25	0.0	0.04SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.29E	0.11	
26	0.15	0.0	0.0	0.0	0.0	0.07E	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	0.73	0.11E	0.0	0.02E	0.02E	
28	0.14E	0.15E	0.05E	0.0	0.06	0.0	0.0 T	2.05	0.05	0.0	0.0	0.0	
29	0.0	0.0	1.36	0.0	0.49E	0.0	1.50E	1.16E	0.14	0.0	0.0	0.0	
30	0.0	0.0	0.21	0.62E	0.0	0.03E	0.0	0.24	0.0	0.05	0.01E	0.0	
31	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.53E	
TOTAL	2.95	1.92	4.60	3.41	4.32	2.66	2.37	7.05	3.29	1.28	3.41	4.30	
STA AV	2.58	2.25	3.41	3.46	3.83	4.07	4.34	2.87	2.65	2.20	2.61	2.38	

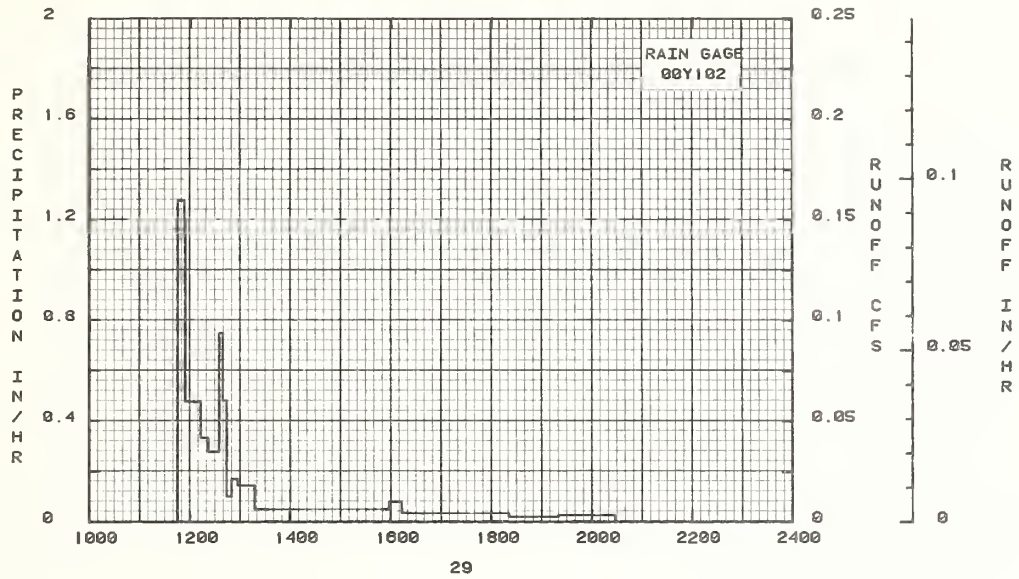
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y102. STA AV based on 36 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates that an accurately measured total for a series of days has been divided equally among coded days.

1974 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	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0
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	0.009	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.003	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	0.0003	0.0	0.0	0.0	0.0004	0.0	0.0	0.0	0.0
INCHES	0.011	0.0	0.001	0.131	0.0	0.005	0.001	0.165	0.0	0.0	0.0	0.0
STA AV	0.063	0.174	0.113	0.047	0.088	0.246	0.275	0.147	0.042	0.010	0.001	0.016

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV based on 36 yr period, part-year records included.

1974 SELECTED HUNOFF EVENT COSHOCTON, OHIO WATERSHED 109												
ANTECEDENT CONDITIONS			HAINFALL				RUNOFF					
Date	Hainfall	Runoff	Date	Time	Intensity	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 29, 1974												
RG 00Y102			HG 00Y102									
3-29	0.47	0.0	3-29	1145	0.0	0.0	3-29	1158	0.0	0.0		
				1153	1.2750	0.17		1206	0.001	0.0		
				1154	1.2000	0.19		1228	0.001	0.0002		
				1213	0.4737	0.34		1233	0.002	0.0003		
				1222	0.3333	0.39		1254	0.002	0.0007		
WATERSHED CONDITIONS:				1235	0.2769	0.45		1316	0.001	0.0010		
Standing corn stalks.				1239	0.7500	0.50		1334	0.0	0.0011		
				1244	0.4800	0.54						
				1250	0.1000	0.55						
				1257	0.1714	0.57						
				1318	0.1429	0.62						
				1558	0.0488	0.75						
				1613	0.0800	0.77						
				1821	0.0328	0.84						
				1920	0.0203	0.86						
				2028	0.0265	0.89						

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



EVENT OF MARCH 29, 1974
COSHOCTON, OHIO WATERSHED 109

COSHOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. EE 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 RUOFF (inches)													COSHOCTON, OHIO WATERSHED 196	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	3.22	2.08	4.59	3.17	4.47	2.41	2.92	7.04	3.44	1.30	3.57	4.47	42.68
	Q	2.970	1.403	3.650	3.260	1.197	0.306	0.158	0.497	0.993	0.224	1.615	3.359	19.631
STA AV	P	2.64	2.36	3.53	3.42	3.79	4.12	4.28	2.80	2.67	2.23	2.62	2.44	36.90
	Q	1.722	1.888	2.854	2.385	1.477	0.963	0.668	0.274	0.236	0.199	0.493	1.057	14.217

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS																	
Date	Maxima 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.		
1974	4-3	0.874		4-3	0.472	4-3	0.569	4-3	0.707	4-3	0.837	4-3	1.009	4-3	1.205	3-29	3.595
MAXIMUMS FOR PERIOD OF RECORD																	
	6-12	3.720		6-12	1.310	6-12	1.440	7-5	2.106	7-5	2.453	1-21	2.920	1-20	3.210	3-4	4.630
	1957			1957		1957		1969		1969		1959		1959		1964	

NOTES: Watershed conditions: Woods, 27%; grassland, 50%; miscellaneous, 23%; watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watershed 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.

1974 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 196	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.80	0.0	0.0 T	1.43S		
2	0.0	0.0	0.21	0.04	0.22	0.0	0.0	0.18	0.02	0.0	0.05E	0.87S		
3	0.02E	0.0 T	0.0	1.20	0.0 T	0.0	0.0	0.21	0.58	0.0	0.0	0.0 T		
4	0.0	0.02S	0.02E	0.01	0.0	0.0	0.52	0.33	0.0	0.0	1.42	0.0		
5	0.0	0.0 T	0.28	0.0	0.03	0.0	0.27	0.0	0.0	0.0	0.10	0.0		
6	0.0	0.87S	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.18	0.0		
7	0.01S	0.01S	0.29	0.0	0.0	0.0 T	0.0	0.0	0.0	0.03E	0.0	0.26		
8	0.14EZ	0.0	0.0	0.30M	0.13	0.0 T	0.0	0.12	0.0	0.0	0.0	0.02		
9	0.14EZ	0.0	0.50	0.02E	0.29	0.0	0.03E	0.15E	0.0	0.0	0.0	0.0 T		
10	0.13EZ	0.08SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.14EZ	0.08SZ	0.21	0.0	0.28	0.06	0.0	0.09	0.0	0.0	0.50	0.0		
12	0.14EZ	0.0	0.0	0.0	0.98	0.0	0.0	0.34	0.05E	0.0	0.36	0.08 Z		
13	0.14EZ	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.48	0.0	0.04M	0.09 Z		
14	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.36E	0.02M	0.0		
15	0.0	0.0	0.50	0.0	0.09	0.77	0.01E	0.0	0.0	0.51	0.0 T	0.25M		
16	0.0	0.0	0.12M	0.0	0.0	0.11	0.0	0.0	0.0	0.07	0.0	0.0 T		
17	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.84	0.0	0.0	0.0	0.04S		
18	0.51	0.0	0.04	0.0	0.03	0.0	0.0	0.0	0.04	0.0	0.0	0.0 T		
19	0.83	0.26	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.04M	0.03E	0.12S		
20	0.10	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.68	0.0 T	0.18	0.0		
21	0.06	0.18	0.41M	0.0	0.0	0.45	0.0	0.0	0.51	0.0	0.08S	0.08M		
22	0.0	0.32	0.0	0.25E	1.01	0.80	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.50	0.0	0.13SZ	0.01M	0.23	0.02E	0.38	0.0	0.0	0.11	0.0	0.19		
24	0.0	0.04SZ	0.13SZ	0.0	0.26	0.0	0.0	0.0	0.0	0.01	0.27	0.42		
25	0.0	0.05SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.30M	0.13		
26	0.24	0.0	0.0	0.0	0.0	0.01E	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	0.72	0.04	0.0	0.01E	0.01E		
28	0.12	0.17E	0.03E	0.0	0.04E	0.0	0.02	2.18	0.06	0.0	0.0	0.0		
29	0.0	1.50	0.0	0.51	0.0	1.69	1.03	1.03	0.18	0.0	0.0	0.0		
30	0.0	0.19	0.61	0.0	0.03E	0.0	0.24	0.0	0.08	0.03M	0.0	0.0		
31	0.0	0.0	0.0	0.03E	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.48M		
TOTAL	3.22	2.08	4.59	3.17	4.47	2.41	2.92	7.04	3.44	1.30	3.57	4.47		
STA AV	2.64	2.36	3.53	3.42	3.79	4.12	4.28	2.80	2.67	2.23	2.62	2.44		

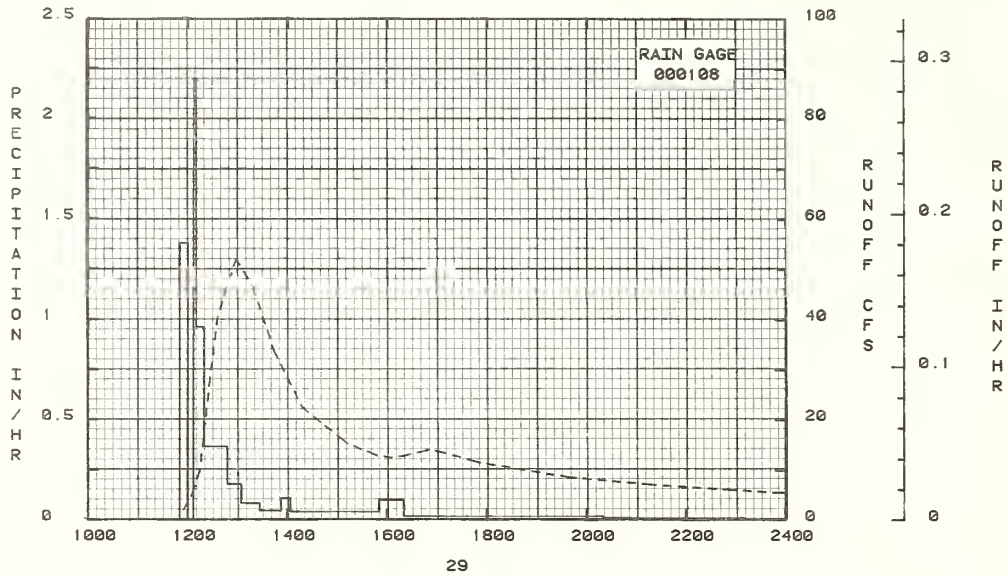
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 108. STA AV based on 37 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1974 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 196												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.440	0.575	0.675	6.387	0.318	0.219	0.066	0.032	3.011	0.120	0.076	0.696
2	0.442	0.535	1.008	3.711	0.252	0.183	0.056	0.029	0.726	0.106	0.081	1.025
3	0.418	0.477	0.797	11.234	0.292	0.159	0.051	0.051	1.804	0.098	0.076	0.932
4	0.359	0.414	0.731	3.946	0.215	0.143	0.117	0.127	0.766	0.095	0.638	0.685
5	0.336	0.337	0.941	2.053	0.205	0.129	0.153	0.037	0.582	0.092	0.984	0.551
6	0.322	1.248	0.425	1.603	0.196	0.117	0.059	0.029	0.466	0.088	0.640	0.490
7	0.280	1.599	1.096	1.214	0.182	0.111	0.045	0.027	0.374	0.088	0.556	1.076
8	0.206	0.714	0.897	1.320	0.208	0.102	0.041	0.034	0.289	0.075	0.452	4.545
9	0.328	0.561	1.898	1.087	0.376	0.095	0.038	0.019	0.236	0.065	0.406	1.878
10	0.341	0.479	1.361	0.900	0.220	0.076	0.038	0.019	0.204	0.065	0.365	1.315
11	0.322	0.489	1.150	0.797	0.233	0.080	0.034	0.031	0.196	0.061	0.440	1.170
12	0.247	0.531	1.027	0.729	3.374	0.095	0.033	0.103	0.188	0.062	2.695	1.762
13	0.205	0.600	0.883	0.648	0.913	0.066	0.033	0.036	0.322	0.062	0.869	1.591
14	0.243	0.479	0.780	0.673	0.578	0.062	0.032	0.033	0.211	0.065	0.763	1.640
15	1.605	0.383	0.939	0.547	0.490	0.215	0.037	0.024	0.139	0.065	0.628	1.507
16	1.957	0.370	2.321	0.477	0.395	0.125	0.032	0.025	0.127	0.118	0.531	1.948
17	1.380	0.327	1.141	0.429	0.414	0.089	0.025	0.234	0.116	0.089	0.466	1.447
18	3.069	0.308	0.970	0.395	0.390	0.067	0.025	0.033	0.113	0.079	0.418	1.110
19	7.825	0.484	0.979	0.360	0.270	0.065	0.025	0.028	0.098	0.076	0.395	0.985
20	2.368	0.495	0.763	0.327	0.227	0.066	0.023	0.024	0.420	0.075	0.502	0.810
21	2.019	0.421	1.334	0.308	0.202	0.250	0.022	0.022	0.518	0.076	0.451	0.741
22	1.400	1.783	0.937	0.378	1.231	0.334	0.023	0.023	0.292	0.076	0.392	0.652
23	3.110	0.908	0.833	0.318	0.743	0.383	0.048	0.022	0.211	0.076	0.342	0.932
24	1.571	0.769	0.815	0.271	0.689	0.120	0.036	0.020	0.196	0.090	0.424	4.186
25	1.185	0.670	0.765	0.233	0.466	0.109	0.029	0.022	0.188	0.092	1.405	2.246
26	1.097	0.620	0.941	0.219	0.395	0.107	0.028	0.020	0.171	0.081	0.883	1.486
27	1.332	0.603	0.873	0.202	0.330	0.092	0.028	0.064	0.158	0.076	0.792	1.441
28	1.052	0.682	0.766	0.188	0.289	0.081	0.031	1.638	0.176	0.076	0.732	0.924
29	0.900		8.663	0.182	0.526	0.081	0.709	2.000	0.200	0.075	0.610	0.798
30	0.780		4.254	0.365	0.346	0.070	0.055	0.595	0.143	0.090	0.544	0.712
31	0.670		5.498		0.278		0.034	0.929		0.081		1.483
MEAN	1.2197	0.6379	1.4988	1.3835	0.4916	0.1298	0.0647	0.2042	0.4213	0.0918	0.6852	1.3794
INCHES	2.970	1.403	3.650	3.260	1.197	0.306	0.158	0.497	0.993	0.224	1.615	3.359
STA AV	1.722	1.888	2.854	2.385	1.477	0.963	0.668	0.274	0.236	0.199	0.493	1.057

NOTES: To convert CFS to IN/DAY, multiply by 0.0786. STA AV based on 37 yr period, part-year records included.

1974 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 MARCH 29, 1974										
3-29	RG 000108 0.49	0.102	3-29	RG 000108 1150	0.0	0.0	3-29	1155	2.140	0.0
				1200	1.3800	0.23		1206	5.400	0.0023
				1207	0.0	0.23		1215	10.200	0.0061
				1210	2.2000	0.34		1220	17.800	0.0099
				1220	0.9600	0.50		1227	28.500	0.0187
WATERSHED CONDITIONS: Woods, 27%; grassland, 50%; miscellaneous, 23%.										
				1248	0.3643	0.67		1236	40.600	0.0357
				1305	0.1765	0.72		1258	52.000	0.0913
				1327	0.0818	0.75		1319	46.200	0.1475
				1353	0.0462	0.77		1344	33.600	0.2019
				1404	0.1091	0.79		1418	22.400	0.2539
				1550	0.0396	0.86		1512	15.200	0.3092
				1620	0.1000	0.91		1548	12.800	0.3367
				2020	0.0175	0.98		1606	12.400	0.3491
				2310	0.0106	1.01		1619	12.800	0.3580
								1649	14.000	0.3800
								1702	13.600	0.3898
								1752	11.400	0.4238
								1938	8.520	0.4814
								2124	7.000	0.5263
								2300	5.970	0.5603
								2400	5.400	0.5789

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



29
EVENT OF MARCH 29, 1974
COSHOCTON, OHIO WATERSHED 196

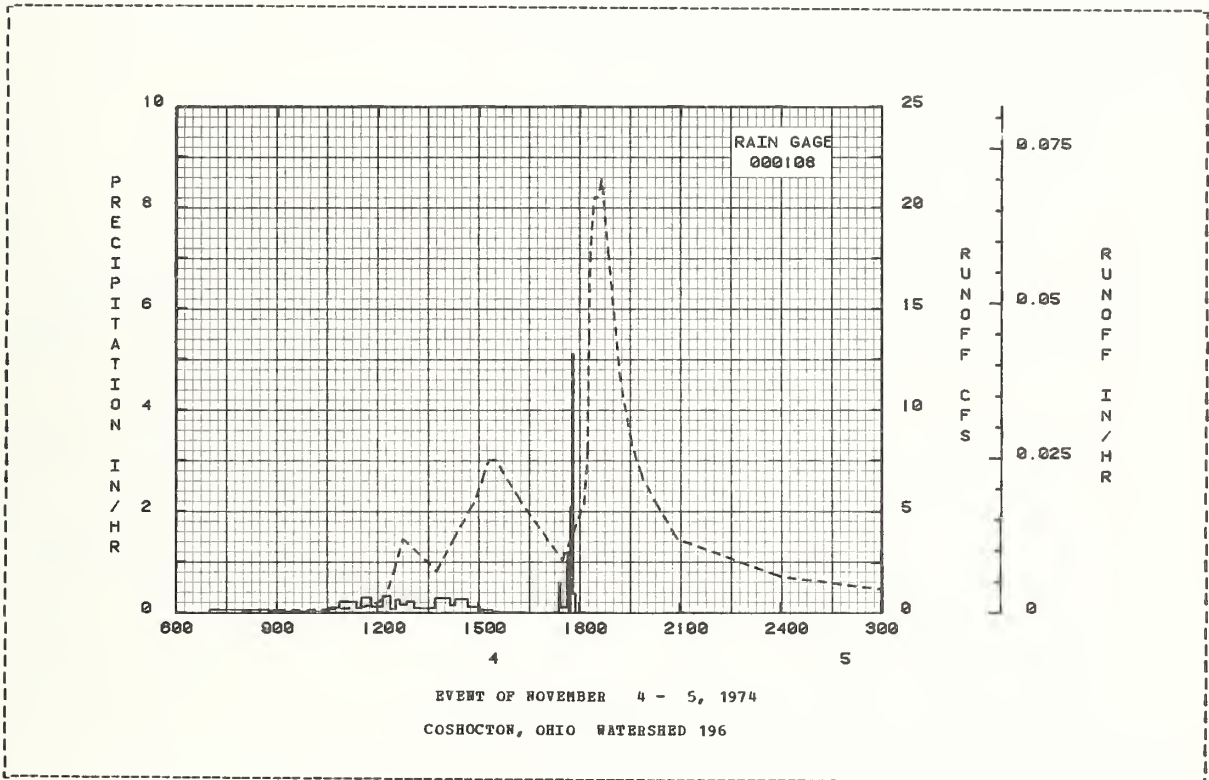
1974 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 196

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 4 - 5, 1974										
11- 4	RG 000108 0.02	0.002	11- 4	RG 000108 700	0.0	0.0	11- 4	800	0.095	0.0
				846	0.0623	0.11		900	0.118	0.0004
				1033	0.0224	0.15		1030	0.138	0.0010
				1052	0.0947	0.18		1130	0.242	0.0016
				1123	0.2129	0.29		1200	0.503	0.0022
				1131	0.0751	0.30		1215	0.831	0.0028
				1139	0.2999	0.34		1230	2.050	0.0040
				1149	0.3000	0.39		1245	3.620	0.0063
				1200	0.1091	0.41		1345	2.050	0.0156
				1210	0.1199	0.43		1415	3.620	0.0202
				1223	0.3231	0.50		1451	5.400	0.0290
				1233	0.0600	0.51		1507	6.560	0.0342
				1240	0.2571	0.54		1511	7.000	0.0357
				1252	0.1500	0.57		1518	7.500	0.0385
				1306	0.2143	0.62		1531	7.500	0.0438
				1336	0.0800	0.66		1617	5.400	0.0600
				1343	0.0857	0.67		1730	2.590	0.0759
				1410	0.2889	0.80		1809	5.400	0.0884
				1419	0.1333	0.82		1815	8.000	0.0866
				1441	0.2727	0.92		1817	13.600	0.0877
				1503	0.1091	0.96		1819	17.800	0.0895
				1526	0.0522	0.98		1826	20.500	0.0966
				1724	0.0102	1.00		1832	20.500	0.1035
				1727	0.6000	1.03		1839	21.400	0.1115
				1739	0.1000	1.05		1851	17.800	0.1243
				1742	1.2000	1.11		1913	11.400	0.1418
				1745	0.0	1.11		1934	8.260	0.1531
				1747	2.0998	1.18		1954	6.560	0.1612
				1749	5.0999	1.35		2017	5.400	0.1687
				1754	0.3600	1.38		2055	3.620	0.1780

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

1974 SELECTED RUNOFF EVENT			COSHOCOTON, 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 NOVEMBER 4 - 5, 1974 (CONTINUED)										
							11- 4	2400	1.770	0.2052

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



COSHOCTON, OHIO WATERSHED 174

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas 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 RUHOFF (inches)												COSHOCTON, OHIO WATERSHED 174		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1974	P	3.10	1.96	4.90	3.25	4.32	2.52	2.82	6.73	3.30	1.28	3.40	4.41	41.99		
	Q	2.497	0.978	2.318	1.812	0.487	0.091	0.055	0.469	0.527	0.075	0.893	2.408	12.611		
STA AV	P	2.26	2.14	3.57	3.34	3.34	2.91	3.83	2.69	2.55	1.95	2.83	2.62	34.03		
	Q	0.918	1.195	2.170	1.545	0.673	0.247	0.411	0.105	0.076	0.071	0.382	0.669	8.461		

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUHOFF (inches) FOR SELECTED TIME INTERVALS															
Date	Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
4-3	1.011	4-3	0.489	4-3	0.573	4-3	0.673	4-3	0.772	4-3	0.869	4-1	1.036	3-29	2.311
MAXIMUMS FOR PERIOD OF RECORD															
7-5 1969	1.085	4-25 1961	0.820	4-25 1961	1.110	7-5 1969	1.802	7-5 1969	2.154	7-5 1969	2.365	3-9 1964	2.540	3-4 1964	3.710

NOTES: Watershed conditions: Cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 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.

1974		DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 174	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.79	0.0	0.0 T	1.31S			
2	0.0	0.0	0.22	0.03	0.29	0.0	0.0	0.27	0.05	0.0	0.04	0.99S			
3	0.02E	0.0 T	0.0	1.29	0.0 T	0.0	0.0	0.21	0.57	0.0	0.0	0.0 T			
4	0.0	0.92S	0.02E	0.02	0.0	0.0	0.49	0.38	0.0	0.0	1.39	0.0			
5	0.0	0.0 T	0.26	0.0	0.05	0.0	0.28	0.0	0.0	0.0	0.06	0.0			
6	0.0	0.85S	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.18	0.0			
7	0.01S	0.01S	0.29	0.0	0.0	0.0 T	0.0	0.0	0.03E	0.0	0.0	0.26			
8	0.12HZ	0.0	0.0	0.26H	0.14	0.0 T	0.0	0.14	0.0	0.0	0.0	0.04			
9	0.13HZ	0.0	0.53	0.03E	0.25	0.0	0.02	0.17	0.0	0.0	0.0	0.0 T			
10	0.12HZ	0.03SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.12HZ	0.04SZ	0.200	0.0	0.407	0.0 6	0.0	0.0 7	0.0	0.0	0.407	0.0			
12	0.13HZ	0.0	0.0	0.0	1.01	0.0	0.0	0.22	0.02E	0.0	0.35	0.07			
13	0.12HZ	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.44	0.0	0.02H	0.08			
14	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.38	0.02H	0.0			
15	0.0	0.0	0.50	0.0	0.10	0.82	0.01E	0.0	0.0	0.50	0.0 T	0.20H			
16	0.0	0.0	0.18H	0.0	0.0	0.15	0.0	0.0	0.0	0.08	0.0	0.0 T			
17	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.76	0.0	0.0	0.0	0.04S			
18	0.53	0.0	0.04	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.0	0.0 T			
19	0.81	0.27	0.09	0.0	0.0	0.09	0.0	0.0	0.0	0.02H	0.02E	0.08S			
20	0.11	0.0	0.01	0.0	0.0	0.10	0.0	0.0	0.62	0.0 T	0.20	0.0			
21	0.07	0.19	0.47H	0.0	0.0	0.52	0.0	0.0	0.49	0.0	0.08S	0.05H			
22	0.0	0.31	0.0	0.24E	0.63	0.79	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.50	0.0	0.22SZ	0.03H	0.25	0.0 T	0.38	0.0	0.0	0.09	0.0	0.20			
24	0.0	0.05SZ	0.23SZ	0.0	0.27	0.0	0.0	0.0	0.0	0.02	0.28	0.43			
25	0.0	0.05SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.32H	0.15			
26	0.19	0.0	0.0	0.0	0.0	0.01E	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	0.71	0.09	0.0	0.01E	0.01E			
28	0.12	0.14E	0.04	0.0	0.05	0.0	0.01	1.89	0.07	0.0	0.0	0.0			
29	0.0	1.37	0.0	0.50	0.0	1.63	1.10	0.13	0.0	0.0	0.0	0.0			
30	0.0	0.23	0.57	0.01	0.04	0.0	0.26	0.0	0.06	0.03H	0.0	0.0			
31	0.0	0.0	0.0	0.04	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.50H			
TOTAL	3.10	1.96	4.90	3.25	4.32	2.52	2.82	6.73	3.30	1.28	3.40	4.41			
STA AV	2.26	2.14	3.57	3.34	3.34	2.91	3.83	2.69	2.55	1.95	2.83	2.62			

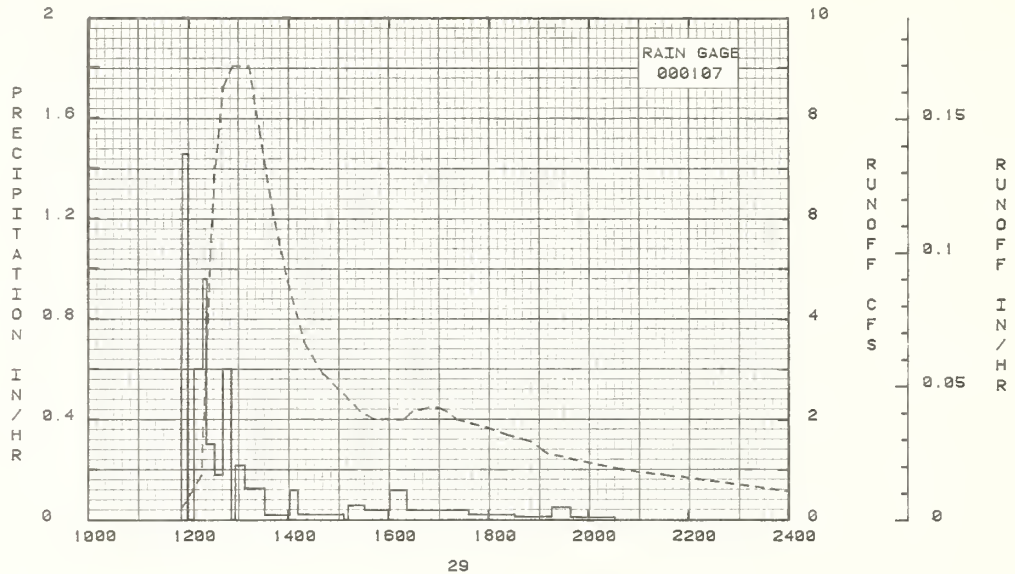
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV based on 14 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1974 MEAN DAILY DISCHARGE (cfs) COSROCTON, OHIO WATERSHED 174												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.033	0.055	0.072	0.336	0.015	0.006	0.0	0.0	0.506	0.009	0.002	0.053
2	0.028	0.053	0.157	0.450	0.010	0.004	0.0	0.0 T	0.040	0.006	0.002	0.084
3	0.027	0.043	0.088	1.765	0.014	0.003	0.0	0.0	0.274	0.007	0.002	0.072
4	0.026	0.037	0.076	0.376	0.010	0.002	0.009	0.017	0.043	0.007	0.404	0.055
5	0.021	0.027	0.124	0.185	0.008	0.002	0.016	0.0	0.015	0.007	0.091	0.046
6	0.021	0.225	0.078	0.134	0.009	0.002	0.0 T	0.0	0.010	0.007	0.054	0.046
7	0.017	0.230	0.153	0.085	0.006	0.001	0.0	0.0	0.008	0.008	0.044	0.218
8	0.012	0.086	0.091	0.106	0.006	0.001	0.0	0.0	0.006	0.004	0.027	0.796
9	0.023	0.056	0.287	0.075	0.018	0.0 T	0.0	0.0	0.005	0.002	0.021	0.229
10	0.028	0.040	0.156	0.064	0.006	0.0	0.0	0.0	0.005	0.002	0.019	0.140
11	0.027	0.039	0.130	0.055	0.016	0.0 T	0.0	0.0	0.005	0.002	0.036	0.123
12	0.019	0.059	0.119	0.042	0.498	0.0 T	0.0	0.002	0.006	0.002	0.377	0.275
13	0.013	0.072	0.074	0.036	0.067	0.0	0.0	0.0	0.021	0.002	0.075	0.191
14	0.017	0.048	0.059	0.049	0.035	0.0	0.0	0.0	0.010	0.006	0.059	0.205
15	0.419	0.033	0.102	0.033	0.026	0.021	0.0	0.0	0.004	0.041	0.039	0.163
16	0.377	0.033	0.293	0.030	0.017	0.005	0.0	0.0	0.003	0.008	0.030	0.264
17	0.200	0.030	0.105	0.024	0.022	0.002	0.0	0.024	0.003	0.005	0.024	0.154
18	0.616	0.027	0.083	0.019	0.021	0.001	0.0	0.0	0.004	0.005	0.021	0.106
19	1.437	0.063	0.087	0.017	0.011	0.001	0.0	0.0	0.003	0.005	0.021	0.096
20	0.278	0.055	0.059	0.015	0.009	0.001	0.0	0.0	0.051	0.004	0.041	0.071
21	0.270	0.040	0.177	0.013	0.007	0.034	0.0	0.0	0.069	0.003	0.034	0.060
22	0.156	0.383	0.084	0.020	0.065	0.037	0.0	0.0	0.016	0.002	0.027	0.050
23	0.489	0.113	0.069	0.016	0.045	0.068	0.0	0.0	0.008	0.002	0.021	0.131
24	0.189	0.089	0.085	0.015	0.042	0.005	0.0	0.0	0.006	0.002	0.038	0.628
25	0.139	0.071	0.082	0.012	0.015	0.003	0.0	0.0	0.005	0.002	0.214	0.320
26	0.125	0.064	0.090	0.008	0.012	0.002	0.0	0.0	0.005	0.002	0.068	0.144
27	0.179	0.062	0.068	0.007	0.008	0.0 T	0.0	0.007	0.005	0.002	0.061	0.106
28	0.122	0.076	0.060	0.006	0.007	0.0 T	0.0	0.331	0.006	0.002	0.055	0.084
29	0.091		1.384	0.005	0.035	0.0 T	0.096	0.393	0.014	0.002	0.039	0.069
30	0.078		0.427	0.022	0.013	0.001	0.001	0.081	0.013	0.002	0.033	0.057
31	0.064		0.221		0.009		0.0	0.185		0.002		0.307
MEAN	0.1787	0.0775	0.1659	0.1340	0.0349	0.0068	0.0039	0.0336	0.0390	0.0053	0.0660	0.1723
INCRS	2.497	0.978	2.318	1.812	0.487	0.091	0.055	0.469	0.527	0.075	0.893	2.408
STA AV	0.918	1.195	2.170	1.545	0.673	0.247	0.411	0.105	0.076	0.071	0.382	0.669

NOTES: To convert CFS to IN/DAY, multiply by 0.45079. STA AV based on 14 yr period, part-year records included.

1974 SELECTED RUNOFF EVENT COSROCTON, 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 MARCR 29, 1974										
RG 000107			RG 000107							
3-29	0.51	0.089	3-29	1152	0.0	0.0	3-29	1152	0.233	0.0
				1159	1.4571	0.17		1216	0.903	0.0043
				1207	0.0	0.17		1218	1.840	0.0051
				1217	0.6000	0.27		1221	3.020	0.0074
				1222	0.9600	0.35		1224	4.100	0.0107
WATERSHED CONDITIONS:										
Cover of 15%, hardwoods; 2%, reforested; 67%, grassland; 16%, miscellaneous. Watershed in improved practice.										
				1232	0.3000	0.40		1226	5.380	0.0137
				1242	0.1800	0.43		1231	6.880	0.0233
				1252	0.6000	0.53		1241	8.620	0.0476
				1257	0.0	0.53		1252	9.020	0.0779
				1308	0.2182	0.57		1312	9.020	0.1344
				1332	0.1250	0.62		1326	7.600	0.1708
				1402	0.0200	0.63		1340	6.210	0.2011
				1412	0.1200	0.65		1359	4.720	0.2336
				1507	0.0218	0.67		1419	3.520	0.2594
				1512	0.0	0.67		1441	2.920	0.2816
				1532	0.0600	0.69		1526	2.160	0.3173
				1602	0.0400	0.71		1543	2.000	0.3284
				1622	0.1200	0.75		1618	2.000	0.3503
				1737	0.0400	0.80		1628	2.160	0.3568
				1832	0.0218	0.82		1648	2.240	0.3706
				1916	0.0136	0.83		1659	2.240	0.3783
				1939	0.0522	0.85		1710	2.160	0.3859
				2032	0.0113	0.86		1722	2.000	0.3937
								1758	1.840	0.4154
								1821	1.700	0.4281
								1851	1.560	0.4434
								1911	1.320	0.4524
								2043	0.998	0.4858
								2134	0.903	0.5010
								2400	0.581	0.5349

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

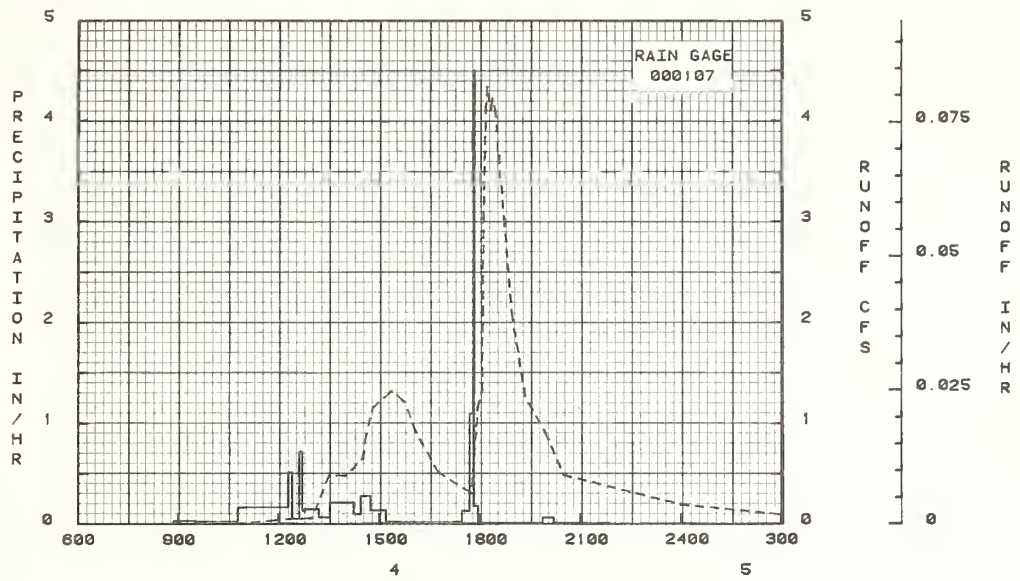


EVENT OF MARCH 29, 1974
 COSHOCTON, OHIO WATERSHED 174

1974 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 NOVEMBER 4 - 5, 1974										
11- 4	0.17	0.001	11- 4	852	0.0	0.0	11- 4	1045	0.005	0.0
				930	0.0316	0.02		1200	0.039	0.0005
				1047	0.0234	0.05		1300	0.064	0.0015
				1217	0.1667	0.30		1330	0.482	0.0040
				1224	0.5143	0.36		1400	0.482	0.0085
WATERSHED CONDITIONS: Cover of hardwoods, 15%; reforested, 2%; grassland, 67%; miscellaneous, 16%. Watershed in improved practice.										
				1237	0.0462	0.37		1430	0.653	0.0139
				1242	0.7200	0.43		1437	0.903	0.0155
				1247	0.1199	0.44		1448	1.150	0.0191
				1312	0.1440	0.50		1522	1.320	0.0322
				1332	0.0600	0.52		1546	1.200	0.0417
				1414	0.2143	0.67		1606	0.903	0.0483
				1427	0.0923	0.69		1645	0.514	0.0570
				1444	0.2824	0.77		1745	0.295	0.0646
				1512	0.1286	0.83		1753	0.903	0.0661
				1728	0.0177	0.87		1756	1.150	0.0670
				1742	0.1286	0.90		1804	1.320	0.0701
				1748	1.1000	1.01		1805	2.160	0.0706
				1750	4.4998	1.16		1806	3.020	0.0714
				1757	0.1715	1.18		1810	4.100	0.0758
				1952	0.0052	1.19		1812	4.340	0.0786
				2012	0.0600	1.21		1819	4.100	0.0879
				2152	0.0060	1.22		1821	4.220	0.0904
								1827	4.100	0.0983
								1843	3.020	0.1160
								1857	2.080	0.1273
								1921	1.260	0.1398
								1957	0.903	0.1520
								2030	0.482	0.1592
								2400	0.195	0.1814

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



EVENT OF NOVEMBER 4 - 5, 1974
COSHOCOTON, OHIO WATERSHED 174

COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tnsicarawas River, Mnskingum River 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												
1974 P	3.10	1.96	4.90	3.25	4.32	2.52	2.82	6.73	3.30	1.28	3.40	4.41	41.99												
1974 Q	2.796	1.279	3.000	2.873	0.921	0.304	0.133	0.429	0.962	0.239	1.427	2.884	17.247												
STA AV P	2.29	2.20	3.41	3.23	3.30	2.91	3.83	2.69	2.55	1.95	2.83	2.62	33.82												
STA AV Q	1.347	1.670	2.970	2.270	1.308	0.514	0.569	0.162	0.157	0.165	0.559	0.996	12.689												

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maxiann Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1974 4-3	0.748		4-3	0.392	4-3	0.500	4-3	0.643	4-3	0.819	4-3	1.068	4-3	1.254	3-29	2.887
MAXIMUMS FOR PERIOD OF RECORD																
1969 7-5	0.959		1961 4-25	0.680	1961 4-25	0.930	1969 7-5	1.620	1969 7-5	1.979	1969 7-5	2.269	1964 3-9	2.600	1964 3-4	3.890

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

1974 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 194												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.79	0.0	0.0 T	1.31S													
2	0.0	0.0	0.22	0.03	0.24	0.0	0.0	0.27	0.05	0.0	0.04	0.99S													
3	0.02E	0.0 T	0.0	1.29	0.0 T	0.0	0.0	0.21	0.57	0.0	0.0	0.0 T													
4	0.0	0.02S	0.02E	0.02	0.0	0.0	0.49	0.38	0.0	0.0	1.39	0.0													
5	0.0	0.0 T	0.26	0.0	0.05	0.0	0.28	0.0	0.0	0.0	0.06	0.0													
6	0.0	0.85S	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.18	0.0													
7	0.01S	0.01S	0.29	0.0	0.0	0.0 T	0.0	0.0	0.0	0.03E	0.0	0.26													
8	0.12HZ	0.0	0.0	0.26H	0.14	0.0 T	0.0	0.14	0.0	0.0	0.0	0.04													
9	0.13HZ	0.0	0.53	0.03E	0.25	0.0	0.02	0.17	0.0	0.0	0.0	0.0 T													
10	0.12HZ	0.03SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
11	0.12HZ	0.04SZ	0.200	0.0	0.407	0.0 6	0.0	0.0 7	0.0	0.0	0.407	0.0													
12	0.13HZ	0.0	0.0	0.0	1.01	0.0	0.0	0.22	0.02E	0.0	0.35	0.07													
13	0.12HZ	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.44	0.0	0.02H	0.08													
14	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.38	0.02H	0.0													
15	0.0	0.0	0.50	0.0	0.10	0.82	0.01E	0.0	0.0	0.50	0.0 T	0.20H													
16	0.0	0.0	0.18H	0.0	0.0	0.15	0.0	0.0	0.0	0.08	0.0	0.0 T													
17	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.76	0.0	0.0	0.0	0.04S													
18	0.53	0.0	0.04	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.0	0.0 T													
19	0.81	0.27	0.09	0.0	0.0	0.09	0.0	0.0	0.0	0.02H	0.02E	0.08S													
20	0.11	0.0	0.01	0.0	0.0	0.10	0.0	0.0	0.62	0.0 T	0.20	0.0													
21	0.07	0.19	0.47H	0.0	0.0	0.52	0.0	0.0	0.49	0.0	0.08S	0.05H													
22	0.0	0.31	0.0	0.24E	0.63	0.79	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.50	0.0	0.22SZ	0.03H	0.25	0.0 T	0.38	0.0	0.0	0.09	0.0	0.20													
24	0.0	0.05SZ	0.23SZ	0.0	0.27	0.0	0.0	0.0	0.0	0.02	0.28	0.43													
25	0.0	0.05SZ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.32H	0.15													
26	0.19	0.0	0.0	0.0	0.0	0.01E	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	0.71	0.09	0.0	0.01E	0.01E													
28	0.12	0.14E	0.04	0.0	0.05	0.0	0.01	1.89	0.07	0.0	0.0	0.0													
29	0.0	1.37	0.0	0.50	0.0	0.0	1.63	1.10	0.13	0.0	0.0	0.0													
30	0.0	0.23	0.57	0.01	0.04	0.04	0.0	0.26	0.0	0.06	0.03H	0.0													
31	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.58	0.0	0.0	0.50H	0.0													
TOTAL	3.10	1.96	4.90	3.25	4.32	2.52	2.82	6.73	3.30	1.28	3.40	4.41													
STA AV	2.29	2.20	3.41	3.23	3.30	2.91	3.83	2.69	2.55	1.95	2.83	2.62													

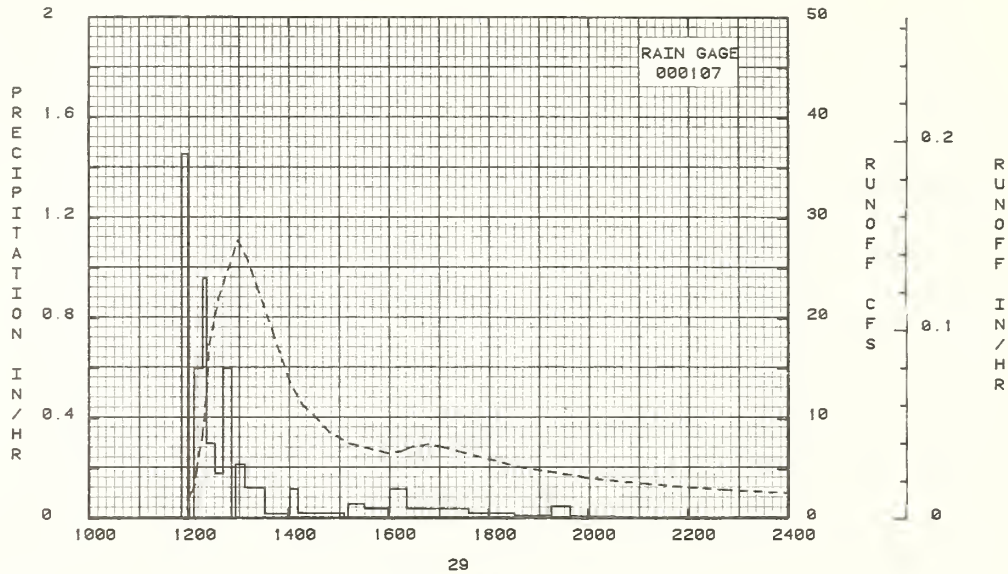
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV based on 14 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1974		MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 194					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.215	0.322	0.370	1.400	0.132	0.130	0.048	0.010	1.629	0.086	0.038	0.360
2	0.242	0.302	0.585	2.642	0.116	0.112	0.032	0.012	0.460	0.079	0.037	0.490
3	0.229	0.258	0.438	6.342	0.121	0.094	0.024	0.025	1.114	0.072	0.037	0.429
4	0.206	0.231	0.398	3.440	0.104	0.079	0.074	0.080	0.442	0.071	1.418	0.332
5	0.181	0.185	0.530	1.136	0.103	0.065	0.087	0.013	0.307	0.072	0.578	0.269
6	0.188	0.748	0.398	0.880	0.099	0.057	0.032	0.009	0.244	0.071	0.337	0.243
7	0.169	0.870	0.654	0.676	0.079	0.058	0.028	0.010	0.201	0.064	0.310	0.604
8	0.136	0.394	0.459	0.750	0.082	0.053	0.024	0.013	0.176	0.058	0.229	2.271
9	0.183	0.308	0.983	0.603	0.137	0.047	0.021	0.015	0.153	0.057	0.202	0.999
10	0.193	0.262	0.757	0.459	0.086	0.042	0.018	0.010	0.141	0.058	0.188	0.703
11	0.176	0.258	0.683	0.398	0.110	0.039	0.015	0.012	0.131	0.058	0.252	0.582
12	0.152	0.275	0.636	0.378	1.694	0.042	0.015	0.060	0.124	0.053	1.348	0.893
13	0.177	0.343	0.459	0.359	0.401	0.038	0.015	0.010	0.210	0.047	0.522	0.793
14	0.152	0.298	0.398	0.376	0.266	0.032	0.013	0.008	0.134	0.054	0.439	0.839
15	0.953	0.192	0.503	0.322	0.223	0.133	0.010	0.006	0.094	0.226	0.342	0.753
16	1.188	0.197	1.256	0.274	0.176	0.070	0.010	0.005	0.086	0.075	0.289	1.006
17	0.838	0.176	0.643	0.229	0.201	0.047	0.009	0.145	0.079	0.058	0.258	0.756
18	2.014	0.172	0.544	0.202	0.176	0.032	0.010	0.013	0.087	0.058	0.243	0.622
19	4.666	0.288	0.562	0.176	0.130	0.034	0.010	0.010	0.071	0.067	0.229	0.516
20	1.311	0.266	0.418	0.152	0.112	0.031	0.009	0.008	0.262	0.053	0.297	0.425
21	1.081	0.240	0.772	0.131	0.103	0.146	0.010	0.005	0.324	0.047	0.269	0.398
22	0.790	1.074	0.522	0.182	0.598	0.153	0.010	0.004	0.171	0.042	0.245	0.350
23	1.613	0.511	0.481	0.152	0.353	0.268	0.027	0.005	0.131	0.038	0.214	0.531
24	0.850	0.439	0.485	0.141	0.337	0.086	0.013	0.005	0.121	0.039	0.273	2.309
25	0.671	0.378	0.433	0.131	0.223	0.079	0.010	0.005	0.121	0.045	0.842	1.292
26	0.652	0.347	0.525	0.121	0.189	0.064	0.010	0.004	0.112	0.042	0.435	0.779
27	0.761	0.328	0.502	0.121	0.152	0.058	0.010	0.049	0.099	0.037	0.398	0.647
28	0.700	0.387	0.437	0.112	0.141	0.123	0.010	0.851	0.113	0.038	0.359	0.544
29	0.501		4.534	0.103	0.277	0.126	0.387	1.093	0.126	0.037	0.307	0.479
30	0.418		2.026	0.179	0.168	0.049	0.035	0.324	0.094	0.040	0.274	0.417
31	0.361		1.179		0.145		0.016	0.551		0.037		1.028
MEAN	0.7087	0.3589	0.7603	0.7523	0.2335	0.0796	0.0338	0.1088	0.2520	0.0606	0.3737	0.7308
INCHES	2.796	1.279	3.000	2.873	0.921	0.304	0.133	0.429	0.962	0.239	1.427	2.884
STA AV	1.347	1.670	2.970	2.270	1.308	0.514	0.569	0.162	0.157	0.165	0.559	0.996

NOTES: To convert CFS to IN/DAY, multiply by 0.12728. STA AV based on 14 yr period.

1974		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 MARCH 29, 1974											
3-29	RG 000107 0.51	0.090	3-29	RG 000107 1152	0.0	0.0	3-29	1201	2.150	0.0	
				1159	1.4571	0.17		1208	3.450	0.0017	
				1207	0.0	0.17		1211	5.620	0.0029	
				1217	0.6000	0.27		1217	8.300	0.0066	
				1222	0.9600	0.35		1223	13.600	0.0125	
WATERSHED CONDITIONS: 21% hardwoods; 2% re-forested; 58% grassland; 11% cultivated practice; 8% miscellaneous. Watershed in improved practice.				1232	0.3000	0.40		1225	17.400	0.0152	
				1242	0.1800	0.43		1236	22.000	0.0343	
				1252	0.6000	0.53		1259	27.800	0.0850	
				1257	0.0	0.53		1312	25.600	0.1156	
				1308	0.2182	0.57		1325	22.500	0.1433	
				1332	0.1250	0.62		1341	18.700	0.1724	
				1402	0.0200	0.63		1402	13.600	0.2024	
				1412	0.1200	0.65		1417	11.400	0.2190	
				1507	0.0218	0.67		1431	10.300	0.2324	
				1512	0.0	0.67		1450	8.580	0.2482	
				1532	0.0600	0.69		1515	7.460	0.2660	
				1602	0.0400	0.71		1600	6.540	0.2938	
				1622	0.1200	0.75		1615	6.770	0.3026	
				1737	0.0400	0.80		1630	7.230	0.3119	
				1832	0.0218	0.82		1648	7.460	0.3236	
				1916	0.0136	0.83		1713	7.000	0.3396	
				1939	0.0522	0.85		1734	6.540	0.3521	
				2032	0.0113	0.86		1837	5.180	0.3848	
								2000	4.080	0.4187	
								2116	3.450	0.4440	
								2253	2.850	0.4710	
								2400	2.590	0.4871	

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



29
EVENT OF MARCH 29, 1974
COSHOCTON, OHIO WATERSHED 194

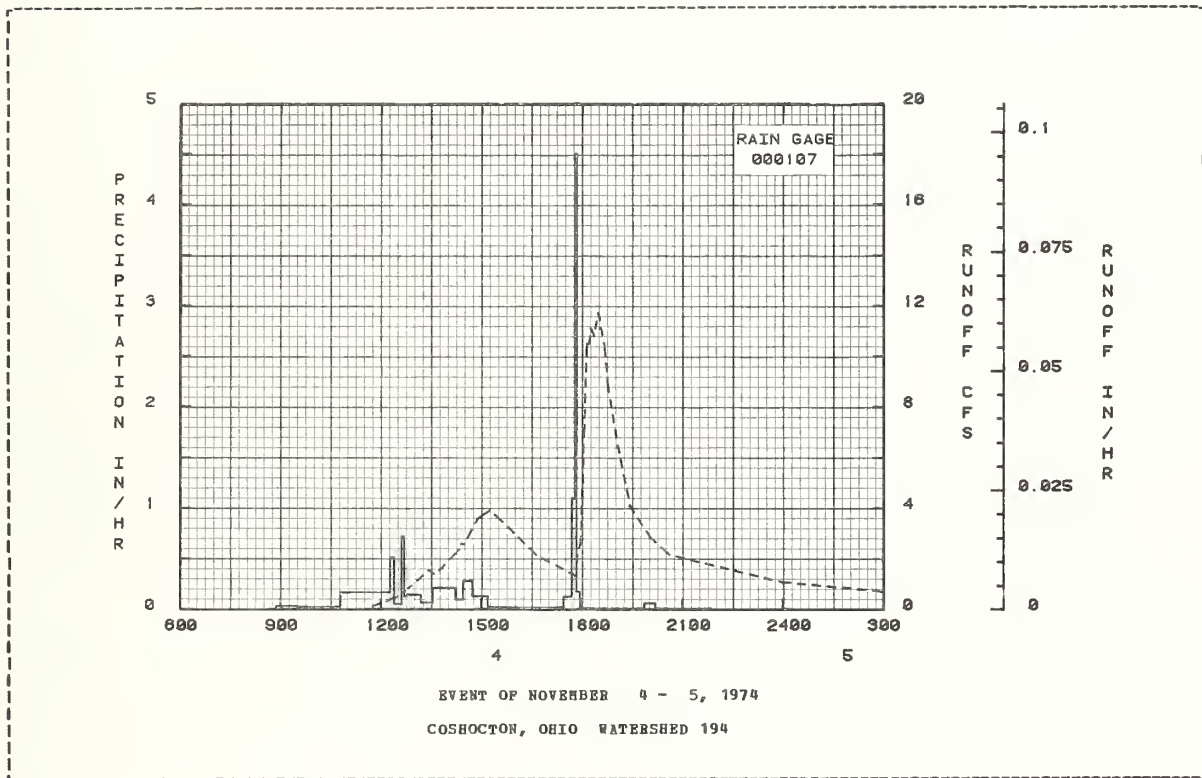
1974 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 194

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 4 - 5, 1974										
11-4	RG 000107 0.17	0.003	11-4	RG 000107 852	0.0	0.0	11-4	1145	0.121	0.0
				930	0.0316	0.02		1230	0.500	0.0013
				1047	0.0234	0.05		1255	0.940	0.0028
				1217	0.1667	0.30		1325	1.550	0.0061
				1224	0.5143	0.36		1335	1.390	0.0075
WATERSHED CONDITIONS: 21% hardwoods; 2% re- forested; 58% grassland; 11% cultivated practice; 8% miscellaneous. Water- shed in improved practice.				1237	0.0462	0.37		1345	1.550	0.0088
				1242	0.7200	0.43		1410	2.150	0.0128
				1247	0.1199	0.44		1420	2.360	0.0148
				1312	0.1440	0.50		1424	2.590	0.0157
				1332	0.0600	0.52		1429	2.590	0.0168
				1414	0.2143	0.67		1443	3.150	0.0204
				1427	0.0923	0.69		1454	3.600	0.0237
				1444	0.2824	0.77		1514	3.910	0.0303
				1512	0.1286	0.83		1538	3.450	0.0381
				1728	0.0177	0.87		1638	2.150	0.0530
				1742	0.1286	0.90		1750	1.310	0.0640
				1748	1.1000	1.01		1752	2.150	0.0643
				1750	4.4998	1.16		1758	2.590	0.0656
				1757	0.1715	1.18		1801	4.420	0.0665
				1952	0.0052	1.19		1804	7.000	0.0680
				2012	0.0600	1.21		1809	10.500	0.0718
				2152	0.0060	1.22		1813	10.500	0.0755
								1816	11.100	0.0785
								1821	10.800	0.0832
								1829	11.700	0.0911
								1841	10.300	0.1028
								1846	8.860	0.1071
								1902	6.770	0.1181
								1926	4.080	0.1296
								2002	2.850	0.1407

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

1974 SELECTED RUNOFF EVENT			COSHOCKTON, 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 NOVEMBER 4 - 5, 1974 (CONTINUED)										
							11- 4	2037	2.150	0.1484
								2400	1.070	0.1773

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



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
1974	P	0.55	2.55	4.41	3.54	4.72	2.74	0.65	7.21	8.95	5.78	5.18	2.22	48.50
	Q	0.388	0.080	3.786	0.932	1.278	2.065	0.0	0.426	6.612	4.500	6.178	1.665	27.911
STA AV	P	0.61	1.08	1.95	2.68	4.57	3.93	4.01	2.99	4.40	2.71	1.74	1.23	31.90
	Q	0.145	0.283	0.890	0.968	1.516	0.931	0.541	0.244	0.858	0.788	0.692	0.384	8.240

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	Date	Vol.				
1974		9-19	3.837	9-19	2.088	9-19	2.883	9-19	3.742	9-19	3.943	11- 2	4.439	11- 2	5.720	10-28	10.140
MAXIMUMS FOR PERIOD OF RECORD																	
		4-18	6.990	8- 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 (R-80) of the Central Rolling Red Prairies land resource area. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 37.1-7 (revised). Precipitation data obtained from R-1 recording rain gage. Precipitation and runoff records began July 1951. STA AV precipitation data from R-3 recording rain gage record through 1968 combined with data from R-1 for 1965 through 1974. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in Sta Av. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1974 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	0.86	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	3.10	0.0	1.65	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.10	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.22	0.15	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	1.71	0.0	0.10	0.0	0.45	0.0	0.30		
7	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.18	0.0		
8	0.0	0.0	0.38	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.41	0.0	1.38	0.0	0.0	0.0	0.0	4.90	0.0	0.0	0.15	0.0		
10	0.0	0.0	2.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
11	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.15	0.0	0.0		
15	0.0	0.58	0.0	0.0	0.0	0.0	0.07	0.0	0.27	0.0	0.0	0.0		
16	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.50	0.03	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	0.57	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	4.70	0.0	0.0	0.0		
20	0.0	0.30	0.13	1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	1.05H	0.0	0.0	0.17	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	0.0	0.67	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.61	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.0	0.85	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	1.19	0.0	0.43	0.0	0.0	0.45	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.07		
27	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0		
28	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0		
29	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.18	0.25	0.0	0.0	0.0	0.0	2.70	0.0	0.85		
31	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.20		
TOTAL	0.55	2.55	4.41	3.54	4.72	2.74	0.65	7.21	8.95	5.78	5.18	2.22		
STA AV	0.61	1.08	1.95	2.68	4.57	3.93	4.01	2.99	4.40	2.71	1.74	1.23		

NOTES: Amounts recorded at rain gage R-1 used for current monthly totals and for runoff events. STA AV based on 24 yr (1951-74) record period.

1974 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	0.560	0.0	0.0	0.0	0.0	0.0	0.007	0.0
2	0.0	0.0	0.0	0.0	0.053	0.0	0.0	0.0	1.566	0.0	1.382	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.497	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.179	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0
6	0.0	0.0	0.0	0.0	0.0	0.709	0.0	0.0	0.0	0.0	0.0	0.016
7	0.0	0.0	0.0	0.0	0.0	0.343	0.0	0.0	0.0	0.0	0.021	0.005
8	0.0	0.0	0.004	0.0	0.0	0.392	0.0	0.0	0.0	0.0	0.010	0.0
9	0.0	0.0	0.715	0.0	0.0	0.005	0.0	0.260	0.0	0.0	0.066	0.0
10	0.0	0.0	1.886	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.142	0.288
11	0.0	0.0	0.043	0.154	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.244
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.028
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
14	0.081	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
15	0.128	0.047	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.046	0.009	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0
17	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	2.773	0.0	0.0	0.0
20	0.0	0.0	0.0	0.255	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0
21	0.0	0.0	0.007	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.273	0.001	0.0	0.0
25	0.0	0.0	0.0	0.0	0.265	0.0	0.0	0.0	0.018	0.100	0.0	0.0
26	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.002	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	0.830	0.0	0.0
29	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0
30	0.0	0.0	0.0	0.215	0.0	0.0	0.0	0.0	0.0	2.099	0.0	0.317
31	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.103	0.0	0.263
MEAN	0.0088	0.0020	0.0857	0.0218	0.0289	0.0483	0.0	0.0096	0.1546	0.1019	0.1445	0.0377
INCHES	0.388	0.080	3.786	0.932	1.278	2.065	0.0	0.426	6.612	4.500	6.178	1.665
STA AV	0.145	0.283	0.890	0.968	1.516	0.931	0.541	0.244	0.858	0.788	0.692	0.384

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

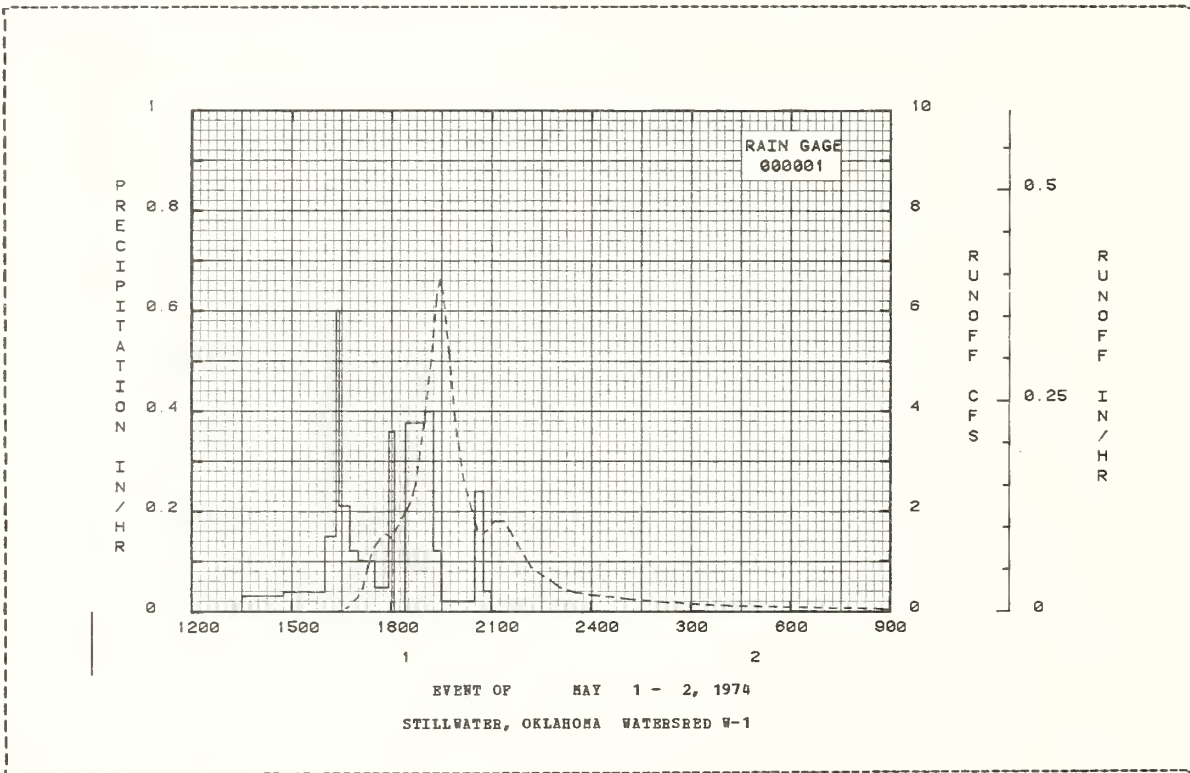
1974 SELECTED RUNOFF EVENT STILLWATER, OKLAHOMA WATERSHED W-1											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 1 - 2, 1974											
5- 1	RG 000001 0.0	0.0	5- 1	RG 000001 1330	0.0	0.0	5- 1	1604	0.0	0.0	
				1445	0.0320	0.04		1620	0.0	0.0	
				1600	0.0400	0.09		1625	0.007	0.0	
				1620	0.1500	0.14		1632	0.020	0.0001	
				1625	0.6000	0.19		1638	0.067	0.0003	
				1645	0.2100	0.26		1642	0.096	0.0006	
				1700	0.1200	0.29		1655	0.241	0.0028	
				1730	0.1000	0.34		1701	0.320	0.0045	
				1755	0.0480	0.36		1708	0.461	0.0072	
				1805	0.3600	0.42		1717	0.862	0.0131	
				1825	0.0	0.42		1724	1.143	0.0200	
				1900	0.3771	0.64		1730	1.303	0.0273	
				1915	0.4000	0.74		1740	1.463	0.0410	
				1930	0.1200	0.77		1750	1.544	0.0559	
				2030	0.0200	0.79		1800	1.463	0.0708	
				2045	0.2400	0.85		1824	1.970	0.1115	
				2100	0.0400	0.86		1834	2.172	0.1320	
								1844	2.593	0.1556	
								1858	3.789	0.1998	
								1911	5.035	0.2566	
								1921	6.332	0.3128	
								1926	6.618	0.3448	
								1932	6.332	0.3833	
								1944	5.035	0.4508	
								1954	3.789	0.4945	
								2010	2.593	0.5450	
								2035	1.623	0.5972	
								2044	1.544	0.6113	
								2053	1.623	0.6254	
								2104	1.802	0.6441	

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

1974 SELECTED RUNOFF EVENT STILLWATER, OKLAHOMA WATERSHED W-1

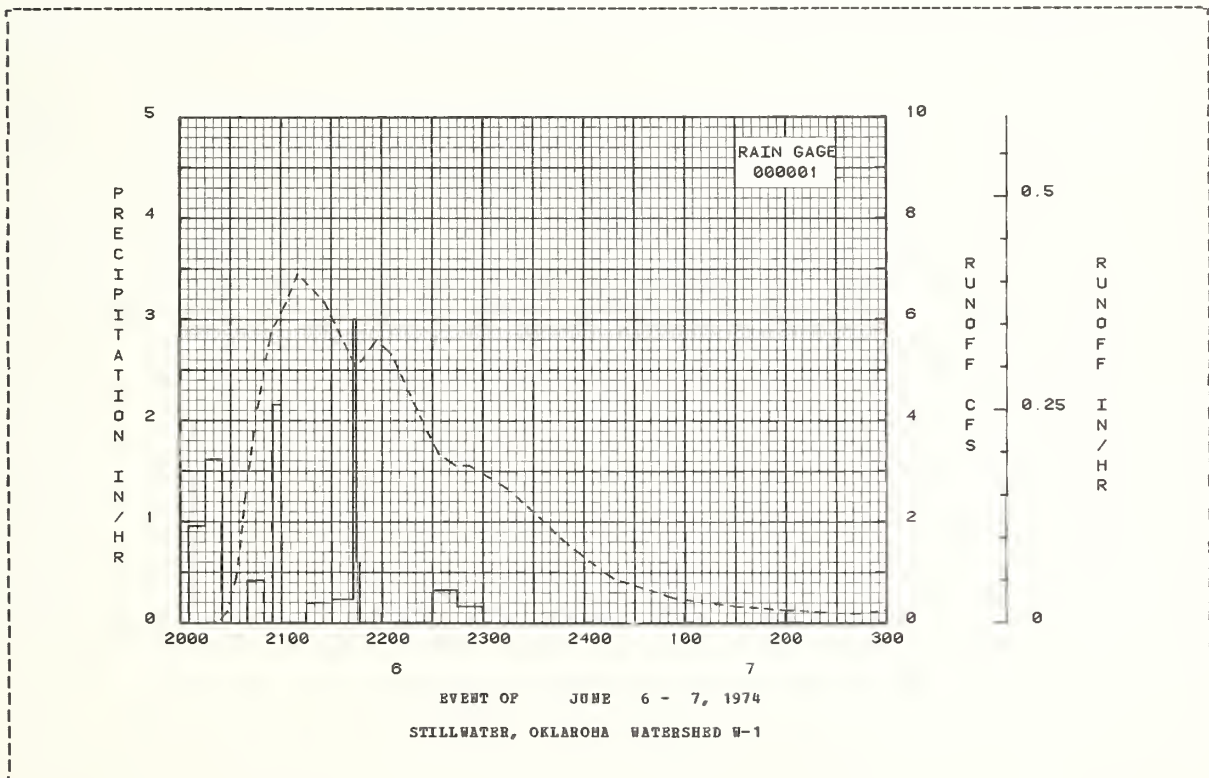
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 1 - 2, 1974 (CONTINUED)										
							5- 1	2122	1.802	0.6762
								2132	1.623	0.6931
								2212	0.862	0.7423
								2306	0.461	0.7777
								2330	0.381	0.7877
							5- 2	2400	0.320	0.7981
								106	0.241	0.8164
								220	0.165	0.8313

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



1974 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 JUNE 6 - 7, 1974										
6- 6	RG 000001 0.69	0.183	6- 6	RG 000001 2005	0.0	0.0	6- 6	2008	0.0	0.0
				2015	0.9600	0.16		2017	0.007	0.0
				2025	1.6200	0.43		2021	0.020	0.0001
				2040	0.0	0.43		2024	0.067	0.0002
				2050	0.4200	0.50		2028	0.241	0.0008
WATERSHED CONDITIONS: 100% of area in native grass pasture in fair condition.				2055	0.0	0.50		2030	0.461	0.0015
				2100	2.1601	0.68		2033	0.862	0.0034
				2115	0.0	0.68		2036	1.623	0.0071
				2130	0.2000	0.73		2039	2.593	0.0134
				2143	0.2308	0.78		2044	3.789	0.0292
				2145	2.9997	0.88		2050	5.035	0.0554
				2147	0.6001	0.90		2054	5.725	0.0767
				2230	0.0	0.90		2103	6.332	0.1304
				2245	0.3200	0.98		2110	6.904	0.1762
				2300	0.1600	1.02		2126	6.332	0.2810
							2145	5.035	0.3879	
							2157	5.591	0.4510	
							2206	5.304	0.4995	
							2227	3.789	0.5941	
							2234	3.334	0.6187	
							2244	3.098	0.6505	
							2252	3.098	0.6751	
							2306	2.829	0.7161	
							2317	2.593	0.7457	
							2337	1.970	0.7908	
							2348	1.623	0.8104	
							2400	1.303	0.8278	
							6- 7	18	0.862	0.8471
							56	0.461	0.8719	
							130	0.320	0.8851	
							200	0.241	0.8934	
							220	0.205	0.8978	
							230	0.184	0.8998	

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



STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. W. 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
1974	P 0.60	2.42	4.00	3.12	4.37	2.77	0.69	6.52	8.92	5.67	4.83	2.23	46.14
	Q 0.074	1.488	3.467	0.723	0.898	1.523	0.0	0.080	4.978	3.401	4.444	1.176	22.252
STA AV	P 0.61	1.08	1.95	2.59	4.48	3.87	3.96	2.97	4.21	2.65	1.70	1.21	31.30
	Q 0.055	0.224	0.693	0.754	1.296	0.742	0.447	0.069	0.735	0.640	0.443	0.233	6.331

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
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.	
1974	9-19	2.975	9-19	1.811	9-19	2.483	9-19	3.062	9-19	3.196	3-9	3.322	11-2	4.175	10-27	7.603
MAXIMUMS FOR PERIOD OF RECORD																
	7-15 1951	4.739	7-15 1951	2.896	7-15 1951	3.486	7-15 1951	3.796	10-2 1959	4.957	10-1 1959	5.185	10-1 1959	6.083	9-30 1959	8.143

NOTES: Watershed conditions: All native grass cover, 32% in hay meadow and 68% in pasture. The hay meadow produced 1.14 tons per acre, approximately 0.5 ton per acre less than in 1971. 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, ARS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gage. Precipitation and runoff records began July 1951. STA AV based on 24 yr (1951-74) record period. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1974 DAILY PRECIPITATION (inches)													STILLWATER, OKLAHOMA WATERSHED W-3
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.87	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	2.95	0.0	1.59	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.86	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.20	0.13	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	1.76	0.0	0.10	0.0	0.50	0.0	0.38	
7	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.14	0.0	
8	0.0	0.0	0.35	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.45	0.0	1.27	0.0	0.0	0.0	0.0	4.57	0.0	0.0	0.16	0.0	
10	0.0	0.0	2.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.65	
11	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	
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	0.20	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.19	0.0	0.0	
15	0.0	0.53	0.0	0.0	0.0	0.0	0.08	0.0	0.27	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.08	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	
18	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.02	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	4.85	0.0	0.0	0.0	
20	0.0	0.35	0.15	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.99	0.0	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	0.35	0.0	0.0	0.50	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.58	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.77	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	1.17	0.0	0.48	0.0	0.0	0.42	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.05	
27	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	
28	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.0	
29	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.17	0.30	0.0	0.0	0.0	0.0	2.50	0.0	0.78	
31	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.07	0.0	0.17	
TOTAL	0.60	2.42	4.00	3.12	4.37	2.77	0.69	6.52	8.92	5.67	4.83	2.23	
STA AV	0.61	1.08	1.95	2.59	4.48	3.87	3.96	2.97	4.21	2.65	1.70	1.21	

NOTES: Amounts recorded at rain gage R-3 used for current monthly totals and for runoff events. STA AV based on 24 yr (1951-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) STILLWATER, OKLAHOMA WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	2.445	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.513	0.0	0.0	0.0	5.921	0.0	5.236	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.246	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.907	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	2.355	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	1.851	0.0	0.0	0.0	0.0	0.002	0.0
8	0.0	0.0	0.005	0.0	0.0	1.642	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	3.138	0.0	0.0	0.037	0.0	0.306	0.0	0.0	0.227	0.0
10	0.0	0.0	9.836	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.558	0.864
11	0.0	0.0	0.421	0.758	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.205
12	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.033
13	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.217	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	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	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	0.748	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.287	0.0	0.0	0.0	0.0	0.0	0.0	12.358	0.0	0.0	0.0
20	0.0	0.005	0.0	1.037	0.0	0.0	0.0	0.0	0.698	0.0	0.0	0.0
21	0.0	4.425	0.0	0.134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.276	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	0.004	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.740	0.0 T	0.0	0.0
25	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.126	0.140	0.0	0.0
26	0.0	0.0	0.0	0.0	0.500	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	3.240	0.0	0.0
29	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.108	0.0	0.0
30	0.0	0.0	0.0	0.850	0.0	0.0	0.0	0.0	0.0	9.099	0.0	1.112
31	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.560	0.0	1.330
MEAN	0.0093	0.2054	0.4322	0.0932	0.1119	0.1962	0.0	0.0100	0.6414	0.4241	0.5725	0.1466
INCRBS	0.074	1.488	3.467	0.723	0.898	1.523	0.0	0.080	4.978	3.401	4.444	1.176
STA AV	0.055	0.224	0.693	0.754	1.296	0.742	0.447	0.069	0.735	0.640	0.443	0.233

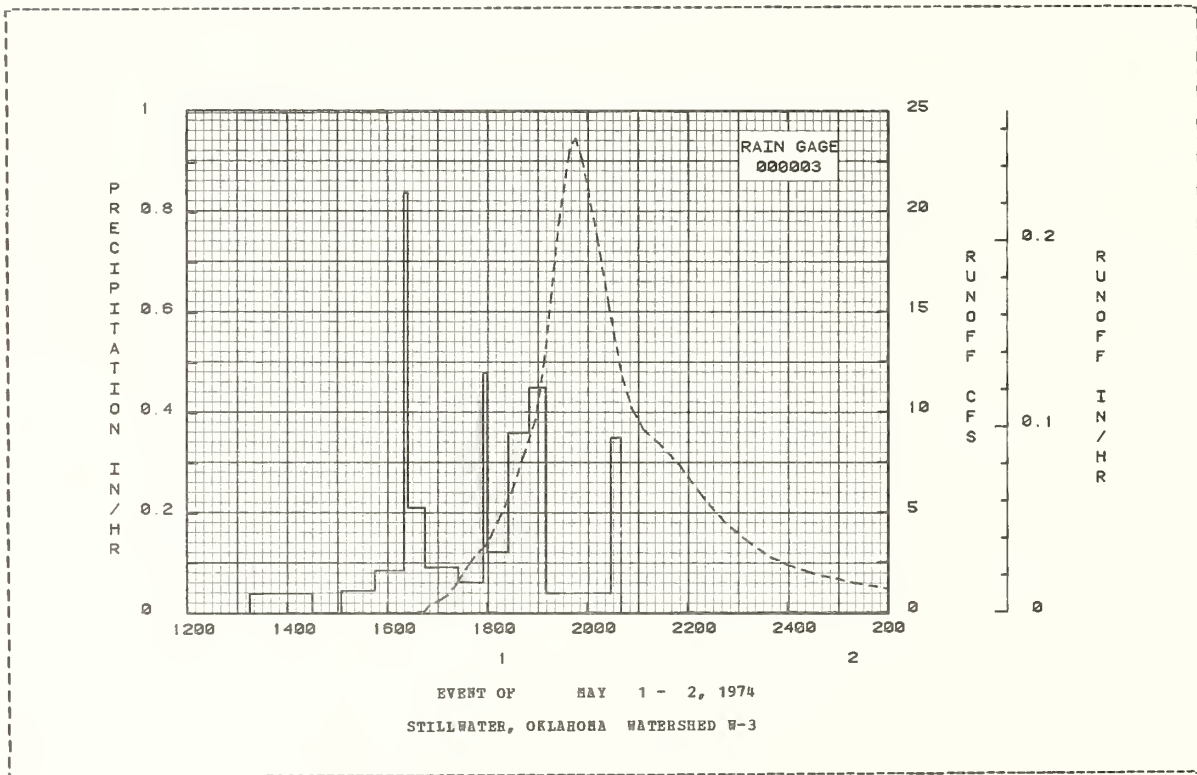
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258714.

1974 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 MAY 1 - 2, 1974											
5- 1	RG 000003 0.0	0.000	5- 1	RG 000003 1315	0.0	0.0	5- 1	1430	0.002	0.0	
				1430	0.0400	0.05		1628	0.025	0.0003	
				1505	0.0	0.05		1644	0.067	0.0004	
				1545	0.0450	0.08		1650	0.379	0.0007	
				1620	0.0857	0.13		1700	0.584	0.0015	
				1625	0.8400	0.20		1712	0.919	0.0032	
				1645	0.2100	0.27		1721	1.360	0.0050	
				1725	0.0900	0.33		1729	1.876	0.0073	
				1755	0.0600	0.36		1738	2.469	0.0108	
				1800	0.4800	0.40		1744	2.795	0.0137	
				1825	0.1200	0.45		1758	3.378	0.0214	
				1850	0.3600	0.60		1804	3.822	0.0253	
				1910	0.4500	0.75		1817	4.979	0.0356	
				2028	0.0385	0.80		1830	6.143	0.0486	
				2040	0.3500	0.87		1843	7.807	0.0649	
								1858	9.658	0.0884	
								1908	12.493	0.1083	
								1917	15.973	0.1313	
								1926	19.521	0.1600	
								1939	23.113	0.2098	
								1946	23.666	0.2392	
								1954	22.597	0.2725	
								2012	18.690	0.3392	
								2027	15.055	0.3847	
								2042	11.677	0.4207	
								2054	10.100	0.4442	
								2107	9.132	0.4667	
								2130	8.240	0.5025	
								2150	7.343	0.5305	
								2220	5.648	0.5656	

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

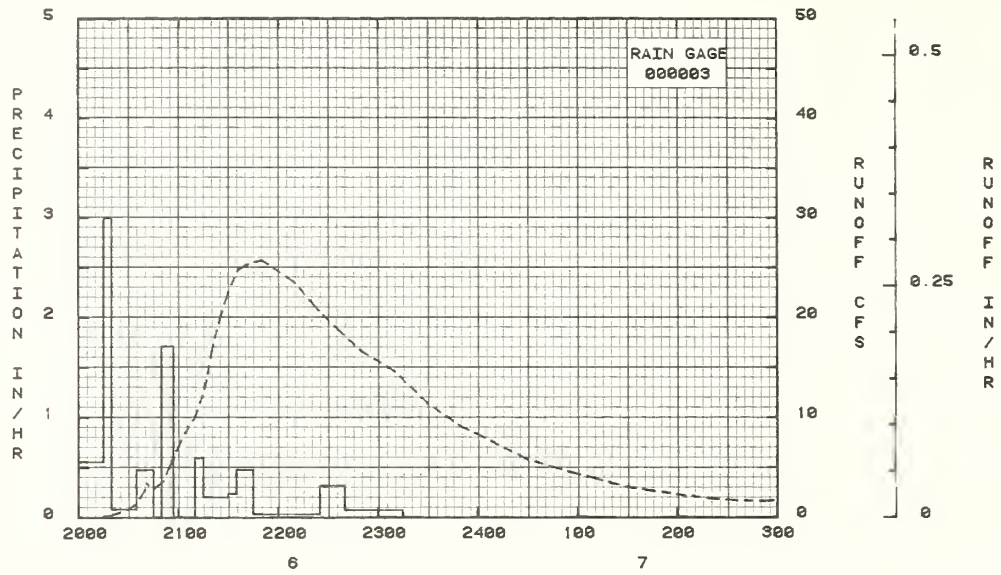
1974 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 1 - 2, 1974 (CONTINUED)										
							5- 1	2245	4.464	0.5883
								2310	3.577	0.6063
								2340	2.723	0.6233
								2400	2.366	0.6324
							5- 2	32	1.901	0.6447
								120	1.444	0.6591
								204	1.150	0.6694
								304	0.903	0.6805
								430	0.714	0.6929
								540	0.600	0.7012
								800	0.495	0.7150
								1400	0.396	0.7438
								2400	0.0	0.7651

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



1974			SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA			WATERSRED W-3		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 6 - 7, 1974											
6- 6	RG 000003 0.73	0.041	6- 6	RG 000003 2000	0.0	0.0	6- 6	2006	0.019	0.0	
				2015	0.5600	0.14		2018	0.126	0.0002	
				2020	3.0000	0.39		2025	0.564	0.0006	
				2035	0.0800	0.41		2030	0.862	0.0012	
				2045	0.4800	0.49		2034	1.317	0.0020	
				2050	0.0	0.49		2037	2.015	0.0029	
				2057	1.7143	0.69		2040	2.846	0.0042	
				2110	0.0	0.69		2041	3.438	0.0048	
				2115	0.5999	0.74		2042	3.217	0.0054	
				2130	0.2000	0.79		2046	2.997	0.0076	
				2135	0.2401	0.81		2051	3.705	0.0106	
				2145	0.4800	0.89		2054	4.890	0.0129	
				2225	0.0300	0.91		2057	6.005	0.0159	
				2240	0.3199	0.99		2100	7.079	0.0194	
				2315	0.0686	1.03		2104	8.435	0.0250	
				2400	0.0	1.03		2110	10.058	0.0349	
								2116	13.004	0.0474	
								2120	16.563	0.0580	
								2125	19.981	0.0744	
								2130	22.608	0.0935	
								2136	24.866	0.1191	
								2142	25.363	0.1462	
								2150	25.753	0.1829	
								2210	23.466	0.2714	
								2224	20.711	0.3269	
								2236	18.769	0.3695	
								2250	16.600	0.4140	
								2310	14.558	0.4699	
								2330	11.372	0.5165	
								2350	9.054	0.5532	
								2400	8.322	0.5688	
							6- 7	12	7.247	0.5856	
								30	5.749	0.6066	
								50	4.779	0.6255	
								57	4.445	0.6313	
								110	3.890	0.6411	
								120	3.424	0.6476	
								130	2.988	0.6534	
								142	2.707	0.6595	
								200	2.263	0.6676	
								220	1.873	0.6750	
								236	1.651	0.6801	
								250	1.582	0.6841	
								258	1.686	0.6865	

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



EVENT OF JUNE 6 - 7, 1974
STILLWATER, OKLAHOMA WATERSHED W-3

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
1974	P	2.56	1.30	1.47	4.37	2.11	0.85	0.61	7.54	5.99	7.57	4.48	1.77	40.62
	Q	0.742	0.252	0.002	1.508	0.202	0.0	0.0	0.482	1.298	3.914	1.923	0.324	10.648
STA AV	P	2.01	2.64	2.22	3.88	3.83	3.33	1.81	2.68	3.37	3.42	3.08	2.38	34.65
	Q	0.510	0.589	0.654	1.031	0.847	0.642	0.212	0.176	0.355	0.524	0.554	0.579	6.673

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			
1974	10-31	0.583	10-31	0.503	10-31	0.893	10-31	1.943	10-31	2.714	10-30	3.798	10-30	3.948	10-30	4.124

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		
3-29 1965	1.580	3-29 1965	1.500	3-29 1965	2.520	3-29 1965	3.550	3-29 1965	3.800	3-29 1965	4.480	9-7 1942	4.780	4-19 1957	8.760

NOTES: Watershed conditions: 83% pasture; 9% row grain sorghum; 2% oats; 1% cotton; 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. Pnb. 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.

1974 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	35	18	77	43	77	54	90	63	76	63	86	65	94	69	90	70	91	72	78	55	72	59	42	26
2	38	18	76	57	78	60	84	54	76	65	86	64	95	37	95	71	92	74	81	57	75	62	45	30
3	35	18	67	41	81	63	86	58	85	69	88	68	95	71	85	68	92	57	83	59	79	68	52	32
4	29	22	61	38	82	64	83	47	86	65	95	69	95	76	88	69	70	55	80	58	80	52	58	36
5	37	27	65	39	80	63	66	39	84	60	92	72	92	74	90	71	74	54	82	59	58	45	57	41
6	47	35	73	44	80	65	70	43	67	59	91	75	96	73	87	72	75	54	83	62	64	46	61	49
7	59	27	61	34	80	66	77	47	75	57	92	75	97	68	84	69	78	57	83	60	67	50	68	43
8	52	27	40	25	81	65	88	48	78	62	90	77	95	71	85	70	82	63	79	67	53	46	59	39
9	65	31	41	27	81	67	71	45	83	65	93	67	95	72	85	72	84	62	82	59	52	48	45	24
10	33	29	59	35	77	66	74	49	86	62	74	62	95	72	94	74	77	67	67	61	59	51	47	27
11	37	25	71	34	80	68	62	46	72	58	87	63	95	69	95	72	81	67	87	62	68	48	45	36
12	39	24	72	35	85	58	54	40	82	62	91	71	94	69	94	74	87	73	83	60	65	44	56	37
13	34	26	76	44	73	45	85	64	86	64	79	62	92	69	96	75	78	64	83	60	60	44	65	39
14	48	34	78	56	67	45	86	49	85	67	90	69	97	74	97	73	64	61	83	60	69	40	60	40
15	62	46	72	52	69	51	66	48	84	74	91	67	99	71	97	73	67	61	75	48	52	35	64	37
16	58	46	67	39	69	53	68	47	90	75	95	71	93	71	97	73	79	66	64	44	56	40	57	35
17	64	47	57	34	67	48	74	46	88	74	97	71	94	69	98	72	85	68	73	46	54	46	50	32
18	78	63	67	36	79	53	76	51	89	73	96	72	93	70	99	73	83	71	82	52	65	44	63	37
19	73	45	74	43	80	63	78	58	89	69	93	72	94	69	99	75	82	70	84	58	64	48	67	38
20	48	38	67	44	78	48	79	61	89	67	94	70	96	71	99	74	85	71	75	51	80	47	62	39
21	62	37	77	51	65	35	75	67	85	68	94	72	99	74	98	70	87	70	75	52	67	44	59	36
22	74	42	73	34	51	34	84	64	84	67	95	71	102	75	98	72	72	62	76	50	73	49	67	41
23	73	38	57	35	68	36	76	55	88	63	96	72	104	76	96	70	74	53	77	53	77	55	73	52
24	45	38	70	33	61	33	77	57	88	68	95	66	104	76	95	71	64	54	78	60	72	45	75	63
25	48	40	47	24	37	33	79	55	88	69	85	59	97	77	94	71	69	54	72	61	54	36	67	34
26	50	42	51	29	47	35	78	58	90	69	85	58	100	76	92	72	61	54	72	55	58	36	39	34
27	68	43	63	29	65	45	79	58	83	58	84	58	98	73	78	71	78	58	71	53	61	39	41	36
28	65	40	71	49	75	57	83	62	80	64	85	60	100	74	89	70	84	60	77	54	62	39	46	40
29	57	35	81	53	82	68	90	71	89	65	100	72	90	71	76	50	73	61	67	41	67	41	52	46
30	65	35	83	51	82	68	93	75	90	64	102	71	75	68	75	51	83	69	41	25	64	52	64	52
31	71	39	88	54	90	67	90	67	90	67	91	72	85	72	81	64	81	64						
AV.	53	35	65	39	73	53	77	54	84	66	90	68	97	71	92	72	78	62	78	57	64	46	57	39
MEAN	44.0		52.1		62.9		65.5		75.2		78.8		83.8		81.7		70.0		67.7		55.0		47.8	
STA AV	58	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 based on 36 yr (1939-1974) period.

1974		DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS WATERSHED C					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01E	0.0	0.0	0.0	1.18	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	0.02	0.0	0.0 E	0.0
3	0.04E	0.0	0.0	0.0	0.16E	0.0	0.0	0.04E	0.42	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.29E	0.0	0.0	0.0	0.0	0.0	0.56	0.0
5	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.12E
6	0.01E	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0
9	0.01E	0.0	0.10E	0.0	0.0	0.46	0.0	0.0	0.36	0.0	0.02E	0.0
10	0.19	0.0	0.16	0.0	0.14	0.0	0.0	0.0	0.47	0.0	0.51	0.80
11	0.0	0.0	0.0 E	1.14	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.07E	0.0	0.0	0.30	0.0	0.0	0.44	0.0	0.0	0.0
13	0.05E	0.0	0.0	2.59	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0
14	0.0	0.06E	0.19	0.0	0.0	0.0	0.33	0.0	0.53	0.99	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.09E	0.05E	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.49	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.75	0.0	0.0	0.0
18	0.91	0.16E	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	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.0
22	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0
23	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.95	0.0
24	0.29	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.17	0.15E	0.24	0.23
25	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0
26	0.30	0.0	0.0	0.0	0.0	0.0	0.06E	2.30	0.05E	0.0	0.0	0.08E
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.08E
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.11	0.0	0.79	0.0	0.07E
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	1.26	0.0	0.0	0.50	0.07E
30	0.0	0.0	0.0	0.14	0.0	0.0	0.0	1.71	0.0	2.32	0.0	0.10E
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.32	0.0	0.22E
TOTAL	2.56	1.30	1.47	4.37	2.11	0.85	0.61	7.54	5.99	7.57	4.48	1.77
STA AV	2.01	2.64	2.22	3.88	3.83	3.33	1.81	2.68	3.37	3.42	3.08	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 based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

1974		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	0.015	0.0	0.0	2.467	0.0	0.0	0.0	0.002	0.0	1.027	0.092
2	0.0	0.012	0.0	0.0	0.236	0.0	0.0	0.0	0.0	0.0	0.204	0.039
3	0.0	0.007	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.071	0.022
4	0.0	0.002	0.0	0.0	1.489	0.0	0.0	0.0	0.0	0.0	1.620	0.015
5	0.0	0.002	0.0	0.0	0.343	0.0	0.0	0.0	0.0	0.0	0.448	0.012
6	0.0	0.002	0.0	0.0	0.265	0.0	0.0	0.0	0.0	0.0	0.105	0.024
7	0.0	0.0	0.0	0.0	0.061	0.0	0.0	0.0	0.0	0.0	3.362	0.017
8	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	1.484	0.007
9	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.341	0.005
10	0.002	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	5.636	3.595
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.949	2.892
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.170	0.319
13	0.0	0.0	0.0	18.091	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.117
14	0.002	0.0	0.0	18.352	0.0	0.0	0.0	0.0	2.941	0.0	0.019	0.063
15	0.0	0.002	0.0	0.197	0.0	0.0	0.0	0.0	0.474	0.0	0.007	0.041
16	0.002	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.063	0.0	0.005	0.019
17	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	24.856	0.0	0.002	0.015
18	0.718	0.0	0.0	0.002	0.0	0.0	0.0	0.0	2.939	0.0	0.002	0.007
19	4.401	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.231	0.0	0.002	0.005
20	0.277	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.051	0.0	0.002	0.002
21	0.080	5.719	0.012	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.002	0.0
22	0.039	0.270	0.002	0.002	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.002
23	0.027	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.017	0.005
24	0.849	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.841	0.005
25	1.778	0.007	0.002	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.418	0.007
26	8.976	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.114	0.010
27	0.552	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.046	0.010
28	0.204	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.015
29	0.083	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.302	0.019
30	0.041	0.0	0.0	0.0	0.0	0.0	0.0	11.645	0.0	25.486	0.494	0.056
31	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.085	0.0	69.728	0.440	0.440
MEAN	0.5825	0.2188	0.0013	1.2231	0.1588	0.0	0.0	0.3784	1.0528	3.0714	1.5591	0.2542
INCHES	0.742	0.252	0.002	1.508	0.202	0.0	0.0	0.482	1.298	3.914	1.923	0.324
STA AV	0.510	0.589	0.654	1.031	0.847	0.642	0.212	0.176	0.355	0.524	0.554	0.579

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.041108. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 29 yr period.

1974 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 OCTOBER 30 - 31, 1974										
10-30	RG 000014 0.0	0.0	10-30	BG 000014 915	0.0	0.0	10-30	1340	0.0	0.0
				920	0.6000	0.05		1350	0.0	0.0
				925	2.6400	0.27		1400	0.001	0.0
				930	1.7999	0.42		1405	0.002	0.0
				935	0.3600	0.45		1410	0.006	0.0
WATERSHED CONDITIONS: 83% pasture; 9% grain sorghum; 2% oats; 1% cotton; 2% gravel and paved roads; 3% other. Approx. 90% of other is Johnsongrass and weeds in conservation reserve, neither tilled nor grazed.				1330	0.0	0.45		1415	0.014	0.0
				1400	0.0200	0.46		1420	0.026	0.0
				1410	0.1199	0.48		1425	0.036	0.0
				1420	0.3601	0.54		1430	0.058	0.0
				1425	0.4799	0.58		1434	0.145	0.0
				1428	0.4001	0.60		1436	0.222	0.0
				1430	2.0998	0.67		1438	0.286	0.0001
				1435	3.4801	0.96		1440	0.358	0.0001
				1440	1.0800	1.05		1442	0.406	0.0001
				1445	3.8399	1.37		1444	0.634	0.0001
				1450	1.2001	1.47		1446	1.060	0.0002
				1455	2.5201	1.68		1448	1.396	0.0002
				1500	1.7999	1.83		1450	1.731	0.0003
				1505	0.3600	1.86		1452	2.259	0.0004
				1510	0.0	1.86		1454	3.019	0.0006
				1515	0.9600	1.94		1456	7.177	0.0009
				1520	0.0	1.94		1458	18.555	0.0016
				1530	0.4200	2.01		1500	36.091	0.0033
				1545	0.0800	2.03		1502	47.435	0.0055
				1550	0.3600	2.06		1504	53.859	0.0086
				1600	0.0	2.06		1506	57.625	0.0116
				1605	0.6000	2.11		1508	60.465	0.0151
				1910	0.0	2.11		1510	62.036	0.0184
				1930	0.0900	2.14		1514	64.334	0.0256
				2000	0.0	2.14		1516	65.035	0.0295
				2100	0.0400	2.18		1522	63.638	0.0402
				2200	0.0500	2.23		1524	65.271	0.0441
				2400	0.0	2.23		1526	70.481	0.0477
			10-31	40	0.0	2.23		1528	82.664	0.0524
				100	0.0900	2.26		1530	97.777	0.0578
				130	0.0	2.26		1532	124.449	0.0637
				200	0.0200	2.27		1534	145.596	0.0719
				205	0.0	2.27		1536	166.000	0.0802
				210	0.6000	2.32		1540	208.328	0.1015
				240	0.0	2.32		1544	234.124	0.1267
				245	0.3600	2.35		1548	255.465	0.1545
				250	0.1199	2.36		1554	266.485	0.1999
				255	0.7200	2.42		1600	272.766	0.2468
				300	0.9600	2.50		1610	265.656	0.3225
				305	0.8401	2.57		1620	244.418	0.3958
				310	0.5999	2.62		1630	215.609	0.4620
				315	4.4401	2.99		1640	188.583	0.5188
				320	4.7999	3.39		1650	159.519	0.5689
				325	0.3600	3.42		1700	140.502	0.6120
				340	0.1200	3.45		1710	125.825	0.6494
				345	1.0801	3.54		1720	105.473	0.6827
				410	0.0960	3.58		1740	86.665	0.7374
				415	0.8401	3.65		1800	72.115	0.7830
				430	0.1200	3.68		1820	59.910	0.8206
				445	0.0800	3.70		1840	50.182	0.8519
				450	0.7200	3.76		1900	42.790	0.8786
				455	1.5601	3.89		1930	33.802	0.9114
				500	1.0800	3.98		2000	27.457	0.9377
				505	0.4801	4.02		2030	23.167	0.9593
				510	0.7200	4.08		2100	19.255	0.9775
				515	0.9600	4.16		2130	16.567	0.9928
				520	0.4799	4.20		2200	14.704	1.0062
				535	0.4000	4.30		2230	13.108	1.0181
				545	0.0600	4.31		2300	11.940	1.0289
				550	0.8401	4.38		2400	10.013	1.0477
				555	0.3600	4.41	10-31	100	8.481	1.0635
				600	2.0400	4.58		200	7.429	1.0771
				800	0.0	4.58		240	6.997	1.0853
				805	0.6000	4.63		250	7.222	1.0874
				810	0.2401	4.65		255	7.453	1.0884

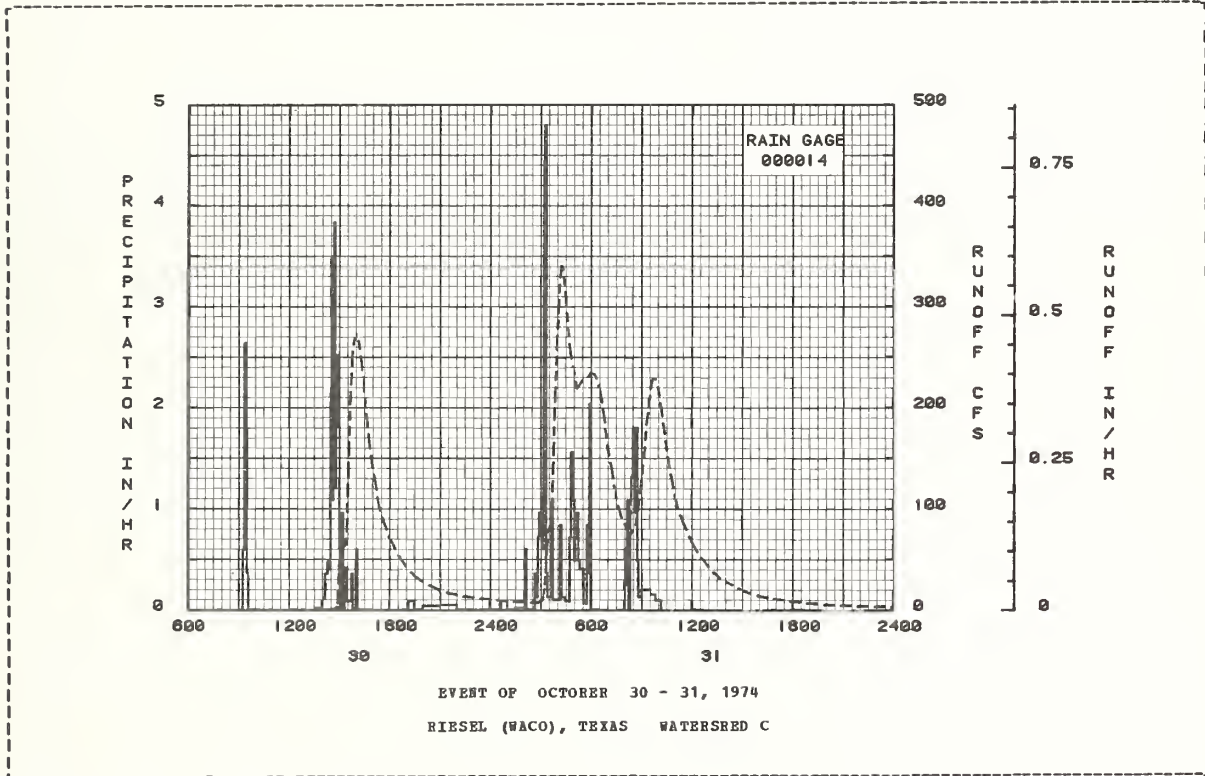
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.

1974			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 OCTOBER 30 - 31, 1974 (CONTINUED)										
			10-31	815	1.0800	4.74	10-31	300	8.177	1.0896
				820	0.0	4.74		305	9.087	1.0908
				825	0.9600	4.82		310	13.072	1.0923
				830	1.3200	4.93		312	15.900	1.0932
				835	1.7999	5.08		314	20.616	1.0942
				840	0.9600	5.16		316	25.360	1.0956
				845	1.7999	5.31		318	32.454	1.0971
				850	0.4801	5.35		320	38.020	1.0992
				900	0.1199	5.37		322	47.435	1.1015
				930	0.2000	5.47		324	59.800	1.1047
				950	0.1500	5.52		326	69.736	1.1082
			1010	0.0900	5.55			330	78.531	1.1171
								333	81.824	1.1236
								336	83.651	1.1308
								340	93.089	1.1408
								342	102.474	1.1467
								344	127.445	1.1529
								346	145.596	1.1611
								348	165.714	1.1694
								350	191.128	1.1802
								352	212.812	1.1910
								356	242.871	1.2169
								400	271.080	1.2478
								405	306.862	1.2884
								410	329.750	1.3332
								414	340.177	1.3713
								416	339.173	1.3917
								420	336.673	1.4301
								430	308.253	1.5229
								440	270.240	1.6042
								450	247.927	1.6787
								500	232.628	1.7479
								510	218.435	1.8112
								530	227.086	1.9394
								550	230.399	2.0695
								600	234.875	2.1364
								610	233.375	2.2022
								620	228.554	2.2687
								630	217.726	2.3329
								640	204.930	2.3923
								650	185.129	2.4484
								700	160.074	2.4980
								710	144.565	2.5408
								720	130.261	2.5804
								730	110.093	2.6149
								740	99.217	2.6444
								750	91.111	2.6717
								800	84.790	2.6970
								810	79.209	2.7201
								820	74.815	2.7422
								830	77.858	2.7642
								840	84.361	2.7870
								850	101.162	2.8137
								900	128.145	2.8467
								910	153.776	2.8863
								920	187.007	2.9353
								930	211.771	2.9927
								935	222.727	3.0232
								940	228.554	3.0548
								945	230.399	3.0887
								950	227.452	3.1208
								1000	218.790	3.1850
								1010	198.922	3.2437
								1020	181.417	3.2984
								1030	157.861	3.3472
								1040	141.005	3.3892
								1050	127.678	3.4279
								1100	109.919	3.4621
								1110	100.024	3.4915
								1120	92.477	3.5192
								1140	79.073	3.5680
								1200	66.695	3.6100
								1220	57.304	3.6452
								1240	48.842	3.6754
								1300	42.619	3.7017

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED C							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	1320	36.700	3.7243
								1340	31.486	3.7437
								1400	27.892	3.7607
								1500	19.208	3.8011
								1530	16.314	3.8163
								1600	13.796	3.8292
								1630	11.940	3.8402
								1700	10.486	3.8498
								1800	8.252	3.8659
								1900	6.373	3.8784
								2000	5.163	3.8883
								2100	4.331	3.8964
								2200	3.658	3.9032
								2300	3.140	3.9090
								2400	2.744	3.9141

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



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	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec	Annual	
1974	P 2.46	1.25	1.50	4.32	2.08	0.85	0.61	7.48	6.40	7.44	4.58	1.76	40.73	
	Q 0.550	0.167	0.0	1.380	0.097	0.0	0.0	0.561	1.542	4.004	1.918	0.230	10.448	
STA AV	P 2.07	2.63	2.28	3.86	3.75	3.38	1.82	2.57	3.32	3.27	3.00	2.38	34.34	
	Q 0.525	0.570	0.682	1.067	0.930	0.647	0.228	0.195	0.353	0.525	0.540	0.562	6.824	

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.
1974	10-31	0.500	10-31	0.468	10-31	0.911	10-31	2.089	10-31	2.901	10-30	3.892	10-30	4.034	10-30	4.199
	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: 82% pasture; 11% row grain sorghum; 1% cotton; 1% 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. Pnb. 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.

1974 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED D	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.22	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	0.01	0.0	0.0	0.0		
3	0.03E	0.0	0.0	0.0	0.10E	0.0	0.0	0.03E	0.37	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.26E	0.0	0.0	0.0	0.0	0.0	0.56	0.0		
5	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.14E		
6	0.01E	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.0		
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0		
9	0.01E	0.0	0.09E	0.0	0.0	0.44	0.0	0.0	0.35	0.0	0.02E	0.0		
10	0.19	0.0	0.18E	0.0	0.15	0.0	0.0	0.0	0.51	0.0	0.49	0.78		
11	0.0	0.0	0.01E	1.13	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.08E	0.0	0.0	0.36	0.0	0.0	0.49	0.0	0.0	0.0		
13	0.06E	0.0	0.0	2.58	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0		
14	0.0	0.05E	0.21	0.0	0.0	0.0	0.26	0.0	0.58	0.90	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.05E	0.14E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.56	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.08	0.0	0.0	0.0		
18	0.81	0.17E	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	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0		
23	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.02	0.0		
24	0.29	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.15	0.14E	0.25	0.23		
25	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
26	0.30	0.0	0.0	0.0	0.0	0.0	0.06E	2.32	0.04E	0.0	0.0	0.08E		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.07E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.77	0.0	0.07E		
29	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	1.25	0.0	0.0	0.50	0.07E		
30	0.0	0.0	0.0	0.13	0.0	0.0	0.0	1.63	0.0	2.29	0.0	0.10E		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.34	0.0	0.0	0.22E		
TOTAL	2.46	1.25	1.50	4.32	2.08	0.85	0.61	7.48	6.40	7.44	4.58	1.76		
STA AV	2.07	2.63	2.28	3.86	3.75	3.38	1.82	2.57	3.32	3.27	3.00	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 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 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1974		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSRRED D	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.03	0.0	0.0	2.29	0.0	0.0	0.0	0.0	0.0	1.78	0.13
2	0.0	0.02	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.39	0.05
3	0.0	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.02
4	0.0	0.00	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	2.63	0.02
5	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.62	0.03
6	0.0	0.00	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.13	0.05
7	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	6.71	0.01
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	2.55	0.01
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.10	4.66
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.52	4.38
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.47
13	0.0	0.0	0.0	28.57	0.0	0.0	0.0	0.0	0.02	0.0	0.08	0.16
14	0.0	0.0	0.0	35.45	0.0	0.0	0.0	0.0	4.41	0.0	0.02	0.08
15	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.76	0.0	0.01	0.05
16	0.00	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.10	0.0	0.01	0.02
17	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	59.74	0.0	0.00	0.01
18	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.27	0.0	0.0	0.01
19	5.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.00	0.00
20	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0
21	0.07	7.21	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0
22	0.02	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.00
23	0.01	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.76	0.0
24	0.89	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.24	0.01
25	1.96	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.64	0.00
26	15.11	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.16	0.01
27	0.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.01
28	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.03	0.02
29	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.41	0.03
30	0.06	0.0	0.0	0.0	0.0	0.0	0.0	25.51	0.0	44.75	0.62	0.07
31	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	141.98	0.42	0.42
MEAN	0.8279	0.2778	0.0	2.1455	0.1459	0.0	0.0	0.8435	2.3963	6.0236	2.9812	0.3459
INCRS	0.550	0.167	0.0	1.380	0.097	0.0	0.0	0.561	1.542	4.004	1.918	0.230
STA AV	0.525	0.570	0.682	1.067	0.930	0.647	0.228	0.195	0.353	0.525	0.540	0.562

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 30 yr period.

1974		SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS				WATERSRRED D		
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 OCTOBER 30 - 31, 1974											
10-30	RG 000014	0.0	10-30	RG 000014	915	0.0	0.0	10-30	1010	0.0	0.0
					920	0.6000	0.05		1015	0.0	0.0
					925	2.6400	0.27		1020	0.002	0.0
					930	1.7999	0.42		1025	0.012	0.0
					935	0.3600	0.45		1030	0.129	0.0
WATERSHED CONDITIONS:					1330	0.0	0.45	1035	0.321	0.0	
82% pasture; 11% row grain					1400	0.0200	0.46	1040	0.372	0.0	
sorghum; 1% oats; 1% cotton;					1410	0.1199	0.48	1045	0.392	0.0001	
2% roads; 3% other.					1420	0.3601	0.54	1050	0.381	0.0001	
Approx. 90% of other is John-					1425	0.4799	0.58	1100	0.333	0.0001	
songrass and weeds in conser-					1428	0.4001	0.60	1120	0.238	0.0002	
vation reserve, neither til-					1430	2.0998	0.67	1140	0.185	0.0003	
led nor grazed.					1435	3.4801	0.96	1200	0.126	0.0003	
					1440	1.0800	1.05	1220	0.093	0.0004	
					1445	3.8399	1.37	1240	0.068	0.0004	
					1450	1.2001	1.47	1300	0.049	0.0004	
					1455	2.5201	1.68	1320	0.040	0.0004	
					1500	1.7999	1.83	1340	0.030	0.0004	
					1505	0.3600	1.86	1350	0.035	0.0004	
					1510	0.0	1.86	1400	0.032	0.0004	
					1515	0.9600	1.94	1410	0.037	0.0004	
					1520	0.0	1.94	1415	0.045	0.0004	
					1530	0.4200	2.01	1420	0.058	0.0005	
					1545	0.0800	2.03	1425	0.082	0.0005	
					1550	0.3600	2.06	1430	0.172	0.0005	
					1600	0.0	2.06	1435	0.685	0.0005	
					1605	0.6000	2.11	1440	3.107	0.0006	
					1910	0.0	2.11	1445	9.231	0.0011	
					1930	0.0900	2.14	1450	16.139	0.0020	
					2000	0.0	2.14	1455	29.855	0.0037	

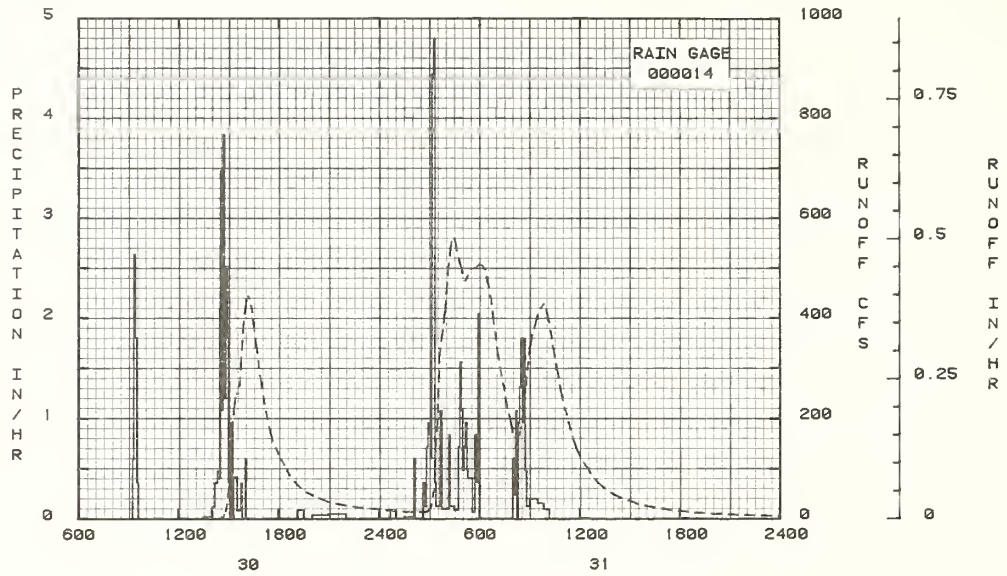
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED D							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			OCTOBER 30 - 31, 1974 (CONTINUED)							
10-30				2100	0.0400	2.18	10-30	1500	51.960	0.0069
				2200	0.0500	2.23		1505	71.320	0.0114
				2400	0.0	2.23		1510	131.960	0.0188
10-31				40	0.0	2.23		1515	194.160	0.0313
				100	0.0900	2.26		1520	215.400	0.0464
				130	0.0	2.26		1525	241.680	0.0631
				200	0.0200	2.27		1530	251.040	0.0820
				205	0.0	2.27		1535	249.600	0.1004
				210	0.6000	2.32		1540	267.600	0.1193
				240	0.0	2.32		1545	307.350	0.1414
				245	0.3600	2.35		1550	356.878	0.1657
				250	0.1199	2.36		1555	394.020	0.1932
				255	0.7200	2.42		1600	420.479	0.2245
				300	0.9600	2.50		1605	438.120	0.2560
				305	0.8401	2.57		1610	444.000	0.2883
				310	0.5999	2.62		1615	438.948	0.3222
				315	4.4401	2.99		1620	425.750	0.3539
				320	4.7999	3.39		1625	410.898	0.3845
				325	0.3600	3.42		1630	389.128	0.4153
				340	0.1200	3.45		1640	345.000	0.4691
				345	1.0801	3.54		1650	300.300	0.5175
				410	0.0960	3.58		1700	259.240	0.5595
				415	0.8401	3.65		1710	228.840	0.5952
				430	0.1200	3.68		1720	198.540	0.6273
				445	0.0800	3.70		1730	171.250	0.6551
				450	0.7200	3.76		1740	154.190	0.6789
				455	1.5601	3.89		1750	140.690	0.7010
				500	1.0800	3.98		1800	128.270	0.7212
				505	0.4801	4.02		1810	116.720	0.7392
				510	0.7200	4.08		1820	106.640	0.7559
				515	0.9600	4.16		1830	95.620	0.7711
				520	0.4799	4.20		1840	85.940	0.7884
				535	0.4000	4.30		1900	71.780	0.8081
				545	0.0600	4.31		1920	60.540	0.8277
				550	0.8401	4.38		1940	52.500	0.8445
				555	0.3600	4.41		2000	46.500	0.8593
				600	2.0400	4.58		2030	39.480	0.8785
				800	0.0	4.58		2100	32.636	0.8946
				805	0.6000	4.63		2130	28.925	0.9084
				810	0.2401	4.65		2200	26.265	0.9207
				815	1.0800	4.74		2300	21.391	0.9420
				820	0.0	4.74		2400	17.997	0.9596
				825	0.9600	4.82	10-31	100	14.703	0.9742
				830	1.3200	4.93		140	13.036	0.9824
				835	1.7999	5.08		200	12.466	0.9863
				840	0.9600	5.16		240	12.892	0.9938
				845	1.7999	5.31		250	13.588	0.9958
				850	0.4801	5.35		255	15.103	0.9968
				900	0.1199	5.37		300	17.632	0.9981
				930	0.2000	5.47		305	20.011	0.9995
				950	0.1500	5.52		310	28.729	1.0012
				1010	0.0900	5.55		315	52.140	1.0044
								320	60.100	1.0085
								325	144.180	1.0160
								330	198.450	1.0291
								335	280.560	1.0467
								340	339.530	1.0694
								345	362.780	1.0963
								350	376.250	1.1234
								355	404.810	1.1520
								400	434.178	1.1843
								405	470.090	1.2174
								410	510.479	1.2533
								415	529.608	1.2933
								420	553.198	1.3329
								430	559.418	1.4164
								440	533.840	1.4965
								450	509.320	1.5748
								500	489.438	1.6498
								510	474.638	1.7204
								520	485.280	1.7924
								530	499.610	1.8664
								540	500.540	1.9397
								550	502.388	2.0149
								600	507.010	2.0906

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED D				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	610	505.158	2.1648
								620	496.840	2.2400
								630	474.638	2.3129
								640	442.729	2.3801
								650	402.490	2.4436
								700	356.198	2.5005
								710	316.330	2.5498
								720	284.698	2.5949
								730	255.060	2.6354
								740	222.000	2.6703
								750	198.200	2.7019
								800	171.560	2.7296
								810	161.560	2.7540
								820	151.880	2.7776
								830	182.900	2.8027
								840	221.640	2.8323
								850	282.388	2.8701
								900	339.719	2.9168
								910	366.378	2.9686
								920	387.620	3.0252
								930	407.600	3.0848
								940	420.350	3.1455
								950	428.418	3.2092
								1000	416.398	3.2726
								1010	389.999	3.3317
								1020	358.800	3.3879
								1030	322.830	3.4390
								1040	295.530	3.4843
								1050	261.300	3.5261
								1100	235.300	3.5634
								1120	191.300	3.6267
								1140	151.220	3.6775
								1200	124.640	3.7189
								1220	107.120	3.7532
								1240	90.020	3.7825
								1300	74.740	3.8072
								1330	59.630	3.8372
								1400	48.500	3.8614
								1430	40.760	3.8813
								1500	35.320	3.8983
								1530	28.860	3.9126
								1600	25.064	3.9247
								1630	21.973	3.9352
								1700	19.419	3.9444
								1730	16.961	3.9526
								1800	14.703	3.9596
								1900	11.614	3.9714
								2000	9.287	3.9807
								2100	7.590	3.9883
								2200	6.345	3.9945
								2300	5.352	3.9997
								2400	4.529	4.0041

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



HISEL (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: 4380.00 acres 6.84 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														HISEL (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
1974	P	2.32	1.15	1.52	4.10	1.93	0.72	0.73	7.07	7.32	7.09	4.45	1.69	40.09	P	2.26	2.70	2.26	3.61	3.34	4.02	2.09	2.94	3.55	3.54	3.04	2.63	35.98	
	Q	0.541	0.156	0.002	0.838	0.080	0.0	0.0	0.157	2.004	3.944	1.870	0.246	9.838	Q	0.747	0.699	0.761	0.759	0.658	0.966	0.258	0.161	0.372	0.488	0.605	0.633	7.105	
STA AV		P	2.26	2.70	2.26	3.61	3.34	4.02	2.09	2.94	3.55	3.54	3.04	2.63	35.98	Q	0.747	0.699	0.761	0.759	0.658	0.966	0.258	0.161	0.372	0.488	0.605	0.633	7.105

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.	
1974	10-31	0.515	10-31	0.498	10-31	0.928	10-31	2.288	10-31	3.165	10-30	3.784	10-30	3.988	10-30	4.140

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

NOTES: Watershed conditions: 53% pasture; 2% tilled, but not planted; 4% cotton; 4% corn; 3% fall planted small grain, largely oats; 14% sorghum; 2% gravel and paved roads; 18% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 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.

1974 DAILY PRECIPITATION (inches)														HISEL (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	0.01E	0.0	0.0	0.0	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.01E	0.0	0.0	0.0	1.19	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0E	0.0	0.0	0.0	0.0	0.0	0.0E	0.0	2	0.0	0.0	0.0	0.0	0.0E	0.0	0.0	0.0	0.0E	0.0	0.0			
3	0.04E	0.0	0.0	0.0	0.04E	0.0	0.0	0.08E	0.43	0.0	0.0	0.0	3	0.04E	0.0	0.0	0.0	0.04E	0.0	0.08E	0.43	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.43	4	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.43	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.15E			
6	0.01E	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.01E	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	7	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0			
8	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.13E	8	0.02E	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.13E	0.0			
9	0.02E	0.0	0.07E	0.0	0.0	0.35	0.0	0.0	0.35	0.0	0.05E	0.0	9	0.02E	0.0	0.07E	0.0	0.0	0.0	0.0	0.35	0.0	0.05E	0.0			
10	0.19	0.0	0.21E	0.0	0.15	0.0	0.0	0.0	0.78	0.0	0.43	0.73	10	0.19	0.0	0.21E	0.0	0.15	0.0	0.0	0.78	0.0	0.43	0.73			
11	0.0	0.0	0.05E	1.05	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.05E	1.05	0.0	0.0	0.08E	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.11E	0.0	0.0	0.35	0.0	0.0	0.51	0.0	0.0	0.0	12	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.07E	0.0	0.0	2.36	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	13	0.07E	0.0	0.0	2.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.05E	0.27	0.0	0.0	0.0	0.19	0.0	0.59	0.78	0.0	0.0	14	0.0	0.05E	0.27	0.0	0.0	0.0	0.19	0.0	0.59	0.78	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.02E	0.11E	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.02E	0.11E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.66	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.66	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.0		
18	0.63	0.17E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.63	0.17E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.57	0.0E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.57	0.0E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.0	21	0.0	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0		
23	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.0	23	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.05	0.0	0.0		
24	0.28	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.12	0.14E	0.26	0.29	24	0.28	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.12	0.14E	0.26	0.29		
25	0.47	0.0	0.0E	0.0	0.0	0.0	0.0	0.0E	0.27	0.0	0.0	0.0	25	0.47	0.0	0.0E	0.0	0.0	0.0	0.0	0.0E	0.27	0.0	0.0	0.0		
26	0.30	0.0	0.0	0.0	0.0	0.0	0.10E	2.25	0.03E	0.0	0.0	0.09E	26	0.30	0.0	0.0	0.0	0.0	0.0	0.10E	2.25	0.03E	0.0	0.0	0.09E		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.06E	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.06E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.79	0.0	0.06E	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.0	0.79	0.0	0.06E		
29	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	1.04	0.0	0.0	0.43	0.06E	29	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.43	0.06E	
30	0.0	0.0	0.0	0.19	0.0	0.0	0.0	1.41	0.0	2.00	0.0	0.09E	30	0.0	0.0	0.0	0.19	0.0	0.0	0.0	1.41	0.0	2.00	0.0	0.09E		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	3.38	0.0	0.16E	0.16E	31	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	3.38	0.0	0.16E	0.16E		
TOTAL	2.32	1.15	1.52	4.10	1.93	0.72	0.73	7.07	7.32	7.09	4.45	1.69	TOTAL	2.32	1.15	1.52	4.10	1.93	0.72	0.73	7.07	7.32	7.09	4.45	1.69		
STA AV	2.26	2.70	2.26	3.61	3.34	4.02	2.09	2.94	3.55	3.54	3.04	2.63	STA AV	2.26	2.70	2.26	3.61	3.34	4.02	2.09	2.94	3.55	3.54	3.04	2.63		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 22 yr period. Estimate codes may indicate that non-significant event totals are included.

1974 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	0.18	0.02	0.0	10.32	0.0	0.0	0.0	0.0	0.0	10.21	1.12
2	0.0	0.20	0.0	0.0	1.60	0.0	0.0	0.0	0.0	0.0	2.89	0.59
3	0.0	0.11	0.02	0.0	0.24	0.0	0.0	0.0	0.0	0.0	1.20	0.44
4	0.0	0.05	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.0	5.74	0.35
5	0.0	0.04	0.0	0.0	0.98	0.0	0.0	0.0	0.0	0.0	3.13	0.39
6	0.0	0.04	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.85	0.85
7	0.0	0.02	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	23.89	0.51
8	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	13.56	0.33
9	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	3.86	0.28
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	27.05	7.45
11	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	8.56	16.88
12	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.04	0.0	1.88	3.00
13	0.0	0.0	0.0	12.97	0.0	0.0	0.0	0.0	3.13	0.0	0.63	1.27
14	0.02	0.0	0.0	138.24	0.0	0.0	0.0	0.0	20.02	0.0	0.29	0.88
15	0.0	0.0	0.04	2.21	0.0	0.0	0.0	0.0	5.76	0.0	0.24	0.64
16	0.02	0.0	0.04	0.40	0.0	0.0	0.0	0.0	0.64	0.0	0.20	0.44
17	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	274.91	0.0	0.20	0.33
18	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.0	55.57	0.0	0.17	0.26
19	8.56	0.0	0.0	0.04	0.0	0.0	0.0	0.0	5.48	0.0	0.15	0.22
20	1.47	0.0	0.0	0.02	0.0	0.0	0.0	0.0	1.42	0.0	0.09	0.18
21	0.40	24.97	0.07	0.02	0.0	0.0	0.0	0.0	0.39	0.0	0.07	0.18
22	0.20	2.23	0.02	0.04	0.0	0.0	0.0	0.0	0.20	0.0	0.05	0.17
23	0.20	0.53	0.0	0.04	0.0	0.0	0.0	0.0	0.11	0.0	47.79	0.20
24	3.24	0.17	0.0	0.02	0.0	0.0	0.0	0.0	0.07	0.0	178.57	0.39
25	4.03	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.44	0.0	4.67	0.75
26	73.66	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	1.71	0.48
27	4.49	0.04	0.02	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.83	0.59
28	1.82	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.51	0.63
29	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	1.69	0.81
30	0.39	0.0	0.0	0.0	0.0	0.0	0.0	28.10	0.0	94.16	3.40	1.20
31	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.0	631.71	0.0	3.40
MEAN	3.212	1.025	0.009	5.140	0.475	0.0	0.0	0.933	12.293	23.415	11.470	1.458
INCRBS	0.541	0.156	0.002	0.838	0.080	0.0	0.0	0.157	2.004	3.944	1.870	0.246
STA AV	0.747	0.699	0.761	0.759	0.658	0.966	0.258	0.161	0.372	0.488	0.605	0.633

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 22 yr period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED G												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 30 - NOVEMBER 1, 1974												
10-30	RG 00065A 0.0	0.0	10-30	RG 00065A 915	0.0	0.0	10-30	1435	0.356	0.0		
				920	0.7200	0.06		1440	0.747	0.0001		
				925	1.9200	0.22		1445	1.231	0.0001		
				930	1.4399	0.34		1450	2.228	0.0001		
				945	0.0800	0.36		1455	3.399	0.0002		
WATERSHED CONDITIONS:												
53% pasture, dormant, all classes; 2% tilled but not planted; 4% cotton; 4% corn; 3% fall planted small grain, mostly oats; 14% sorghum; 2% gravel and paved roads; 18% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, neither tilled nor grazed.												
				1325	0.0	0.36		1500	5.357	0.0002		
				1330	0.2401	0.38		1505	8.038	0.0004		
				1400	0.0	0.38		1515	12.015	0.0006		
				1415	0.2400	0.44		1530	21.095	0.0010		
				1430	0.2000	0.49		1545	33.566	0.0016		
				1435	0.8399	0.56		1600	95.700	0.0033		
				1440	2.5201	0.77		1605	112.800	0.0052		
				1445	0.6000	0.82		1615	146.100	0.0079		
				1450	1.7999	0.97		1630	164.100	0.0110		
				1455	1.3200	1.08		1635	169.800	0.0141		
				1507	0.2000	1.12		1640	172.500	0.0174		
				1510	2.4002	1.24		1645	174.800	0.0208		
				1515	0.6000	1.29		1700	188.400	0.0244		
				1520	0.0	1.29		1715	197.400	0.0282		
				1530	0.4200	1.36		1730	208.700	0.0322		
				1540	0.3000	1.41		1745	224.200	0.0365		
				1550	0.3000	1.46		1800	240.500	0.0411		
				1900	0.0	1.46		1805	249.200	0.0456		
				1930	0.0600	1.49		1810	256.200	0.0503		
				2030	0.0	1.49		1815	267.600	0.0554		
				2100	0.0600	1.52		1830	313.600	0.0613		
				2200	0.0500	1.57		1845	373.099	0.0684		
				2400	0.0	1.57		1900	429.398	0.0766		
			10-31	40	0.0	1.57		1915	460.398	0.0855		
				100	0.1200	1.61		1920	468.398	0.0941		

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

1974			SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS WATERSHED G			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			OCTOBER 30 - NOVEMBER 1, 1974			(CONTINUED)				
			10-31	205	0.0	1.61	10-30	1925	476.500	0.1029
				210	0.6000	1.66		1930	485.100	0.1123
				245	0.0	1.66		1935	491.099	0.1213
				250	0.1199	1.67		1940	494.100	0.1305
				305	0.4000	1.77		1945	495.000	0.1401
				310	0.4799	1.81		1950	492.100	0.1493
				315	2.1601	1.99		2000	471.300	0.1676
				320	6.4799	2.53		2015	449.300	0.1936
				325	1.9200	2.69		2030	416.300	0.2181
				340	0.0400	2.70		2045	381.100	0.2407
				345	0.7200	2.76		2100	341.500	0.2612
				405	0.0	2.76		2115	316.000	0.2798
				410	0.7202	2.82		2130	289.000	0.2969
				415	1.0800	2.91		2145	264.000	0.3125
				420	1.6800	3.05		2200	240.900	0.3268
				425	0.0	3.05		2215	222.300	0.3399
				430	0.3600	3.08		2230	205.800	0.3521
				440	0.2400	3.12		2245	195.300	0.3634
				450	0.1800	3.15		2300	175.100	0.3739
				500	0.5401	3.24		2315	162.100	0.3834
				510	0.9000	3.39		2330	151.700	0.3923
				520	1.1400	3.58		2345	141.700	0.4006
				530	0.6000	3.68		2400	134.300	0.4084
				540	0.9000	3.83	10-31	15	128.400	0.4159
				545	0.0	3.83		30	121.900	0.4230
				550	0.8399	3.90		45	116.100	0.4297
				555	1.0801	3.99		100	110.000	0.4361
				600	1.3200	4.10		115	101.500	0.4421
				823	0.0	4.10		130	95.600	0.4477
				825	2.4001	4.18		145	91.400	0.4529
				830	1.7999	4.33		200	86.100	0.4580
				835	2.0400	4.50		215	81.500	0.4627
				840	1.7999	4.65		230	77.400	0.4672
				845	1.3200	4.76		245	74.800	0.4715
				900	0.3200	4.84		300	72.800	0.4757
				930	0.1800	4.93		315	82.200	0.4772
				1000	0.1200	4.99		320	120.100	0.4791
				1010	0.1199	5.01		325	155.800	0.4817
								330	174.700	0.4849
								335	194.400	0.4883
								340	215.400	0.4921
								345	259.398	0.4967
								350	317.100	0.5021
								355	375.398	0.5085
								400	414.300	0.5162
								405	468.300	0.5244
								410	514.300	0.5335
								415	556.500	0.5439
								420	596.500	0.5546
								425	629.000	0.5660
								430	660.300	0.5786
								435	706.100	0.5913
								440	752.300	0.6048
								445	781.898	0.6197
								450	811.898	0.6345
								455	847.500	0.6499
								500	879.800	0.6667
								505	913.800	0.6834
								510	961.300	0.7008
								515	1012.800	0.7200
								520	1070.698	0.7394
								525	1126.698	0.7598
								530	1208.600	0.7825
								535	1284.198	0.8056
								540	1397.500	0.8305
								545	1482.398	0.8586
								550	1606.198	0.8872
								555	1720.800	0.9181
								600	1815.800	0.9525
								605	1936.898	0.9874
								610	2024.000	1.0242
								615	2107.000	1.0644
								620	2163.000	1.1040
								625	2204.000	1.1446
								630	2244.000	1.1879

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

1974

SELECTED RUNOFF EVENT

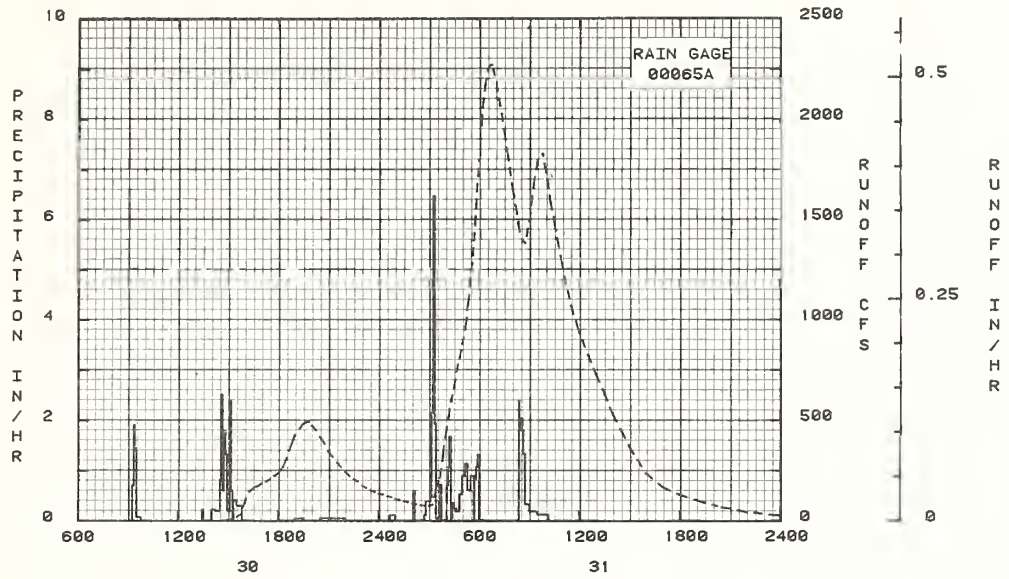
BIESEL (WACO), TEXAS WATERSHED G

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

EVENT OF OCTOBER 30 - NOVEMBER 1, 1974 (CONTINUED)

10-31	635	2264.000	1.2297
	640	2272.000	1.2718
	645	2275.000	1.3161
	650	2246.000	1.3581
	655	2220.000	1.3995
	700	2188.000	1.4424
	705	2142.000	1.4826
	715	2065.000	1.5232
	730	1935.000	1.5612
	745	1795.000	1.5966
	800	1650.000	1.6294
	815	1526.000	1.6595
	820	1477.999	1.6874
	825	1436.999	1.7144
	830	1400.000	1.7420
	845	1381.000	1.7689
	900	1499.000	1.7976
	910	1620.000	1.8272
	915	1678.000	1.8593
	930	1805.000	1.8940
	945	1830.000	1.9295
	950	1819.000	1.9634
	955	1764.000	1.9967
	1000	1732.000	2.0307
	1015	1585.000	2.0620
	1030	1480.000	2.0912
	1045	1356.000	2.1714
	1100	1252.000	2.2453
	1130	1062.999	2.3081
	1200	931.000	2.3622
	1230	824.000	2.4102
	1300	721.000	2.4526
	1330	629.000	2.4896
	1400	525.000	2.5208
	1430	444.000	2.5470
	1500	365.000	2.5686
	1600	232.000	2.5826
	1700	163.000	2.5922
	1800	129.000	2.5997
	1900	101.000	2.6056
	1930	88.300	2.6107
	2000	76.800	2.6152
	2015	71.900	2.6194
	2030	67.300	2.6234
	2100	58.400	2.6268
	2200	42.200	2.6321
	2400	23.630	2.6349
11- 1	130	20.016	2.6372
	500	14.359	2.6407
	1030	9.572	2.6441

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



EVENT OF OCTOBER 30 - NOVEMBER 1, 1974

RIESEL (WACO), TEXAS WATERSHED G

RIESEL (WACO), TEXAS WATERSHED W-1

LOCATION: Falls Co., Texas; 19 mi. SR 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				
1974	P	2.18	1.06	1.61	3.31	2.25	0.46	1.50	7.07	9.27	6.62	5.06	1.69	42.08				
	Q	0.502	0.261	0.118	0.666	0.407	0.0	0.0	0.030	4.908	3.525	2.568	0.413	12.499				
STA AV	P	2.27	2.62	2.55	3.94	4.11	3.33	1.81	2.28	2.79	3.03	2.99	2.59	34.31				
	Q	0.529	0.587	0.761	1.019	1.122	0.678	0.123	0.092	0.230	0.333	0.464	0.531	6.469				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
	9-17	1.858	9-17	1.301	9-17	1.672	10-31	2.511	10-31	3.074	10-30	3.443	10-30	3.513	9-10	3.962
MAXIMUMS FOR PERIOD OF RECORD																
	5-1	4.510	5-1	2.990	5-1	5.570	5-1	6.910	5-1	6.920	5-1	7.050	4-30	9.200	4-29	11.060
	1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 11% sorghum; 85% pasture; 3% roads; and 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve; but neither tilled nor grazed. Area reported as 174 acres beginning 1969. Previously reported as 176 acres in 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, 89, W-2, W-2A and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS		WATERSHED W-1		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
1	0.01E	0.0	0.0	0.0	1.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.01E	0.0	0.0	0.0	0.0	0.0
3	0.04R	0.0	0.0	0.0	0.03E	0.0	0.0	0.07R	0.68	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	0.29	0.0	0.0	0.0	0.0	0.0	0.0
5	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	0.17R	0.0
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0
8	0.02R	0.0	0.0	0.0	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
9	0.02R	0.0	0.05E	0.0	0.0	0.22	0.0	0.0	0.42	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.20R	0.0	0.27	0.0	0.15E	0.0	0.0	0.0	1.07	0.0	0.48	0.0	0.0	0.0	0.48	0.0	0.74	0.0
11	0.0	0.0	0.01E	1.03	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.21	0.0	0.0	0.24	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.05E	0.0	0.0	1.45	0.0	0.0	0.0	0.0	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.07R	0.32	0.0	0.0	0.0	0.18	0.0	0.48	0.86	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	0.07E	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	0.26E	0.0	0.94	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	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.41	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
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
20	0.0	0.0	0.45	0.0 E	0.0	0.0	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	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.17R	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	0.45	0.0	0.0	0.0	1.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.31	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.34	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.08	0.16R	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.29	0.0	0.0	0.0	0.0	0.0	0.30E	2.12	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0
27	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	0.07E	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0
29	0.0	0.0	0.0	0.13R	0.0	0.0	0.0	0.67	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.05E	0.0
30	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.94	0.0	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	3.45	0.0	0.0	0.0	0.0	0.0	0.0	0.14R	0.0
TOTAL		2.18	1.06	1.61	3.31	2.25	0.46	1.50	7.07	9.27	6.62	5.06	1.69					
STA AV		2.27	2.62	2.55	3.94	4.11	3.33	1.81	2.28	2.79	3.03	2.99	2.59					

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

1974		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.017	0.036	0.029	0.012	2.279	0.0	0.0	0.0	0.0	0.004	0.136	0.034
2	0.020	0.035	0.026	0.012	0.044	0.0	0.0	0.0	0.0	0.004	0.034	0.033
3	0.017	0.026	0.025	0.010	0.018	0.0	0.0	0.0	0.044	0.003	0.019	0.033
4	0.017	0.027	0.026	0.007	0.018	0.0	0.0	0.0	0.002	0.004	0.035	0.031
5	0.018	0.030	0.025	0.008	0.376	0.0	0.0	0.0	0.0	0.004	0.020	0.048
6	0.018	0.029	0.025	0.008	0.042	0.0	0.0	0.0	0.0	0.005	0.015	0.050
7	0.018	0.025	0.022	0.007	0.017	0.0	0.0	0.0	0.0	0.006	1.403	0.032
8	0.020	0.024	0.021	0.006	0.015	0.0	0.0	0.0	0.0	0.004	0.229	0.024
9	0.020	0.024	0.023	0.007	0.015	0.0	0.0	0.0	0.001	0.004	0.056	0.027
10	0.026	0.025	0.035	0.010	0.023	0.0	0.0	0.0	0.665	0.004	1.435	1.228
11	0.019	0.027	0.022	0.197	0.016	0.0	0.0	0.0	0.034	0.004	0.113	0.447
12	0.015	0.028	0.030	0.020	0.012	0.0	0.0	0.0	0.079	0.004	0.032	0.054
13	0.019	0.029	0.020	0.996	0.013	0.0	0.0	0.0	2.618	0.002	0.025	0.042
14	0.019	0.033	0.026	3.320	0.014	0.0	0.0	0.0	1.892	0.026	0.018	0.041
15	0.017	0.027	0.044	0.026	0.013	0.0	0.0	0.0	0.142	0.010	0.020	0.038
16	0.018	0.025	0.018	0.013	0.012	0.0	0.0	0.0	0.021	0.004	0.024	0.033
17	0.019	0.025	0.017	0.012	0.008	0.0	0.0	0.0	22.591	0.004	0.027	0.031
18	0.032	0.031	0.019	0.014	0.005	0.0	0.0	0.0	1.051	0.003	0.028	0.031
19	0.140	0.023	0.016	0.014	0.004	0.0	0.0	0.0	0.053	0.003	0.029	0.031
20	0.021	0.025	0.148	0.016	0.004	0.0	0.0	0.0	0.014	0.003	0.019	0.029
21	0.018	1.155	0.057	0.015	0.006	0.0	0.0	0.0	0.014	0.002	0.020	0.028
22	0.018	0.045	0.021	0.056	0.006	0.0	0.0	0.0	0.007	0.002	0.020	0.033
23	0.066	0.029	0.016	0.013	0.004	0.0	0.0	0.0	0.004	0.003	10.235	0.035
24	0.364	0.020	0.024	0.010	0.002	0.0	0.0	0.0	0.007	0.005	4.381	0.068
25	0.359	0.023	0.025	0.009	0.001	0.0	0.0	0.0	0.018	0.005	0.053	0.059
26	2.108	0.027	0.021	0.010	0.003	0.0	0.0	0.0	0.012	0.004	0.034	0.054
27	0.081	0.027	0.021	0.009	0.002	0.0	0.0	0.0	0.010	0.003	0.031	0.060
28	0.043	0.029	0.022	0.009	0.001	0.0	0.0	0.0	0.012	0.018	0.030	0.059
29	0.035		0.014	0.012	0.0	0.0	0.0	0.0	0.007	0.009	0.176	0.065
30	0.034		0.012	0.015	0.0	0.0	0.0	0.215	0.003	2.600	0.076	0.088
31	0.033		0.014		0.0		0.0	0.003		23.015		0.156
MEAN	0.1184	0.0682	0.0278	0.1624	0.0959	0.0	0.0	0.0070	0.9767	0.8314	0.6257	0.0975
INCREAS	0.502	0.261	0.118	0.666	0.407	0.0	0.0	0.030	4.008	3.525	2.568	0.413
STA AV	0.529	0.587	0.761	1.019	1.122	0.678	0.123	0.092	0.230	0.333	0.464	0.531

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.136791. Records began July 1937; part-year amounts not included in averages. STA AV based on 37 yr period.

1974		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 OCTOBER 30 - 31, 1974										
10-30	RG 000W2A 0.0	0.002	10-30	RG 000W2A 910	0.0	0.0	10-30	1157	0.070	0.0
				915	0.3600	0.03		1227	0.092	0.0003
				920	1.9200	0.19		1257	0.132	0.0006
				925	2.1599	0.37		1327	0.132	0.0009
				935	0.1800	0.40		1357	0.170	0.0014
				1335	0.0	0.40		1417	0.203	0.0017
				1405	0.1000	0.45		1430	0.245	0.0018
				1425	0.1800	0.51		1432	0.312	0.0018
				1430	1.6800	0.65		1434	0.384	0.0019
				1435	2.2800	0.84		1440	0.423	0.0020
				1440	0.9600	0.92		1447	0.661	0.0022
				1445	0.8401	0.99		1502	0.820	0.0026
				1450	1.5599	1.12		1517	1.540	0.0033
				1455	1.3200	1.23		1527	2.256	0.0043
				1505	0.4200	1.30		1532	3.106	0.0055
				1515	0.1800	1.33		1534	3.940	0.0062
				1525	0.1800	1.36		1535	5.768	0.0066
				1535	0.3000	1.41		1536	9.683	0.0073
				1545	0.3600	1.47		1537	11.885	0.0083
				1555	0.1800	1.50		1538	13.329	0.0096
				1905	0.0	1.50		1540	15.326	0.0122
				1935	0.0600	1.53		1542	16.248	0.0153
				2035	0.0	1.53		1547	18.560	0.0233
				2135	0.0700	1.60		1552	19.883	0.0322
				2400	0.0	1.60		1557	20.948	0.0421
			10-31	35	0.0	1.60		1602	21.166	0.0518
				105	0.0600	1.63		1612	19.469	0.0711
				155	0.0	1.63		1622	17.972	0.0884
				205	0.4200	1.70		1627	17.827	0.0970
				235	0.0	1.70		1642	19.831	0.1064

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

1974

SELECTED RUNOFF EVENT

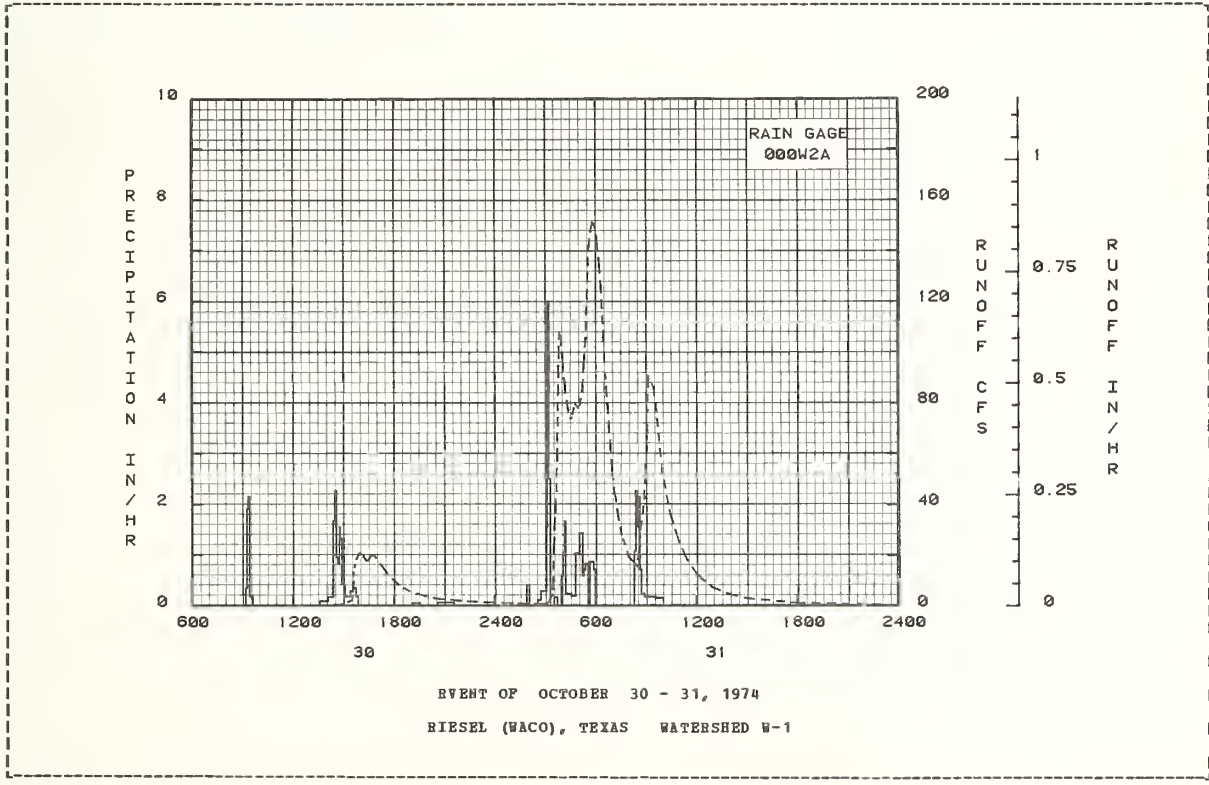
RIESEL (WACO), TEXAS WATERSHED #1

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 OCTOBER 30 - 31, 1974 (CONTINUED)										
10-31			245		0.1200	1.72	10-30	1647	20.093	0.1156
			255		0.3000	1.77		1657	18.960	0.1341
			305		0.2999	1.82		1717	15.629	0.1665
			310		1.5601	1.95		1737	12.834	0.1931
			315		6.0000	2.45		1757	10.305	0.2150
			320		2.5201	2.66		1817	8.387	0.2325
			335		0.0	2.66		1837	6.938	0.2468
			345		0.1800	2.69		1857	5.871	0.2589
			400		0.0	2.69		1927	4.682	0.2738
			405		0.6000	2.74		1957	3.714	0.2856
			410		1.0800	2.83		2027	3.004	0.2951
			415		1.6800	2.97		2057	2.587	0.3030
			435		0.2400	3.05		2157	1.994	0.3159
			450		0.2000	3.10		2257	1.586	0.3259
			505		1.0400	3.36		2400	1.264	0.3344
			510		1.4399	3.48	10-31	57	1.055	0.3406
			515		1.4399	3.60		157	0.869	0.3460
			520		0.6000	3.65		247	0.914	0.3502
			525		0.7200	3.71		302	0.999	0.3515
			530		0.8401	3.78		307	1.108	0.3520
			535		0.8399	3.85		314	1.714	0.3523
			540		0.0	3.85		316	2.215	0.3527
			555		0.8800	4.07		320	3.067	0.3533
			600		0.7202	4.13		327	4.177	0.3551
			605		0.2399	4.15		328	4.571	0.3555
			820		0.0	4.15		329	6.829	0.3560
			825		1.0801	4.24		330	11.639	0.3570
			830		2.2798	4.43		333	23.020	0.3588
			835		1.5601	4.56		334	27.154	0.3616
			840		2.1601	4.74		337	34.880	0.3646
			845		0.7200	4.80		338	36.963	0.3685
			855		0.2400	4.84		340	42.277	0.3722
			905		0.1800	4.87		345	59.170	0.3783
			935		0.1800	4.96		348	84.150	0.3854
			1005		0.1600	5.04		349	91.742	0.3950
								351	102.277	0.4038
								353	106.682	0.4155
								355	108.245	0.4344
								357	106.562	0.4557
								400	102.395	0.4856
								403	98.524	0.5121
								406	92.765	0.5395
								410	88.810	0.5734
								415	83.821	0.6152
								420	80.662	0.6532
								425	76.910	0.6897
								432	73.957	0.7395
								435	74.271	0.7607
								440	75.745	0.7953
								445	78.189	0.8326
								450	79.476	0.8691
								500	78.082	0.9436
								505	79.261	0.9800
								510	81.638	1.0172
								515	86.136	1.0578
								520	93.335	1.0993
								523	99.107	1.1268
								526	105.723	1.1539
								528	112.008	1.1754
								530	118.052	1.1982
								532	124.849	1.2196
								534	131.267	1.2450
								536	137.409	1.2686
								538	141.383	1.2962
								540	144.593	1.3214
								545	147.829	1.3922
								550	151.228	1.4613
								555	150.546	1.5311
								600	148.778	1.6035
								605	145.938	1.6717
								610	140.054	1.7378
								615	134.129	1.8041
								620	126.379	1.8643
								625	117.306	1.9207
								630	105.963	1.9747

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

1974 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 OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	635	95.398	2.0213
								640	85.583	2.0631
								645	78.832	2.1029
								650	71.253	2.1376
								655	63.764	2.1688
								700	55.738	2.1977
								705	49.826	2.2221
								710	44.771	2.2440
								715	41.092	2.2648
								720	37.368	2.2829
								725	33.699	2.2993
								730	30.700	2.3149
								735	28.171	2.3285
								740	26.221	2.3411
								745	24.254	2.3533
								800	19.335	2.3630
								830	15.600	2.3703
								855	42.532	2.3774
								905	62.382	2.3891
								910	90.723	2.3969
								930	85.693	2.4399
								1000	52.474	2.4663
								1030	35.676	2.4841
								1100	25.160	2.4966
								1130	17.645	2.5053
								1200	13.094	2.5182
								1230	9.849	2.5280
								1300	7.267	2.5352
								1400	4.721	2.5398
								1500	3.144	2.5497
								1800	1.284	2.5581
								2400	0.380	2.5604

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



RIESEL (WACO), TEXAS WATERSHED W-2

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 19 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 130.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS		WATERSHED W-2	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1974	P 2.03	1.02	1.43	3.11	2.24	0.46	1.55	6.74	9.40	6.50	5.34	1.57	41.39				
	Q 0.572	0.419	0.203	0.561	0.618	0.044	0.0	0.089	4.651	3.169	3.005	0.797	14.128				
STA AV	P 2.21	2.60	2.47	3.94	4.07	3.27	1.76	2.36	2.80	3.00	2.97	2.54	34.00				
	Q 0.639	0.726	0.875	1.073	1.155	0.642	0.130	0.089	0.230	0.327	0.507	0.666	7.060				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.
		9-17	2.194	9-17	1.615	9-17	2.080	9-17	2.361	10-31	2.636	9-16	3.471	9-16	3.663	9-10
MAXIMUMS FOR PERIOD OF RECORD																
	5-1	4.830	5-1	2.860	5-1	5.400	5-1	6.910	5-1	6.970	5-1	7.120	4-30	9.260	4-29	10.960
	1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 55% pasture; 23% row grain sorghum; 13% fall planted small grain, largely oats; 3% corn; 5% gravel and paved roads; 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. Cropland farmed on contour, not terraced. Modified conservation applied 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pnb. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4, W-5A, and W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS		WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.01E	0.0	0.0	0.0	1.28	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	0.01E	0.0	0.0	0.0	0.0	0.0	
3	0.03E	0.0	0.0	0.0	0.02E	0.0	0.0	0.08E	0.73	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	0.27	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0	
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	
9	0.01E	0.0	0.02E	0.0	0.0	0.23	0.0	0.0	0.38	0.0	0.06	0.0	0.0	0.0	0.0	0.0	
10	0.21E	0.0	0.29	0.0	0.16E	0.0	0.0	0.0	1.04	0.0	0.47	0.68	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	1.00	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.13E	0.0	0.0	0.23	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.04E	0.0	0.0	1.26	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.09E	0.29	0.0	0.0	0.0	0.20	0.0	0.39	0.78	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	0.07E	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	0.48	0.0	0.96	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	3.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.38	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	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.30	0.0	0.0	0.0	1.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.02	0.0	0.0	0.0	0.0	0.0	
24	0.32	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.05E	0.15E	0.34	0.25E	0.0	0.0	0.0	0.0	
25	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.30	0.0	0.0	0.0	0.0	0.0	0.38E	1.97	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	
27	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.56	0.0	0.05E	0.0	0.0	0.0	0.05E	
29	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.63	0.0	0.0	0.38	0.05E	0.0	0.0	0.0	0.05E	
30	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.90	0.0	1.39	0.0	0.05E	0.0	0.0	0.0	0.05E	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	3.62	0.0	0.11E	0.0	0.0	0.0	0.0	0.11E	
TOTAL	2.03	1.02	1.43	3.11	2.24	0.46	1.55	6.74	9.40	6.50	5.34	1.57					
STA AV	2.21	2.60	2.47	3.94	4.07	3.27	1.76	2.36	2.80	3.00	2.97	2.54					

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, W-5A, and W-6. Records began July 1937. STA AV based on 37 yr period. Estimate codes may indicate that non-significant event totals are included.

1974				RIESEL (WACO), TEXAS WATERSHED W-2											
MEAN DAILY DISCHARGE (cfs)															
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.030	0.068	0.038	0.020	1.554	0.015	0.0	0.0	0.011	0.056	0.243	0.105			
2	0.037	0.068	0.036	0.018	0.061	0.014	0.0	0.0	0.010	0.056	0.123	0.104			
3	0.034	0.060	0.033	0.018	0.049	0.015	0.0	0.0	0.155	0.054	0.092	0.105			
4	0.033	0.060	0.033	0.013	0.056	0.014	0.0	0.0	0.025	0.051	0.150	0.105			
5	0.032	0.060	0.034	0.014	0.643	0.009	0.0	0.0	0.016	0.048	0.095	0.126			
6	0.031	0.061	0.034	0.011	0.083	0.009	0.0	0.0	0.015	0.047	0.086	0.118			
7	0.031	0.058	0.031	0.012	0.054	0.009	0.0	0.0	0.015	0.045	1.090	0.093			
8	0.033	0.055	0.030	0.011	0.054	0.013	0.0	0.0	0.014	0.046	0.284	0.087			
9	0.031	0.055	0.038	0.014	0.052	0.025	0.0	0.0	0.041	0.045	0.152	0.091			
10	0.039	0.053	0.054	0.016	0.069	0.015	0.0	0.0	0.450	0.042	1.263	0.934			
11	0.030	0.056	0.039	0.068	0.057	0.010	0.0	0.0	0.054	0.042	0.197	0.389			
12	0.028	0.054	0.040	0.023	0.051	0.034	0.0	0.0	0.103	0.040	0.105	0.116			
13	0.031	0.057	0.030	0.404	0.055	0.018	0.0	0.0	2.118	0.039	0.095	0.106			
14	0.032	0.063	0.040	1.884	0.055	0.012	0.0	0.0	1.136	0.086	0.088	0.110			
15	0.028	0.061	0.052	0.032	0.052	0.010	0.0	0.0	0.182	0.052	0.091	0.105			
16	0.028	0.053	0.036	0.034	0.058	0.008	0.0	0.0	0.086	0.036	0.096	0.102			
17	0.027	0.049	0.028	0.034	0.039	0.007	0.0	0.0	18.960	0.037	0.097	0.097			
18	0.040	0.058	0.027	0.035	0.028	0.002	0.0	0.0	1.047	0.036	0.098	0.093			
19	0.070	0.037	0.029	0.037	0.027	0.001	0.0	0.0	0.148	0.034	0.097	0.093			
20	0.028	0.038	0.061	0.042	0.027	0.0	0.0	0.0	0.079	0.033	0.083	0.081			
21	0.023	0.897	0.051	0.035	0.033	0.0	0.0	0.0	0.094	0.029	0.081	0.084			
22	0.028	0.051	0.029	0.072	0.033	0.0	0.0	0.0	0.074	0.030	0.080	0.085			
23	0.066	0.040	0.029	0.038	0.026	0.0	0.0	0.0	0.068	0.033	8.418	0.087			
24	0.355	0.032	0.043	0.031	0.023	0.0	0.0	0.0	0.076	0.042	2.386	0.128			
25	0.368	0.036	0.040	0.026	0.023	0.0	0.0	0.0	0.102	0.044	0.133	0.102			
26	1.270	0.037	0.038	0.022	0.023	0.0	0.0	0.0	0.086	0.034	0.109	0.101			
27	0.086	0.036	0.034	0.021	0.022	0.0	0.0	0.0	0.071	0.029	0.104	0.102			
28	0.066	0.040	0.032	0.020	0.019	0.0	0.0	0.0	0.060	0.069	0.103	0.101			
29	0.062		0.027	0.026	0.015	0.0	0.0	0.040	0.053	0.042	0.245	0.108			
30	0.062		0.021	0.033	0.015	0.0	0.0	0.423	0.054	1.141	0.127	0.130			
31	0.062		0.021		0.017		0.0	0.021		14.893		0.165			
MEAN	0.1007	0.0817	0.0357	0.1022	0.1089	0.0079	0.0	0.0156	0.8468	0.5584	0.5471	0.1404			
INCREAS	0.572	0.419	0.203	0.561	0.618	0.044	0.0	0.089	4.651	3.169	3.005	0.797			
STA AV	0.639	0.726	0.875	1.073	1.155	0.642	0.130	0.089	0.230	0.327	0.507	0.666			

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.183090. Records began July 1937. STA AV based on 37 yr period.

1974				RIESEL (WACO), TEXAS WATERSHED W-2											
SELECTED RUNOFF EVENT															
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.					
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF OCTOBER 30 - 31, 1974															
10-30	RG 0000W6	1.38	0.209	10-30	RG 0000W6	0.0	0.0	10-30	2400	0.820	0.0				
				10-31	35	0.0	0.0	10-31	30	0.745	0.0030				
					45	0.2400	0.04		100	0.745	0.0058				
					200	0.0	0.04		130	0.674	0.0085				
					205	0.3600	0.07		200	0.617	0.0110				
					240	0.0	0.07		230	0.710	0.0135				
					245	0.2401	0.09		302	0.805	0.0166				
					250	0.3600	0.12		307	0.820	0.0171				
					255	0.2401	0.14		310	0.978	0.0175				
					300	0.2401	0.16		320	3.505	0.0183				
					305	0.4799	0.20		325	9.998	0.0194				
					307	0.6001	0.22		332	11.013	0.0250				
					309	1.4996	0.27		336	13.205	0.0279				
					311	4.5003	0.42		337	14.670	0.0296				
					313	5.3998	0.60		338	17.645	0.0320				
					315	6.6000	0.82		340	22.479	0.0346				
					317	4.5003	0.97		345	29.649	0.0422				
					319	1.1998	1.01		348	31.765	0.0532				
					335	0.0	1.01		351	34.485	0.0660				
					340	0.4801	1.05		354	36.882	0.0798				
					345	0.1199	1.06		356	38.513	0.0888				
					403	0.0	1.06		358	38.021	0.0991				
					408	0.4799	1.10		401	37.125	0.1136				
					411	2.4002	1.22		406	34.327	0.1360				
					415	1.7999	1.34		411	35.996	0.1580				
					419	0.1499	1.35		416	36.963	0.1819				
					423	0.4500	1.38		421	41.937	0.2066				
					433	0.3601	1.44		426	40.588	0.2324				
					443	0.1199	1.46		431	40.420	0.2590				
					455	0.4501	1.55		436	42.703	0.2850				

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

1974

SELECTED RUNOFF EVENT

RIESEL (WACO), TEXAS

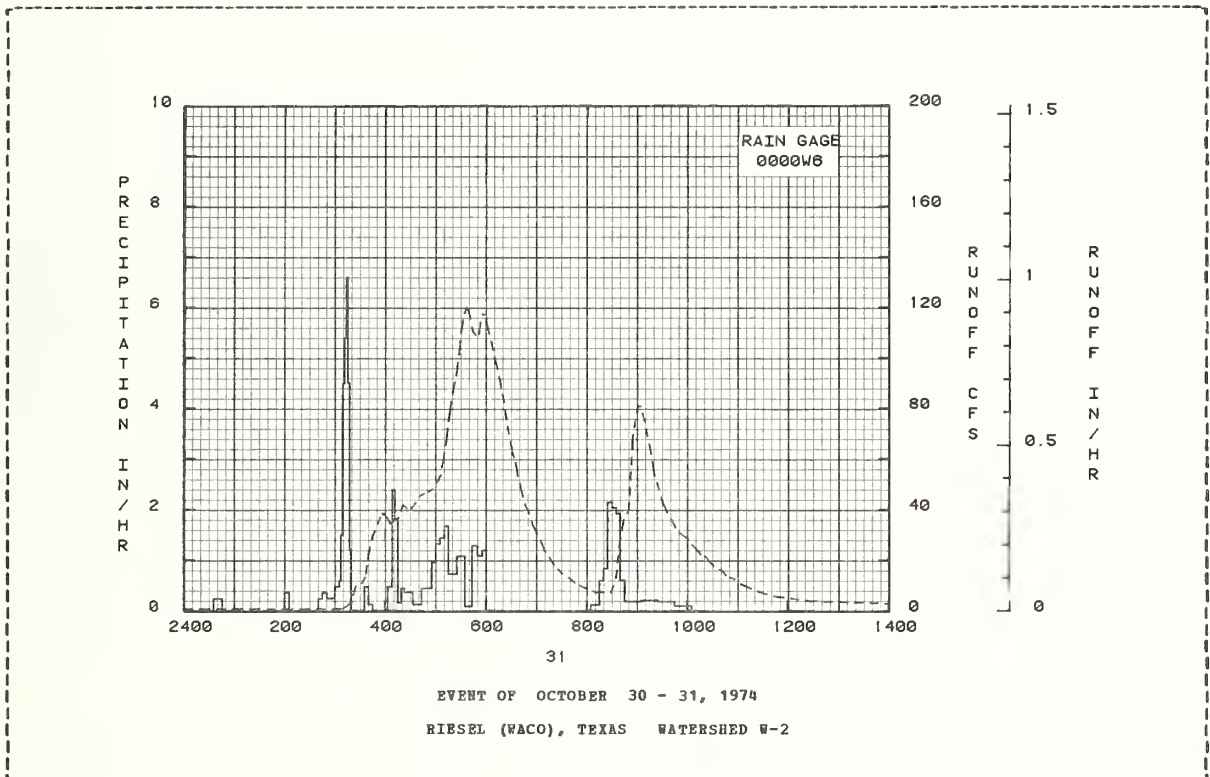
WATERSHED W-2

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.			Acc.		
					(inches)			(inches)		
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
10-31			500		0.9598	1.63	10-31	441	45.556	0.3126
			505		1.3200	1.74		446	46.610	0.3428
			510		1.4401	1.86		451	47.140	0.3721
			515		1.6800	2.00		456	48.119	0.4019
			520		0.7200	2.06		501	51.098	0.4345
			525		0.7200	2.12		506	53.771	0.4673
			530		1.0800	2.21		510	62.481	0.4818
			535		1.0801	2.30		512	66.561	0.4991
			543		0.0750	2.31		514	72.081	0.5156
			550		1.2857	2.46		516	77.655	0.5357
			555		1.0801	2.55		518	82.836	0.5548
			600		1.1999	2.65		520	86.469	0.5775
			805		0.0	2.65		522	90.384	0.5986
			815		0.1200	2.67		524	93.221	0.6232
			820		0.6000	2.72		526	98.291	0.6460
			825		0.8399	2.79		528	103.936	0.6731
			830		2.1601	2.97		530	111.033	0.7020
			835		2.0400	3.14		532	114.954	0.7289
			840		1.9200	3.30		534	118.052	0.7601
			845		0.5999	3.35		536	120.177	0.7885
			855		0.1800	3.38		538	119.050	0.8206
			905		0.1801	3.41		541	115.201	0.8625
			925		0.2100	3.48		544	110.181	0.9062
			945		0.1800	3.54		547	108.970	0.9486
			1005		0.0900	3.57		551	109.575	1.0040
								553	114.338	1.0340
								555	117.306	1.0616
								557	117.306	1.0931
								601	112.375	1.1512
								606	106.082	1.2196
								611	98.291	1.2835
								616	91.289	1.3457
								621	82.399	1.4000
								624	75.745	1.4307
								630	64.459	1.4567
								633	60.428	1.4790
								635	58.497	1.4950
								638	53.121	1.5166
								644	44.945	1.5349
								647	41.514	1.5517
								651	38.266	1.5719
								656	33.465	1.5943
								701	30.399	1.6153
								706	26.722	1.6331
								711	23.020	1.6487
								716	21.016	1.6631
								721	18.140	1.6754
								726	16.431	1.6862
								731	14.498	1.6963
								741	12.332	1.7043
								746	11.013	1.7120
								751	9.998	1.7186
								811	7.178	1.7232
								829	7.178	1.7258
								835	13.260	1.7272
								840	28.907	1.7304
								844	36.157	1.7388
								850	40.003	1.7491
								855	69.710	1.7571
								901	80.878	1.7785
								904	80.878	1.8003
								909	74.691	1.8301
								915	64.758	1.8561
								921	53.399	1.8777
								931	42.277	1.9072
								936	38.760	1.9326
								946	32.688	1.9549
								951	30.776	1.9748
								1001	28.098	1.9936
								1006	25.937	2.0105
								1016	22.210	2.0256
								1021	21.478	2.0393
								1031	17.830	2.0515
								1041	15.659	2.0616
								1046	13.987	2.0713

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	1051	13.094	2.0798
								1056	12.278	2.0877
								1106	10.098	2.0944
								1116	8.639	2.1064
								1126	7.400	2.1165
								1146	5.578	2.1242
								1226	3.779	2.1291
								1500	2.784	2.1407
								1800	1.238	2.1515
								2000	0.824	2.1584
								2200	0.576	2.1632
								2400	0.437	2.1668

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



EIESEL (WACO), TEXAS WATESEED 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 RUOFF (inches)													EIESEL (WACO), TEXAS WATESEED W-6	
		Jan	Feb	Mar	Apr	May	Jnn	Jnl	Ang	Sep	Oct	Nov	Dec	Annual
1974	P	2.08	1.04	1.43	3.17	2.24	0.43	1.41	6.88	9.23	6.69	5.27	1.54	41.41
	Q	0.138	0.059	0.0	0.380	0.104	0.0	0.0	0.105	3.734	3.232	2.271	0.207	10.231
STA AV	P	2.08	2.51	2.37	3.95	3.80	3.38	1.76	2.44	2.91	3.21	2.96	2.40	33.79
	Q	0.345	0.376	0.562	0.741	0.725	0.545	0.078	0.047	0.194	0.264	0.366	0.429	4.673

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.
1974	9-17	2.387	9-17	1.680	9-17	2.141	10-31	2.652	10-31	3.064	9-16	3.250	9-16	3.326	9-10	3.642

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge	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: 67% sorghum; 9% corn; 7% gravel and paved road; 14% pasture; 3% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Cropland farmed on contour, not terraced. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pnb. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4 and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974 DAILY PRECIPITATION (inches)													EIESEL (WACO), TEXAS WATESEED W-6	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Ang	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.34	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	0.01E	0.0		
3	0.02E	0.0	0.0	0.0	0.02E	0.0	0.0	0.02E	0.77	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	0.27	0.0		
5	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.17E		
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0		
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.04	0.0		
9	0.01E	0.0	0.01E	0.0	0.0	0.23	0.0	0.0	0.40	0.0	0.06	0.0		
10	0.21E	0.0	0.28	0.0	0.15E	0.0	0.0	0.0	1.09	0.0	0.45	0.68		
11	0.0	0.0	0.0	0.99	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.14E	0.0	0.0	0.20	0.0	0.0	0.69	0.0	0.0	0.0		
13	0.04E	0.0	0.0	1.33	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0		
14	0.0	0.09E	0.29	0.0	0.0	0.0	0.20	0.0	0.42	0.87	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.94	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.53	0.0	0.0	0.0		
18	0.41	0.16	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	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.49	0.0	0.0	0.0	1.87	0.0	0.0	0.0	0.0		
23	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.86	0.0		
24	0.31	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.07	0.16E	0.42	0.26		
25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.13	0.0	0.0	0.0		
26	0.31	0.0	0.0	0.0	0.0	0.0	0.39E	1.90	0.02E	0.0	0.0	0.13E		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.05E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.59	0.0	0.05E		
29	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.66	0.0	0.0	0.40	0.05E		
30	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.94	0.0	1.42	0.0	0.06E		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	3.65	0.0	0.09E		
TOTAL	2.08	1.04	1.43	3.17	2.24	0.43	1.41	6.88	9.23	6.69	5.27	1.54		
STA AV	2.08	2.51	2.37	3.95	3.80	3.38	1.76	2.44	2.91	3.21	2.96	2.40		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, and W-5A. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 32 yr period. Estimate codes may indicate that non-significant event totals are included.

1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	T 0.0	0.0	0.140	0.0	0.0	0.0	0.0	0.006	0.025	0.007
2	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.006	0.007	0.007
3	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.060	0.006	0.004	0.007
4	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.013	0.007
5	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.005	0.004	0.012
6	0.0	0.0	T 0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.005	0.003	0.011
7	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.005	0.187	0.006
8	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.005	0.045	0.006
9	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.005	0.021	0.006
10	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.051	0.004	0.295	0.116
11	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.001	0.002	0.021	0.026
12	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.005	0.001	0.008	0.008
13	0.0	0.0	0.0	0.357	0.001	0.0	0.0	0.0	0.323	0.001	0.006	0.007
14	0.0	0.0	0.0	0.317	0.001	0.0	0.0	0.0	0.190	0.004	0.006	0.007
15	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.011	0.001	0.006	0.007
16	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.005	0.0	0.006	0.007
17	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	5.776	0.0	0.007	0.007
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.134	0.0	0.008	0.007
19	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.007	0.007
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.006	0.007
21	0.0	0.103	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.006	0.006
22	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.059	0.006
23	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	2.480	0.006
24	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.734	0.010
25	0.087	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.009	0.007
26	0.122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.007	0.008
27	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.007	0.007
28	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.008	0.008
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.033	0.007
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.187	0.007	0.189	0.009	0.011
31	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.494	0.009	0.016
MEAN	0.0079	0.0037	0.0	0.0225	0.0060	0.0	0.0	0.0060	0.2212	0.1853	0.1345	0.0119
INCHES	0.138	0.059	0.0	0.380	0.104	0.0	0.0	0.105	3.734	3.232	2.271	0.207
STA AV	0.345	0.376	0.562	0.741	0.725	0.545	0.078	0.047	0.194	0.264	0.366	0.429

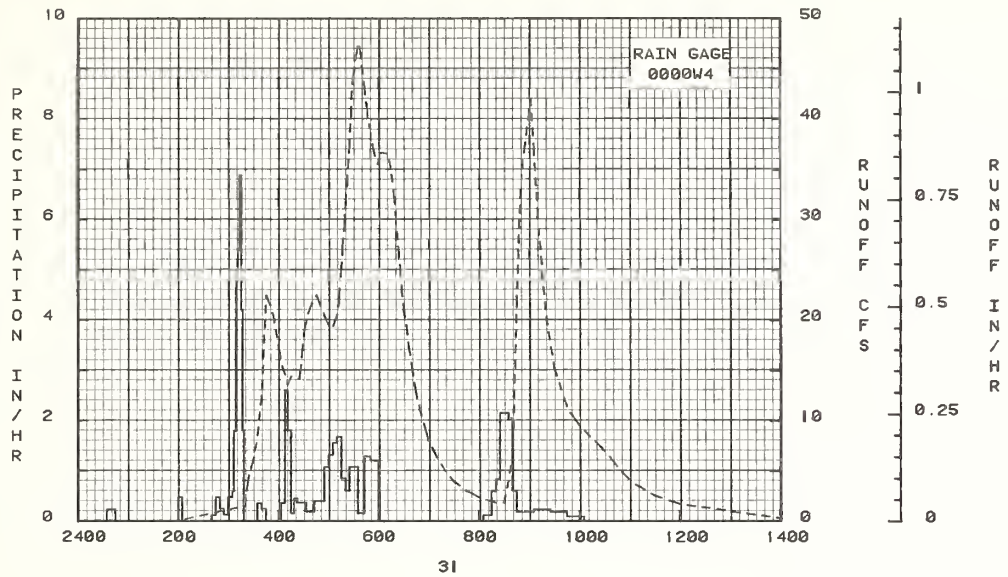
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562687. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 32 yr period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-6												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 30 - 31, 1974												
10-30	RG 0000W4 1.42	0.106	10-30	2400	0.0	0.0	10-30	2400	0.055	0.0		
			10-31	35	0.0	0.0	10-31	200	0.041	0.0023		
				45	0.2400	0.04		320	1.551	0.0027		
				200	0.0	0.04		325	4.509	0.0043		
				205	0.4801	0.08		331	6.287	0.0093		
WATERSHED CONDITIONS:				240	0.0	0.08	335	8.586	0.0121			
67% row grain sorgham; 9%				245	0.1199	0.09	340	12.471	0.0212			
corn; 14% pasture, bermuda-				250	0.4801	0.13	345	22.463	0.0313			
grass; 7% roads; 3% other.				255	0.2399	0.15	350	21.421	0.0735			
cropland farmed on contour,				300	0.1201	0.16	353	20.616	0.0985			
not terraced.				305	0.4799	0.20	355	19.714	0.1133			
			307	0.6001	0.22		401	16.895	0.1275			
			309	1.7999	0.28		405	15.236	0.1404			
			311	4.8001	0.44		408	14.558	0.1581			
			313	5.3998	0.62		411	13.609	0.1736			
			315	6.8999	0.85		415	14.366	0.1852			
			317	4.2000	0.99		425	14.080	0.1955			
			319	1.8004	1.05		427	15.562	0.2077			
			335	0.0	1.05		429	17.576	0.2199			
			340	0.3600	1.08		431	19.003	0.2349			
			345	0.2399	1.10		433	19.965	0.2492			
			403	0.0	1.10		435	20.616	0.2659			
			408	0.3602	1.13		440	21.754	0.3067			
			411	2.5998	1.26		445	22.500	0.3513			
			415	1.8002	1.38		450	21.384	0.3935			
			419	0.1499	1.39		455	20.362	0.4336			
			423	0.4500	1.42		500	19.428	0.4737			
			433	0.3600	1.48		505	19.393	0.5110			
			443	0.1800	1.51		510	20.579	0.5495			
			455	0.4000	1.59		512	21.828	0.5669			

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

1974 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED W-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
			10-31	500	1.0800	1.68	10-31	513	23.180	0.5752
				505	1.3200	1.79		514	24.445	0.5839
				510	1.5601	1.92		515	25.734	0.5954
				515	1.6800	2.06		516	26.927	0.6050
				520	0.8401	2.13		517	28.140	0.6151
				525	0.5999	2.18		518	29.248	0.6256
				530	1.0801	2.27		519	30.498	0.6393
				535	1.0800	2.36		520	31.852	0.6507
				543	0.1500	2.38		522	34.447	0.6750
				550	1.2857	2.53		524	37.297	0.7046
				555	1.2001	2.63		526	40.508	0.7331
				600	1.1999	2.73		528	43.719	0.7678
				805	0.0	2.73		530	45.116	0.8044
				815	0.1200	2.75		532	46.430	0.8380
				820	0.6000	2.80		534	47.265	0.8766
				825	0.8399	2.87		536	47.265	0.9112
				830	2.1601	3.05		538	46.039	0.9496
				835	2.1599	3.23		540	44.488	0.9828
				840	2.0400	3.40		543	42.433	1.0346
				845	0.6000	3.45		546	40.229	1.0838
				855	0.1800	3.48		549	38.982	1.1309
				905	0.1800	3.51		552	37.433	1.1729
				925	0.2400	3.59		555	36.263	1.2168
				945	0.1800	3.65		558	35.506	1.2595
			1005	0.0900	3.68		600	36.085	1.2890	
							602	36.667	1.3157	
							610	36.532	1.4296	
							612	35.951	1.4595	
							615	34.447	1.5014	
							618	32.279	1.5381	
							620	30.288	1.5638	
							622	28.018	1.5852	
							624	26.209	1.6075	
							626	24.252	1.6260	
							628	22.313	1.6452	
							630	20.980	1.6631	
							634	18.546	1.6788	
							636	17.234	1.6919	
							640	15.203	1.7033	
							643	13.484	1.7204	
							646	12.200	1.7357	
							649	11.137	1.7495	
							655	9.364	1.7611	
							700	7.961	1.7785	
							705	7.057	1.7930	
							710	6.263	1.8058	
							720	4.933	1.8159	
							730	3.959	1.8243	
							745	3.012	1.8306	
							800	2.341	1.8407	
							820	1.808	1.8483	
							830	1.853	1.8519	
							840	6.310	1.8539	
							845	22.425	1.8625	
							850	34.447	1.8749	
							855	37.750	1.8884	
							901	42.055	1.9234	
							905	37.117	1.9551	
							910	29.996	1.9664	
							920	20.253	1.9836	
							930	15.171	1.9964	
							945	11.399	2.0103	
							950	10.647	2.0315	
							1000	9.473	2.0511	
							1030	6.983	2.0657	
							1045	5.460	2.0771	
							1055	4.509	2.0862	
							1100	4.099	2.0948	
							1110	3.493	2.1094	
							1130	2.540	2.1202	
							1200	1.704	2.1273	
							1500	0.288	2.1355	
							1800	0.120	2.1387	

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



31
 EVENT OF OCTOBER 30 - 31, 1974
 BIESEL (WACO), TEXAS WATERSHED W-6

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	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	1.98	1.00	1.40	2.99	2.24	0.48	1.64	6.59	9.58	6.33	5.45	1.55	41.23
	Q	0.615	0.328	0.024	0.435	0.606	0.0	0.0	0.0	4.889	2.649	2.695	0.363	12.605
STA AV	P	2.11	2.53	2.27	3.93	3.70	3.38	1.72	2.53	2.92	3.21	2.94	2.38	33.62
	Q	0.543	0.498	0.598	0.947	0.844	0.658	0.110	0.122	0.317	0.463	0.567	0.580	6.248

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximna Discharge Date	1 Hour Rate	1 Hour Date	2 Hours Vol.	2 Hours Date	Maximna 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.	
	9-17	1.830	9-17	1.323	9-17	1.751	9-17	2.160	9-17	2.296	9-16	3.789	9-16	4.044	9-10	4.846

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	6-10	5.010	4-19	2.310	4-19	2.550	5-11	3.000	11-22	3.330	9-16	3.789	4-24	5.160	5-19	8.290
	1941		1957		1957		1957		1940		1974		1966		1957	

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. Pnb. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-10	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.20	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	0.01E	0.0		
3	0.04E	0.0	0.0	0.0	0.02E	0.0	0.0	0.11E	0.68	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	0.28	0.0		
5	0.0	0.0	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.17E		
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0		
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.02E	0.0		
9	0.01E	0.0	0.02E	0.0	0.0	0.24	0.0	0.0	0.36	0.0	0.07	0.0		
10	0.22	0.0	0.32	0.0	0.17	0.0	0.0	0.0	0.98	0.0	0.48	0.67		
11	0.0	0.0	0.0	0.99	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.09E	0.0	0.0	0.24	0.0	0.0	0.57	0.0	0.0	0.0		
13	0.04E	0.0	0.0	1.14	0.0	0.0	0.0	0.0	1.27	0.0	0.0	0.0		
14	0.0	0.10E	0.30	0.0	0.0	0.0	0.21	0.0	0.36	0.69	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.95	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.09	0.0	0.0	0.0		
18	0.35	0.13	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	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.54	0.0	0.0	0.0	0.0		
23	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.25	0.0		
24	0.33	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.03E	0.15	0.25	0.21E		
25	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.10E	0.0	0.0	0.0		
26	0.29	0.0	0.0	0.0	0.0	0.0	0.38	2.04	0.03E	0.0	0.0	0.22E		
27	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.04E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.54	0.0	0.04E		
29	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.62	0.0	0.0	0.36	0.04E		
30	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.87	0.0	1.38	0.0	0.04E		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	3.57	0.0	0.12E		
TOTAL	1.98	1.00	1.40	2.99	2.24	0.48	1.64	6.59	9.58	6.33	5.45	1.55		
STA AV	2.11	2.53	2.27	3.93	3.70	3.38	1.72	2.53	2.92	3.21	2.94	2.38		

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

1974 MEAN DAILY DISCHARGE (cfs) HIESSEL (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	0.330	0.0	0.0	0.0	0.0	0.0	0.021	0.001
2	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
5	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
6	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.192	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.194	0.177
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.023	0.111
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.005
13	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.524	0.0	0.001	0.0 T
14	0.0	0.0	0.0	0.296	0.0	0.0	0.0	0.0	0.112	0.0	0.0	0.0
15	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.137	0.0	0.0	0.0
18	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.208	0.0	0.0	0.0
19	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
20	0.0 T	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.267	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.004	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.311	0.0
24	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.413	0.0 T
25	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0
26	0.306	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
27	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	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	0.010	0.001
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.302	0.010	0.001
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.890	0.0	0.003
MEAN	0.0164	0.0097	0.0006	0.0120	0.0162	0.0	0.0	0.0	0.1349	0.0707	0.0744	0.0097
INCHES	0.615	0.328	0.024	0.435	0.606	0.0	0.0	0.0	4.889	2.649	2.695	0.363
STA AV	0.543	0.498	0.598	0.947	0.844	0.658	0.110	0.122	0.317	0.463	0.567	0.580

NOTES: To convert mean daily discharge in CPS 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 32 yr period.

1974 SELECTED RUNOFF EVENT HIESSEL (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 OCTOBER 30 - 31, 1974												
10-30	0.0	0.0	10-30	915	0.0	0.0	10-30	1330	0.0	0.0		
				920	0.9600	0.08		1430	0.001	0.0000		
				925	3.0000	0.33		1436	0.001	0.0000		
				930	0.2401	0.35		1446	0.005	0.0001		
				1325	0.0	0.35		1451	0.014	0.0001		
				1345	0.1200	0.39		1456	0.024	0.0002		
				1355	0.0	0.39		1501	0.049	0.0003		
				1405	0.1200	0.41		1503	0.069	0.0004		
				1410	0.0	0.41		1504	0.092	0.0005		
				1415	0.2401	0.43		1505	0.172	0.0006		
				1425	0.1800	0.46		1506	0.299	0.0008		
				1430	0.9600	0.54		1507	0.381	0.0011		
				1435	1.6800	0.68		1509	0.462	0.0018		
				1437	1.7999	0.74		1511	0.601	0.0027		
				1441	0.2998	0.76		1513	0.771	0.0039		
				1445	0.7500	0.81		1516	1.003	0.0061		
				1450	1.3200	0.92		1521	1.248	0.0108		
				1455	0.8401	0.99		1526	1.348	0.0163		
				1500	0.8399	1.06		1531	1.551	0.0223		
				1505	0.1201	1.07		1536	1.811	0.0294		
				1510	0.3600	1.10		1541	2.017	0.0374		
				1515	0.0	1.10		1551	2.153	0.0549		
				1525	0.2999	1.15		1601	2.030	0.0725		
				1530	0.2401	1.17		1611	1.925	0.0890		
				1535	0.4801	1.21		1626	1.643	0.1115		
				1540	0.2399	1.23		1656	1.368	0.1494		
				1545	0.4801	1.27		1726	1.162	0.1812		
				1555	0.0	1.27		1756	1.003	0.2085		
				1605	0.1200	1.29		1826	0.836	0.2316		
				1905	0.0	1.29		1856	0.743	0.2515		

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

1974

SELECTED RUNOFF EVENT

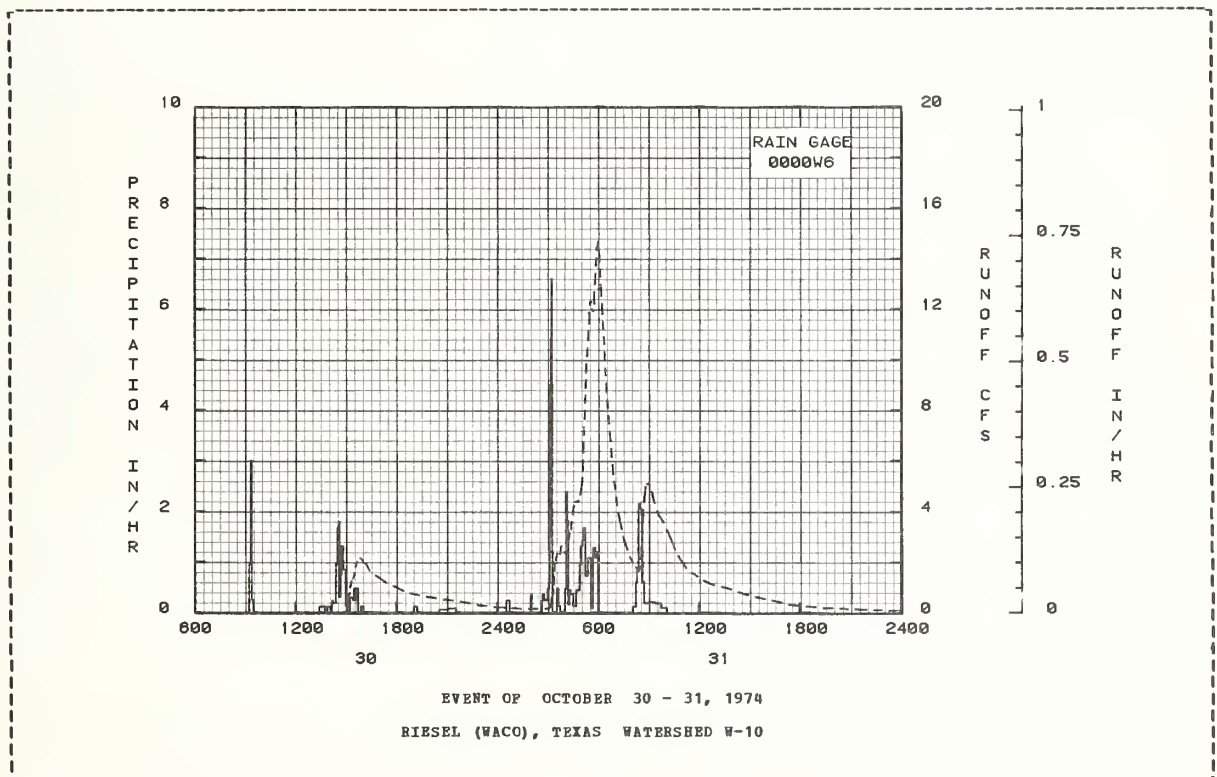
RIESEL (WACO), TEXAS WATERSHED W-10

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
10-30			1915		0.1199	1.31	10-30	1956	0.601	0.2853
			2035		0.0	1.31		2056	0.493	0.3129
			2105		0.0600	1.34		2156	0.400	0.3353
			2135		0.0800	1.38		2256	0.280	0.3525
			2400		0.0	1.38		2400	0.198	0.3653
10-31			35		0.0	1.38	10-31	100	0.150	0.3740
			45		0.2400	1.42		200	0.125	0.3810
			200		0.0	1.42		256	0.139	0.3872
			205		0.3600	1.45		306	0.156	0.3884
			240		0.0	1.45		311	0.214	0.3892
			245		0.2401	1.47		312	0.247	0.3894
			250		0.3600	1.50		313	0.322	0.3896
			255		0.2401	1.52		314	0.395	0.3899
			300		0.2401	1.54		315	0.499	0.3903
			305		0.4799	1.58		316	0.621	0.3908
			307		0.6001	1.60		320	0.714	0.3930
			309		1.4996	1.65		322	0.903	0.3944
			311		4.5003	1.80		323	1.133	0.3952
			313		5.3998	1.98		324	1.408	0.3963
			315		6.6000	2.20		325	1.661	0.3976
			317		4.5003	2.35		327	1.959	0.4006
			319		1.1998	2.39		330	2.084	0.4057
			335		0.0	2.39		335	2.324	0.4150
			340		0.4801	2.43		345	2.324	0.4345
			345		0.1199	2.44		350	2.626	0.4448
			403		0.0	2.44		400	2.373	0.4658
			408		0.4799	2.48		410	2.275	0.4853
			411		2.4002	2.60		415	2.816	0.4960
			415		1.7999	2.72		420	3.120	0.5084
			419		0.1499	2.73		425	3.304	0.5219
			423		0.4500	2.76		430	3.919	0.5371
			433		0.3601	2.82		435	4.221	0.5541
			443		0.1199	2.84		440	4.385	0.5722
			455		0.4501	2.93		450	4.385	0.6090
			500		0.9598	3.01		500	4.783	0.6474
			505		1.3200	3.12		505	5.327	0.6686
			510		1.4401	3.24		507	6.030	0.6782
			515		1.6800	3.38		509	6.716	0.6889
			520		0.7200	3.44		511	7.354	0.7007
			525		0.7200	3.50		513	7.987	0.7135
			530		1.0800	3.59		515	8.586	0.7274
			535		1.0801	3.68		518	9.528	0.7502
			543		0.0750	3.69		521	10.166	0.7750
			550		1.2857	3.84		525	10.819	0.8102
			555		1.0801	3.93		529	11.871	0.8483
			600		1.1999	4.03		532	12.290	0.8787
			805		0.0	4.03		535	12.290	0.9097
			815		0.1200	4.05		540	11.901	0.9604
			820		0.6000	4.10		545	11.901	1.0103
			825		0.8399	4.17		547	12.683	1.0310
			830		2.1601	4.35		550	13.422	1.0638
			835		2.0400	4.52		555	14.430	1.1222
			840		1.9200	4.68		600	14.686	1.1833
			845		0.5999	4.73		605	13.859	1.2432
			855		0.1800	4.76		610	12.805	1.2991
			905		0.1801	4.79		615	11.782	1.3507
			925		0.2100	4.86		620	10.877	1.3982
			945		0.1800	4.92		625	9.942	1.4419
			1005		0.0900	4.95		630	8.985	1.4816
								635	8.064	1.5174
								640	7.454	1.5499
								645	6.764	1.5797
								650	6.123	1.6068
								655	5.460	1.6311
								705	4.530	1.6730
								715	3.840	1.7081
								725	3.286	1.7380
								735	2.834	1.7636
								745	2.473	1.7859
								755	2.195	1.8055
								805	1.959	1.8229
								815	1.778	1.8386
								825	1.632	1.8529
								827	1.632	1.8556
								830	1.838	1.8600

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-10							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	833	2.163	1.8650
								836	2.591	1.8710
								838	3.249	1.8759
								841	3.782	1.8848
								845	4.447	1.8986
								850	4.998	1.9184
								855	5.085	1.9395
								905	5.063	1.9821
								915	4.593	2.0226
								935	3.880	2.0937
								955	3.550	2.1560
								1015	3.030	2.2113
								1035	2.490	2.2576
								1055	2.068	2.2958
								1115	1.748	2.3278
								1135	1.561	2.3556
								1155	1.421	2.3806
								1225	1.209	2.4137
								1255	1.083	2.4425
								1330	1.003	2.4732
								1430	0.778	2.5180
								1530	0.595	2.5526
								1630	0.457	2.5790
								1730	0.303	2.5982
								1830	0.227	2.6115
								1930	0.184	2.6219
								2130	0.118	2.6371
								2400	0.071	2.6490

NOTES: To convert runoff in CPS 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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	2.11	1.02	1.63	3.70	2.10	0.50	1.10	6.70	8.52	6.77	4.39	1.62	40.16															
	Q	0.329	0.138	0.029	0.961	0.125	0.0	0.0	0.0	2.690	2.428	1.776	0.426	8.903															
STA AV	P	2.19	2.51	2.33	3.86	3.74	3.46	1.79	2.26	2.80	3.09	2.80	2.40	33.23															
	Q	0.528	0.516	0.596	0.793	0.672	0.619	0.138	0.048	0.169	0.229	0.382	0.422	5.111															

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.	2 Hours		6 Hours		12 Hours		1 Day		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1974		4-13	0.850	9-17	0.592	9-17	0.878	10-31	1.667	10-31	2.065	10-30	2.337	10-30	2.438	10-30	2.648
MAXIMUMS FOR PERIOD OF RECORD																	
		4-19	2.540	4-19	2.150	4-19	2.740	4-19	3.480	4-19	3.660	3-29	3.980	11-22	4.770	4-19	9.360
		1957		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 56% pasture; 10% cotton; 23% fall planted small grain, largely oats; 10% row grain sorghum; 1% gravel and paved roads. Cropland terraced, contour cultivation. No change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y													
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	0.01E	0.0	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.01E	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	0.01E	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	0.01E	0.0	0.0	
3	0.02E	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.07E	0.63	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	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.0	
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	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	0.03E	0.0	0.0	
9	0.02E	0.0	0.04E	0.0	0.0	0.0	0.27	0.0	0.0	0.36	0.0	0.0	0.0	9	0.02E	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	
10	0.19	0.0	0.23	0.0	0.15	0.0	0.0	0.0	0.0	0.99	0.0	0.43	0.71	10	0.19	0.0	0.23	0.0	0.15	0.0	0.0	0.0	0.0	0.43	0.71	0.0	
11	0.0	0.0	0.13E	1.02	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.13E	1.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.19E	0.0	0.0	0.23	0.0	0.0	0.54	0.0	0.0	0.0	0.0	12	0.0	0.0	0.19E	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.05E	0.0	0.0	1.92	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	13	0.05E	0.0	0.0	1.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.05E	0.31	0.0	0.0	0.0	0.18	0.0	0.53	0.82	0.0	0.0	0.0	14	0.0	0.05E	0.31	0.0	0.0	0.0	0.18	0.0	0.53	0.82	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.88	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.88	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.04	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	0.47	0.14E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.47	0.14E	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	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	0.46	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	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	21	0.0	0.83	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	0.42	0.0	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	1.21	0.0	0.0	0.0	
23	0.31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.18	0.0	23	0.31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.18	0.0	
24	0.29	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.09	0.14E	0.25	0.29	0.0	24	0.29	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.09	0.14E	0.25	0.29	
25	0.43	0.0	0.01E	0.0	0.0	0.0	0.0	0.03E	0.23	0.0	0.0	0.0	0.0	25	0.43	0.0	0.01E	0.0	0.0	0.0	0.0	0.03E	0.23	0.0	0.0	0.0	
26	0.29	0.0	0.0	0.0	0.0	0.0	0.18E	2.19	0.03E	0.0	0.0	0.11E	0.07E	26	0.29	0.0	0.0	0.0	0.0	0.0	0.18E	2.19	0.03E	0.0	0.0	0.11E	
27	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	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07E	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.0	0.80	0.0	0.04E	0.04E	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.0	0.80	0.0	0.04E	
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.74	0.0	0.0	0.34	0.04E	0.04E	29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.34	
30	0.0	0.0	0.0	0.22	0.0	0.0	0.0	1.07	0.0	1.60	0.0	0.08E	0.08E	30	0.0	0.0	0.0	0.22	0.0	0.0	0.0	1.07	0.0	1.60	0.0	0.08E	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	3.41	0.12E	0.12E	0.12E	0.12E	31	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	3.41	0.0	0.12E	
TOTAL		2.11	1.02	1.63	3.70	2.10	0.50	1.10	6.70	8.52	6.77	4.39	1.62	TOTAL	2.11	1.02	1.63	3.70	2.10	0.50	1.10	6.70	8.52	6.77	4.39	1.62	
STA AV		2.19	2.51	2.33	3.86	3.74	3.46	1.79	2.26	2.80	3.09	2.80	2.40	STA AV	2.19	2.51	2.33	3.86	3.74	3.46	1.79	2.26	2.80	3.09	2.80	2.40	

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

1974		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS WATERSHED Y					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.003	0.032	0.012	0.0	1.290	0.0	0.0	0.0	0.0	0.017	0.575	0.097
2	0.010	0.040	0.010	0.001	0.035	0.0	0.0	0.0	0.0	0.016	0.230	0.092
3	0.010	0.019	0.006	0.0	0.001	0.0	0.0	0.0	0.0	0.013	0.119	0.086
4	0.009	0.014	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.362	0.079
5	0.012	0.016	0.006	0.0	0.241	0.0	0.0	0.0	0.0	0.010	0.132	0.119
6	0.012	0.019	0.005	0.0	0.042	0.0	0.0	0.0	0.0	0.009	0.083	0.178
7	0.008	0.013	0.006	0.0	0.004	0.0	0.0	0.0	0.0	0.008	2.346	0.074
8	0.016	0.013	0.004	0.0	0.001	0.0	0.0	0.0	0.0	0.006	0.669	0.055
9	0.017	0.010	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.254	0.051
10	0.029	0.009	0.031	0.0	0.004	0.0	0.0	0.0	0.204	0.003	2.638	1.893
11	0.013	0.010	0.013	0.044	0.004	0.0	0.0	0.0	0.031	0.003	0.408	0.650
12	0.006	0.012	0.030	0.010	0.0	0.0	0.0	0.0	0.030	0.003	0.129	0.125
13	0.009	0.010	0.006	8.050	0.0	0.0	0.0	0.0	1.711	0.003	0.087	0.093
14	0.014	0.014	0.012	4.317	0.0	0.0	0.0	0.0	2.742	0.023	0.060	0.093
15	0.010	0.014	0.039	0.017	0.0	0.0	0.0	0.0	0.296	0.022	0.062	0.087
16	0.009	0.010	0.010	0.001	0.0	0.0	0.0	0.0	0.055	0.005	0.070	0.070
17	0.010	0.012	0.006	0.0	0.0	0.0	0.0	0.0	26.215	0.003	0.075	0.061
18	0.056	0.021	0.005	0.0	0.0	0.0	0.0	0.0	2.535	0.0	0.077	0.057
19	0.253	0.010	0.004	0.0	0.0	0.0	0.0	0.0	0.332	0.0	0.082	0.055
20	0.023	0.013	0.044	0.0	0.0	0.0	0.0	0.0	0.125	0.0	0.060	0.048
21	0.013	1.385	0.039	0.0	0.0	0.0	0.0	0.0	0.084	0.0	0.052	0.043
22	0.010	0.036	0.006	0.027	0.0	0.0	0.0	0.0	0.061	0.0	0.051	0.053
23	0.060	0.014	0.005	0.001	0.0	0.0	0.0	0.0	0.039	0.0	7.686	0.068
24	0.460	0.006	0.016	0.0	0.0	0.0	0.0	0.0	0.047	0.0	5.704	0.177
25	0.548	0.006	0.013	0.0	0.0	0.0	0.0	0.0	0.179	0.0	0.204	0.129
26	2.416	0.009	0.010	0.0	0.0	0.0	0.0	0.0	0.099	0.0	0.139	0.114
27	0.091	0.008	0.009	0.0	0.0	0.0	0.0	0.0	0.068	0.0	0.101	0.118
28	0.051	0.012	0.006	0.0	0.0	0.0	0.0	0.0	0.036	0.056	0.097	0.110
29	0.034	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.021	0.018	0.328	0.131
30	0.031	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.018	3.333	0.182	0.200
31	0.026		0.003		0.0		0.0	0.0		27.960		0.328
MEAN	0.1377	0.0640	0.0122	0.4156	0.0523	0.0	0.0	0.0	1.1643	1.0169	0.7687	0.1785
INCHES	0.329	0.138	0.029	0.961	0.125	0.0	0.0	0.0	2.690	2.428	1.776	0.426
STA AV	0.528	0.516	0.596	0.793	0.672	0.619	0.138	0.048	0.169	0.229	0.382	0.422

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 33 yr period.

1974		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 OCTOBER 30 - 31, 1974										
10-30	RG 00084A 1.49	0.257	10-30	RG 00084A 2400	0.0	0.0	10-30	2400	2.442	0.0
			10-31	39	0.0	0.0	10-31	100	2.114	0.0073
				54	0.1600	0.04		200	1.816	0.0136
				204	0.0	0.04		250	1.791	0.0185
				209	0.7200	0.10		308	1.970	0.0203
WATERSHED CONDITIONS:										
56% pasture, Bermudagrass and native grass, good cover, moderately grazed;										
23% fall planted oats; 10% row grain sorghum; 10% cotton; 1% gravel roads. Cropland terraced, cultivated on contour.										
				244	0.0	0.10		313	2.646	0.0209
				249	0.1201	0.11		314	3.250	0.0210
				304	0.3200	0.19		315	4.196	0.0213
				309	0.5999	0.24		316	5.428	0.0215
				312	1.2003	0.30		317	6.589	0.0218
				314	3.5999	0.42		318	7.593	0.0222
				316	4.8001	0.58		319	9.965	0.0227
				318	7.1997	0.82		320	11.313	0.0232
				320	3.6003	0.94		321	13.262	0.0239
				322	1.1998	0.98		324	16.374	0.0263
				324	0.6001	1.00		325	19.694	0.0272
				339	0.0	1.00		326	25.687	0.0283
				344	0.3600	1.03		327	30.884	0.0301
				354	0.0	1.03		328	33.209	0.0317
				404	0.0600	1.04		329	35.355	0.0334
				411	0.3429	1.08		330	36.816	0.0357
				414	2.5998	1.21		331	39.457	0.0376
				418	1.9501	1.34		332	44.791	0.0397
				424	0.0	1.34		333	55.113	0.0422
				434	0.3000	1.39		334	69.165	0.0461
				444	0.2400	1.43		335	84.961	0.0500
				454	0.3000	1.48		336	103.925	0.0547
				459	0.4799	1.52		337	121.647	0.0604
				504	0.9600	1.60		338	133.380	0.0683
				509	0.8401	1.67		339	144.877	0.0753

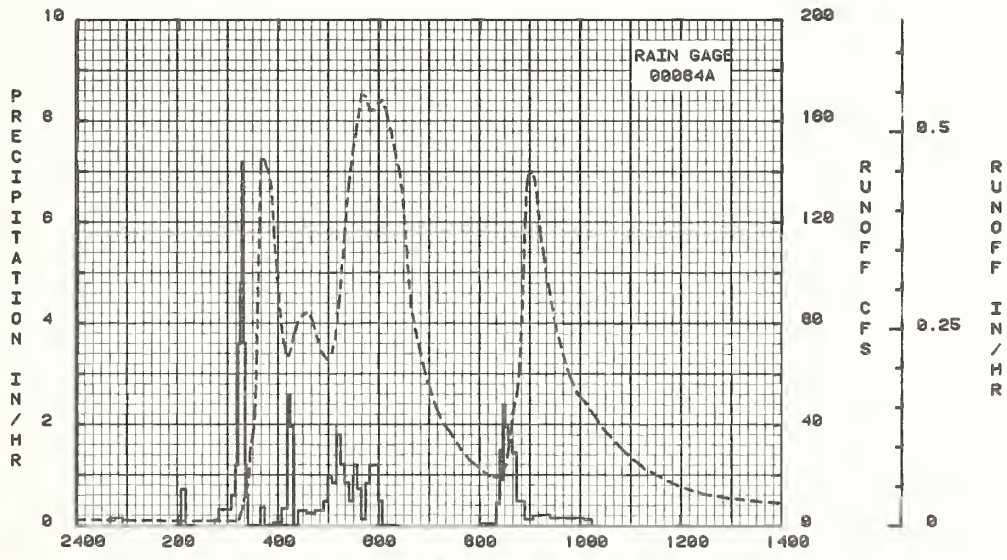
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			OCTOBER 30 - 31, 1974 (CONTINUED)							
10-31			514		1.7999	1.82	10-31	342	144.877	0.0989
			519		1.2001	1.92		348	139.477	0.1435
			524		0.8399	1.99		351	133.046	0.1657
			529		0.4801	2.03		354	116.841	0.1861
			534		1.1999	2.13		357	103.758	0.2040
			539		0.7202	2.19		400	91.479	0.2199
			544		0.1199	2.20		403	79.475	0.2328
			549		0.8399	2.27		406	72.828	0.2452
			554		1.2001	2.37		409	67.934	0.2567
			559		1.2001	2.47		412	67.203	0.2677
			604		0.4799	2.51		415	70.036	0.2789
			804		0.0	2.51		418	75.304	0.2898
			820		0.0375	2.52		423	80.440	0.3113
			824		0.4502	2.55		428	82.961	0.3328
			826		1.4996	2.60		433	84.243	0.3548
			828		0.9000	2.63		438	82.820	0.3779
			830		2.4001	2.71		443	77.841	0.3990
			834		1.9501	2.84		448	71.676	0.4187
			839		1.6800	2.98		453	67.446	0.4379
			844		1.4399	3.10		458	65.520	0.4554
			854		0.4800	3.18		503	67.934	0.4729
			904		0.1200	3.20		508	74.254	0.4926
			924		0.2100	3.27		513	91.023	0.5143
			944		0.1500	3.32		518	114.491	0.5414
			1004		0.1500	3.37		523	134.887	0.5757
			1014		0.1200	3.39		528	147.898	0.6130
								533	158.712	0.6533
								538	170.445	0.6987
								543	169.658	0.7435
								548	164.027	0.7874
								553	164.412	0.8327
								558	166.924	0.8763
								603	168.287	0.9205
								608	162.879	0.9661
								613	156.285	1.0081
								618	148.435	1.0483
								623	140.512	1.0881
								628	128.439	1.1235
								633	105.775	1.1543
								638	86.412	1.1808
								643	77.167	1.2024
								648	70.036	1.2218
								653	62.707	1.2401
								658	56.382	1.2557
								703	51.630	1.2700
								708	46.713	1.2835
								713	42.667	1.2953
								718	39.786	1.3061
								728	35.204	1.3263
								738	29.935	1.3439
								748	25.807	1.3586
								758	23.149	1.3718
								808	20.494	1.3835
								812	19.596	1.3878
								817	19.109	1.3929
								822	19.303	1.3980
								827	20.955	1.4035
								832	24.164	1.4095
								834	28.488	1.4124
								836	33.499	1.4155
								838	38.400	1.4196
								840	44.522	1.4237
								842	48.598	1.4290
								844	51.430	1.4340
								846	56.169	1.4401
								848	64.219	1.4461
								850	79.750	1.4542
								852	99.971	1.4633
								854	120.898	1.4757
								856	135.055	1.4885
								858	138.619	1.5040
								900	139.822	1.5197
								902	139.994	1.5337
								904	137.936	1.5494
								906	134.383	1.5631

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	908	130.236	1.5780
								912	115.571	1.6042
								917	104.259	1.6331
								922	94.248	1.6593
								927	84.961	1.6840
								932	77.033	1.7053
								937	70.538	1.7247
								942	64.572	1.7433
								947	59.649	1.7597
								952	55.639	1.7749
								957	52.031	1.7897
								1007	48.121	1.8161
								1017	43.543	1.8408
								1027	38.400	1.8629
								1037	34.978	1.8822
								1047	31.160	1.9000
								1057	27.910	1.9160
								1117	22.490	1.9428
								1137	19.013	1.9649
								1157	15.738	1.9837
								1227	12.469	2.0063
								1257	10.860	2.0250
								1327	9.699	2.0415
								1357	8.959	2.0565
								1427	7.264	2.0695
								1457	6.319	2.0804
								1527	5.449	2.0898
								1557	4.637	2.0979
								1627	4.092	2.1049
								1657	3.597	2.1111
								1727	3.093	2.1165
								1757	2.634	2.1211
								1827	2.339	2.1250
								1857	2.142	2.1286
								1957	1.816	2.1350
								2057	1.618	2.1405
								2157	1.408	2.1454
								2257	1.263	2.1496
								2400	1.124	2.1537

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



EVENT OF OCTOBER 30 - 31, 1974
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
1974	P	2.11	1.00	1.62	3.79	2.09	0.50	1.06	6.74	8.58	6.87	4.31	1.65	40.32
	Q	0.151	0.061	0.001	0.780	0.035	0.0	0.0	0.0	2.868	3.393	1.879	0.292	9.458
STA AV	P	2.20	2.57	2.55	3.94	4.19	3.39	1.83	2.26	2.88	3.05	2.95	2.53	34.32
	Q	0.461	0.543	0.728	0.902	1.004	0.634	0.138	0.047	0.160	0.264	0.397	0.509	5.788

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Date	Maximum Discharge Rate	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							
	9-17	1.077	9-17	0.923	9-17	1.306	10-31	2.419	10-31	2.933	10-30	3.331	10-30	3.417	10-30	3.613

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
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: 20% cotton; 25% fall planted small grain, largely oats; 19% row grain sorghum; 35% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pnb. 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.

1974 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
3	0.03E	0.0	0.0	0.0	0.02E	0.0	0.0	0.07E	0.63	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	0.31	0.0		
5	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.15E		
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0		
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.03E	0.0		
9	0.02E	0.0	0.03E	0.0	0.0	0.27	0.0	0.0	0.36	0.0	0.06	0.0		
10	0.18	0.0	0.18	0.0	0.15	0.0	0.0	0.0	0.99	0.0	0.44	0.71		
11	0.0	0.0	0.17E	1.01	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.19E	0.0	0.0	0.23	0.0	0.0	0.53	0.0	0.0	0.0		
13	0.05E	0.0	0.0	2.02	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0		
14	0.0	0.05E	0.31	0.0	0.0	0.0	0.18	0.0	0.59	0.80	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.91	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.06	0.0	0.0	0.0		
18	0.47	0.13E	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	0.47	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.82	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.41	0.0	0.0	0.0	1.22	0.0	0.0	0.0	0.0		
23	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.10	0.0		
24	0.27	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.08	0.14E	0.24	0.31		
25	0.43	0.0	0.01E	0.0	0.0	0.0	0.0	0.01E	0.26	0.0	0.0	0.0		
26	0.29	0.0	0.0	0.0	0.0	0.0	0.20E	2.18	0.03E	0.0	0.0	0.10E		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.07E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.86	0.0	0.05E		
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.75	0.0	0.0	0.33	0.05E		
30	0.0	0.0	0.0	0.22	0.0	0.0	0.0	1.10	0.0	1.68	0.0	0.09E		
31	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	3.39	0.0	0.12E		
TOTAL	2.11	1.00	1.62	3.79	2.09	0.50	1.06	6.74	8.58	6.87	4.31	1.65		
STA AV	2.20	2.57	2.55	3.94	4.19	3.39	1.83	2.26	2.88	3.05	2.95	2.53		

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

1974 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	0.002	0.0	0.0	0.170	0.0	0.0	0.0	0.0	0.0	0.212	0.021
2	0.0	0.003	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.064	0.021
3	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.019
4	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.177	0.019
5	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.034	0.041
6	0.0	0.001	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.015	0.058
7	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.037	0.016
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.296	0.012
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.108	0.012
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.299	0.618
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.146	0.158
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.023	0.035
13	0.0	0.0	0.0	2.234	0.0	0.0	0.0	0.0	0.275	0.0	0.009	0.025
14	0.0	0.0	0.0	2.094	0.0	0.0	0.0	0.0	0.928	0.0	0.007	0.029
15	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.110	0.0	0.011	0.024
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.015	0.017
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.357	0.0	0.018	0.013
18	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.041	0.0	0.018	0.012
19	0.057	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.075	0.0	0.017	0.012
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.009	0.011
21	0.0	0.327	0.003	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.007	0.011
22	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.008	0.013
23	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	3.802	0.017
24	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	2.766	0.058
25	0.117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.052	0.034
26	0.537	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0	0.032	0.036
27	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.022	0.037
28	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.002	0.021	0.034
29	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.124	0.039
30	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.085	0.048	0.062
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.729	0.104	0.104
MEAN	0.0271	0.0120	0.0001	0.1443	0.0062	0.0	0.0	0.0	0.5301	0.6070	0.3473	0.0522
INCHES	0.151	0.061	0.001	0.780	0.035	0.0	0.0	0.0	2.868	3.393	1.879	0.292
STA AV	0.461	0.543	0.728	0.902	1.004	0.634	0.138	0.047	0.160	0.264	0.397	0.509

NOTES: To convert mean daily discharge in CPS to IR/DAY, multiply by 0.180316. Records began Jan. 1, 1939. STA AV based on 36 yr period.

1974 SELECTED RUOFF EVERT RIESEL (WACO), TEXAS WATERSHED Y-2												
ARTECEDENT CONDITIONS			RAIRFALL				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)		
EVERT OF OCTOBER 30 - 31, 1974												
RG 00069B			RG 00069B									
10-30	1.73	0.376	10-30	2400	0.0	0.0	10-30	2400	1.330	0.0		
			10-31	30	0.0	0.0	10-31	103	1.142	0.0098		
				40	0.1800	0.03		203	0.985	0.0178		
				200	0.0	0.03		233	0.958	0.0214		
				210	0.3600	0.09		253	1.033	0.0239		
WATERSHED CONDITIONS:				240	0.0	0.09		303	1.112	0.0252		
35% pasture, Bermudagrass and native grass, good cover, moderately grazed; 20% cotton; 25% fall planted oats; 19% row grain sorghum; 1% gravel roads. Cropland terraced, cultivated on contour.				245	0.2401	0.11		310	1.241	0.0263		
				250	0.3600	0.14		313	1.580	0.0268		
				255	0.4799	0.18		315	2.119	0.0273		
				300	0.2401	0.20		316	2.608	0.0276		
				305	0.3600	0.23		322	2.948	0.0296		
				310	1.0800	0.32		327	4.168	0.0319		
				315	4.8001	0.72		329	5.182	0.0330		
				320	3.4799	1.01		330	6.192	0.0338		
				325	0.2401	1.03		331	11.798	0.0349		
				340	0.0	1.03		332	42.960	0.0381		
				345	0.6000	1.08		333	61.109	0.0424		
				400	0.0	1.08		334	83.821	0.0549		
				405	0.3600	1.11		335	92.879	0.0652		
				410	0.7200	1.17		337	102.750	0.0882		
				415	1.0800	1.26		339	110.060	0.1163		
				420	0.3600	1.29		341	112.253	0.1424		
				425	0.0	1.29		343	110.789	0.1718		
				430	0.3600	1.32		345	109.333	0.2009		
				435	0.3602	1.35		347	105.604	0.2261		
				440	0.0	1.35		352	91.742	0.2870		
				445	0.2399	1.37		357	79.046	0.3421		
				450	0.3600	1.40		402	69.096	0.3877		
				500	0.9001	1.55		407	60.817	0.4278		
				510	1.0800	1.73		412	54.611	0.4650		

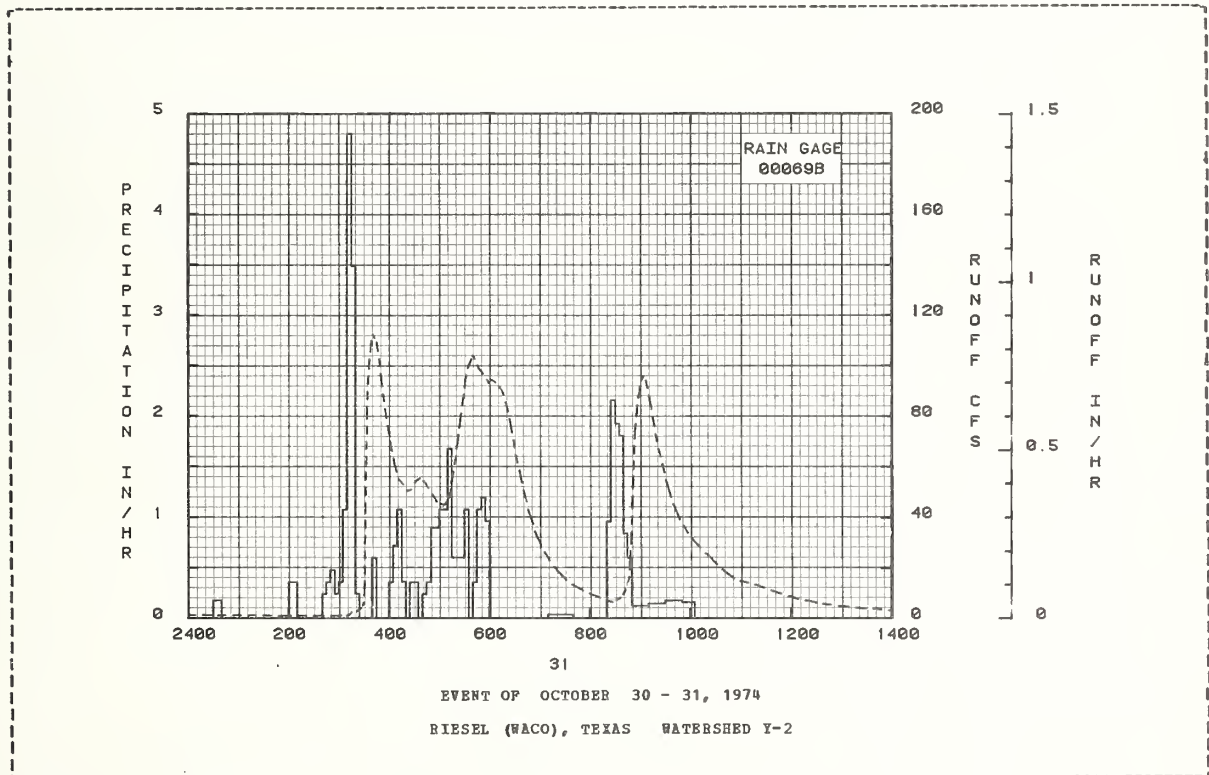
NOTES: To convert runoff in CPS to IR/HR, multiply by 0.007513.

1974 SELECTED RUNOFF EVENT			EISEL (WACO), TEXAS WATERSHED Y-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			OCTOBER	30 - 31, 1974 (CONTINUED)						
10-31				515	1.6800	1.87	10-31	417	52.936	0.4982
				530	0.6000	2.02		422	50.370	0.5300
				535	1.0800	2.11		427	51.007	0.5627
				540	0.0	2.11		432	54.517	0.5953
				545	0.3600	2.14		437	55.549	0.6292
				550	1.0800	2.23		442	54.237	0.6646
				555	1.2001	2.33		447	51.555	0.6972
				600	0.9600	2.41		452	48.925	0.7282
				710	0.0	2.41		457	46.170	0.7589
				740	0.0400	2.43		502	45.294	0.7871
				820	0.0	2.43		505	44.771	0.8042
				825	0.9600	2.51		507	45.119	0.8148
				830	2.1601	2.69		509	46.170	0.8269
				835	1.9200	2.85		512	47.940	0.8448
				840	1.7999	3.00		517	58.113	0.8775
				845	0.8399	3.07		520	64.360	0.9009
				850	0.6000	3.12		523	72.600	0.9270
				910	0.1200	3.16		526	81.312	0.9541
				930	0.1500	3.21		529	88.586	0.9865
				950	0.1800	3.27		532	96.320	1.0218
			1005	0.1600	3.31			535	100.277	1.0593
								538	102.632	1.0980
								540	103.817	1.1222
								542	102.750	1.1495
								547	98.757	1.2116
								552	96.667	1.2718
								557	94.479	1.3335
								559	93.107	1.3555
								602	94.365	1.3913
								607	93.221	1.4491
								612	91.742	1.5088
								617	88.474	1.5643
								622	81.746	1.6168
								627	73.434	1.6669
								632	64.360	1.7094
								637	56.494	1.7466
								642	48.925	1.7806
								647	42.362	1.8088
								652	37.206	1.8333
								657	32.072	1.8556
								702	28.833	1.8744
								712	22.816	1.9070
								722	18.452	1.9324
								732	15.190	1.9537
								742	12.711	1.9713
								752	11.013	1.9859
								802	9.406	1.9988
								812	8.080	2.0098
								822	6.786	2.0190
								827	6.402	2.0232
								832	7.355	2.0275
								837	8.404	2.0323
								840	9.553	2.0357
								843	11.586	2.0398
								845	13.371	2.0431
								847	16.611	2.0466
								848	21.214	2.0488
								849	26.794	2.0523
								850	34.564	2.0559
								851	45.468	2.0606
								852	56.304	2.0666
								854	74.062	2.0838
								856	81.529	2.1021
								858	87.804	2.1244
								900	91.742	2.1482
								902	94.594	2.1700
								904	95.974	2.1952
								907	94.021	2.2287
								912	85.693	2.2867
								917	75.851	2.3365
								922	66.864	2.3804
								927	60.622	2.4216
								932	53.306	2.4567
								937	47.940	2.4879
								942	43.560	2.5174

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	947	39.172	2.5429
								952	36.559	2.5663
								1002	31.231	2.6090
								1012	27.879	2.6463
								1022	24.671	2.6787
								1032	21.280	2.7077
								1042	18.265	2.7327
								1052	15.836	2.7537
								1100	14.750	2.7694
								1120	13.167	2.8042
								1140	10.668	2.8339
								1200	8.502	2.8581
								1230	6.216	2.8858
								1300	4.811	2.9065
								1330	3.879	2.9228
								1400	3.183	2.9361
								1430	2.693	2.9471
								1500	2.263	2.9564
								1530	1.888	2.9642
								1600	1.598	2.9708
								1700	1.210	2.9813
								1800	0.978	2.9895
								1900	0.781	2.9961
								2100	0.546	3.0061
								2400	0.379	3.0165

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



HIESEL (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)														HIESEL (WACO), TEXAS WATERSHED Y-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
1974	P	2.05	0.95	1.58	3.70	2.11	0.49	1.03	6.75	8.49	6.86	4.32	1.59	39.92															
	Q	0.035	0.007	0.0	0.813	0.004	0.0	0.0	0.0	1.710	3.088	1.286	0.111	7.053															
STA AV	P	2.06	2.57	2.27	3.89	3.76	3.58	1.83	2.33	2.93	3.30	2.92	2.35	33.78															
	Q	0.303	0.323	0.408	0.647	0.704	0.616	0.129	0.053	0.140	0.349	0.377	0.352	4.402															

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Rate				Maximum Volume for Selected Time Interval											
		Date	Date	Date	Date	6 Hours	12 Hours	1 Day	2 Days	Date	Date	Date	Date				
		Vol.	Vol.	Vol.	Vol.	Date	Date	Date	Date	Vol.	Vol.	Vol.	Vol.				
1974		4-13	1.030	9-17	0.665	10-31	1.085	10-31	2.317	10-31	2.776	10-30	3.066	10-30	3.097	10-30	3.234
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	3.790	3-29	1.900	3-29	2.340	3-29	2.950	3-29	3.130	3-29	3.670	11-22	4.870	4-19	8.490
		1941		1965		1965		1965		1965		1965		1940		1957	

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

1974 DAILY PRECIPITATION (inches)														HIESEL (WACO), TEXAS WATERSHED Y-6														
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	0.01E	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.01E	0.0	0.0	0.0	1.26	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	0.01E	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	0.01E	0.0	0.0	
3	0.02E	0.0	0.0	0.0	0.01E	0.0	0.0	0.06E	0.62	0.0	0.0	0.0	0.0	3	0.02E	0.0	0.0	0.0	0.01E	0.0	0.0	0.06E	0.62	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	0.32	0.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	5	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.03	0.0	0.0	8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.03	0.0	0.0	
9	0.01E	0.0	0.01E	0.0	0.0	0.26	0.0	0.0	0.35	0.0	0.05	0.0	0.0	9	0.01E	0.0	0.01E	0.0	0.0	0.26	0.0	0.0	0.35	0.0	0.05	0.0	0.0	
10	0.17	0.0	0.09	0.0	0.16	0.0	0.0	0.0	0.98	0.0	0.44	0.71	0.0	10	0.17	0.0	0.09	0.0	0.16	0.0	0.0	0.0	0.98	0.0	0.44	0.71	0.0	
11	0.0	0.0	0.21E	1.00	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	11	0.0	0.0	0.21E	1.00	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.24E	0.0	0.0	0.23	0.0	0.0	0.53	0.0	0.0	0.0	0.0	12	0.0	0.0	0.24E	0.0	0.0	0.23	0.0	0.0	0.53	0.0	0.0	0.0	0.0	
13	0.05E	0.0	0.0	1.97	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	13	0.05E	0.0	0.0	1.97	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	
14	0.0	0.04E	0.30	0.0	0.0	0.0	0.17	0.0	0.60	0.81	0.0	0.0	0.0	14	0.0	0.04E	0.30	0.0	0.0	0.0	0.17	0.0	0.60	0.81	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.83	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.83	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	3.12	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	3.12	0.0	0.0	0.0	0.0	
18	0.45	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.45	0.12E	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	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.45	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	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	21	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.39	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.39	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	
23	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.14	0.0	0.0	23	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.14	0.0	0.0	
24	0.28	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.08	0.14	0.24	0.28	0.0	24	0.28	0.0	0.26	0.0	0.0	0.0	0.0	0.08	0.14	0.24	0.28	0.0	0.0	
25	0.41	0.0	0.02E	0.0	0.0	0.0	0.0	0.01E	0.26	0.0	0.0	0.0	0.0	25	0.41	0.0	0.02E	0.0	0.0	0.0	0.0	0.01E	0.26	0.0	0.0	0.0	0.0	
26	0.28	0.0	0.0	0.0	0.0	0.0	0.20E	2.15	0.02E	0.0	0.0	0.0	0.09E	26	0.28	0.0	0.0	0.0	0.0	0.0	0.20E	2.15	0.02E	0.0	0.0	0.0	0.09E	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.09E	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.09E	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.86	0.0	0.05E	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.86	0.0	0.0	0.05E	
29	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.74	0.0	0.0	0.32	0.05E	0.0	29	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.74	0.0	0.0	0.32	0.0	0.05E	
30	0.0	0.0	0.0	0.21	0.0	0.0	0.0	1.08	0.0	1.69	0.0	0.06E	0.0	30	0.0	0.0	0.0	0.21	0.0	0.0	0.0	1.08	0.0	1.69	0.0	0.0	0.06E	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	3.36	0.11E	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	3.36	0.11E	0.0	0.0	
TOTAL	2.05	0.95	1.58	3.70	2.11	0.49	1.03	6.75	8.49	6.86	4.32	1.59	39.92															
STA AV	2.06	2.57	2.27	3.89	3.76	3.58	1.83	2.33	2.93	3.30	2.92	2.35	33.78															

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69E and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

1974		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS						WATERSRED Y-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.009	0.0	T	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.001		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.094	0.0	T	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.086	0.030		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.006		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002		
13	0.0	0.0	0.0	0.450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	T	
14	0.0	0.0	0.0	0.107	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.003		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.002		
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	T	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.102	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	0.0	0.0	0.0	T	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.005	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	0.381	0.0		
24	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.242	0.004		
25	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.002		
26	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.003		
27	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.003		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.002		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.191	0.001	0.003		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.924	0.007	0.007		
MEAN	0.0008	0.0002	0.0	0.0186	0.0001	0.0	0.0	0.0	0.0390	0.0682	0.0294	0.0025		
INCHES	0.035	0.007	0.0	0.813	0.004	0.0	0.0	0.0	1.710	3.088	1.286	0.111		
STA AV	0.303	0.323	0.408	0.647	0.704	0.616	0.129	0.053	0.140	0.349	0.377	0.352		

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.460224. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period.

1974		SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSRED Y-6		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 31, 1974										
10-31	RG 00069R 0.0	0.011	10-31	RG 00069R 30	0.0	0.0	10-31	249	0.072	0.0
				40	0.1800	0.03		304	0.122	0.0015
				200	0.0	0.03		309	0.166	0.0022
				210	0.3600	0.09		311	0.212	0.0025
				240	0.0	0.09		312	0.272	0.0028
				245	0.2401	0.11		313	0.373	0.0031
				250	0.3600	0.14		314	0.453	0.0035
				255	0.4799	0.18		315	0.595	0.0041
				300	0.2401	0.20		316	0.749	0.0048
				305	0.3600	0.23		317	1.179	0.0057
				310	1.0800	0.32		318	2.787	0.0076
				315	4.8001	0.72		319	5.573	0.0126
				320	3.4799	1.01		320	6.364	0.0182
				325	0.2401	1.03		322	7.019	0.0309
				340	0.0	1.03		324	7.686	0.0467
				345	0.6000	1.08		325	9.430	0.0548
				400	0.0	1.08		326	10.703	0.0644
				405	0.3600	1.11		328	12.045	0.0887
				410	0.7200	1.17		330	12.429	0.1149
				415	1.0800	1.26		332	12.603	0.1387
				420	0.3600	1.29		334	12.603	0.1656
				425	0.0	1.29		337	12.257	0.2011
				430	0.3600	1.32		340	11.545	0.2379
				435	0.3602	1.35		344	10.356	0.2821
				440	0.0	1.35		349	9.181	0.3332
				445	0.2399	1.37		354	7.939	0.3759
				450	0.3600	1.40		359	6.700	0.4124
				500	0.9001	1.55		404	5.986	0.4456
				510	1.0800	1.73		409	5.828	0.4751
				515	1.6800	1.87		414	5.907	0.5044

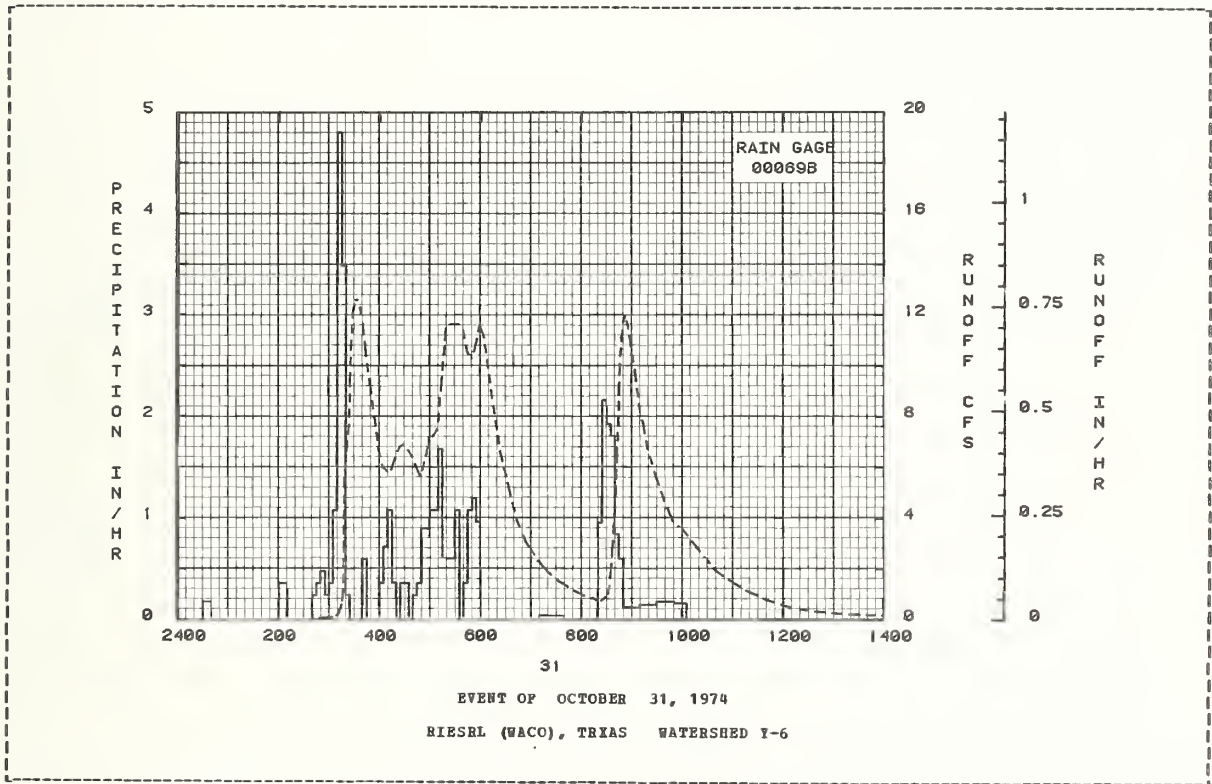
NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.060843.

1974 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			OCTOBER 31, 1974 (CONTINUED)							
10-31			530		0.6000	2.02	10-31	419	6.364	0.5364
			535		1.0800	2.11		424	6.815	0.5693
			540		0.0	2.11		429	6.931	0.6036
			545		0.3600	2.14		439	6.391	0.6717
			550		1.0800	2.23		449	5.598	0.7330
			555		1.2001	2.33		459	6.960	0.7956
			600		0.9600	2.41		509	7.531	0.8697
			710		0.0	2.41		514	9.538	0.9123
			740		0.0400	2.43		519	11.863	0.9672
			820		0.0	2.43		524	11.627	1.0248
			825		0.9600	2.51		534	11.627	1.1436
			830		2.1601	2.69		539	11.381	1.2010
			835		1.9200	2.85		544	10.509	1.2557
			840		1.7999	3.00		549	10.280	1.3100
			845		0.8399	3.07		554	10.782	1.3626
			850		0.6000	3.12		559	11.586	1.4184
			910		0.1200	3.16		604	11.099	1.4777
			930		0.1500	3.21		614	8.697	1.5765
			950		0.1800	3.27		624	6.530	1.6543
			1005		0.1600	3.31		634	5.355	1.7140
								644	3.869	1.7591
								654	3.048	1.7944
								704	2.556	1.8230
								714	2.109	1.8463
								724	1.750	1.8660
								734	1.499	1.8826
								744	1.289	1.8966
								754	1.099	1.9088
								804	0.934	1.9191
								814	0.826	1.9279
								819	0.749	1.9320
								824	0.755	1.9358
								829	0.900	1.9399
								832	1.037	1.9429
								834	1.351	1.9455
								835	1.740	1.9469
								836	2.206	1.9488
								837	2.678	1.9511
								838	3.116	1.9546
								839	3.772	1.9578
								840	4.132	1.9616
								841	4.966	1.9659
								842	5.907	1.9724
								843	6.757	1.9784
								844	7.686	1.9853
								845	9.041	1.9952
								846	10.091	2.0043
								848	11.099	2.0244
								850	11.793	2.0489
								852	11.960	2.0715
								854	11.751	2.0969
								859	10.742	2.1530
								904	9.683	2.2064
								909	8.428	2.2516
								914	7.624	2.2917
								919	6.700	2.3291
								929	5.598	2.3905
								939	4.669	2.4429
								949	3.869	2.4866
								1001	3.544	2.5315
								1021	2.693	2.5945
								1041	1.913	2.6410
								1101	1.451	2.6754
								1121	1.068	2.7008
								1141	0.780	2.7195
								1201	0.558	2.7332
								1221	0.406	2.7429
								1241	0.318	2.7502
								1301	0.263	2.7562
								1331	0.205	2.7633
								1401	0.166	2.7689
								1431	0.137	2.7735
								1501	0.111	2.7773
								1601	0.077	2.7830
								1701	0.052	2.7869

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

1974 SELECTED RUNOFF EVENT			BIESSEL (WACO), TEXAS WATERSHED Y-6							
ANTICIPATED CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 31, 1974 (CONTINUED)										
							10-31	1801	0.040	2.7897
								2001	0.025	2.7937
								2201	0.018	2.7963
								2400	0.014	2.7982

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



RIRSEL (WACO), TEXAS WATERSRSD Y-7

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 08 sec. N.; Long. 96 deg. 52 min. 49 sec. W.

AREA: 40.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIRSEL (WACO), TEXAS WATERSRSD Y-7	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1974	P 2.07	1.05	1.61	3.51	2.23	0.45	1.15	7.03	8.54	6.62	4.63	1.61	40.50	
	Q 0.170	0.072	0.0	0.471	0.186	0.0	0.0	0.003	3.098	2.869	1.948	0.136	8.953	
STA AV	P 2.10	2.61	2.30	3.99	3.77	3.57	1.81	2.39	2.88	3.29	2.95	2.37	34.03	
	Q 0.383	0.447	0.612	0.863	0.823	0.722	0.122	0.103	0.232	0.323	0.492	0.451	5.571	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		2 Days		8 Days			
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1974	9-17	0.906	9-17	0.788	9-17	1.198	10-31	2.052	10-31	2.592	10-30	2.857	10-30	2.872	9-10	3.094

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

NOTES: Watershed conditions: 88% pasture, Bermudagrass, moderately grazed; 12% sorghum. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pnb. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 89 and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974	DAILY PRECIPITATION (inches)												RIRSEL (WACO), TEXAS WATERSRSD Y-7	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01R	0.0	0.0	0.0	1.36	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	0.01E	0.0		
3	0.02E	0.0	0.0	0.0	0.02E	0.0	0.0	0.05E	0.64	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	0.29	0.0		
5	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.17R		
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.0		
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.04	0.0		
9	0.01E	0.0	0.06R	0.0	0.0	0.23	0.0	0.0	0.39	0.0	0.07	0.0		
10	0.21	0.0	0.24	0.0	0.16	0.0	0.0	0.0	0.99	0.0	0.44	0.71		
11	0.0	0.0	0.03E	1.04	0.0	0.0	0.06R	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.25	0.0	0.0	0.22	0.0	0.0	0.54	0.0	0.0	0.0		
13	0.05E	0.0	0.0	1.69	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0		
14	0.0	0.05R	0.31	0.0	0.0	0.0	0.15	0.0	0.49	0.85	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.08R	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.82	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.20	0.0	0.0	0.0		
18	0.41	0.16	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	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.12R	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.42	0.0	0.0	0.0	1.66	0.0	0.0	0.0	0.0		
23	0.28	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.39	0.0		
24	0.34	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.69	0.15	0.28	0.29		
25	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.12R	0.13	0.0	0.0	0.0		
26	0.28	0.0	0.0	0.0	0.0	0.0	0.19R	2.11	0.04R	0.0	0.0	0.10R		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.07R		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.67	0.0	0.04E		
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.70	0.0	0.0	0.33	0.04R		
30	0.0	0.0	0.0	0.24	0.0	0.0	0.0	1.01	0.0	1.51	0.0	0.08E		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	3.44	0.0	0.11R		
TOTAL	2.07	1.05	1.61	3.51	2.23	0.45	1.15	7.03	8.54	6.62	4.63	1.61		
STA AV	2.10	2.61	2.30	3.99	3.77	3.57	1.81	2.39	2.88	3.29	2.95	2.37		

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 89 and W-2A. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSRED Y-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.297	0.0	0.0	0.0	0.0	0.0	0.009	0.0
2	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.002	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	0.002	0.0
5	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.165	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.097	0.0	0.200	0.181
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.016	0.043
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.001
13	0.0	0.0	0.0	0.206	0.0	0.0	0.0	0.0	0.325	0.0	0.0	0.0
14	0.0	0.0	0.0	0.586	0.0	0.0	0.0	0.0	0.268	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.316	0.0	0.0	0.0
18	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.193	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.120	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 T	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	1.851	0.0
24	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.997	0.0
25	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0
26	0.240	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
27	0.001	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	0.003	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.431	0.001	0.0 T
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.390	0.003	0.003
MEAN	0.0092	0.0043	0.0	0.0264	0.0101	0.0	0.0	0.0002	0.1735	0.1555	0.1091	0.0074
INCRS	0.170	0.072	0.0	0.471	0.186	0.0	0.0	0.003	3.098	2.869	1.948	0.136
STA AV	0.383	0.447	0.612	0.863	0.823	0.722	0.122	0.103	0.232	0.323	0.492	0.451

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.595041. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSRED Y-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 OCTOBER 31, 1974										
10-31	RG 000089 0.0	0.005	10-31	RG 000089			10-31			
				30	0.0	0.0		240	0.062	0.0
				100	0.1000	0.05		300	0.090	0.0007
				150	0.0	0.05		305	0.118	0.0009
				200	0.1800	0.08		308	0.160	0.0010
				235	0.0	0.08		310	0.266	0.0012
				240	0.1199	0.09		312	0.437	0.0015
				250	0.2400	0.13		313	0.583	0.0017
				300	0.2801	0.17		314	0.792	0.0020
				305	0.8399	0.24		315	1.055	0.0024
				308	2.6001	0.37		320	1.135	0.0047
				310	4.5003	0.52		325	1.200	0.0070
				312	6.2997	0.73		327	1.183	0.0081
				314	5.9999	0.93		328	1.314	0.0085
				316	2.1002	1.00		329	1.504	0.0091
				320	0.3001	1.02		330	1.853	0.0099
				335	0.0	1.02		331	2.259	0.0107
				340	0.3600	1.05		333	2.729	0.0126
				400	0.0	1.05		335	3.212	0.0152
				405	0.7200	1.11		337	3.723	0.0179
				410	2.0400	1.28		339	4.282	0.0214
				412	3.3000	1.39		340	4.869	0.0232
				420	0.0750	1.40		341	5.216	0.0251
				425	0.3600	1.43		342	5.799	0.0278
				430	0.3600	1.46		343	6.310	0.0301
				440	0.1800	1.49		344	6.886	0.0327
				445	0.2401	1.51		345	7.605	0.0362
				450	0.6000	1.56		346	8.116	0.0392
				455	0.7200	1.62		348	8.905	0.0458
				500	0.6000	1.67		350	9.446	0.0538
				505	0.9600	1.75		352	9.803	0.0613

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

1974

SELECTED RUNOFF EVENT

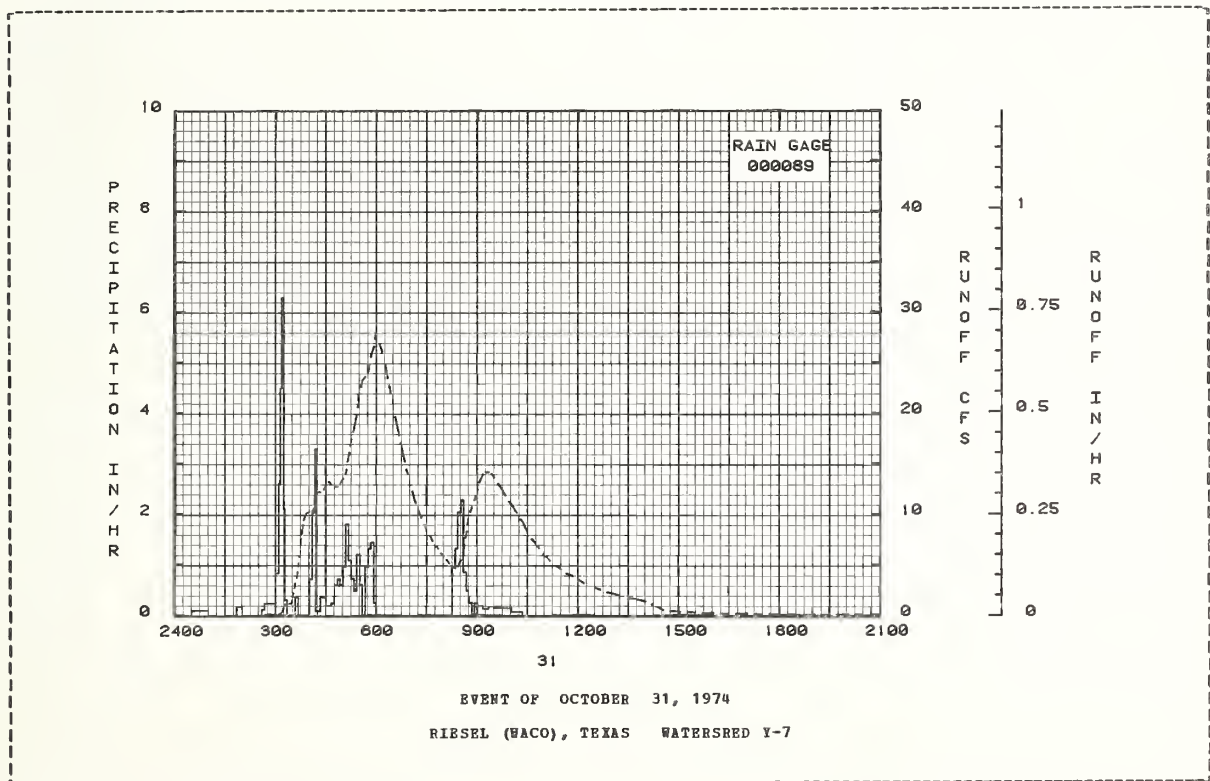
RIESEL (WACO), TEXAS WATERSHED Y-7

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 31, 1974 (CONTINUED)										
10-31	510			510	1.7999	1.90	10-31	355	10.110	0.0738
	515			515	1.0800	1.99		400	10.307	0.0956
	520			520	0.7202	2.05		405	10.420	0.1167
	525			525	0.4799	2.09		408	10.590	0.1299
	530			530	1.2001	2.19		410	11.166	0.1383
	535			535	0.5999	2.24		412	11.842	0.1483
	540			540	0.0	2.24		415	12.230	0.1635
	545			545	0.9600	2.32		420	12.230	0.1884
	550			550	1.3200	2.43		425	12.471	0.2135
	555			555	1.4401	2.55		430	12.867	0.2405
	600			600	0.2399	2.57		435	13.236	0.2670
	815			815	0.0	2.57		440	12.867	0.2936
	820			820	0.9600	2.65		445	12.714	0.3208
	825			825	1.3200	2.76		450	12.714	0.3467
	830			830	2.0400	2.93		455	13.051	0.3729
	835			835	2.2800	3.12		500	13.577	0.4012
	840			840	0.8401	3.19		505	14.049	0.4293
	845			845	0.4799	3.23		507	14.494	0.4404
	850			850	0.2401	3.25		509	15.464	0.4534
	855			855	0.0	3.25		511	16.124	0.4657
	900			900	0.2401	3.27		513	16.827	0.4800
	910			910	0.1800	3.30		515	17.473	0.4950
	920			920	0.1199	3.32		520	18.651	0.5317
	930			930	0.1800	3.35		525	19.893	0.5709
	1000			1000	0.1400	3.42		530	21.903	0.6154
	1020			1020	0.0600	3.44		535	23.294	0.6614
								540	23.637	0.7091
								545	24.136	0.7600
								550	25.774	0.8108
								555	26.647	0.8641
								558	27.734	0.8983
								600	27.491	0.9224
								605	26.807	0.9776
								610	26.051	1.0314
								615	24.833	1.0856
								620	23.446	1.1347
								625	21.865	1.1807
								630	20.362	1.2257
								635	19.180	1.2659
								640	17.782	1.3035
								645	16.525	1.3401
								650	15.171	1.3723
								655	14.112	1.4021
								700	12.989	1.4309
								705	12.020	1.4564
								710	11.050	1.4798
								715	10.363	1.5026
								720	9.610	1.5230
								725	8.985	1.5419
								730	8.324	1.5603
								735	7.833	1.5767
								740	7.304	1.5921
								745	6.886	1.6072
								750	6.548	1.6209
								755	6.123	1.6338
								800	5.754	1.6464
								805	5.460	1.6578
								810	5.107	1.6686
								815	4.847	1.6792
								820	4.614	1.6888
								825	4.426	1.6984
								830	5.438	1.7093
								835	6.216	1.7212
								837	6.983	1.7263
								839	7.731	1.7327
								841	8.324	1.7389
								843	9.012	1.7465
								845	9.665	1.7546
								847	10.279	1.7624
								850	10.762	1.7756
								855	11.429	1.7982
								900	12.471	1.8236
								905	13.391	1.8499
								910	13.954	1.8777
								915	14.175	1.9077

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSRED Y-7				
ANTECEDENT CONDITIONS			RAINFALL			ROBOPF				
Date	Rainfall	Runoff	Date	Time	Intensity	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 31, 1974 (CONTINUED)										
							10-31	920	14.175	1.9365
								925	13.954	1.9651
								930	13.609	1.9945
								940	12.775	2.0482
								950	11.842	2.0994
								1000	10.963	2.1469
								1010	10.110	2.1898
								1020	9.255	2.2301
								1030	8.142	2.2663
								1040	7.329	2.2978
								1050	6.596	2.3268
								1100	5.914	2.3528
								1110	5.371	2.3758
								1120	4.912	2.3972
								1130	4.509	2.4168
								1140	4.079	2.4343
								1150	3.860	2.4508
								1200	3.474	2.4661
								1210	3.139	2.4795
								1220	2.904	2.4921
								1240	2.490	2.5143
								1300	2.131	2.5335
								1320	1.808	2.5498
								1340	1.561	2.5636
								1400	1.354	2.5758
								1432	0.473	2.5878
								1502	0.303	2.5926
								1602	0.163	2.5984
								1702	0.109	2.6018
								1802	0.070	2.6040
								1902	0.044	2.6054
								2002	0.026	2.6063
								2202	0.009	2.6071
								2400	0.003	2.6074

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



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: 20.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	2.08	1.04	1.57	3.68	2.11	0.48	1.08	6.93	8.58	6.91	4.30	1.60	40.36
	Q	0.018	0.008	0.0	0.709	0.074	0.0	0.0	0.034	2.345	2.256	1.087	0.127	6.658
STA AV	P	2.00	2.58	2.34	3.98	3.68	3.70	1.88	2.38	3.03	3.43	2.96	2.38	34.36
	Q	0.346	0.365	0.486	0.752	0.723	0.672	0.159	0.066	0.195	0.316	0.415	0.402	4.898

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								
1974	4-13	1.295	9-17	0.863	9-17	1.066	10-31	1.728	10-31	1.986	10-30	2.223	10-30	2.272	9-10	2.344

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

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

1974	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0
3	0.01E	0.0	0.0	0.0	0.02E	0.0	0.0	0.08E	0.65	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	0.21	0.0	0.0
5	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.0	0.0
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.03	0.0	0.0
9	0.01E	0.0	0.03E	0.0	0.0	0.28	0.0	0.0	0.40	0.0	0.0	0.06	0.0	0.0
10	0.19	0.0	0.26	0.0	0.15	0.0	0.0	0.0	1.00	0.0	0.44	0.70	0.0	0.0
11	0.0	0.0	0.08E	1.05	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.19	0.0	0.0	0.20	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0
13	0.04E	0.0	0.0	1.87	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0
14	0.0	0.05E	0.30	0.0	0.0	0.0	0.18	0.0	0.60	0.86	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	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	0.05E	0.0	0.78	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	3.11	0.0	0.0	0.0	0.0	0.0
18	0.46	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
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
20	0.0	0.0	0.44	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.42	0.0	0.0	0.0	1.46	0.0	0.0	0.0	0.0	0.0	0.0
23	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.19	0.0	0.0	0.0
24	0.27	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.09	0.14	0.23	0.27	0.0	0.0
25	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.20	0.0	0.0	0.0	0.0	0.0
26	0.29	0.0	0.0	0.0	0.0	0.0	0.19	2.09	0.05E	0.0	0.0	0.0	0.12E	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.07E	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.83	0.0	0.0	0.04E	0.0
29	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.74	0.0	0.0	0.34	0.0	0.04E	0.0
30	0.0	0.0	0.0	0.22	0.0	0.0	0.0	1.08	0.0	1.62	0.0	0.09E	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	3.46	0.0	0.12E	0.0	0.0
TOTAL	2.08	1.04	1.57	3.68	2.11	0.48	1.08	6.93	8.58	6.91	4.30	1.60	40.36	
STA AV	2.00	2.58	2.34	3.98	3.68	3.70	1.88	2.38	3.03	3.43	2.96	2.38	34.36	

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

1974 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	0.064	0.0	0.0	0.0	0.0	0.0	0.019	0.001
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.003	0.0
5	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.002
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061	0.001
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.152	0.034
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.015
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005
13	0.0	0.0	0.0	0.555	0.0	0.0	0.0	0.0	0.044	0.0	0.0	0.002
14	0.0	0.0	0.0	0.065	0.0	0.0	0.0	0.0	0.093	0.0	0.0	0.002
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
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	1.853	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.058	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	0.007	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	0.443	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.205	0.003
25	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.001
26	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.004
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.003
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.0	0.191	0.001	0.010
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.780	0.0	0.016
MEAN	0.0005	0.0002	0.0	0.0206	0.0021	0.0	0.0	0.0010	0.0683	0.0636	0.0317	0.0036
INCRS	0.018	0.008	0.0	0.709	0.074	0.0	0.0	0.034	2.345	2.256	1.087	0.127
STA AV	0.346	0.365	0.486	0.752	0.723	0.672	0.159	0.066	0.195	0.316	0.415	0.402

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.144310. 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 29 yr period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-8												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Bainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 31, 1974												
RG 00075A			RG 00075A									
10-31	0.0	0.012	10-31	35	0.0	0.0	10-31	200	0.111	0.0		
				50	0.1600	0.04		230	0.123	0.0028		
				200	0.0	0.04		302	0.179	0.0066		
				205	0.3602	0.07		309	0.211	0.0077		
				240	0.0	0.07		310	0.440	0.0079		
WATERSHED CONDITIONS: 95% cotton; 3% pasture, Bernadagrass, good cover, moderately grazed, dormant; 2% gravel roads. Crop- land terraced, cultivated on contour.				250	0.1199	0.09		313	0.581	0.0092		
				300	0.3600	0.15		315	0.757	0.0103		
				305	0.3600	0.18		316	0.962	0.0109		
				310	0.8401	0.25		317	2.037	0.0120		
				312	5.0999	0.42		318	7.354	0.0155		
				314	5.0999	0.59		319	9.555	0.0234		
				316	7.8003	0.85		320	10.647	0.0309		
				318	4.2000	0.99		321	11.575	0.0392		
				320	2.4001	1.07		322	12.200	0.0481		
				335	0.0	1.07		323	12.623	0.0596		
				340	0.2399	1.09		324	13.020	0.0692		
				350	0.1800	1.12		326	13.671	0.0891		
				404	0.0	1.12		328	13.112	0.1115		
				410	0.8000	1.20		330	12.592	0.1330		
				414	0.7500	1.25		332	11.812	0.1512		
	420	0.3999	1.29		335	10.222	0.1779					
	425	0.1201	1.30		340	9.066	0.2156					
	430	0.2401	1.32		345	7.504	0.2496					
	435	0.3600	1.35		348	6.524	0.2652					
	440	0.2399	1.37		351	5.618	0.2799					
	445	0.1201	1.38		354	4.912	0.2927					
	450	0.3600	1.41		357	4.302	0.3038					
	455	0.6000	1.46		400	3.704	0.3135					
	500	0.9598	1.54		405	3.267	0.3272					
	505	1.0801	1.63		408	3.493	0.3354					

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-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 OCTOBER 31, 1974 (CONTINUED)										
10-31				510	0.8399	1.70	10-31	411	4.119	0.3439
				515	2.1601	1.88		413	4.783	0.3513
				520	0.7200	1.94		415	5.686	0.3601
				525	0.8399	2.01		417	6.596	0.3692
				530	0.4801	2.05		420	7.279	0.3860
				535	1.1999	2.15		423	7.630	0.4041
				540	0.3600	2.18		426	7.605	0.4211
				544	0.0	2.18		430	7.379	0.4462
				550	0.8000	2.26		435	6.861	0.4741
				555	1.2001	2.36		440	6.146	0.4995
				600	1.3200	2.47		445	5.371	0.5231
				610	0.1200	2.49		450	4.741	0.5429
				820	0.0	2.49		455	4.955	0.5618
				825	1.5599	2.62		500	5.663	0.5836
				830	1.9200	2.78		503	6.524	0.5972
				835	2.2800	2.97		505	6.934	0.6085
				840	2.1599	3.15		507	7.630	0.6193
				850	0.6000	3.25		509	8.507	0.6329
				900	0.1800	3.28		511	9.720	0.6464
				910	0.1800	3.31		513	11.050	0.6639
				920	0.1200	3.33		515	12.230	0.6834
				930	0.3000	3.38		517	13.174	0.7023
				1000	0.1000	3.43		520	13.859	0.7350
				1010	0.1801	3.46		523	14.017	0.7688
								526	13.484	0.7995
								529	13.422	0.8321
								532	13.051	0.8641
								535	12.867	0.8955
								540	11.079	0.9423
								545	9.998	0.9855
								550	9.859	1.0243
								555	10.705	1.0645
								558	11.137	1.0910
								601	10.877	1.1176
								604	10.222	1.1432
								607	9.418	1.1651
								610	8.324	1.1866
								613	7.304	1.2055
								616	6.405	1.2221
								619	5.460	1.2365
								622	4.804	1.2480
								625	3.880	1.2585
								628	3.286	1.2671
								631	2.958	1.2747
								635	2.660	1.2836
								640	2.423	1.2935
								645	2.147	1.3029
								650	1.944	1.3109
								655	1.778	1.3182
								700	1.603	1.3251
								705	1.327	1.3308
								710	1.120	1.3356
								720	0.926	1.3438
								730	1.009	1.3516
								740	1.095	1.3598
								750	0.938	1.3679
								800	0.768	1.3748
								810	0.714	1.3805
								820	0.662	1.3861
								825	0.757	1.3888
								829	1.070	1.3917
								830	2.021	1.3932
								831	3.157	1.3951
								832	4.783	1.3980
								833	5.731	1.4020
								834	7.057	1.4079
								835	7.910	1.4135
								836	8.798	1.4197
								837	9.942	1.4267
								838	11.108	1.4365
								839	11.901	1.4451
								840	12.928	1.4543
								841	13.422	1.4641
								842	13.765	1.4768
								844	14.430	1.4978

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

1974

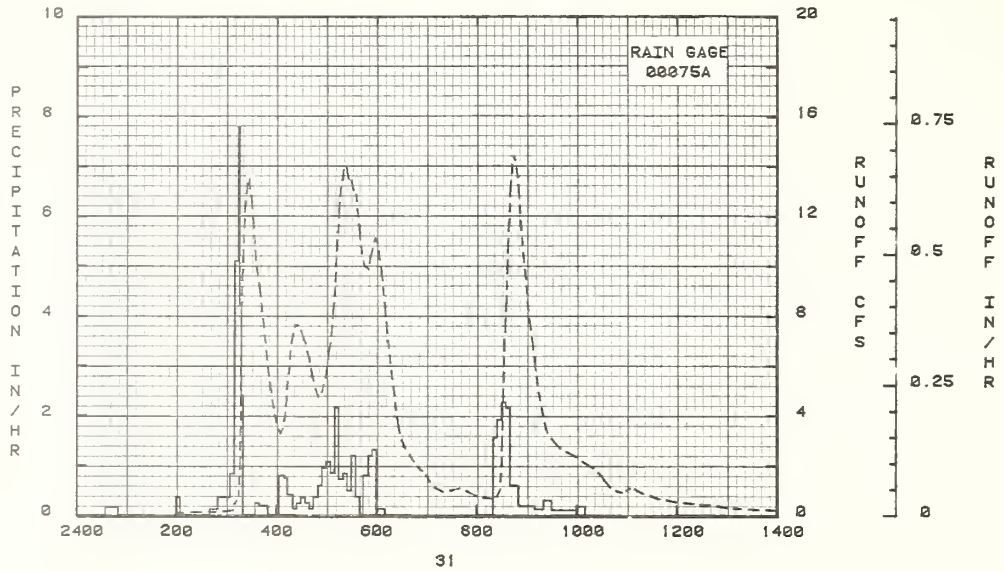
SELECTED RUNOFF EVENT

RIESEL (WACO), TEXAS

WATERSHED Y-8

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 31, 1974 (CONTINUED)										
							10-31	846	14.239	1.5218
								848	13.859	1.5428
								850	13.020	1.5653
								853	11.723	1.5952
								856	10.448	1.6200
								859	9.473	1.6441
								902	8.193	1.6655
								905	7.429	1.6844
								908	6.644	1.7015
								911	5.822	1.7154
								915	4.912	1.7334
								920	3.979	1.7508
								925	3.304	1.7650
								930	3.084	1.7781
								940	2.677	1.8006
								950	2.490	1.8213
								1000	2.341	1.8407
								1010	2.068	1.8579
								1020	1.898	1.8738
								1030	1.575	1.8877
								1040	1.133	1.8983
								1050	0.938	1.9066
								1055	0.903	1.9102
								1100	1.022	1.9141
								1105	1.095	1.9183
								1110	1.058	1.9225
								1120	0.869	1.9302
								1130	0.768	1.9367
								1140	0.662	1.9423
								1200	0.533	1.9519
								1220	0.458	1.9598
								1240	0.397	1.9665
								1300	0.314	1.9722
								1330	0.239	1.9788
								1400	0.201	1.9840
								1500	0.150	1.9924
								1600	0.118	1.9988
								1800	0.092	2.0088
								2100	0.050	2.0190
								2400	0.034	2.0250

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



EVENT OF OCTOBER 31, 1974
RIBSEL (WACO), TEXAS WATERSHED Y-8

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	
1974 P	2.09	0.95	1.62	3.82	2.11	0.51	1.02	6.71	8.61	6.84	4.34	1.66	40.28	
Q	0.013	0.005	0.0	0.435	0.000	0.0	0.0	0.0	4.026	3.386	1.550	0.006	9.420	
STA AV P	2.13	2.49	2.30	3.89	3.78	3.47	1.80	2.29	2.93	3.20	2.87	2.39	33.54	
Q	0.416	0.375	0.553	0.860	0.699	0.702	0.178	0.080	0.290	0.357	0.455	0.431	5.399	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.
	10-31	1.260	9-17	0.813	9-17	1.240	10-31	2.402	10-31	2.811	10-30	3.300	10-30	3.446	9-12	4.026

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

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

1974 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
3	0.04E	0.0	0.0	0.0	0.01E	0.0	0.0	0.06E	0.62	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	0.38	0.0		
5	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.14E		
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0		
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.03	0.0		
9	0.02E	0.0	0.01E	0.0	0.0	0.26	0.0	0.0	0.33	0.0	0.05	0.0		
10	0.17	0.0	0.08	0.0	0.16	0.0	0.0	0.0	0.98	0.0	0.44	0.72		
11	0.0	0.0	0.24E	0.98	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.22E	0.0	0.0	0.25	0.0	0.0	0.52	0.0	0.0	0.0		
13	0.05E	0.0	0.0	2.10	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0		
14	0.0	0.05E	0.31	0.0	0.0	0.0	0.17	0.0	0.62	0.76	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.96	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.10	0.0	0.0	0.0		
18	0.46	0.11E	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	0.48	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.39	0.0	0.0	0.0	1.19	0.0	0.0	0.0	0.0		
23	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.06	0.0		
24	0.28	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.08	0.14	0.25	0.33		
25	0.41	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0		
26	0.28	0.0	0.0	0.0	0.0	0.0	0.21E	2.20	0.02E	0.0	0.0	0.07E		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.09E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.88	0.0	0.05E		
29	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.75	0.0	0.0	0.32	0.05E		
30	0.0	0.0	0.0	0.22	0.0	0.0	0.0	1.10	0.0	1.73	0.0	0.08E		
31	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	3.33	0.0	0.13E		
TOTAL	2.09	0.95	1.62	3.82	2.11	0.51	1.02	6.71	8.61	6.84	4.34	1.66		
STA AV	2.13	2.49	2.30	3.89	3.78	3.47	1.80	2.29	2.93	3.20	2.87	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 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 32 yr period. Estimate codes may indicate that non-significant event totals are included.

1974		MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS WATERSHED Y-10					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.057	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	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	0.011	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	T 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	0.125	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.183	0.005
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	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	T 0.0
13	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.109	0.0	0.0	0.0
14	0.0	0.0	0.0	0.250	0.0	0.0	0.0	0.0	0.344	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.359	0.0	0.0	0.0
18	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.278	0.0	0.0	0.0
19	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
21	0.0	0.004	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	0.496	0.0
24	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.263	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	T 0.0
26	0.005	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	0.332	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.314	0.0	0.0
MEAN	0.0003	0.0001	0.0	0.0113	0.0	0.0	0.0	0.0	0.1049	0.0854	0.0404	0.0002
INCRS	0.013	0.005	0.0	0.435	0.000	0.0	0.0	0.0	4.026	3.386	1.550	0.006
STA AV	0.416	0.375	0.553	0.860	0.699	0.702	0.178	0.080	0.290	0.357	0.455	0.431

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 32 yr period.

1974		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 OCTOBER 31, 1974										
10-31	RG 00069B 0.0	0.060	10-31	RG 00069B 30	0.0	0.0	10-31	232	0.423	0.0
				40	0.1800	0.03		302	0.641	0.0141
				200	0.0	0.03		307	0.736	0.0171
				210	0.3600	0.09		310	0.823	0.0193
				240	0.0	0.09		312	1.070	0.0210
				245	0.2401	0.11		313	1.394	0.0221
				250	0.3600	0.14		314	1.704	0.0233
				255	0.4799	0.18		315	1.913	0.0252
				300	0.2401	0.20		316	2.507	0.0271
				305	0.3600	0.23		317	3.569	0.0296
				310	1.0800	0.32		318	5.041	0.0332
				315	4.8001	0.72		319	8.350	0.0402
				320	3.4799	1.01		320	12.562	0.0489
				325	0.2401	1.03		321	15.464	0.0605
				340	0.0	1.03		322	17.748	0.0744
				345	0.6000	1.08		323	19.500	0.0938
				400	0.0	1.08		324	20.907	0.1106
				405	0.3600	1.11		325	21.680	0.1283
				410	0.7200	1.17		326	22.201	0.1466
				415	1.0800	1.26		327	22.877	0.1701
				420	0.3600	1.29		328	23.180	0.1893
				425	0.0	1.29		329	23.637	0.2088
				430	0.3600	1.32		330	23.294	0.2332
				435	0.3602	1.35		331	22.990	0.2525
				440	0.0	1.35		332	22.201	0.2713
				445	0.2399	1.37		334	21.090	0.3119
				450	0.3600	1.40		336	19.322	0.3456
				500	0.9001	1.55		338	17.371	0.3799
				510	1.0800	1.73		340	16.157	0.4079
				515	1.6800	1.87		342	14.718	0.4368

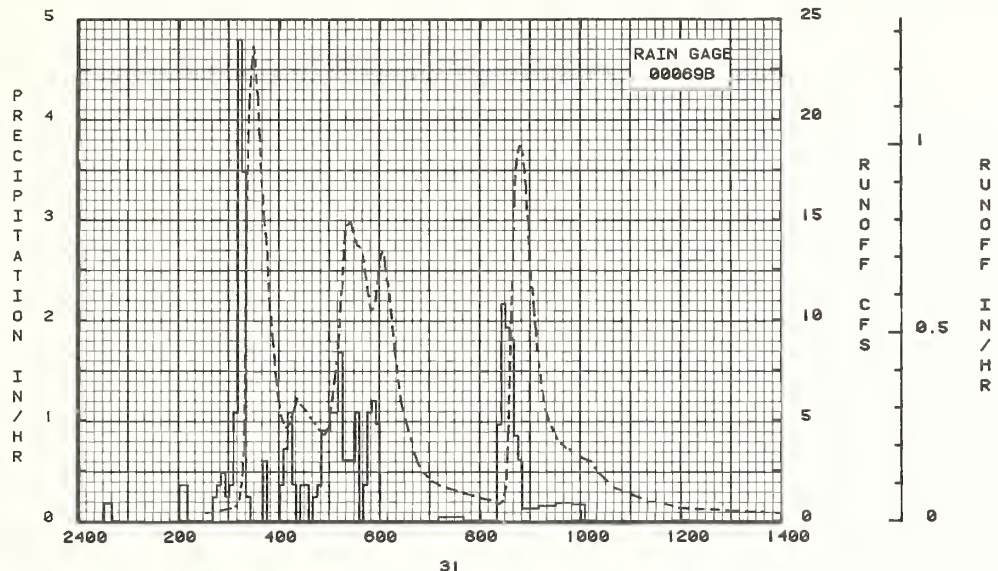
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.

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 OCTOBER 31, 1974 (CONTINUED)										
10-31				530	0.6000	2.02	10-31	344	14.144	0.4609
				535	1.0800	2.11		346	12.592	0.4859
				540	0.0	2.11		348	10.533	0.5052
				545	0.3600	2.14		350	10.110	0.5245
				550	1.0800	2.23		352	9.039	0.5405
				555	1.2001	2.33		354	8.116	0.5566
				600	0.9600	2.41		356	7.106	0.5692
				710	0.0	2.41		358	6.358	0.5819
				740	0.0400	2.43		400	5.640	0.5931
				820	0.0	2.43		402	5.216	0.6022
				825	0.9600	2.51		405	4.869	0.6158
				830	2.1601	2.69		408	4.656	0.6287
				835	1.9200	2.85		412	4.826	0.6455
				840	1.7999	3.00		417	5.483	0.6680
				845	0.8399	3.07		421	6.123	0.6886
				850	0.6000	3.12		427	5.686	0.7206
				910	0.1200	3.16		432	5.460	0.7449
				930	0.1500	3.21		437	5.150	0.7681
				950	0.1800	3.27		442	4.826	0.7910
				1005	0.1600	3.31		447	4.551	0.8115
								452	4.323	0.8309
								454	4.323	0.8390
								457	4.614	0.8511
								500	5.282	0.8645
								503	6.099	0.8787
								506	7.106	0.8966
								509	8.245	0.9174
								511	9.309	0.9320
								513	10.877	0.9509
								515	11.901	0.9723
								517	13.484	0.9934
								519	14.430	1.0196
								521	14.750	1.0439
								523	14.879	1.0717
								525	14.944	1.0965
								528	14.366	1.1362
								532	13.734	1.1859
								537	13.577	1.2457
								539	13.267	1.2708
								542	12.410	1.3056
								545	11.517	1.3380
								549	10.505	1.3770
								552	10.590	1.4033
								555	11.079	1.4326
								557	11.990	1.4543
								559	12.683	1.4748
								601	13.267	1.4991
								603	13.391	1.5214
								605	13.143	1.5462
								607	12.441	1.5675
								610	11.664	1.6002
								613	10.420	1.6301
								616	9.201	1.6566
								619	8.116	1.6801
								622	6.959	1.6989
								625	5.983	1.7164
								628	5.416	1.7319
								631	4.955	1.7459
								634	4.447	1.7586
								637	4.099	1.7693
								642	3.286	1.7862
								647	2.712	1.7993
								652	2.390	1.8105
								657	2.179	1.8210
								702	1.959	1.8300
								712	1.748	1.8466
								722	1.589	1.8612
								732	1.477	1.8749
								742	1.340	1.8876
								752	1.222	1.8988
								802	1.095	1.9091
								812	1.022	1.9186
								822	0.823	1.9267
								827	0.997	1.9309
								829	1.300	1.9328

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

1974 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 OCTOBER 31, 1974 (CONTINUED)										
							10-31	831	1.690	1.9356
								832	2.557	1.9373
								833	3.665	1.9399
								834	4.741	1.9443
								835	6.788	1.9491
								836	8.350	1.9554
								837	10.026	1.9631
								838	11.931	1.9745
								839	13.329	1.9850
								840	14.558	1.9966
								841	15.991	2.0094
								842	17.200	2.0266
								843	17.714	2.0412
								844	18.059	2.0561
								845	18.372	2.0751
								847	18.686	2.1059
								849	18.686	2.1410
								851	18.198	2.1717
								853	17.337	2.2050
								855	16.290	2.2330
								857	14.879	2.2622
								859	13.267	2.2857
								901	11.990	2.3093
								903	11.224	2.3287
								905	10.194	2.3488
								907	9.174	2.3649
								910	7.987	2.3881
								913	6.837	2.4082
								916	5.937	2.4255
								919	5.393	2.4408
								922	5.020	2.4538
								927	4.488	2.4756
								932	4.039	2.4943
								937	3.840	2.5115
								942	3.607	2.5286
								947	3.531	2.5442
								952	3.417	2.5594
								1002	3.102	2.5885
								1012	2.922	2.6155
								1022	2.341	2.6385
								1032	1.929	2.6577
								1042	1.603	2.6735
								1052	1.435	2.6868
								1102	1.274	2.6989
								1112	1.095	2.7095
								1122	0.962	2.7185
								1132	0.903	2.7268
								1200	0.613	2.7458
								1300	0.478	2.7749
								1400	0.364	2.7973
								1600	0.262	2.8307
								1800	0.191	2.8549
								2100	0.141	2.8814
								2400	0.111	2.9016

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



31
 EVENT OF OCTOBER 31, 1974
 RIESEL (WACO), TEXAS WATERSHED T-10

RIESEL (WACO), TEXAS SW-11

LOCATION: Falls County, Texas; 19 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 02 sec. N.; Long. 96 deg. 53 min. 04 sec. W.

AREA: 2.66 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS SW-11	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	2.07	1.05	1.61	3.52	2.23	0.45	1.14	7.03	8.52	6.62	4.61	1.61	40.46
	Q	0.296	0.0	0.0	0.837	0.095	0.0	0.0	0.0	3.114	3.798	1.614	0.003	9.756
STA AV	P	1.92	2.37	2.36	3.55	3.32	3.68	2.42	2.54	3.35	4.27	3.13	2.77	35.67
	Q	0.363	0.296	0.543	0.353	0.155	0.869	0.063	0.005	0.488	0.771	0.899	0.618	5.421

ANNUAL MAXIMUM DISCHARGE (cu/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.	
1974	9-17	2.273	9-17	1.496	9-17	1.872	10-31	3.069	10-31	3.492	10-30	3.779	10-30	3.809	10-30	3.854
MAXIMUMS FOR PERIOD OF RECORD																
	10-31	6.670	6-3	2.407	6-3	2.791	10-31	3.069	10-31	3.492	10-30	3.779	11-22	5.900	11-21	6.220
	1940		1973		1973		1974		1974		1974		1940		1940	

NOTES: Watershed conditions: 100% winter growing Harding grass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.023-5. Precipitation and runoff records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in station averages. Precipitation data from rain gage 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS SW-11	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.36	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	0.01E	0.0		
3	0.02E	0.0	0.0	0.0	0.02E	0.0	0.0	0.05E	0.64	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	0.29	0.0		
5	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.17E		
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.0		
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.04	0.0		
9	0.01E	0.0	0.06E	0.0	0.0	0.23	0.0	0.0	0.39	0.0	0.07	0.0		
10	0.21	0.0	0.24	0.0	0.16	0.0	0.0	0.0	0.99	0.0	0.44	0.71		
11	0.0	0.0	0.03E	1.04	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.25	0.0	0.0	0.22	0.0	0.0	0.54	0.0	0.0	0.0		
13	0.05E	0.0	0.0	1.70	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0		
14	0.0	0.05E	0.31	0.0	0.0	0.0	0.15	0.0	0.49	0.85	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.82	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.19	0.0	0.0	0.0		
18	0.41	0.16	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	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.42	0.0	0.0	0.0	1.66	0.0	0.0	0.0	0.0		
23	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.37	0.0		
24	0.34	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.09	0.15	0.28	0.29		
25	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.13	0.0	0.0	0.0		
26	0.28	0.0	0.0	0.0	0.0	0.0	0.19	2.11	0.04E	0.0	0.0	0.10E		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.07E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.67	0.0	0.04E		
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.70	0.0	0.0	0.33	0.04E		
30	0.0	0.0	0.0	0.24	0.0	0.0	0.0	1.01	0.0	1.51	0.0	0.08E		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	3.44	0.0	0.11E		
TOTAL	2.07	1.05	1.61	3.52	2.23	0.45	1.14	7.03	8.52	6.62	4.61	1.61		
STA AV	1.92	2.37	2.36	3.55	3.32	3.68	2.42	2.54	3.35	4.27	3.13	2.77		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 89. Records began March 1938; discontinued July 1943; reestablished July 1, 1969. Part-year amounts are included in averages. STA AV based on 12 yr record period. Estimate codes may indicate that non-significant event totals are included.

1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS SW-11												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.002	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.004	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.044	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.050	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	0.001	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.338	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.118	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	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	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.030	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.394	0.0	0.0
MEAN	0.0011	0.0	0.0	0.0031	0.0003	0.0	0.0	0.0	0.0116	0.0137	0.0060	0.0
INCHES	0.296	0.0	0.0	0.837	0.095	0.0	0.0	0.0	3.114	3.798	1.614	0.003
STA AV	0.363	0.296	0.543	0.353	0.155	0.869	0.063	0.005	0.488	0.771	0.899	0.618

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 8.947990. Records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in averages. STA AV based on 12 yr record period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS SW-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 OCTOBER 31, 1974												
10-31	RG 000089		10-31	BG 000089			10-31					
	0.0	0.011		30	0.0	0.0		205	0.025	0.0		
				100	0.1000	0.05		210	0.025	0.0007		
				150	0.0	0.05		230	0.025	0.0039		
				200	0.1800	0.08		240	0.028	0.0055		
				235	0.0	0.08		250	0.035	0.0075		
WATERSHED CONDITIONS:												
100% winter growing Harding												
grass, sparse cover.												
				240	0.1199	0.09		255	0.045	0.0087		
				250	0.2400	0.13		300	0.054	0.0103		
				300	0.2401	0.17		302	0.064	0.0110		
				305	0.8399	0.24		305	0.084	0.0124		
				308	2.6001	0.37		306	0.097	0.0129		
				310	4.5003	0.52		307	0.122	0.0135		
				312	6.2997	0.73		308	0.180	0.0146		
				314	5.9999	0.93		309	0.276	0.0159		
				316	2.1002	1.00		310	0.442	0.0180		
				320	0.3001	1.02		311	0.717	0.0214		
				335	0.0	1.02		312	1.119	0.0281		
				340	0.3600	1.05		313	1.599	0.0360		
				400	0.0	1.05		314	1.806	0.0459		
				405	0.7200	1.11		315	2.202	0.0605		
				410	2.0400	1.28		316	2.547	0.0744		
				412	3.3000	1.39		318	3.052	0.1070		
				420	0.0750	1.40		320	3.511	0.1500		
				425	0.3600	1.43		322	3.753	0.1923		
				430	0.3600	1.46		323	3.778	0.2197		
				440	0.1800	1.49		325	3.655	0.2630		
				445	0.2401	1.51		329	3.340	0.3496		
				450	0.6000	1.56		332	2.959	0.4092		
				455	0.7200	1.62		335	2.661	0.4624		
				500	0.6000	1.67		338	2.307	0.5095		
				505	0.9600	1.75		341	2.070	0.5477		

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

1974

SELECTED RUNOFF EVENT

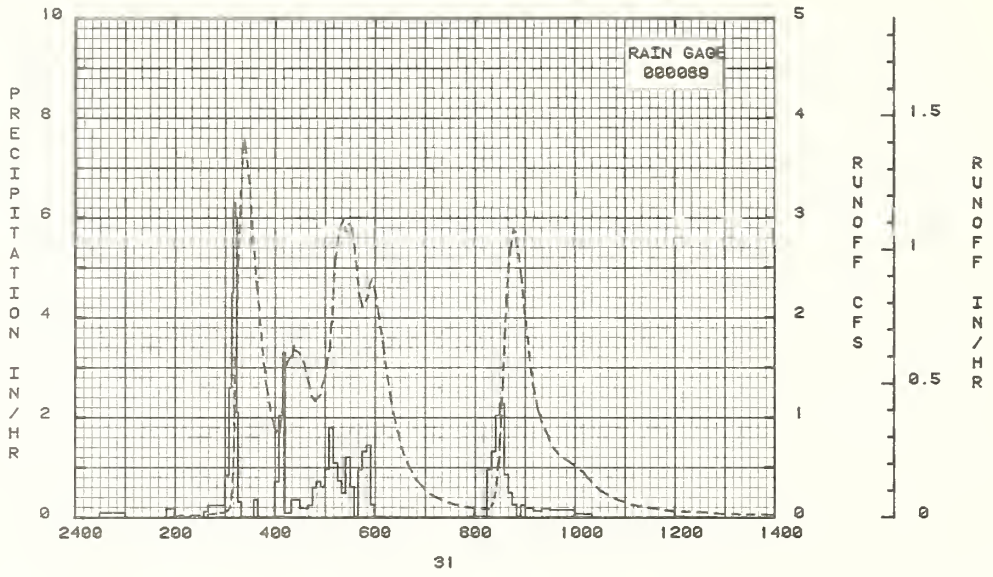
RIESEL (WACO), TEXAS SW-11

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 OCTOBER 31, 1974 (CONTINUED)										
			10-31	510	1.7999	1.90	10-31	344	1.775	0.5841
				515	1.0800	1.99		347	1.516	0.6153
				520	0.7202	2.05		350	1.300	0.6419
				525	0.4799	2.09		355	1.061	0.6780
				530	1.2001	2.19		400	0.886	0.7092
				535	0.5999	2.24		401	0.842	0.7142
				540	0.0	2.24		402	0.865	0.7192
				545	0.9600	2.32		406	0.845	0.7404
				550	1.3200	2.43		408	0.984	0.7524
				555	1.4401	2.55		410	1.136	0.7647
				600	0.2399	2.57		412	1.447	0.7817
				815	0.0	2.57		415	1.557	0.8101
				820	0.9600	2.65		420	1.624	0.8587
				825	1.3200	2.76		421	1.599	0.8681
				830	2.0400	2.93		423	1.723	0.8899
				835	2.2800	3.12		425	1.666	0.9096
				840	0.8401	3.19		430	1.632	0.9625
				845	0.4799	3.23		435	1.536	1.0109
				850	0.2401	3.25		440	1.357	1.0551
				855	0.0	3.25		445	1.190	1.0960
				900	0.2401	3.27		448	1.161	1.1165
				910	0.1800	3.30		450	1.190	1.1319
				920	0.1199	3.32		455	1.230	1.1689
				930	0.1800	3.35		457	1.338	1.1857
				1000	0.1400	3.42		500	1.412	1.2118
			1020	0.0600	3.44		503	1.594	1.2380	
							506	1.705	1.2693	
							508	1.957	1.2933	
							510	2.287	1.3180	
							512	2.579	1.3499	
							515	2.738	1.4002	
							519	2.930	1.4704	
							522	2.976	1.5220	
							525	2.861	1.5772	
							526	2.861	1.5939	
							528	2.936	1.6319	
							530	2.913	1.6702	
							532	2.890	1.7040	
							535	2.710	1.7570	
							538	2.473	1.8061	
							541	2.207	1.8470	
							545	2.099	1.9034	
							550	2.187	1.9690	
							552	2.222	1.9947	
							554	2.338	2.0246	
							556	2.384	2.0521	
							600	2.257	2.1129	
							605	1.985	2.1778	
							610	1.709	2.2342	
							615	1.396	2.2840	
							620	1.133	2.3227	
							625	0.942	2.3544	
							630	0.772	2.3819	
							635	0.617	2.4031	
							640	0.519	2.4205	
							645	0.446	2.4359	
							650	0.368	2.4484	
							700	0.284	2.4688	
							710	0.215	2.4840	
							720	0.174	2.4962	
							730	0.143	2.5062	
							740	0.119	2.5142	
							750	0.103	2.5211	
							800	0.091	2.5272	
							815	0.080	2.5352	
							817	0.083	2.5361	
							820	0.118	2.5380	
							822	0.144	2.5395	
							824	0.204	2.5418	
							825	0.255	2.5432	
							826	0.318	2.5448	
							827	0.399	2.5474	
							828	0.523	2.5501	
							829	0.601	2.5534	
							830	0.724	2.5582	

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS SW-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 OCTOBER 31, 1974 (CONTINUED)										
							10-31	831	0.842	2.5628
								832	1.020	2.5682
								833	1.197	2.5747
								834	1.400	2.5841
								835	1.636	2.5930
								836	1.806	2.6030
								837	2.042	2.6142
								838	2.232	2.6297
								840	2.468	2.6571
								842	2.661	2.6907
								844	2.771	2.7224
								846	2.878	2.7594
								848	2.850	2.7928
								850	2.777	2.8296
								855	2.421	2.9091
								900	2.032	2.9805
								905	1.636	3.0366
								910	1.308	3.0816
								915	1.091	3.1200
								920	0.955	3.1513
								925	0.856	3.1790
								930	0.764	3.2049
								935	0.684	3.2271
								940	0.625	3.2471
								950	0.566	3.2844
								1000	0.514	3.3182
								1010	0.446	3.3476
								1020	0.348	3.3724
								1030	0.274	3.3919
								1040	0.217	3.4069
								1050	0.178	3.4193
								1100	0.147	3.4295
								1110	0.123	3.4377
								1120	0.105	3.4449
								1140	0.077	3.4561
								1200	0.060	3.4647
								1230	0.045	3.4745
								1300	0.032	3.4817
								1400	0.021	3.4916
								1500	0.013	3.4979
								1600	0.009	3.5020
								1700	0.006	3.5048
								1800	0.005	3.5068
								2400	0.003	3.5158

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



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				
1974	P	2.17	0.99	1.62	3.95	2.00	0.51	1.01	6.49	8.44	7.20	4.23	1.64	40.25				
	Q	0.475	0.096	0.0	0.906	0.009	0.0	0.0	0.0	3.074	3.666	2.32H	0.572	11.126				
STA AV	P	2.12	2.57	2.26	3.91	3.73	3.54	1.81	2.25	2.91	3.20	2.86	2.35	33.52				
	Q	0.474	0.574	0.643	0.701	0.536	0.486	0.081	0.016	0.128	0.151	0.271	0.396	4.45H				

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	10-31	2.912	9-17	1.316	9-17	1.654	10-31	2.989	10-31	3.333	10-30	3.642	10-30	3.675	10-30	3.982

MAXIMUMS FOR PERIOD OF RECORD																
Year	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973	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	4-19	8.530
			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.

1974 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS		WATERSHED SW-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.01E	0.0	0.0	0.0	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.02E	0.0	0.0	0.0	0.01E	0.0	0.0	0.07E	0.62	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	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.78					
8	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.02E	0.0					
9	0.02E	0.0	0.04E	0.0	0.0	0.27	0.0	0.0	0.33	0.0	0.08	0.0					
10	0.20	0.0	0.27	0.0	0.14	0.0	0.0	0.0	1.00	0.0	0.42	0.70					
11	0.0	0.0	0.12E	1.00	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0					
12	0.0	0.0	0.12E	0.0	0.0	0.24	0.0	0.0	0.51	0.0	0.0	0.0					
13	0.05E	0.0	0.0	2.20	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0					
14	0.0	0.04E	0.29	0.0	0.0	0.0	0.20	0.0	0.53	0.81	0.0	0.0					
15	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	1.0H	0.0	0.0	0.0					
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.80	0.0	0.0	0.0					
18	0.53	0.11E	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	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0					
22	0.0	0.0	0.0	9.45	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0					
23	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.0					
24	0.26	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0H	0.14E	0.23	0.29					
25	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0					
26	0.29	0.0	0.0	0.0	0.0	0.0	0.15E	2.24	0.01E	0.0	0.0	0.0					
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	1.01	0.0	0.06E					
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.77	0.0	0.0	0.33	0.06E					
30	0.0	0.0	0.0	0.18	0.0	0.0	0.0	1.1H	0.0	1.76	0.0	0.05E					
31	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	3.4H	0.0	0.12E					
TOTAL		2.17	0.99	1.62	3.95	2.00	0.51	1.01	6.49	8.44	7.20	4.23	1.64				
STA AV		2.12	2.57	2.26	3.91	3.73	3.54	1.81	2.25	2.91	3.20	2.86	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 based on 32 yr period. Estimate codes may indicate that non-significant event totals are included.

1974		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	0.001	0.0	0.0	0.0	0.0	0.0	0.002	0.003		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0 T		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034	0.041		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.004		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.002		
13	0.0	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001		
14	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.367	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0		
20	0.0	0.011	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	0.0	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	0.151	0.0		
24	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040	0.002		
25	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.001		
26	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001		
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	0.004	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.002	0.003		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.410	0.0	0.0	0.007		
MEAN	0.0019	0.0004	0.0	0.0037	0.0	0.0	0.0	0.0	0.0125	0.0144	0.0095	0.0022		
INCHES	0.475	0.096	0.0	0.906	0.009	0.0	0.0	0.0	3.074	3.666	2.328	0.572		
STA AV	0.474	0.574	0.643	0.701	0.536	0.486	0.081	0.016	0.128	0.151	0.271	0.396		

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 8.014025. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 32 yr period.

1974		SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS						WATERSHED SW-12	
ANTECEDENT CONDITIONS			HAINFALL			RUNOFF			Acc.					
Date	Hainfall	Runoff	Date	Time	Intensity	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 31, 1974														
10-31	0.0	0.005	10-31	30	0.0	0.0	10-31	202	0.006	0.0				
				40	0.1200	0.02		207	0.013	0.0003				
				150	0.0	0.02		212	0.016	0.0007				
				200	0.3600	0.08		222	0.020	0.0017				
				240	0.0	0.08		242	0.021	0.0040				
				245	0.3600	0.11		249	0.026	0.0049				
				250	0.6000	0.16		252	0.041	0.0054				
				255	0.6000	0.21		255	0.061	0.0063				
				300	0.2401	0.23		258	0.082	0.0075				
				305	0.9600	0.31		302	0.111	0.0096				
				310	5.1599	0.74		304	0.129	0.0110				
				315	4.0800	1.08		306	0.178	0.0126				
				320	0.7200	1.14		308	0.243	0.0151				
				330	0.0	1.14		309	0.327	0.0166				
				335	0.2401	1.16		310	0.530	0.0188				
				340	0.3600	1.19		311	0.856	0.0224				
				400	0.0	1.19		312	1.447	0.0299				
				410	1.2600	1.40		313	1.705	0.0382				
				420	0.1800	1.43		314	1.976	0.0478				
				430	0.3600	1.49		315	2.468	0.0623				
				440	0.0	1.49		316	3.980	0.0791				
				450	0.6000	1.59		317	5.824	0.1047				
				500	1.0800	1.77		318	6.621	0.1371				
				510	1.2600	1.98		319	7.633	0.1836				
				520	0.5999	2.08		320	8.113	0.2247				
				525	0.8401	2.15		322	8.516	0.3114				
				530	0.9600	2.23		324	8.421	0.4109				
				535	0.1199	2.24		326	7.557	0.4992				
				540	0.4799	2.28		327	6.857	0.5412				
				545	0.9600	2.36		328	6.031	0.5748				

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

1974 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS			WATERSHED SR-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 OCTOBER 31, 1974 (CONTINUED)										
10-31			550		1.2001	2.46	10-31	329	5.340	0.6045
			555		0.7200	2.52		330	4.853	0.6377
			600		0.1199	2.53		331	4.215	0.6614
			700		0.0	2.53		332	3.672	0.6820
			720		0.1200	2.57		333	3.058	0.6995
			815		0.0	2.57		334	2.771	0.7185
			820		0.9600	2.65		335	2.590	0.7325
			825		2.1599	2.83		337	2.359	0.7583
			830		2.1601	3.01		339	1.976	0.7838
			835		2.0400	3.18		341	1.662	0.8028
			840		0.4799	3.22		343	1.388	0.8207
			900		0.2700	3.31		345	1.197	0.8358
			920		0.2100	3.38		347	1.057	0.8476
			940		0.1200	3.42		349	0.930	0.8593
			1000		0.1800	3.48		352	0.809	0.8729
								357	0.659	0.8939
								400	0.568	0.9043
								403	0.512	0.9128
								405	0.575	0.9192
								407	0.613	0.9254
								408	0.634	0.9294
								409	0.689	0.9329
								410	0.761	0.9367
								411	0.845	0.9409
								412	0.908	0.9466
								413	1.007	0.9516
								414	1.119	0.9571
								417	1.281	0.9775
								422	1.427	1.0146
								425	1.467	1.0391
								427	1.483	1.0564
								429	1.412	1.0715
								432	1.289	1.0944
								437	1.126	1.1275
								442	0.945	1.1572
								444	0.883	1.1667
								447	0.837	1.1813
								449	0.818	1.1910
								452	0.911	1.2046
								455	1.024	1.2210
								458	1.143	1.2393
								500	1.315	1.2538
								502	1.435	1.2681
								504	1.675	1.2864
								506	1.870	1.3049
								508	2.018	1.3277
								510	2.348	1.3505
								512	2.574	1.3794
								514	2.827	1.4075
								515	2.913	1.4262
								519	2.924	1.4910
								522	2.896	1.5365
								524	2.788	1.5699
								526	2.639	1.5982
								528	2.521	1.6285
								529	2.521	1.6416
								530	2.563	1.6582
								532	2.494	1.6846
								534	2.447	1.7136
								537	2.267	1.7505
								540	2.023	1.7869
								542	1.906	1.8099
								544	1.833	1.8294
								546	1.897	1.8513
								547	1.860	1.8611
								552	1.971	1.9136
								554	2.032	1.9371
								556	2.237	1.9594
								557	2.307	1.9742
								559	2.302	1.9982
								602	2.232	2.0367
								607	1.952	2.0940
								612	1.540	2.1441
								617	1.151	2.1809
								622	0.854	2.2084

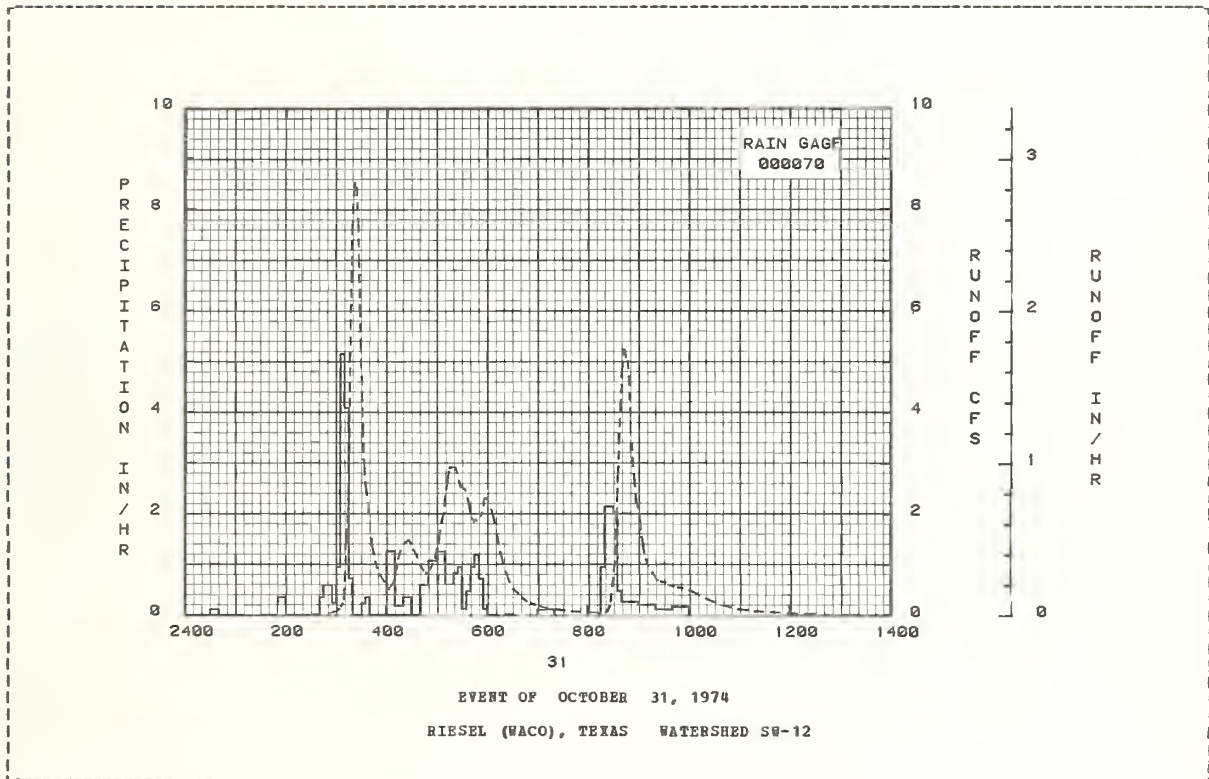
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.

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 31, 1974 (CONTINUED)										
							10-31	627	0.651	2.2300
								632	0.503	2.2458
								637	0.430	2.2586
								642	0.339	2.2696
								647	0.284	2.2781
								652	0.241	2.2853
								657	0.208	2.2918
								702	0.181	2.2971
								712	0.140	2.3061
								722	0.117	2.3131
								732	0.095	2.3191
								742	0.082	2.3240
								752	0.072	2.3282
								802	0.063	2.3320
								812	0.055	2.3353
								821	0.054	2.3380
								822	0.072	2.3384
								823	0.093	2.3389
								824	0.117	2.3395
								825	0.146	2.3401
								826	0.199	2.3410
								827	0.294	2.3426
								828	0.430	2.3445
								829	0.613	2.3473
								830	0.751	2.3517
								831	0.889	2.3560
								832	1.067	2.3611
								833	1.553	2.3679
								834	1.971	2.3794
								835	2.499	2.3911
								836	2.941	2.4053
								837	3.425	2.4219
								838	3.878	2.4457
								839	4.251	2.4669
								840	4.729	2.4903
								841	4.999	2.5157
								843	5.239	2.5756
								845	5.078	2.6363
								847	5.009	2.6890
								849	4.541	2.7450
								851	3.712	2.7881
								853	3.087	2.8280
								855	2.694	2.8582
								857	2.333	2.8977
								859	2.128	2.9109
								901	1.976	2.9350
								903	1.701	2.9542
								905	1.416	2.9725
								907	1.226	2.9863
								909	1.109	3.0000
								912	0.981	3.0177
								917	0.831	3.0424
								922	0.699	3.0634
								927	0.666	3.0830
								932	0.646	3.1009
								937	0.601	3.1180
								942	0.577	3.1349
								947	0.557	3.1504
								952	0.539	3.1655
								1002	0.488	3.1943
								1012	0.414	3.2195
								1030	0.271	3.2539
								1040	0.207	3.2670
								1050	0.165	3.2775
								1100	0.133	3.2858
								1110	0.108	3.2924
								1120	0.090	3.2980
								1140	0.067	3.3067
								1200	0.051	3.3133
								1230	0.037	3.3207
								1300	0.027	3.3260
								1400	0.016	3.3332
								1500	0.012	3.3378
								1600	0.009	3.3414
								1800	0.006	3.3464

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

1974 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 OCTOBER 31, 1974 (CONTINUED)										
							10-31	2400	0.004	3.3564

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	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	2.26	1.03	1.50	3.13	2.13	0.42	1.63	7.11	9.06	6.56	5.08	1.66	41.57
	Q	0.270	0.188	0.005	0.583	0.275	0.0	0.0	0.012	4.927	3.953	2.546	0.604	13.362
STA AV	P	2.03	2.61	2.29	4.02	3.67	3.50	1.91	2.43	3.02	3.41	2.97	2.41	34.27
	Q	0.436	0.586	0.723	0.983	0.738	0.803	0.193	0.087	0.317	0.379	0.559	0.579	6.385

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximm Discharge Date	Maximm 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.								
1974	9-17	1.941	9-17	1.567	9-17	2.119	10-31	2.833	10-31	3.479	9-16	3.896	9-16	4.046	9-10	4.908

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	10-31 1940	7.060	4-19 1957	2.540	4-19 1957	2.960	4-23 1957	3.310	3-29 1965	3.520	3-29 1965	4.250	11-22 1940	5.370	4-19 1957	9.420

NOTES: Watershed conditions: 100% Berandagrass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 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.

1974	DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS WATERSHED SW-17							
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec	
1	0.01E	0.0	0.0	0.0	1.32	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	0.01E	0.0	
3	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.66	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	0.30	0.0	
5	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.18E	
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.06	0.0	
9	0.01E	0.0	0.02E	0.0	0.0	0.21	0.0	0.0	0.39	0.0	0.04	0.0	
10	0.20	0.0	0.28	0.0	0.16	0.0	0.0	0.0	1.05	0.0	0.48	0.72	
11	0.0	0.0	0.0	1.01	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.19	0.0	0.0	0.21	0.0	0.0	0.70	0.0	0.0	0.0	
13	0.05E	0.0	0.0	1.31	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	
14	0.0	0.06E	0.32	0.0	0.0	0.0	0.18	0.0	0.48	0.85	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.97	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.34	0.0	0.0	0.0	
18	0.45	0.17	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	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.45	0.0	0.0	0.0	1.88	0.0	0.0	0.0	0.0	
23	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.79	0.0	
24	0.35	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.09	0.16	0.28	0.28	
25	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.14	0.0	0.0	0.0	
26	0.32	0.0	0.0	0.0	0.0	0.0	0.35	2.04	0.02E	0.0	0.0	0.14E	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.05E	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.70	0.0	0.05E	
29	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.68	0.0	0.0	0.35	0.05E	
30	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.96	0.0	1.49	0.0	0.07E	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	3.36	0.0	0.12E	
TOTAL	2.26	1.03	1.50	3.13	2.13	0.42	1.63	7.11	9.06	6.56	5.08	1.66	
STA AV	2.03	2.61	2.29	4.02	3.67	3.50	1.91	2.43	3.02	3.41	2.97	2.41	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-2. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1974		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	0.032	0.0	0.0	0.0	0.0	0.0	0.001	0.002	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.002	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
5	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.001	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.001	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.022	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	0.004	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
13	0.0	0.0	0.0	0.059	0.0	0.0	0.0	0.0	0.057	0.0	0.0	0.002	
14	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.038	0.0	0.0	0.003	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.003	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.0	0.0	0.003	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.455	0.0	0.0	0.003	
18	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.003	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
20	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
21	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.196	0.002	
24	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.002	
25	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	
26	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.053	0.001	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.444	0.0	0.001	0.001	
MEAN	0.0011	0.0008	0.0	0.0024	0.0011	0.0	0.0	0.0	0.0206	0.0160	0.0107	0.0024	
INCHES	0.270	0.188	0.005	0.583	0.275	0.0	0.0	0.012	4.927	3.953	2.546	0.604	
STA AV	0.436	0.586	0.723	0.983	0.738	0.803	0.193	0.087	0.317	0.379	0.559	0.579	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.960419. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 30 yr period.

1974		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 OCTOBER 30 - 31, 1974										
10-30	HG 0000W2 1.49	0.419	10-30	HG 0000W2 2400	0.0	0.0	10-30	2400	0.007	0.0
			10-31	30	0.0	0.0	10-31	200	0.008	0.0001
				50	0.1200	0.04		300	0.027	0.0008
				155	0.0	0.04		310	0.687	0.0036
				200	0.7202	0.10		311	0.939	0.0078
WATERSHED CONDITIONS: 100% Bermudagrass pasture, 4 to 6 inches high, dormant.				235	0.0	0.10		312	1.172	0.0146
				240	0.2399	0.12		313	1.795	0.0223
				245	0.3600	0.15		314	2.122	0.0325
				250	0.3600	0.18		315	2.457	0.0473
				255	0.2401	0.20		316	2.637	0.0605
				300	0.2401	0.22		317	2.750	0.0745
				304	0.9000	0.28		318	2.859	0.0890
				308	3.7500	0.53		320	3.059	0.1235
				310	6.3002	0.74		322	3.156	0.1557
				312	5.9999	0.94		323	3.156	0.1762
				314	2.9997	1.04		325	3.059	0.2084
				316	1.2003	1.08		327	2.882	0.2430
				335	0.0	1.08		329	2.643	0.2716
				340	0.4799	1.12		331	2.457	0.3014
				400	0.0	1.12		333	2.320	0.3261
				405	0.6000	1.17		335	2.147	0.3522
				410	2.0400	1.34		337	1.953	0.3734
				415	0.7200	1.40		340	1.786	0.4049
				420	0.1201	1.41		343	1.606	0.4335
				430	0.3600	1.47		346	1.427	0.4590
				440	0.1200	1.49		350	1.238	0.4884
				450	0.2400	1.53		355	1.104	0.5202
				455	0.7200	1.59		359	0.949	0.5428
				500	1.2001	1.69		400	1.002	0.5491
				505	1.0800	1.78		403	0.985	0.5646

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

1974 SELECTED RUNOFF EVENT			RIPSEL (WACO), TEXAS WATERSHED SW-17							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			OCTOBER	30 - 31, 1974 (CONTINUED)						
10-31			510		1.6800	1.92	10-31	405	0.949	0.5759
			515		0.9600	2.00		407	1.150	0.5867
			520		0.7200	2.06		409	1.333	0.6012
			525		0.4801	2.10		410	1.534	0.6087
			530		1.1999	2.20		411	1.567	0.6167
			535		0.4801	2.24		420	1.472	0.6935
			540		0.0	2.24		422	1.546	0.7091
			545		1.0800	2.33		425	1.501	0.7348
			550		1.0800	2.42		430	1.392	0.7760
			555		1.4399	2.54		435	1.242	0.8118
			600		0.1201	2.55		440	1.118	0.8439
			815		0.0	2.55		445	1.022	0.8744
			820		1.1999	2.65		450	1.073	0.9029
			825		1.9200	2.81		455	1.197	0.9338
			830		1.5601	2.94		457	1.310	0.9484
			835		1.9200	3.10		459	1.356	0.9622
			840		0.5999	3.15		501	1.530	0.9791
			845		0.4801	3.19		503	1.601	0.9953
			850		0.1199	3.20		505	1.701	1.0146
			900		0.1200	3.22		506	1.868	1.0238
			910		0.1200	3.24		507	2.020	1.0339
			920		0.2400	3.28		508	2.192	1.0475
			930		0.1800	3.31		510	2.325	1.0709
			940		0.0600	3.32		512	2.431	1.0987
			950		0.2401	3.36		515	2.511	1.1403
			1010		0.0	3.36		520	2.637	1.2103
								525	2.527	1.2806
								528	2.654	1.3242
								530	2.654	1.3551
								532	2.704	1.3829
								535	2.527	1.4270
								538	2.388	1.4684
								541	2.299	1.5048
								542	2.299	1.5197
								543	2.388	1.5318
								545	2.331	1.5593
								547	2.431	1.5840
								550	2.441	1.6250
								553	2.587	1.6674
								555	2.682	1.6947
								557	2.660	1.7258
								600	2.527	1.7695
								605	2.331	1.8356
								610	2.054	1.8953
								615	1.763	1.9497
								620	1.517	1.9943
								625	1.306	2.0327
								630	1.197	2.0684
								635	1.069	2.0992
								640	0.949	2.1266
								645	0.874	2.1526
								650	0.807	2.1755
								655	0.733	2.1964
								700	0.677	2.2165
								705	0.609	2.2340
								715	0.520	2.2655
								725	0.450	2.2919
								735	0.390	2.3153
								745	0.351	2.3359
								755	0.309	2.3539
								805	0.280	2.3703
								815	0.244	2.3849
								825	0.513	2.3875
								830	0.901	2.3970
								832	1.059	2.4072
								834	1.348	2.4212
								835	1.480	2.4285
								845	2.351	2.4554
								900	1.813	2.5103
								915	1.264	2.5484
								930	1.012	2.5785
								945	0.871	2.6289
								1015	0.657	2.6682
								1045	0.413	2.6929
								1115	0.298	2.7103

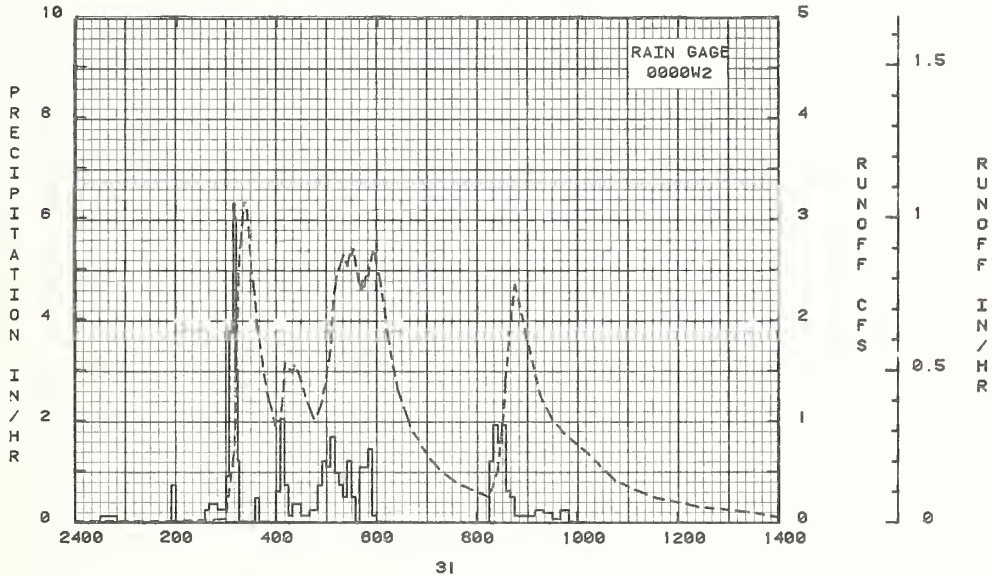
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

1974 SELECTED RUNOFF EVENT

RIESEL (WACO), TEXAS WATERSHED SW-17

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	1135	0.236	2.7242
								1225	0.153	2.7526
								1325	0.099	2.7710
								1500	0.048	2.7817
								1800	0.016	2.7882
								2400	0.003	2.7912

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



EVENT OF OCTOBER 30 - 31, 1974
RIESEL (WACO), TEXAS WATERSHED SW-17

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
1974	P	2.35	1.12	1.45	4.17	2.17	0.59	0.56	7.06	8.58	7.01	4.65	1.74	41.45
	Q	0.550	0.168	0.0	1.141	0.117	0.0	0.0	0.000	3.001	4.157	2.032	0.210	11.376
STA AV	P	2.55	1.20	2.07	3.59	2.85	2.71	4.39	3.12	5.05	6.00	2.75	2.58	38.86
	Q	0.885	0.080	0.917	0.891	0.265	0.637	0.419	0.013	0.601	1.149	0.887	0.755	7.499

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS														
Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval												
		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1974	9-17	1.570	4-13	0.890	10-31	1.140	10-31	2.621	10-31	3.095	10-30	4.148	10-30	4.157
	11-17	2.938	11-17	1.727	11-17	2.269	10-31	2.621	10-31	3.095	10-30	4.148	10-30	4.157
	1971		1971		1971		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. 1380, p. 42.035-4. Precipitation and runoff records began September 1, 1970, part year records are included in the STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-19
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.05E	0.0	0.0	0.0	0.05E	0.0	0.0	0.03E	0.66	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	0.43	0.0	
5	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	
6	0.01E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	0.0	0.0	
8	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.02	0.0	0.0	
9	0.03E	0.0	0.06E	0.0	0.0	0.34	0.0	0.0	0.38	0.0	0.05	0.0	0.0	
10	0.19	0.0	0.24	0.0	0.15	0.0	0.0	0.0	0.87	0.0	0.42	0.75	0.0	
11	0.0	0.0	0.0	0.99	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.06E	0.0	0.0	0.25	0.0	0.0	0.46	0.0	0.0	0.0	0.0	
13	0.07E	0.0	0.0	2.42	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0	
14	0.0	0.08E	0.27	0.0	0.0	0.0	0.17	0.0	0.64	0.59	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	1.33	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	2.54	0.0	0.0	0.0	0.0	
18	0.58	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.37	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.0	
23	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.15	0.0	0.0	
24	0.33	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.09	0.17	0.25	0.32	0.0	
25	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	
26	0.28	0.0	0.0	0.0	0.0	0.0	0.20E	2.19	0.03E	0.0	0.0	0.0	0.09E	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.06E	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.09	0.0	0.73	0.0	0.0	0.06E	
29	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.85	0.0	0.0	0.45	0.0	0.06E	
30	0.0	0.0	0.0	0.29	0.0	0.0	0.0	1.35	0.0	2.32	0.0	0.0	0.10E	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	3.20	0.0	0.0	0.15E	
TOTAL	2.35	1.12	1.45	4.17	2.17	0.59	0.56	7.06	8.58	7.01	4.65	1.74		
STA AV	2.55	1.20	2.07	3.59	2.85	2.71	4.39	3.12	5.05	6.00	2.75	2.58		

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 5 yr (1970-74) record period. Estimate codes may indicate that non-significant event totals are included.

1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-19												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.016	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	0.041	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.027	0.026
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.114	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0
14	0.0	0.0	0.0	0.041	0.0	0.0	0.0	0.0	0.025	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	0.004	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.374	0.0	0.0	0.0
18	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
19	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	0.023	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	0.159	0.0
24	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0
25	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.041	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	T	0.0	0.142	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.425	0.0	0.001
MEAN	0.0024	0.0008	0.0	0.0052	0.0005	0.0	0.0	0.0	0.0137	0.0183	0.0092	0.0009
INCHES	0.550	0.168	0.0	1.141	0.117	0.0	0.0	0.000	3.001	4.157	2.032	0.210
STA AV	0.885	0.980	0.917	0.891	0.265	0.637	0.419	0.013	0.601	1.149	0.887	0.755

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.323585. Records began September 1, 1970. STA AV based on 5 yr (1970-74) record period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-19												
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 OCTOBER 30 - 31, 1974												
10-30	RG 00056B 2.32	1.042	10-30	2400	0.0	0.0	10-30	2400	0.017	0.0		
			10-31	35	0.0	0.0	10-31	202	0.012	0.0090		
				45	0.1200	0.02		240	0.046	0.0121		
				200	0.0	0.02		245	0.052	0.0134		
				205	1.0800	0.11		255	0.149	0.0146		
WATERSHED CONDITIONS: 100% rangeland grasses, 4 to 6 inches tall, with moderate infestation of honey mesquite.				210	0.3600	0.14		305	0.381	0.0163		
				240	0.0	0.14		308	0.780	0.0203		
				245	0.2401	0.16		310	1.483	0.0264		
				250	0.1199	0.17		311	1.919	0.0345		
				255	0.8401	0.24		312	2.362	0.0472		
				300	0.4799	0.28		313	2.770	0.0595		
				305	0.3600	0.31		314	3.093	0.0734		
				310	2.1601	0.49		315	3.457	0.0929		
				315	5.2798	0.93		316	3.818	0.1103		
				320	1.5601	1.06		317	4.104	0.1292		
				338	0.0667	1.08		318	4.341	0.1493		
				340	2.0998	1.15		319	4.601	0.1760		
				345	0.6000	1.20		320	4.813	0.1984		
				410	0.0480	1.22		323	4.813	0.2730		
				415	0.4799	1.26		326	4.470	0.3394		
				425	0.1200	1.28		329	4.126	0.4060		
				435	0.1200	1.30		332	3.625	0.4660		
				440	0.1199	1.31		335	3.248	0.5193		
				445	0.3600	1.34		338	3.006	0.5677		
				450	0.8401	1.41		341	2.682	0.6085		
				455	1.4399	1.53		344	2.377	0.6477		
				500	0.9600	1.61		347	2.130	0.6826		
				505	0.7200	1.67		350	1.937	0.7141		
				510	1.3200	1.78		353	1.745	0.7427		
				515	1.3200	1.89		356	1.597	0.7666		

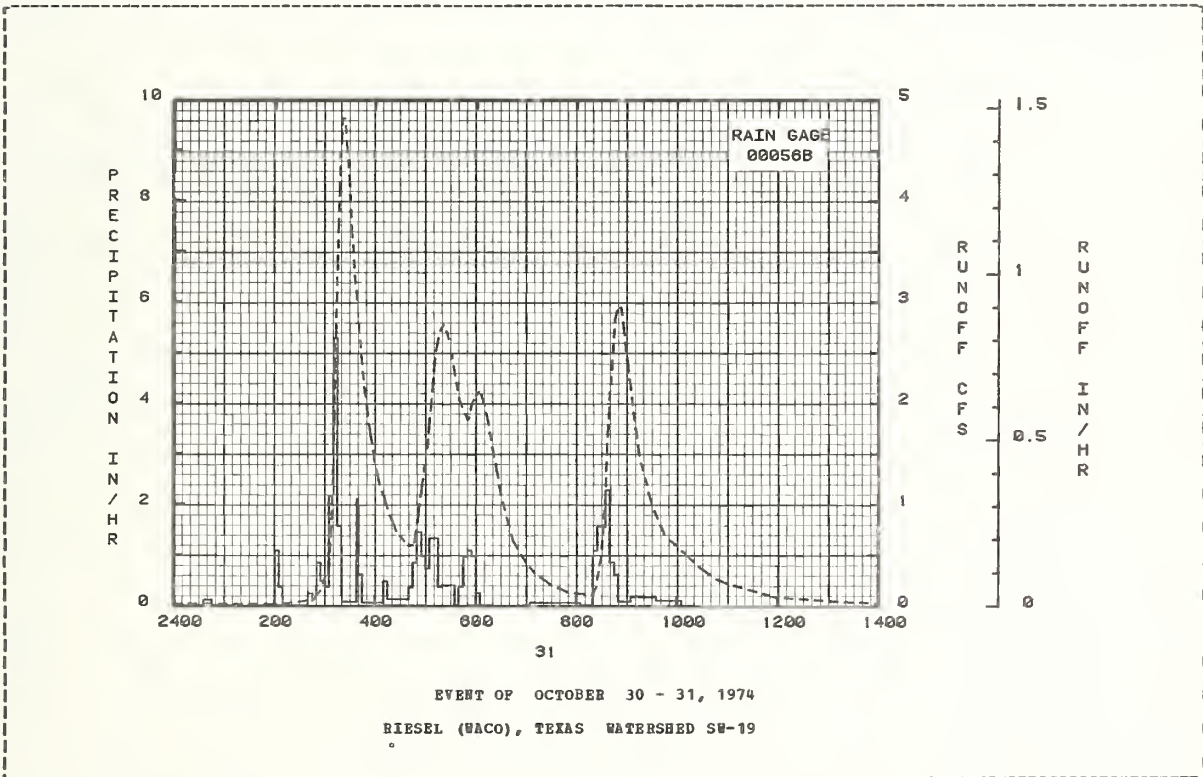
NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.305149.

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-19							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			OCTOBER 30 - 31, 1974 (CONTINUED)							
			10-31	520	0.3600	1.92	10-31	359	1.424	0.7900
				535	0.4000	2.02		402	1.305	0.8111
				540	0.0	2.02		405	1.188	0.8304
				545	0.3600	2.05		410	1.091	0.8589
				550	0.9600	2.13		415	0.949	0.8857
				555	1.0800	2.22		420	0.848	0.9082
				600	0.9600	2.30		425	0.732	0.9280
				605	0.2399	2.32		430	0.678	0.9464
				705	0.0	2.32		435	0.631	0.9628
				805	0.0600	2.38		440	0.592	0.9781
				820	0.0	2.38		445	0.592	0.9937
				825	1.0800	2.47		447	0.618	0.9994
				830	1.5601	2.60		449	0.738	1.0067
				835	1.5599	2.73		451	0.860	1.0143
				840	2.2800	2.92		453	1.001	1.0243
				845	0.8401	2.99		455	1.122	1.0344
				850	0.5999	3.04		457	1.250	1.0471
				905	0.0800	3.06		459	1.366	1.0596
				935	0.1800	3.15		501	1.479	1.0749
				1005	0.1000	3.20		503	1.639	1.0897
								505	1.847	1.1084
								507	2.039	1.1270
								509	2.242	1.1499
								511	2.444	1.1723
								513	2.575	1.1992
								515	2.644	1.2272
								518	2.731	1.2656
								521	2.775	1.3083
								525	2.704	1.3638
								530	2.512	1.4322
								535	2.272	1.4921
								540	2.035	1.5460
								550	1.833	1.5919
								552	1.856	1.6095
								554	1.965	1.6300
								557	2.035	1.6609
								600	2.082	1.6928
								603	2.111	1.7228
								606	2.077	1.7553
								610	1.969	1.7963
								615	1.780	1.8454
								620	1.543	1.8870
								625	1.331	1.9230
								630	1.087	1.9547
								635	0.940	1.9801
								640	0.775	2.0015
								645	0.631	2.0200
								650	0.560	2.0349
								655	0.493	2.0480
								700	0.421	2.0600
								705	0.368	2.0699
								710	0.317	2.0785
								720	0.256	2.0932
								730	0.203	2.1049
								740	0.166	2.1142
								750	0.129	2.1217
								800	0.121	2.1281
								810	0.113	2.1340
								820	0.109	2.1397
								824	0.191	2.1415
								830	0.493	2.1443
								835	1.115	2.1493
								836	1.416	2.1553
								837	1.601	2.1625
								838	1.780	2.1726
								839	1.956	2.1815
								840	2.111	2.1912
								842	2.347	2.2151
								844	2.580	2.2386
								846	2.825	2.2676
								848	2.915	2.2950
								853	2.943	2.3406
								856	2.737	2.3812
								859	2.506	2.4218
								902	2.312	2.4592

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), 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 OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	905	2.130	2.4936
								908	1.901	2.5248
								911	1.728	2.5508
								915	1.479	2.5852
								930	1.001	2.6130
								945	0.705	2.6324
								950	0.649	2.6494
								1000	0.594	2.6812
								1010	0.508	2.7088
								1020	0.433	2.7329
								1030	0.364	2.7533
								1040	0.299	2.7699
								1050	0.253	2.7841
								1100	0.216	2.7961
								1200	0.077	2.8053
								1400	0.025	2.8155
								1500	0.012	2.8212
								1600	0.006	2.8239
								1800	0.001	2.8245
								2400	0.0	2.8250

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



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	
1974	P 2.35	1.12	1.45	4.17	2.17	0.59	0.56	7.06	8.58	7.01	4.65	1.74	41.45	
	Q 0.548	0.230	0.0	1.345	0.019	0.0	0.0	0.012	3.126	4.546	2.107	0.226	12.160	
STA AV	P 2.55	1.20	2.07	3.59	2.85	2.71	4.39	3.12	5.05	6.00	2.75	2.58	38.86	
	Q 0.997	0.107	1.101	1.057	0.416	0.811	0.605	0.023	0.629	0.610	0.335	0.311	7.004	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.
	9-17	2.476	4-13	1.095	10-31	1.344	10-31	2.915	10-31	3.358	10-30	4.538	10-30	4.546	10-30	4.788

MAXIMUMS FOR PERIOD OF RECORD															
1974	1971	1971	1971	1971	1974	1974	1974	1974	1974	1974	1974	1974	1974		
11-17	3.121	11-17	1.764	11-17	2.387	10-31	2.915	10-31	3.358	10-30	4.538	10-30	4.546	10-30	4.788

NOTES: Watershed conditions: 100% rangeland grasses with dead honey mesquite, moderately grazed. Honey mesquites were killed in 1972. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pnb. 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 record see National Weather Service records at Waco, Texas.

1974	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED SW-20	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.32	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
3	0.05E	0.0	0.0	0.0	0.05E	0.0	0.0	0.03E	0.66	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0
5	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E
6	0.01E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	0.0	0.0
8	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.02	0.0	0.0
9	0.03E	0.0	0.06E	0.0	0.0	0.34	0.0	0.0	0.38	0.0	0.05	0.0	0.0	0.0
10	0.19	0.0	0.24	0.0	0.15	0.0	0.0	0.0	0.87	0.0	0.42	0.75	0.0	0.0
11	0.0	0.0	0.0	0.99	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.06E	0.0	0.0	0.25	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0
13	0.07E	0.0	0.0	2.42	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0	0.0
14	0.0	0.08E	0.27	0.0	0.0	0.0	0.17	0.0	0.64	0.59	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	1.33	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	2.54	0.0	0.0	0.0	0.0	0.0
18	0.58	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
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
20	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.37	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.0	0.0
23	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.15	0.0	0.0	0.0
24	0.33	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.09	0.17	0.25	0.32	0.0	0.0
25	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0
26	0.28	0.0	0.0	0.0	0.0	0.0	0.20E	2.19	0.03E	0.0	0.0	0.0	0.09E	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.06E	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.09	0.0	0.73	0.0	0.0	0.06E	0.0
29	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.85	0.0	0.0	0.45	0.06E	0.0	0.0
30	0.0	0.0	0.0	0.29	0.0	0.0	0.0	1.35	0.0	2.32	0.0	0.10E	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	3.20	0.15E	0.0	0.0	0.0
TOTAL	2.35	1.12	1.45	4.17	2.17	0.59	0.56	7.06	8.58	7.01	4.65	1.74	41.45	
STA AV	2.55	1.20	2.07	3.59	2.85	2.71	4.39	3.12	5.05	6.00	2.75	2.58	38.86	

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 5 yr (1970-1974) record period. Estimate codes may indicate that non-significant event totals are included.

1974 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	0.003	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	0.038	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.001	0.0	0.023	0.028
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.142	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0
14	0.0	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.027	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	0.003	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.382	0.0	0.0	0.0
18	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.031	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	0.186	0.0
24	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.0
25	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.739	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	0.002	0.0	0.158	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.455	0.0	0.001
MEAN	0.0024	0.0011	0.0	0.0060	0.0001	0.0	0.0	0.0001	0.0141	0.0198	0.0095	0.0010
INCRS	0.548	0.230	0.0	1.345	0.019	0.0	0.0	0.012	3.126	4.546	2.107	0.226
STA AV	0.997	0.107	1.101	1.057	0.416	0.811	0.605	0.023	0.629	0.610	0.335	0.311

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.414845. Records began September 1, 1970. STA AV based on 5 yr (1970-74) record period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-20												
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 OCTOBER 30 - 31, 1974												
RG 000568			RG 000568									
10-30	2.32	1.174	10-30	2400	0.0	0.0	10-30	2400	0.008	0.0		
			10-31	35	0.0	0.0	10-31	200	0.006	0.0043		
				45	0.1200	0.02		210	0.018	0.0049		
				290	0.0	0.02		220	0.029	0.0062		
				205	1.0800	0.11		230	0.031	0.0077		
WATERSHED CONDITIONS:												
100% rangeland grasses, 4 to 6 inches tall, with dead honey mesquite. Mesquites were killed in 1972.												
				210	0.3600	0.14		240	0.036	0.0094		
				240	0.0	0.14		245	0.044	0.0105		
				245	0.2401	0.16		250	0.063	0.0118		
				250	0.1199	0.17		252	0.084	0.0125		
				255	0.8401	0.24		254	0.120	0.0136		
				300	0.4799	0.28		257	0.164	0.0159		
				305	0.3600	0.31		300	0.206	0.0188		
				310	2.1601	0.49		303	0.243	0.0220		
				315	5.2798	0.93		305	0.305	0.0250		
				320	1.5601	1.06		307	0.413	0.0285		
				338	0.0667	1.08		308	0.569	0.0314		
				340	2.0998	1.15		309	0.821	0.0348		
				345	0.6000	1.20		310	1.178	0.0396		
				410	0.0480	1.22		311	1.914	0.0471		
				415	0.4799	1.26		312	2.972	0.0618		
				425	0.1200	1.28		313	5.413	0.0820		
				435	0.1200	1.30		314	7.097	0.1122		
				440	0.1199	1.31		315	7.426	0.1561		
				445	0.3600	1.34		316	7.721	0.1926		
				450	0.8401	1.41		318	7.929	0.2682		
				455	1.4399	1.53		320	7.375	0.3513		
				500	0.9600	1.61		322	6.577	0.4186		
				505	0.7200	1.67		324	5.775	0.4857		
				510	1.3200	1.78		326	4.989	0.5377		
				515	1.3200	1.89		328	4.326	0.5883		

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

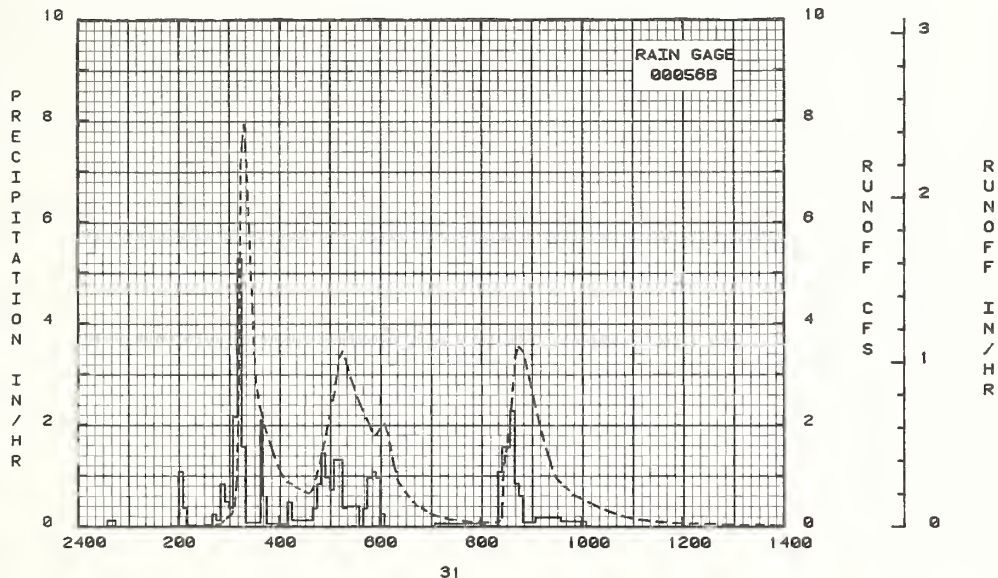
1974 SELECTED RUNOFF EVENT			NIESEL (WACO), TEXAS WATERSHED SW-20							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
			10-31	520	0.3600	1.92	10-31	330	3.371	0.6301
				535	0.4000	2.02		332	2.831	0.6600
				540	0.0	2.02		335	2.522	0.7020
				545	0.3600	2.05		340	2.139	0.7611
				550	0.9600	2.13		345	1.833	0.8138
				555	1.0800	2.22		350	1.593	0.8572
				600	0.9600	2.30		355	1.335	0.8943
				605	0.2399	2.32		400	1.143	0.9272
				705	0.0	2.32		405	0.962	0.9539
				805	0.0600	2.38		410	0.866	0.9770
				820	0.0	2.38		415	0.830	0.9995
				825	1.0800	2.47		420	0.775	1.0199
				830	1.5601	2.60		425	0.730	1.0390
				835	1.5599	2.73		430	0.675	1.0576
				840	2.2800	2.92		435	0.654	1.0744
				845	0.8401	2.99		438	0.691	1.0850
				850	0.5999	3.04		441	0.786	1.0957
				905	0.0800	3.06		444	0.962	1.1094
				935	0.1800	3.15		446	1.111	1.1207
				1005	0.1000	3.20		448	1.246	1.1320
								450	1.366	1.1462
								452	1.507	1.1601
								454	1.677	1.1774
								456	1.847	1.1944
								458	1.993	1.2152
								500	2.164	1.2378
								502	2.337	1.2595
								504	2.496	1.2858
								506	2.661	1.3107
								508	2.932	1.3411
								510	3.197	1.3707
								512	3.364	1.4063
								515	3.450	1.4597
								520	3.222	1.5443
								525	2.920	1.6221
								530	2.677	1.6964
								535	2.444	1.7613
								540	2.267	1.8210
								545	2.087	1.8788
								550	1.874	1.9290
								555	1.798	1.9755
								600	1.933	2.0251
								605	2.016	2.0751
								610	1.793	2.1234
								613	1.491	2.1491
								616	1.242	2.1706
								619	1.070	2.1887
								622	0.863	2.2027
								625	0.804	2.2158
								630	0.675	2.2354
								635	0.578	2.2513
								640	0.479	2.2647
								645	0.405	2.2764
								650	0.355	2.2860
								655	0.295	2.2943
								700	0.253	2.3015
								710	0.195	2.3129
								720	0.154	2.3220
								730	0.121	2.3291
								740	0.096	2.3346
								800	0.077	2.3436
								820	0.077	2.3515
								823	0.115	2.3530
								825	0.178	2.3544
								826	0.467	2.3559
								827	1.094	2.3606
								828	1.264	2.3663
								829	1.396	2.3728
								830	1.475	2.3814
								831	1.535	2.3887
								832	1.668	2.3964
								833	1.811	2.4048
								834	1.951	2.4162
								835	2.120	2.4260
								837	2.533	2.4485

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

1974 SELECTED RUNOFF EVENT RIESEL (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 OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	839	3.018	2.4786
								841	3.364	2.5094
								843	3.483	2.5466
								845	3.537	2.5847
								850	3.437	2.6731
								855	3.099	2.7559
								900	2.731	2.8333
								905	2.347	2.8976
								910	2.011	2.9529
								915	1.681	3.0019
								920	1.396	3.0409
								925	1.143	3.0730
								930	0.943	3.1007
								935	0.857	3.1235
								940	0.780	3.1443
								945	0.710	3.1641
								950	0.623	3.1810
								1000	0.543	3.2112
								1010	0.462	3.2367
								1020	0.385	3.2587
								1030	0.307	3.2766
								1040	0.246	3.2906
								1050	0.198	3.3022
								1100	0.158	3.3114
								1120	0.109	3.3251
								1140	0.082	3.3349
								1200	0.058	3.3421
								1230	0.046	3.3502
								1300	0.028	3.3559
								1400	0.015	3.3625
								1500	0.009	3.3662
								1800	0.002	3.3713
								2100	0.0	3.3723
								2400	0.0	3.3723

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



EVENT OF OCTOBER 30 - 31, 1974
 RIESEL (WACO), TEXAS WATERSHED SW-20

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	
1974	P 2.19	1.05	1.69	3.96	1.97	0.53	1.07	6.25	8.31	6.87	4.26	1.74	39.89	
	Q 0.009	0.005	0.0	0.099	0.0	0.0	0.0	0.0	2.525	2.370	1.233	0.011	6.250	
STA AV	P 1.88	2.08	2.76	3.53	2.47	2.27	2.93	2.88	4.14	5.79	2.49	2.77	35.97	
	Q 0.135	0.164	0.898	0.553	0.267	0.667	0.094	0.020	0.421	0.647	0.219	0.100	4.185	

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.				
1974	10-31	1.263	10-31	0.736	10-31	1.108	10-31	2.129	10-31	2.355	10-30	2.368	10-30	2.376	9-12	2.525

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	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
	1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: 96% oats; 4% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 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.

1974 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-13	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.11	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	0.03E	0.0	0.0	0.0	0.04E	0.0	0.0	0.08E	0.71	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	0.35	0.0		
5	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.16E		
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.0		
8	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.04	0.0		
9	0.08E	0.0	0.05E	0.0	0.0	0.30	0.0	0.0	0.53	0.0	0.09	0.0		
10	0.09E	0.0	0.30	0.0	0.16	0.0	0.0	0.0	0.83	0.0	0.41	0.71		
11	0.0	0.0	0.13	1.02	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.14	0.0	0.0	0.23	0.0	0.0	0.42	0.0	0.0	0.0		
13	0.05E	0.0	0.0	2.15	0.0	0.0	0.0	0.0	1.18	0.0	0.0	0.0		
14	0.0	0.04E	0.32	0.0	0.0	0.0	0.21	0.0	0.46	0.84	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.66	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.89	0.0	0.0	0.0		
18	0.50	0.16	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	0.49	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0		
23	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.03	0.0		
24	0.27	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.11	0.14	0.28	0.33		
25	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0		
26	0.27	0.0	0.0	0.0	0.0	0.0	0.14E	2.20	0.05E	0.0	0.0	0.11E		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.04E		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.06	0.0	0.81	0.0	0.05E		
29	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.66	0.0	0.0	0.35	0.05E		
30	0.0	0.0	0.0	0.25	0.0	0.0	0.0	1.03	0.0	1.53	0.0	0.06E		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	3.55	0.0	0.0	0.23E		
TOTAL	2.19	1.05	1.69	3.96	1.97	0.53	1.07	6.25	8.31	6.87	4.26	1.74		
STA AV	1.88	2.08	2.76	3.53	2.47	2.27	2.93	2.88	4.14	5.79	2.49	2.77		

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 6 yr (1969-74) record period. Estimate codes may indicate that non-significant event totals are included.

1974 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	0.003	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.004	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	0.047	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.105	0.005	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.081	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	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	0.736	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.273	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	
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	0.304	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.115	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	0.002	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	0.003	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.122	0.0	0.0	
MEAN	0.0001	0.0001	0.0	0.0016	0.0	0.0	0.0	0.0	0.0400	0.0363	0.0195	0.0002	
INCHES	0.009	0.005	0.0	0.099	0.0	0.0	0.0	0.0	2.525	2.370	1.233	0.011	
STA AV	0.135	0.164	0.898	0.553	0.267	0.667	0.094	0.020	0.421	0.647	0.219	0.100	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 2.106341. Records began January 1, 1969. STA AV based on 6 yr (1969-74) record period.

1974 ANTECEDENT CONDITIONS			1974 RAINFALL				1974 RUNOFF			
Date	Rainfall	Hunoff	Date	Time	Intensity	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 31, 1974										
10-31	HG 00070A 0.0	0.0	10-31	BG 00070A 35	0.0	0.0	10-31	311	0.0	0.0
				55	0.0900	0.03		312	0.0	0.0
				200	0.0	0.03		313	0.001	0.0
				205	0.4801	0.07		314	0.006	0.0
				215	0.1800	0.10		315	0.015	0.0
				235	0.0	0.10		316	0.038	0.0
				245	0.0600	0.11		317	0.090	0.0001
				255	0.3000	0.16		318	0.162	0.0003
				305	0.3000	0.21		319	0.222	0.0006
				310	2.4000	0.41		320	0.316	0.0010
				315	5.5201	0.87		321	0.371	0.0014
				320	2.2798	1.06		322	0.427	0.0020
				335	0.0400	1.07		323	0.479	0.0028
				340	0.6000	1.12		324	0.554	0.0035
				355	0.0	1.12		325	5.645	0.0077
				400	0.2399	1.14		326	7.329	0.0166
				405	0.6000	1.19		327	7.987	0.0297
				410	0.9600	1.27		328	8.734	0.0412
				415	2.0400	1.44		329	9.323	0.0536
				425	0.3000	1.49		330	9.380	0.0696
				435	0.3600	1.55		332	9.096	0.0950
				445	0.1800	1.58		334	8.091	0.1215
				455	0.6000	1.68		336	7.704	0.1431
				505	0.9599	1.84		338	6.942	0.1657
				515	1.3200	2.06		340	6.250	0.1838
				525	0.7201	2.18		342	5.708	0.2023
				535	0.7799	2.31		344	5.176	0.2172
				545	0.3601	2.37		346	4.846	0.2327
				555	1.0200	2.54		348	4.456	0.2454
				605	0.3600	2.60		350	4.138	0.2587

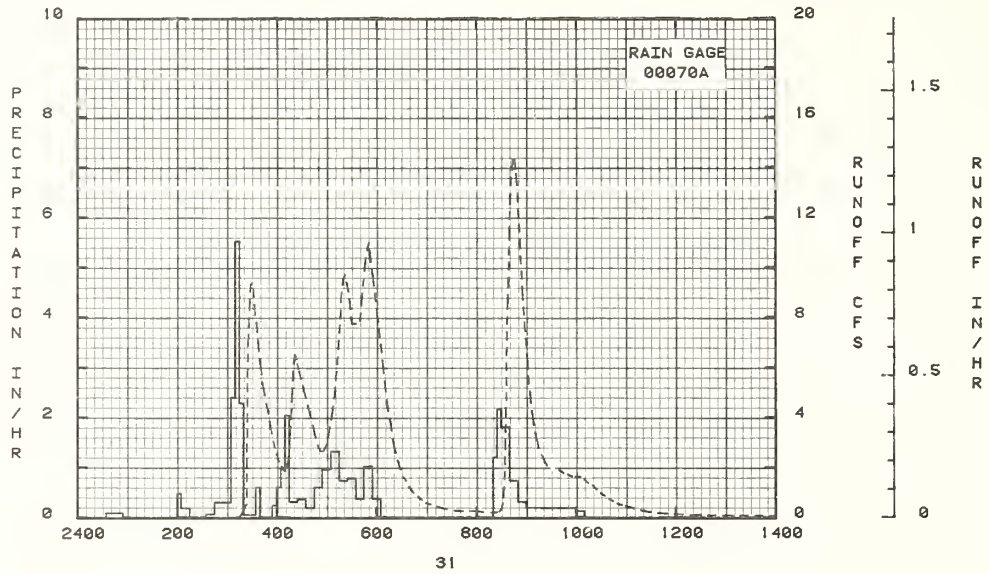
NOTES: To convert runoff in CFS to IN/HH, multiply by .087764.

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 31, 1974 (CONTINUED)										
10-31			820		0.0	2.60	10-31	352	3.851	0.2696
			825		1.1999	2.70		354	3.340	0.2807
			830		2.1601	2.88		356	3.046	0.2895
			835		1.7999	3.03		358	2.794	0.2985
			840		1.8001	3.18		400	2.519	0.3067
			850		0.7200	3.30		403	2.226	0.3164
			900		0.3000	3.35		406	2.018	0.3259
			920		0.1800	3.41		410	1.853	0.3372
			940		0.1800	3.47		413	2.029	0.3458
			1000		0.1800	3.53		415	2.519	0.3528
			1010		0.1200	3.55		416	3.060	0.3567
								417	3.641	0.3613
								418	4.331	0.3667
								419	5.176	0.3749
								420	5.857	0.3824
								421	6.273	0.3908
								422	6.522	0.3995
								423	6.430	0.4106
								424	6.318	0.4194
								425	6.140	0.4279
								426	5.943	0.4362
								427	5.836	0.4463
								429	5.541	0.4619
								432	5.216	0.4859
								435	4.770	0.5081
								438	4.367	0.5285
								441	3.985	0.5456
								444	3.593	0.5625
								447	3.184	0.5776
								450	2.833	0.5910
								453	2.654	0.6033
								456	2.667	0.6142
								500	2.925	0.6315
								502	3.269	0.6400
								504	3.625	0.6506
								506	4.053	0.6611
								508	4.456	0.6743
								510	4.923	0.6871
								512	5.836	0.7037
								514	6.800	0.7210
								516	7.704	0.7434
								518	9.012	0.7663
								520	9.524	0.7949
								522	9.699	0.8213
								524	9.323	0.8506
								526	9.012	0.8758
								528	8.598	0.9029
								530	7.730	0.9281
								535	7.730	0.9838
								540	7.883	1.0400
								543	8.956	1.0775
								546	10.084	1.1199
								549	10.758	1.1664
								551	10.978	1.1962
								553	10.175	1.2288
								555	9.728	1.2561
								557	9.237	1.2854
								559	8.625	1.3099
								602	7.806	1.3465
								605	6.894	1.3792
								608	6.052	1.4081
								611	5.019	1.4309
								614	4.225	1.4515
								617	3.737	1.4692
								620	3.033	1.4843
								623	2.568	1.4968
								626	2.215	1.5066
								629	1.904	1.5158
								632	1.629	1.5237
								635	1.493	1.5306
								640	1.194	1.5403
								645	0.962	1.5484
								650	0.819	1.5548
								655	0.695	1.5603
								700	0.569	1.5650

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

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 31, 1974 (CONTINUED)										
							10-31	705	0.511	1.5689
								715	0.407	1.5757
								725	0.316	1.5809
								735	0.270	1.5852
								800	0.242	1.5946
								820	0.184	1.6008
								825	0.199	1.6022
								828	0.245	1.6032
								830	0.320	1.6041
								831	0.440	1.6046
								832	0.574	1.6053
								833	0.795	1.6062
								834	1.233	1.6079
								835	2.833	1.6107
								836	4.104	1.6155
								837	7.428	1.6234
								838	8.598	1.6371
								839	9.611	1.6496
								840	11.623	1.6642
								841	12.945	1.6810
								842	13.586	1.7038
								843	13.950	1.7226
								844	14.357	1.7420
								846	14.395	1.7864
								847	13.913	1.8058
								848	13.731	1.8248
								849	13.263	1.8479
								850	12.598	1.8656
								853	10.727	1.9176
								856	8.680	1.9575
								859	7.428	1.9934
								902	5.943	2.0232
								905	4.846	2.0473
								908	3.968	2.0669
								911	3.369	2.0820
								915	2.794	2.1010
								920	2.364	2.1196
								925	2.072	2.1355
								930	1.987	2.1508
								935	1.945	2.1650
								940	1.893	2.1788
								945	1.763	2.1926
								950	1.705	2.2051
								955	1.620	2.2171
								1000	1.611	2.2292
								1005	1.620	2.2409
								1010	1.511	2.2521
								1015	1.364	2.2630
								1020	1.257	2.2724
								1025	1.111	2.2809
								1030	0.968	2.2888
								1035	0.838	2.2953
								1040	0.730	2.3009
								1045	0.636	2.3061
								1050	0.544	2.3103
								1055	0.484	2.3140
								1100	0.440	2.3175
								1110	0.349	2.3232
								1120	0.273	2.3278
								1130	0.202	2.3313
								1140	0.169	2.3339
								1150	0.143	2.3362
								1200	0.118	2.3382
								1230	0.078	2.3425
								1300	0.073	2.3458
								1400	0.047	2.3510
								1600	0.020	2.3569
								1800	0.010	2.3596
								2400	0.005	2.3635

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



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EVENT OF OCTOBER 31, 1974

RIESEL (WACO), TEXAS WATERSHED Y-13

RIESEL (WACO), TEXAS WATERSHED Y-14

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 11 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 5.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y-14	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1974	P 2.07	1.04	1.57	3.66	2.12	0.47	1.09	6.94	8.57	6.88	4.33	1.60	40.34	
	Q 0.026	0.002	0.0	0.869	0.023	0.0	0.0	0.302	3.486	3.418	1.230	0.003	9.360	
STA AV	P 1.83	2.03	2.77	3.53	2.57	2.47	2.95	3.27	4.13	5.80	2.42	2.68	36.44	
	Q 0.173	0.070	0.688	0.466	0.639	0.697	0.507	0.164	0.581	1.572	0.510	0.636	6.703	

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.
1974	10-31	2.110	9-17	1.427	9-17	1.778	10-31	2.722	10-31	3.026	10-30	3.407	10-30	3.419	9-10	3.437
MAXIMUMS FOR PERIOD OF RECORD																
	11-17	2.886	6-3	1.500	6-3	2.049	10-31	2.722	10-31	3.026	10-30	3.407	10-30	3.419	5-28	4.524
	1971		1973		1973		1974		1974		1974		1974		1973	

NOTES: Watershed conditions: 96% grain 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. 42-038-5. Precipitation and runoff records began January 1, 1969. Precipitation data from Thiessen weighted method using rain gages 75-A and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-14	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0
3	0.01E	0.0	0.0	0.0	0.02E	0.0	0.0	0.08E	0.65	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	0.22	0.0	0.0
5	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.0	0.0
8	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.03	0.0	0.0
9	0.01E	0.0	0.03E	0.0	0.0	0.27	0.0	0.0	0.40	0.0	0.0	0.06	0.0	0.0
10	0.19	0.0	0.26	0.0	0.15	0.0	0.0	0.0	1.00	0.0	0.44	0.70	0.0	0.0
11	0.0	0.0	0.07E	1.05	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.20	0.0	0.0	0.20	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0
13	0.04E	0.0	0.0	1.85	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0
14	0.0	0.05E	0.30	0.0	0.0	0.0	0.18	0.0	0.59	0.86	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	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	0.06E	0.0	0.78	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	3.12	0.0	0.0	0.0	0.0	0.0
18	0.45	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
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
20	0.0	0.0	0.44	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.42	0.0	0.0	0.0	1.48	0.0	0.0	0.0	0.0	0.0	0.0
23	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.21	0.0	0.0	0.0
24	0.28	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.09	0.14	0.23	0.27	0.0	0.0
25	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.19	0.0	0.0	0.0	0.0	0.0
26	0.29	0.0	0.0	0.0	0.0	0.0	0.19	2.09	0.05E	0.0	0.0	0.12E	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.07E	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.81	0.0	0.04E	0.0	0.0
29	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.74	0.0	0.0	0.34	0.04E	0.0	0.0
30	0.0	0.0	0.0	0.22	0.0	0.0	0.0	1.07	0.0	1.61	0.0	0.09E	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	3.46	0.0	0.12E	0.0	0.0
TOTAL	2.07	1.04	1.57	3.66	2.12	0.47	1.09	6.94	8.57	6.88	4.33	1.60		
STA AV	1.83	2.03	2.77	3.53	2.57	2.47	2.95	3.27	4.13	5.80	2.42	2.68		

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42-002-1. Precipitation values are Thiessen weighted average of rain gages 75A and 89. Records began January 1, 1969. STA AV based on 6 yr (1969-74) record period. Estimate codes may indicate that non-significant event totals are included.

1974 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-14												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.005	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	0.011	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	0.002	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	0.012	0.0	0.017	0.001
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.200	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0
14	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	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	0.705	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	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	0.221	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0
25	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	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	0.071	0.0	0.087	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.717	0.0	0.0
MEAN	0.0002	0.0	0.0	0.0068	0.0002	0.0	0.0	0.0023	0.0273	0.0259	0.0096	0.0
INCRS	0.026	0.002	0.0	0.869	0.023	0.0	0.0	0.302	3.486	3.418	1.230	0.003
STA AV	0.173	0.070	0.688	0.466	0.639	0.697	0.507	0.164	0.581	1.572	0.510	0.636

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 4.250295. Records began January 1, 1969. STA AV based on 6 yr (1969-74) record period.

1974 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-14											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 31, 1974											
10-31	RG 00075A 0.0	0.011	10-31	RG 00075A 35	0.0	0.0	10-31	203	0.027	0.0	
				50	0.1600	0.04		233	0.046	0.0032	
				200	0.0	0.04		253	0.054	0.0062	
				205	0.3602	0.07		258	0.065	0.0071	
				240	0.0	0.07		303	0.095	0.0082	
				250	0.1199	0.09		308	0.147	0.0101	
				300	0.3600	0.15		310	0.190	0.0110	
				305	0.3600	0.18		312	0.262	0.0124	
				310	0.8401	0.25		313	0.351	0.0133	
				312	5.0999	0.42		314	0.448	0.0144	
				314	5.0999	0.59		315	0.600	0.0162	
				316	7.8003	0.85		316	1.792	0.0195	
				318	4.2000	0.99		317	4.974	0.0288	
				320	2.4001	1.07		318	8.272	0.0472	
				335	0.0	1.07		319	10.840	0.0802	
				340	0.2399	1.09		320	11.716	0.1114	
				350	0.1800	1.12		321	11.917	0.1441	
				404	0.0	1.12		322	11.883	0.1771	
				410	0.8000	1.20		323	11.716	0.2179	
				414	0.7500	1.25		324	10.872	0.2491	
				420	0.3999	1.29		325	10.341	0.2785	
				425	0.1201	1.30		327	8.846	0.3382	
				430	0.2401	1.32		329	7.146	0.3825	
				435	0.3600	1.35		331	5.644	0.4223	
				440	0.2399	1.37		333	4.935	0.4515	
				445	0.1201	1.38		335	4.057	0.4795	
				450	0.3600	1.41		337	3.531	0.5005	
				455	0.6000	1.46		339	2.926	0.5206	
				500	0.9598	1.54		341	2.585	0.5359	
				505	1.0801	1.63		343	2.293	0.5511	

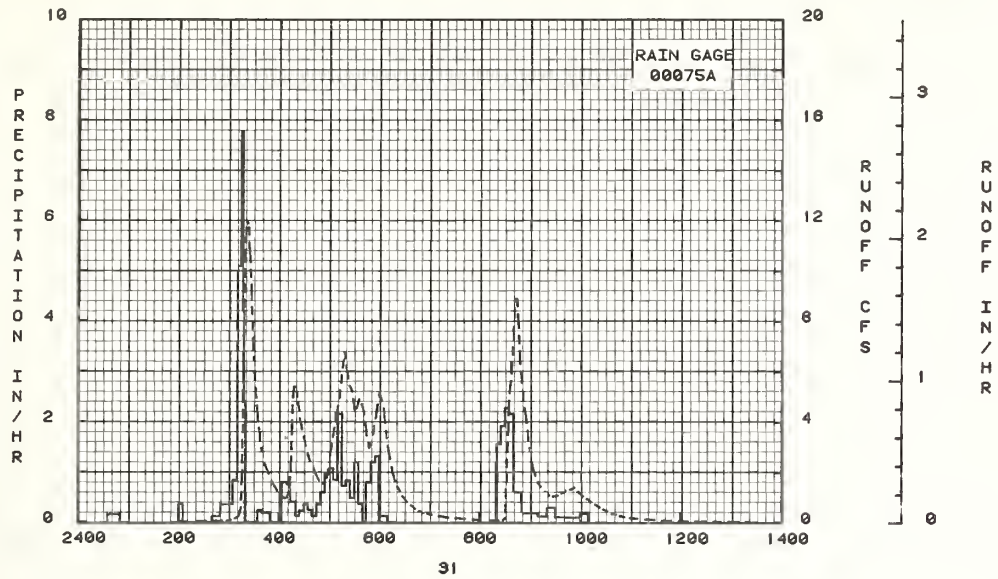
NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y-14				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 31, 1974 (CONTINUED)										
10-31			510		0.8399	1.70	10-31	348	1.916	0.5816
			515		2.1601	1.88		353	1.532	0.6079
			520		0.7200	1.94		358	1.272	0.6282
			525		0.8399	2.01		403	1.033	0.6450
			530		0.4801	2.05		408	0.949	0.6601
			535		1.1999	2.15		410	0.997	0.6654
			540		0.3600	2.18		412	1.192	0.6723
			544		0.0	2.18		413	1.505	0.6760
			550		0.8000	2.26		414	1.792	0.6806
			555		1.2001	2.36		415	2.611	0.6882
			600		1.3200	2.47		416	4.057	0.6974
			610		0.1200	2.49		417	4.994	0.7099
			820		0.0	2.49		418	5.394	0.7243
			825		1.5599	2.62		419	5.374	0.7429
			830		1.9200	2.78		420	5.374	0.7578
			835		2.2800	2.97		421	5.192	0.7724
			840		2.1599	3.15		422	4.974	0.7865
			850		0.6000	3.25		423	4.743	0.8033
			900		0.1800	3.28		424	4.428	0.8160
			910		0.1800	3.31		426	3.989	0.8392
			920		0.1200	3.33		428	3.673	0.8631
			930		0.3000	3.38		430	3.395	0.8851
			1000		0.1000	3.43		432	3.008	0.9028
			1010		0.1801	3.46		435	2.662	0.9283
								438	2.376	0.9510
								443	2.001	0.9828
								448	1.645	1.0092
								453	1.541	1.0335
								455	1.597	1.0422
								457	1.782	1.0527
								459	2.099	1.0634
								501	2.687	1.0783
								503	3.106	1.0943
								506	3.755	1.1252
								509	4.338	1.1616
								512	4.974	1.2035
								518	6.809	1.3054
								521	6.010	1.3630
								524	5.415	1.4144
								527	5.192	1.4621
								531	4.302	1.5179
								533	4.538	1.5423
								536	4.896	1.5848
								539	4.687	1.6279
								542	4.267	1.6681
								545	3.425	1.7027
								548	2.953	1.7292
								551	3.205	1.7569
								554	3.837	1.7885
								557	4.410	1.8256
								600	5.132	1.8685
								603	4.820	1.9098
								605	4.519	1.9389
								607	3.938	1.9623
								609	3.336	1.9849
								611	2.818	2.0020
								613	2.486	2.0185
								616	1.947	2.0384
								619	1.654	2.0546
								622	1.390	2.0672
								625	1.207	2.0789
								628	1.033	2.0890
								633	0.818	2.1024
								638	0.670	2.1138
								643	0.545	2.1226
								648	0.435	2.1297
								653	0.378	2.1359
								658	0.336	2.1411
								703	0.294	2.1456
								713	0.234	2.1535
								723	0.183	2.1597
								733	0.154	2.1646
								743	0.126	2.1688
								753	0.107	2.1722
								803	0.096	2.1752

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

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS				WATERSHED Y-14			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 31, 1974 (CONTINUED)										
							10-31	813	0.080	2.1778
								823	0.074	2.1801
								828	0.113	2.1814
								830	0.175	2.1823
								831	0.427	2.1832
								832	1.330	2.1856
								833	2.899	2.1914
								834	3.690	2.2028
								835	4.858	2.2147
								836	5.394	2.2289
								837	5.644	2.2441
								838	6.076	2.2644
								839	6.691	2.2821
								840	7.799	2.3021
								841	8.515	2.3247
								842	8.846	2.3547
								843	8.902	2.3793
								844	8.874	2.4038
								845	8.245	2.4335
								846	7.722	2.4555
								848	6.300	2.4943
								850	5.560	2.5313
								852	5.152	2.5609
								854	4.446	2.5908
								856	3.955	2.6140
								858	3.263	2.6365
								901	2.649	2.6631
								904	2.144	2.6846
								907	1.833	2.7011
								910	1.597	2.7166
								913	1.416	2.7301
								918	1.215	2.7492
								923	1.077	2.7667
								928	1.048	2.7821
								933	1.077	2.7975
								938	1.168	2.8146
								943	1.280	2.8324
								948	1.313	2.8512
								953	1.390	2.8718
								958	1.207	2.8907
								1003	1.033	2.9069
								1008	0.935	2.9219
								1013	0.818	2.9346
								1018	0.710	2.9457
								1023	0.600	2.9557
								1028	0.507	2.9638
								1033	0.427	2.9705
								1038	0.347	2.9764
								1043	0.315	2.9812
								1048	0.262	2.9854
								1053	0.217	2.9890
								1100	0.183	2.9931
								1120	0.118	3.0020
								1140	0.083	3.0079
								1200	0.063	3.0122
								1230	0.046	3.0170
								1300	0.035	3.0206
								1400	0.022	3.0257
								1600	0.010	3.0313
								1800	0.006	3.0342
								2400	0.002	3.0384

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



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EVENT OF OCTOBER 31, 1974

RIESEL (WACO), TEXAS WATERSHED Y-14

HIESEL (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)														HIESEL (WACO), TEXAS WATERSHED W-12
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	2.14	1.04	1.58	3.55	2.04	0.47	1.19	7.12	8.93	6.91	4.56	1.69	41.22
	Q	0.141	0.011	0.0	0.570	0.189	0.0	0.0	0.294	3.235	3.234	1.233	0.011	8.918
STA AV	P	2.04	1.87	2.53	3.29	2.74	2.93	3.57	3.42	4.73	5.84	2.47	2.72	38.14
	Q	0.119	0.029	0.489	0.398	0.250	0.702	0.285	0.133	0.669	1.131	0.597	0.606	5.408

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.	
	9-17	1.597	9-17	1.295	9-17	1.721	10-31	2.576	10-31	2.977	10-30	3.226	10-30	3.234	10-30	3.256
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.

1974 DAILY PRECIPITATION (inches)														HIESEL (WACO), TEXAS WATERSHED W-12
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01E	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.61	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	0.31	0.0	
5	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	
8	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.04	0.0	0.0	
9	0.04E	0.0	0.07E	0.0	0.0	0.25	0.0	0.0	0.36	0.0	0.07	0.0	0.0	
10	0.13	0.0	0.22	0.0	0.15	0.0	0.0	0.0	1.04	0.0	0.44	0.0	0.71	
11	0.0	0.0	0.05E	1.05	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.21	0.0	0.0	0.22	0.0	0.0	0.61	0.0	0.0	0.0	0.0	
13	0.04E	0.0	0.0	1.71	0.0	0.0	0.0	0.0	1.07	0.0	0.0	0.0	0.0	
14	0.0	0.05E	0.31	0.0	0.0	0.0	0.18	0.0	0.59	0.85	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	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	0.16	0.0	0.90	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	3.35	0.0	0.0	0.0	0.0	
18	0.46	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.41	0.0	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	
23	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.30	0.0	0.0	
24	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.15E	0.26	0.29	0.0	
25	0.47	0.0	0.28	0.0	0.0	0.0	0.0	0.10E	0.19	0.0	0.0	0.0	0.0	
26	0.29	0.0	0.0	0.0	0.0	0.0	0.27E	2.08	0.01E	0.0	0.0	0.0	0.09E	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.09E	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.81	0.0	0.05E	0.0	
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.70	0.0	0.0	0.35	0.06E	0.0	
30	0.0	0.0	0.0	0.26	0.0	0.0	0.0	1.04	0.0	1.62	0.0	0.06E	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	3.48	0.0	0.17E	0.0	
TOTAL	2.14	1.04	1.58	3.55	2.04	0.47	1.19	7.12	8.93	6.91	4.56	1.69		
STA AV	2.04	1.87	2.53	3.29	2.74	2.93	3.57	3.42	4.73	5.84	2.47	2.72		

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W1B. Records began October 1, 1969. STA AV based on 6 yr (1969-74) record period. Estimate codes may indicate that non-significant event totals are included.

1974 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	0.077	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	0.001	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	0.018	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	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	0.019	0.0	0.039	0.004
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.002	0.0 T
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	0.222	0.0	0.0	0.0	0.0	0.070	0.0	0.0	0.0
14	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.057	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.162	0.0	0.0	0.0
18	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032	0.0	0.0	0.0
19	0.001	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	0.005	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	0.329	0.0
24	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.120	0.0
25	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.046	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 T	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	0.019	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.0	0.102	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.243	0.0	0.0
MEAN	0.0019	0.0002	0.0	0.0079	0.0025	0.0	0.0	0.0040	0.0448	0.0434	0.0171	0.0001
INCHES	0.141	0.011	0.0	0.570	0.189	0.0	0.0	0.294	3.235	3.234	1.233	0.011
STA AV	0.119	0.029	0.489	0.398	0.250	0.702	0.285	0.133	0.669	1.131	0.597	0.606

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.404207. STA AV based on 6 yr (1969-74) record period.

1974 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 OCTOBER 30 - 31, 1974											
10-30	RG 000W1B 1.62	0.244	10-30	2400	0.0	0.0	10-30	2400	0.037	0.0	
			10-31	35	0.0	0.0	10-31	107	0.046	0.0046	
				105	0.0600	0.03		157	0.037	0.0081	
				155	0.0	0.03		227	0.063	0.0106	
				205	0.4800	0.11		247	0.063	0.0127	
WATERSHED CONDITIONS: 97% sorghum; 3% Bermudagrass waterway, good cover.				235	0.0	0.11		252	0.074	0.0133	
				245	0.0600	0.12		257	0.089	0.0140	
				255	0.3000	0.17		302	0.113	0.0148	
				305	0.3000	0.22		307	0.144	0.0159	
				310	1.6800	0.36		310	0.171	0.0167	
				315	6.0000	0.86		311	0.220	0.0170	
				320	2.5199	1.07		312	0.267	0.0174	
				335	0.0	1.07		313	0.351	0.0179	
				345	0.2401	1.11		314	0.480	0.0186	
				400	0.0	1.11		315	0.722	0.0197	
				405	0.4799	1.15		316	1.577	0.0215	
				410	1.0800	1.24		317	3.419	0.0255	
				415	1.8001	1.39		318	5.320	0.0323	
				435	0.2400	1.47		319	7.466	0.0498	
				450	0.2000	1.52		320	9.233	0.0579	
				505	1.0800	1.79		321	10.699	0.0735	
				510	1.3200	1.90		322	11.964	0.0912	
				515	1.5601	2.03		323	12.787	0.1154	
				520	0.6000	2.08		324	13.104	0.1357	
				525	0.5999	2.13		325	13.633	0.1561	
				530	0.8401	2.20		327	12.405	0.2009	
				535	0.9600	2.28		329	11.664	0.2386	
				540	0.0	2.28		331	10.605	0.2778	
				555	0.8800	2.50		333	9.579	0.3094	
				600	0.7200	2.56		335	8.673	0.3415	

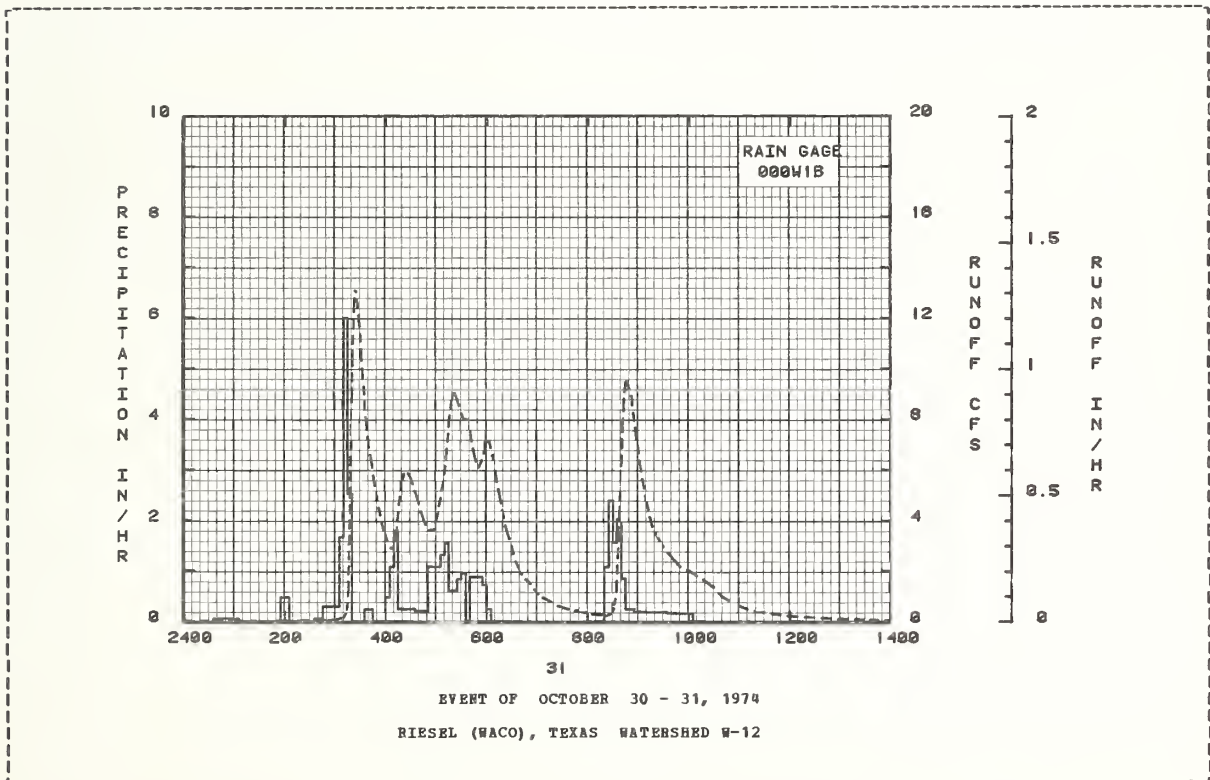
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.

1974 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED W-12							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
10-31	605	0.2401	2.58	10-31	337	7.899	0.3675			
	820	0.0	2.58		340	6.857	0.4050			
	825	1.0800	2.67		343	6.370	0.4387			
	830	2.4000	2.87		347	5.380	0.4777			
	835	1.5601	3.00		352	4.475	0.5182			
	840	2.0400	3.17		357	3.687	0.5534			
	845	0.8399	3.24		402	3.179	0.5816			
	855	0.2401	3.28		407	2.866	0.6064			
	905	0.1800	3.31		410	2.922	0.6211			
	935	0.1800	3.40		413	3.435	0.6373			
	1005	0.1600	3.48		416	4.659	0.6579			
					419	5.462	0.6836			
					422	5.862	0.7102			
					427	5.884	0.7608			
					432	5.442	0.8073			
					437	4.944	0.8500			
					442	4.331	0.8899			
					447	3.833	0.9234			
					452	3.607	0.9540			
					457	3.655	0.9853			
					502	4.295	1.0179			
					507	5.259	1.0572			
					512	6.530	1.1079			
					515	7.873	1.1446			
					518	8.728	1.1835			
					520	9.034	1.2148			
					522	9.006	1.2431			
					527	8.509	1.3185			
					532	8.003	1.3863			
					537	7.977	1.4520			
					542	7.121	1.5169			
					547	6.325	1.5722			
					550	6.102	1.6038			
					554	6.393	1.6454			
					557	6.692	1.6786			
					600	7.194	1.7140			
					602	7.145	1.7364			
					607	6.553	1.7927			
					612	5.524	1.8447			
					617	4.677	1.8866			
					622	3.784	1.9213			
					627	3.268	1.9517			
					632	2.664	1.9761			
					637	2.182	1.9960			
					642	1.874	2.0134			
					647	1.670	2.0280			
					652	1.488	2.0410			
					657	1.263	2.0528			
					702	1.089	2.0625			
					707	0.949	2.0708			
					717	0.774	2.0853			
					727	0.604	2.0969			
					737	0.494	2.1060			
					747	0.417	2.1136			
					757	0.351	2.1201			
					807	0.306	2.1255			
					817	0.267	2.1303			
					822	0.252	2.1324			
					827	0.302	2.1348			
					829	0.374	2.1359			
					831	0.516	2.1374			
					832	0.699	2.1384			
					833	0.903	2.1396			
					834	1.239	2.1417			
					835	1.632	2.1440			
					836	2.612	2.1473			
					837	3.450	2.1521			
					838	4.260	2.1596			
					839	5.279	2.1671			
					840	6.280	2.1761			
					841	7.218	2.1867			
					842	8.029	2.2016			
					843	8.811	2.2148			
					845	9.492	2.2470			
					847	9.521	2.2768			

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

1974 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 OCTOBER 30 - 31, 1974 (CONTINUED)											
							10-31	849	9.204	2.3097	
								852	8.838	2.3521	
								857	7.541	2.4226	
								902	6.235	2.4792	
								907	5.259	2.5264	
								912	4.420	2.5681	
								917	3.752	2.6016	
								922	3.389	2.6310	
								930	2.964	2.6745	
								940	2.509	2.7195	
								950	2.158	2.7587	
								1000	2.008	2.7938	
								1010	1.814	2.8252	
								1020	1.587	2.8538	
								1030	1.352	2.8785	
								1040	0.990	2.8978	
								1050	0.785	2.9127	
								1100	0.635	2.9247	
								1110	0.485	2.9339	
								1120	0.413	2.9414	
								1130	0.355	2.9479	
								1140	0.316	2.9534	
								1200	0.217	2.9624	
								1220	0.179	2.9689	
								1240	0.138	2.9742	
								1300	0.113	2.9784	
								1400	0.037	2.9859	
								1500	0.010	2.9883	
								1600	0.004	2.9890	
								1800	0.0	2.9894	

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



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
1974	P	2.14	1.04	1.58	3.55	2.04	0.47	1.19	7.12	8.93	6.91	4.56	1.69	41.22
	Q	0.100	0.016	0.0	0.763	0.141	0.0	0.0	0.203	3.392	3.951	1.516	0.012	10.093
STA AV	P	2.04	1.87	2.53	3.29	2.74	2.93	3.57	3.42	4.73	5.84	2.47	2.72	38.14
	Q	0.118	0.026	0.459	0.449	0.393	0.717	0.276	0.082	0.718	1.102	0.600	0.581	5.521

ANNUAL MAXIMUM DISCHARGE (cu/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.	
1974	9-17	1.861	9-17	1.447	9-17	2.021	10-31	3.004	10-31	3.652	10-30	3.942	10-30	3.951	10-30	3.985
MAXIMUMS FOR PERIOD OF RECORD																
	7-6	3.317	6-3	1.669	9-17	2.021	10-31	3.004	10-31	3.652	10-30	3.942	10-30	3.951	10-30	3.985
	1973		1973		1974		1974		1974		1974		1974		1974	

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. 42.040-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage #1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1974	DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED W-13
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01E	0.0	0.0	0.0	1.24	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	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.61	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	0.31	0.0	
5	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	
6	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	
8	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.04	0.0	
9	0.04E	0.0	0.07E	0.0	0.0	0.25	0.0	0.0	0.36	0.0	0.07	0.0	
10	0.13	0.0	0.22	0.0	0.15	0.0	0.0	0.0	1.04	0.0	0.44	0.71	
11	0.0	0.0	0.05E	1.05	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.21	0.0	0.0	0.22	0.0	0.0	0.61	0.0	0.0	0.0	
13	0.04E	0.0	0.0	1.71	0.0	0.0	0.0	0.0	1.07	0.0	0.0	0.0	
14	0.0	0.05E	0.31	0.0	0.0	0.0	0.18	0.0	0.59	0.85	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.90	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.35	0.0	0.0	0.0	
18	0.46	0.15	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	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.41	0.0	0.0	0.0	1.72	0.0	0.0	0.0	0.0	
23	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.30	0.0	
24	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.15E	0.26	0.29	
25	0.47	0.0	0.28	0.0	0.0	0.0	0.0	0.10E	0.19	0.0	0.0	0.0	
26	0.29	0.0	0.0	0.0	0.0	0.0	0.27E	2.08	0.01E	0.0	0.0	0.09E	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.09E	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.81	0.0	0.05E	
29	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.70	0.0	0.0	0.35	0.06E	
30	0.0	0.0	0.0	0.26	0.0	0.0	0.0	1.04	0.0	1.62	0.0	0.06E	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	3.48	0.0	0.17E	
TOTAL	2.14	1.04	1.58	3.55	2.04	0.47	1.19	7.12	8.93	6.91	4.56	1.69	
STA AV	2.04	1.87	2.53	3.29	2.74	2.93	3.57	3.42	4.73	5.84	2.47	2.72	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage #1B. Records began October 1, 1969. STA AV based on 6 yr (1969-74) record period. Estimate codes may indicate that non-significant event totals are included.

1974 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	0.064	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 T	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	0.003	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	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0	0.087	0.005
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.005	0.001
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
13	0.0	0.0	0.0	0.319	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.043	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	0.002	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.495	0.0	0.0	0.0
18	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.079	0.0	0.0	0.0
19	0.005	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	0.007	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	0.399	0.0
24	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.185	0.0
25	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
26	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.001	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	0.008	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.057	0.0	0.131	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.745	0.0	0.0
MEAN	0.0015	0.0003	0.0	0.0121	0.0022	0.0	0.0	0.0031	0.0537	0.0605	0.0240	0.0002
INCHES	0.100	0.016	0.0	0.763	0.141	0.0	0.0	0.203	3.392	3.951	1.516	0.012
STA AV	0.118	0.026	0.459	0.449	0.393	0.717	0.276	0.082	0.718	1.102	0.660	0.581

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 2.106341. Records began October 1, 1969. STA AV based on 6 yr (1969-74) record period.

1974 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 OCTOBER 30 - 31, 1974												
10-30	RG 000W1B 1.62	0.276	10-30	RG 000W1B 2400	0.0	0.0	10-30	2400	0.054	0.0		
			10-31	35	0.0	0.0	10-31	100	0.057	0.0049		
				105	0.0600	0.03		150	0.043	0.0086		
				155	0.0	0.03		200	0.059	0.0093		
				205	0.4800	0.11		220	0.086	0.0114		
WATERSHED CONDITIONS: 97% sorghum; 3% Beraudagrass waterway, good cover.				235	0.0	0.11		240	0.091	0.0140		
				245	0.0600	0.12		245	0.106	0.0148		
				255	0.3000	0.17		250	0.142	0.0156		
				305	0.3000	0.22		255	0.189	0.0168		
				310	1.6800	0.36		300	0.262	0.0185		
				315	6.0000	0.86		303	0.326	0.0197		
				320	2.5199	1.07		305	0.430	0.0209		
				335	0.0	1.07		306	0.618	0.0216		
				345	0.2401	1.11		307	1.038	0.0228		
				400	0.0	1.11		308	1.522	0.0250		
				405	0.4799	1.15		309	2.496	0.0277		
				410	1.0800	1.24		310	3.551	0.0319		
				415	1.8001	1.39		311	4.326	0.0373		
				435	0.2400	1.47		312	5.079	0.0453		
				450	0.2000	1.52		313	5.610	0.0527		
				505	1.0800	1.79		314	6.241	0.0608		
				510	1.3200	1.90		315	6.914	0.0720		
				515	1.5601	2.03		316	7.479	0.0819		
				520	0.6000	2.08		317	8.720	0.0930		
				525	0.5999	2.13		318	9.226	0.1053		
				530	0.8401	2.20		320	10.172	0.1353		
				535	0.9600	2.28		322	11.273	0.1647		
				540	0.0	2.28		324	11.436	0.1997		
				555	0.8800	2.50		326	11.143	0.2307		
				600	0.7200	2.56		330	10.729	0.2981		

NOTES: To convert runoff in CPS to IR/8R, multiply by 0.087764.

1974

SELECTED RUNOFF EVENT

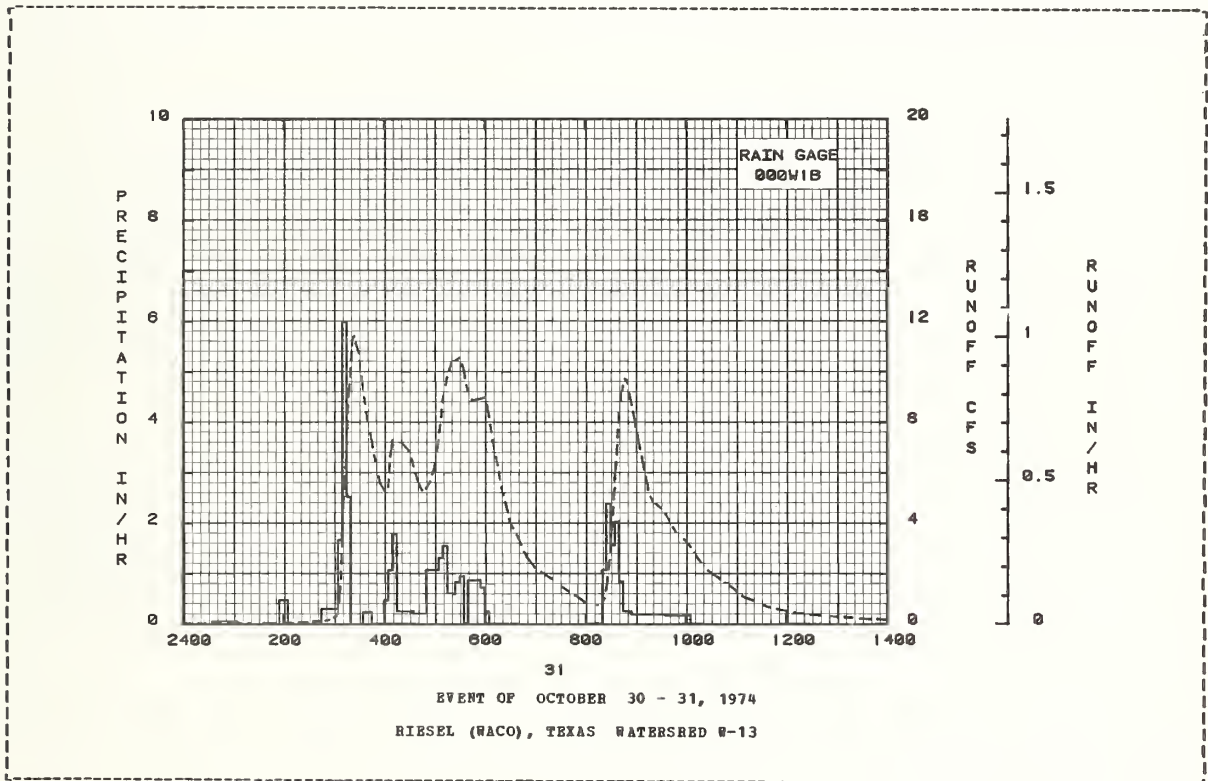
RIESEL (WACO), TEXAS WATERSHED W-13

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
10-31	605	0.2401				2.58	10-31	335	9.313	0.3703
	820	0.0				2.58		340	8.151	0.4332
	825	1.0800				2.67		345	7.304	0.4914
	830	2.4000				2.87		350	6.445	0.5409
	835	1.5601				3.00		355	5.589	0.5842
	840	2.0400				3.17		400	5.300	0.6253
	845	0.8399				3.24		405	5.464	0.6641
	855	0.2401				3.28		408	6.771	0.6913
	905	0.1800				3.31		410	7.304	0.7106
	935	0.1800				3.40		420	7.230	0.8177
	1005	0.1600				3.48		430	6.842	0.9215
								440	5.695	1.0117
								445	5.300	1.0532
								450	5.402	1.0917
								455	5.673	1.1316
								500	6.241	1.1765
								505	7.329	1.2254
								510	8.887	1.2837
								515	9.811	1.3542
								520	10.356	1.4268
								530	10.573	1.5811
								535	10.051	1.6553
								540	9.112	1.7243
								545	8.887	1.7922
								600	8.999	1.9884
								605	8.204	2.0503
								610	7.205	2.1058
								615	6.309	2.1568
								620	5.402	2.1989
								625	4.769	2.2355
								630	4.063	2.2688
								640	3.410	2.3226
								650	2.651	2.3673
								700	2.233	2.4033
								710	2.002	2.4338
								720	1.787	2.4617
								730	1.531	2.4862
								740	1.299	2.5066
								750	1.089	2.5242
								800	0.849	2.5384
								810	0.782	2.5502
								815	0.740	2.5559
								820	0.837	2.5616
								823	1.031	2.5658
								825	1.382	2.5691
								827	1.867	2.5741
								829	2.547	2.5801
								831	3.425	2.5893
								833	4.362	2.6000
								834	5.119	2.6082
								835	5.931	2.6157
								837	6.445	2.6327
								838	7.132	2.6443
								840	8.338	2.6655
								842	8.915	2.6922
								845	9.458	2.7331
								847	9.722	2.7594
								850	9.545	2.8023
								855	8.692	2.8680
								900	7.810	2.9302
								905	6.938	2.9833
								910	6.129	3.0303
								915	5.320	3.0735
								920	4.865	3.1102
								930	4.600	3.1799
								940	4.097	3.2426
								950	3.519	3.2987
								1000	3.303	3.3490
								1010	2.799	3.3929
								1020	2.322	3.4307
								1030	2.013	3.4626
								1040	1.797	3.4900
								1050	1.567	3.5148
								1100	1.299	3.5360
								1110	1.052	3.5529

NOTES: To convert rnoff in CPS to IN/HR, multiply by 0.087764.

1974 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED #13							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 30 - 31, 1974 (CONTINUED)										
							10-31	1120	0.921	3.5674
								1130	0.776	3.5799
								1140	0.656	3.5902
								1200	0.505	3.6074
								1220	0.401	3.6205
								1240	0.344	3.6314
								1300	0.285	3.6407
								1330	0.207	3.6515
								1400	0.157	3.6595
								1430	0.110	3.6653
								1500	0.069	3.6692
								1600	0.022	3.6732
								1700	0.005	3.6744
								1800	0.0	3.6746

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



MONTICELLO, ILLINOIS (ALLERTON) 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. 88 deg. 38 min. 45 sec. W.

AREA: 82.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														MONTICELLO, ILLINOIS (ALLERTON)		WATERSHED IA	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1960	P	1.28	1.45	0.69	2.86	3.65	5.74	2.00	1.14	2.63	1.93	2.51	0.91	26.79			
	Q	0.0	0.0	0.0	0.0	0.0	0.089	0.000	0.0	0.0	0.0	0.0	0.0	0.089			
1961	P	0.0	1.59	2.99	4.53	5.26	4.86	3.10	2.12	3.84	3.59	3.20	2.26	37.34			
	Q	0.0	0.000	0.0	0.000	1.556	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.556			
1962	P	3.27	1.03	2.22	1.84	4.40	1.72	5.24	2.64	1.88	1.46	1.22	0.0	26.92			
	Q	0.001	0.081	0.460	0.0	0.004	0.0	0.037	0.002	0.0	0.0	0.0	0.0	0.585			
1963	P	0.95	0.36	4.67	3.39	0.69	0.83	3.33	5.35	0.22	1.86	1.61	0.40	23.66			
	Q	0.0	0.0	0.675	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.680			
1964	P	1.46	0.86	3.83	8.33	0.46	4.02	3.62	2.52	2.20	0.0	3.47	1.45	32.22			
	Q	0.0	0.0	0.068	2.026	0.0	0.165	0.023	0.0	0.0	0.0	0.0	0.0	2.286			
1965	P	3.15	1.07	2.09	5.27	1.69	3.91	3.13	5.90	7.04	1.21	1.00	2.66	38.12			
	Q	0.0	0.0	0.0	0.206	0.0	0.000	0.0	0.0	0.006	0.0	0.0	0.0	0.212			
1966	P	0.22	2.06	1.09	4.59	2.20	1.01	2.34	2.58	5.95	1.64	3.69	3.73	31.10			
	Q	0.0	0.000	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.283	0.313			
1967	P	2.52	1.06	2.49	1.74	5.40	2.64	2.73	2.76	2.75	4.11	2.11	6.46	36.77			
	Q	0.094	0.003	0.004	0.000	0.005	0.001	0.0	0.0	0.0	0.0	0.0	0.804	0.910			
1968	P	2.11	1.46	1.35	3.77	6.76	6.10	2.18	1.37	2.34	0.26	4.29	1.67	33.66			
	Q	0.017	0.0	0.0	0.002	0.109	0.537	0.0	0.0	0.0	0.0	0.0	0.0	0.665			
1969	P	3.00	1.02	0.40	3.29	1.45	1.09	3.07	2.02	6.92	4.93	2.73	0.55	30.47			
	Q	0.129	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.012	0.0	0.169			
STA AV	P	1.91	1.67	2.23	3.85	3.38	3.71	3.41	2.69	2.83	2.73	2.25	1.92	32.56			
	Q	0.103	0.158	0.111	0.174	0.110	0.137	0.079	0.008	0.001	0.080	0.003	0.089	1.055			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	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.
1960	6-23	0.059	6-23	0.049	6-23	0.078	6-23	0.089	6-22	0.089	6-22	0.089	6-21	0.089	6-15	0.089
1961	5-8	1.084	5-8	0.687	5-8	0.971	5-8	1.499	5-8	1.554	5-7	1.556	5-6	1.556	4-30	1.556
1962	3-20	0.147	3-20	0.134	3-20	0.231	3-20	0.430	3-20	0.459	3-20	0.459	3-19	0.459	3-13	0.459
1963	3-5	0.145	3-5	0.132	3-5	0.229	3-5	0.461	3-4	0.650	3-4	0.667	3-4	0.675	2-26	0.675
1964	4-20	1.197	4-20	0.550	4-20	0.794	4-20	1.327	4-20	1.552	4-19	1.763	4-18	1.960	4-12	1.960
1965	4-5	0.040	4-5	0.034	4-5	0.066	4-5	0.117	4-5	0.119	4-5	0.119	4-5	0.119	4-5	0.199
1966	12-7	0.067	12-7	0.057	12-7	0.096	12-7	0.225	12-7	0.250	12-7	0.254	12-6	0.283	11-30	0.283
1967	12-21	0.203	12-21	0.153	12-21	0.234	12-21	0.323	12-21	0.627	12-20	0.632	12-19	0.632	12-13	0.632
1968	6-15	0.140	6-15	0.107	6-15	0.168	6-15	0.333	6-15	0.336	6-14	0.527	6-13	0.529	6-7	0.529
1969	1-29	0.029	1-29	0.021	1-29	0.040	1-29	0.081	1-29	0.092	1-28	0.093	1-27	0.121	1-21	0.121

MAXIMUMS FOR PERIOD OF RECORD																
	4-20	1.197	5-8	0.687	5-8	0.971	5-8	1.499	5-8	1.554	4-19	1.763	4-18	1.960	4-12	1.960
	1964		1961		1961		1961		1961		1964		1964		1964	

NOTES: For general description of Watershed, see Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States, USDA, AES, 1957 (Reference No. 1), page 61.1-1. Watershed conditions: With the exceptions of 3.8% devoted to roads and 14.7% in permanent grass, the entire area is used in cropping activities. For percentages of the watershed in various crops, by years and planting dates, see table this page. For contour drainage map of watershed see page 61.001-23. Data for 1970 through 1975 will be included in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975. Precipitation values are from the E-1 gage, located about 400 ft. east of streamgaging station. Precipitation and runoff records began August 1949. STA AV precipitation and runoff amounts are for 21 yr (1949-69) period of record. For long-time precipitation records see National Weather Service records at Decatur, Illinois.

CROPS, % BY YEARS WITH PLANTING (P) & HARVEST (R) DATES, WHEN KNOWN

Year	Corn	Wheat	Soybeans	Oats	Ray & Pasture
1960	22.3		19.4	39.8	
1961	13.9		22.3		39.8
1962	45.3	05-20 (P)	34.6	05-23 (P)	1.6
		10-27 TO 11-26 (H)			
1963	6.5	05-08 TO 05-14 (P)	40.4	10-07 TO 10-13 (R)	20.8
		11-14 TO 11-15 (H)			
1964	68.4	05-08 TO 05-15 (P)	3.6	10-17 TO 10-20 (R)	1.9
		10-31 TO 11-05 (R)			7.6
1965	6.5	05-10 TO 05-13 (P)	74.4	10-31 TO 11-04 (H)	
		10-27 TO 11-19 (H)			
1966	21.3	10-29 TO 11-30 (H)	60.2	10-01 TO 10-29 (R)	
1967	53.7		24.8		
1968	24.3	04-29 TO 05-10 (P)	57.2	06-05 TO 06-12 (P)	
		11-30 (H)		10-18 (R)	
1969	43.3	04-30 TO 05-08 (P)	38.2	05-19 TO 06-19 (P)	
		12-02 (H)		10-06 (H)	

Cooperative Research Project of the Agricultural Engineering Department, Univ. of Illinois and USDA

1960 DAILY PRECIPITATION (inches) 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	0.02	0.0	0.0	0.0	0.0	0.0
2	0.03	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	0.22	0.0	0.0	0.0	0.0
4	0.0	0.20	0.0	0.0	0.0	0.13	0.0	0.40	0.0	0.0	0.0	0.0
5	0.0	0.40	0.0	0.0	0.12	0.61	0.0	0.0	0.0	0.11	0.0	0.14
6	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.22	0.0	0.0	0.0	0.23
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	0.20	0.0	0.66	0.0
9	0.0	0.32	0.07	0.0	0.10	0.0	0.32	0.0	0.0	0.0	0.15	0.0
10	0.0	0.07	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
11	0.30	0.0	0.0	0.11	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.54
12	0.31	0.0	0.06	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.08	1.24	0.0	0.0	0.0	0.0	0.0
14	0.20	0.0	0.0	0.10	0.0	0.18	0.0	0.03	0.0	0.20	0.0	0.0
15	0.05	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.08	0.0	1.35	0.0
16	0.0	0.0	0.10	0.23	0.54	0.64	0.0	0.0	1.47	0.0	0.08	0.0
17	0.11	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0
18	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.22	0.09	0.0	0.0
19	0.0	0.0	0.0	0.0	0.32	0.79	0.0	0.11	0.46	0.10	0.0	0.0
20	0.0	0.02	0.0	0.53	0.21	0.52	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.16	0.0	0.04	0.09	0.18	0.0	0.05	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.04	0.0
23	0.0	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.60	0.0	0.04	0.0	0.0	0.0	0.0	0.0
25	0.0	0.13	0.0	0.0	0.79	0.0	0.08	0.0	0.0	0.05	0.0	0.0
26	0.12	0.0	0.0	0.0	0.06	0.0	0.21	0.0	0.0	0.46	0.0	0.0
27	0.08	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.15	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.23	0.0
29	0.03	0.0	0.0	0.68	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.46	0.42	0.0	0.39	0.0	0.0	0.0	0.57	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0
TOTAL	1.28	1.45	0.69	2.86	3.65	5.74	2.00	1.14	2.63	1.93	2.51	0.91
STA AV	1.95	2.09	2.13	3.65	3.57	4.37	3.58	2.44	2.18	3.19	1.99	1.75

NOTES: Precipitation data are from the R-1 gage. STA AV based on 12 yr period (1949-60), part year records included.

1961 DAILY PRECIPITATION (inches) 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	0.39	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	0.70	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.40
5	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.18	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.71	0.37	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.07	0.0	0.81	1.32	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.56	0.0	2.67	0.15	0.0	0.0	0.0	0.0	0.0	0.02
9	0.0	0.0	0.0	0.50	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.11
10	0.0	0.0	0.0	0.0	0.0	0.0	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	0.35	0.17	0.0	0.58
12	0.0	0.0	0.85	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
13	0.0	0.0	0.25	0.05	0.0	0.99	0.0	0.0	1.47	0.08	0.34	0.0
14	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.18	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.17	0.0
16	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.24
17	0.0	1.31	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
18	0.0	0.28	0.72	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.09
19	0.0	0.0	0.05	0.0	0.0	1.54	0.34	0.20	0.0	0.39	0.10	0.26
20	0.0	0.0	0.49	0.0	0.0	0.49	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	0.90	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	1.24	0.0	0.0	0.30	0.0	0.0	0.0	0.90	0.44
23	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.17	0.0	0.01
24	0.0	0.0	0.0	1.49	0.0	0.0	0.0	0.0	1.03	0.56	0.0	0.0
25	0.0	0.0	0.0	0.46	0.22	0.0	0.0	0.0	0.42	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	0.29	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	1.80	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.20	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	0.39	0.42	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	1.59	2.99	4.53	5.26	4.86	3.10	2.12	3.84	3.59	3.20	2.26
STA AV	1.79	2.05	2.20	3.72	3.71	4.41	3.54	2.42	2.31	3.22	2.08	1.79

NOTES: Precipitation data are from the R-1 gage. STA AV based on 13 yr period (1949-61), part year records included.

1962		DAILY PRECIPITATION (inches)					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	0.11	0.30	0.0	0.13	0.0	0.0	0.32	0.0	0.0
2	0.0	0.0	0.0	0.0	0.03	0.0	0.54	0.0	0.0	0.31	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.0	0.55	0.0	0.0	0.0
4	0.0	0.0	0.0	0.06	0.0	0.62	0.0	0.0	0.0	0.0	0.08	0.0
5	0.52	0.0	0.0	0.19	0.0	0.0	0.0	1.52	0.0	0.0	0.0	0.0
6	1.02	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.12	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	0.21	0.99	0.10	0.09	0.0	0.26	0.0	0.0	0.0
9	0.0	0.0	0.27	0.0	0.0	0.22	0.0	0.0	0.97	0.0	0.0	0.0
10	0.0	0.0	0.04	0.0	0.92	0.78	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.26	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.60	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.02	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.0
14	0.68	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
15	0.12	0.0	0.0	0.0	0.0	0.0	1.38	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	0.52	0.0
17	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0
20	0.0	0.0	1.40	0.0	0.02	0.0	0.0	0.0	0.0	0.56	0.0	0.0
21	0.09	0.26	0.25	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0
22	0.03	0.0	0.0	0.03	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.15	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	0.24	0.10	0.0	0.0	0.0
25	0.08	0.20	0.0	0.0	0.20	0.0	0.0	0.37	0.0	0.0	0.0	0.0
26	0.73	0.10	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.15	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	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	1.09	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.27	1.03	2.22	1.84	4.40	1.72	5.24	2.64	1.88	1.46	1.22	0.0
STA AV	1.90	1.97	2.20	3.58	3.76	4.20	3.67	2.43	2.28	3.09	2.02	1.66

NOTES: Precipitation data are from the R-1 gage. STA AV based on 14 yr period (1949-62), part year records included.

1963		DAILY PRECIPITATION (inches)					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	0.0	0.0	0.17	0.0	0.0	0.0
3	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0
4	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0
5	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.29	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	1.35	1.60	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	0.13
8	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.07
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	0.14	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0
11	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
12	0.0	0.0	0.17	0.0	0.35	0.0	0.0	0.34	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.79	0.06	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.07	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.08	0.0	0.34	0.0	0.0
19	0.21	0.0	0.33	0.17	0.0	0.0	0.0	1.49	0.0	1.45	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	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.19	0.0	0.0	0.61	0.0	0.0	0.0	0.10	0.0	0.0	1.17	0.0
23	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.15	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	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.06	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.01	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.07	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.40	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	1.38	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	0.26	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0
TOTAL	0.95	0.36	4.67	3.39	0.69	0.83	3.33	5.35	0.22	1.86	1.61	0.40
STA AV	1.84	1.85	2.38	3.57	3.54	3.96	3.65	2.63	2.14	3.01	1.99	1.58

NOTES: Precipitation data are from the R-1 gage. STA AV based on 15 yr period (1949-63), part year records included.

1964		DAILY PRECIPITATION (inches)					MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IA	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.38	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	1.05	0.0	0.15	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	0.25	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	1.12	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.11	
6	0.0	0.0	0.0	0.0	0.13	0.20	1.69	0.0	0.0	0.0	0.0	0.24	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	
8	0.11	0.0	1.30	0.0	0.11	0.0	0.24	0.0	0.0	0.0	0.0	0.20	
9	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.12	
11	0.07	0.0	0.18	0.0	0.10	0.0	0.45	0.0	0.0	0.0	0.0	0.29	
12	1.28	0.26	0.09	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.09	
13	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.10	0.0	0.0	0.33	0.38	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	1.86	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	
18	0.0	0.13	0.0	0.10	0.0	0.0	0.21	0.0	0.14	0.0	0.0	0.0	
19	0.0	0.09	0.05	2.32	0.12	0.0	0.0	0.0	0.0	0.0	0.17	0.0	
20	0.0	0.0	0.33	2.92	0.0	1.89	0.0	0.0	0.42	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.50	0.0	0.84	0.0	1.59	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.07	
25	0.0	0.0	1.47	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.24	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.05	0.0	1.34	0.06	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
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	0.07	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.46	0.86	3.83	8.33	0.46	4.02	3.62	2.52	2.20	0.0	3.47	1.45	
STA AV	1.81	1.79	2.47	3.88	3.34	3.97	3.65	2.62	2.14	2.82	2.08	1.57	

NOTES: Precipitation data are from the R-1 gage. STA AV based on 16 yr period (1949-64), part year records included.

1965		DAILY PRECIPITATION (inches)					MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IA	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.51	0.13	0.0	0.0	0.0	2.48	0.0	0.08	0.0	0.0	0.0	0.0	
2	0.10	0.0	0.38	0.0	0.0	0.05	0.89	0.0	0.0	0.0	0.0	0.07	
3	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.56	0.0	0.46	0.0	0.0	0.48	0.17	0.0	0.0	0.0	
5	0.0	0.0	0.0	1.89	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	0.21	0.20	0.0	0.0	0.0	0.44	0.07	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.11	0.0	0.13	0.0	0.0	
8	0.31	0.0	0.0	0.0	0.0	0.05	0.0	0.15	0.0	0.0	0.32	0.0	
9	0.0	0.20	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.05	
10	0.0	0.70	0.0	0.28	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.19	
11	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.26	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.15	
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	0.04	0.0	0.76	0.0	0.0	0.0	0.0	2.02	0.0	0.0	0.0	
15	0.24	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	
16	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.58	2.15	0.0	0.0	0.0	
17	0.0	0.0	0.29	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.79	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	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.11	0.05	0.0	0.06	
21	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.09	0.0	
22	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.12	1.94	0.23	0.0	0.0	
23	0.06	0.0	0.57	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.09	
25	0.0	0.0	0.11	0.91	0.06	0.0	0.0	1.47	0.0	0.0	0.03	0.15	
26	0.0	0.0	0.02	0.0	0.56	0.0	0.0	0.77	0.0	0.0	0.24	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	0.14	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	0.13	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	0.73	0.60	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.52	0.0	0.0	0.0	0.64	
TOTAL	3.15	1.07	2.09	5.27	1.69	3.91	3.13	5.90	7.04	1.21	1.00	2.66	
STA AV	1.89	1.74	2.45	3.97	3.23	3.96	3.61	2.81	2.43	2.73	2.02	1.64	

NOTES: Precipitation data are from the R-1 gage. STA AV based on 17 yr period (1949-65), part year records included.

1966		DAILY PRECIPITATION (inches)					MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IA	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.43	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	0.66	0.0	0.0	0.0	0.0	0.0	0.54	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	1.03	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.31	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.06	0.20	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.66	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.16	0.34	
9	0.0	0.50	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.53	0.81	0.0	
10	0.0	0.51	0.0	0.12	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.16	0.54	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.22	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	1.39	0.16	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.70	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	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.12	0.08	0.0	0.0	0.14	0.0	0.0	0.21	0.0	0.0	
19	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	3.19	0.0	0.0	0.0	
20	0.0	0.0	0.0	1.03	0.06	0.0	0.0	0.0	0.18	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.42	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	1.50	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.45	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.36	0.0	
26	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.07	0.0	0.84	0.0	
27	0.0	0.0	0.0	0.45	0.0	0.27	0.0	0.0	0.20	0.0	1.26	0.0	
28	0.0	0.70	0.0	0.12	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.19	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.14	0.0	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	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.22	2.06	1.09	4.59	2.20	1.01	2.34	2.58	5.95	1.64	3.69	3.73	
STA AV	1.80	1.76	2.37	4.01	3.17	3.79	3.54	2.80	2.63	2.67	2.11	1.75	

NOTES: Precipitation data are from the R-1 gage. STA AV based on 18 yr period (1949-66), part year records included.

1967		DAILY PRECIPITATION (inches)					MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IA	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.77	0.0	0.0	0.79	0.08	0.0	0.0	0.0	0.0	0.19	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	2.00	
3	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	
4	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.07	0.60	0.13	0.47	0.0	0.0	0.0	0.0	0.21	0.0	0.49	
6	0.10	0.0	0.17	0.0	1.42	0.24	0.0	0.0	0.0	0.05	0.0	0.13	
7	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.11	0.0	0.0	0.35	0.0	0.61	0.0	0.43	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.60	0.11	0.0	0.0	0.14	0.0	0.52	
10	0.0	0.0	0.0	0.0	0.12	0.37	0.0	0.0	0.0	0.0	0.15	0.18	
11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.20	0.85	
12	0.0	0.0	0.0	0.23	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.31	0.05	0.0	
14	0.0	0.0	0.0	0.0	0.20	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	0.29	0.0	0.0	
16	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.06	0.08	0.27	0.25	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	1.50	0.0	0.0	0.0	
19	0.0	0.0	0.28	0.0	0.0	0.0	0.20	0.44	0.33	0.0	0.0	0.0	
20	0.0	0.0	1.09	0.11	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.13	
21	0.0	0.0	0.0	0.18	0.0	0.60	0.0	0.0	0.0	0.0	0.0	1.61	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
23	0.0	0.0	0.0	0.20	0.0	0.0	1.41	0.0	0.0	0.0	0.0	0.0	
24	0.36	0.96	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.46	0.0	0.0	
25	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	
26	1.38	0.0	0.21	0.04	0.0	0.0	0.57	0.81	0.30	0.18	0.0	0.0	
27	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.09	0.0	0.11	
28	0.0	0.16	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.26	0.08	0.0	0.0	0.0	0.0	0.22	0.04	0.0	
30	0.10	0.0	0.0	0.0	1.63	0.0	0.0	0.0	0.0	0.60	0.41	0.08	
31	0.0	0.0	0.03	0.0	0.02	0.0	0.17	0.0	0.0	0.20	0.0	0.0	
TOTAL	2.52	1.06	2.49	1.74	5.40	2.64	2.73	2.76	2.75	4.11	2.11	6.46	
STA AV	1.84	1.72	2.38	3.88	3.30	3.72	3.49	2.80	2.63	2.74	2.11	2.00	

NOTES: Precipitation data are from the R-1 gage. STA AV based on 19 yr period (1949-67), part year records included.

1968		DAILY PRECIPITATION (inches)										MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03	1.46	0.0	0.0	0.0	0.28	0.15	0.0	0.35	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	0.11	0.06	0.0	
3	0.0	0.0	0.0	1.70	0.0	0.0	0.0	0.29	0.0	0.0	0.07	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	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	0.19	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	
8	0.15	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.09	0.0	0.0	0.0	
9	0.05	0.0	0.0	0.0	0.10	0.0	0.27	0.52	0.0	0.15	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.08	0.15	0.0	0.08	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.40	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.28	0.0	0.0	0.92	0.0	2.01	0.0	0.0	0.0	0.0	0.15	0.0	
15	0.08	0.0	0.70	0.0	1.23	1.72	0.50	0.0	0.0	0.0	1.46	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.15	0.0	0.12	0.0	
17	0.0	0.0	0.0	0.75	0.0	0.0	0.36	0.0	0.89	0.0	0.37	0.0	
18	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.12	
19	0.0	0.0	0.41	0.05	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.10	
20	0.0	0.0	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.16	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	1.49	0.0	0.0	0.0	0.0	0.0	0.0	0.30	
23	0.0	0.0	0.0	0.0	1.22	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	0.83	0.13	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.78	1.04	0.18	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.30	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.22	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.70	
28	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.80	0.32	
29	0.40	0.0	0.0	0.0	0.15	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	0.13	
31	0.20	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.11	1.46	1.35	3.77	6.76	6.10	2.18	1.37	2.34	0.26	4.29	1.67	
STA AV	1.85	1.71	2.32	3.88	3.48	3.85	3.43	2.73	2.62	2.62	2.22	1.98	

NOTES: Precipitation data are from the R-1 gage. STA AV based on 20 yr period (1949-68), part year records included.

1969		DAILY PRECIPITATION (inches)										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	0.01	0.0	0.09	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	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.10	0.0	
5	0.30	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	1.89	0.0	0.0	0.57	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.92	0.40	0.10	0.30	0.10	0.22	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.50	0.10	0.0	0.23	1.75	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	0.78	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.38	0.0	0.10	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.94	0.0	0.0	
13	0.0	0.0	0.0	0.27	0.10	0.0	0.0	0.0	0.0	0.74	0.0	0.0	
14	0.0	0.0	0.0	0.98	0.0	0.20	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	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.18	3.80	0.0	0.0	0.0	
17	0.35	0.0	0.0	0.22	0.0	0.0	0.0	0.0	1.35	0.0	0.95	0.0	
18	0.0	0.0	0.0	1.04	0.08	0.0	0.0	0.0	0.0	0.0	1.65	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	
21	0.0	0.0	0.0	0.08	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
22	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.15	
23	0.30	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.75	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	0.41	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.10	0.0	0.13	0.21	0.0	0.20	0.0	0.0	0.0	
28	0.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.65	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	
31	0.0	0.0	0.0	0.0	0.36	0.0	0.11	0.0	0.0	0.39	0.0	0.05	
TOTAL	3.00	1.02	0.40	3.29	1.45	1.09	3.07	2.02	6.92	4.93	2.73	0.55	
STA AV	1.91	1.67	2.23	3.85	3.38	3.71	3.41	2.69	2.83	2.73	2.25	1.92	

NOTES: Precipitation data are from the R-1 gage. STA AV based on 21 yr period (1949-69), part year records included.

1960		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	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.001	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	0.305	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	0.0102	0.0	0.0	0.0	0.0	0.0	0.0		
INCHES	0.0	0.0	0.0	0.0	0.0	0.089	0.000	0.0	0.0	0.0	0.0	0.0		
STA AV	0.165	0.276	0.092	0.111	0.047	0.185	0.139	0.015	0.002	0.140	0.004	0.066		

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 12 yr period (1949-60), part year records included.

1961		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	0.0	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	5.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	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	0.1729	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
INCHES	0.0	0.000	0.0	0.000	1.556	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
STA AV	0.152	0.253	0.084	0.102	0.173	0.170	0.128	0.014	0.002	0.129	0.003	0.061		

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 13 yr period (1949-61), part year records included.

1962 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	0.0	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	0.037	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	0.008	0.0	0.0	0.0	0.0
6	0.002	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	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.006	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	0.112	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	1.059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.521	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	0.014	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	0.071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.001	0.170	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	0.0099	0.0511	0.0	0.0004	0.0	0.0041	0.0003	0.0	0.0	0.0	0.0
INCHES	0.001	0.081	0.460	0.0	0.004	0.0	0.037	0.002	0.0	0.0	0.0	0.0
STA AV	0.140	0.240	0.113	0.094	0.160	0.157	0.121	0.013	0.002	0.120	0.003	0.057

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 14 yr period (1949-62), part year records included.

1963 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	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	2.284	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.019	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	0.0750	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.675	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.130	0.223	0.153	0.088	0.149	0.146	0.112	0.012	0.001	0.112	0.003	0.053

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 15 yr period (1949-63), part year records included.

1964 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSRED 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	0.0	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	0.222	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	0.078	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	0.175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	1.178	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	5.575	0.0	0.582	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.001	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	0.061	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	0.0976	0.2327	0.0	0.0194	0.0025	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.068	2.026	0.0	0.169	0.023	0.0	0.0	0.0	0.0	0.0
STA AV	0.121	0.208	0.148	0.217	0.139	0.147	0.106	0.011	0.001	0.105	0.003	0.049

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 16 yr period (1949-64), part year records included.

1965 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSRED 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 T	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	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	0.382	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.029	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	0.274	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	0.016	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
15	0.0	0.0	0.0	0.007	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	0.003	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	0.016	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	0.001	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	0.0236	0.0	0.0	0.0	0.0	0.0007	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.206	0.0	0.000	0.0	0.0	0.006	0.0	0.0	0.0
STA AV	0.114	0.195	0.138	0.216	0.130	0.138	0.099	0.010	0.002	0.099	0.003	0.047

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 17 yr period (1949-65), part year records included.

1966 MEAN DAILY DISCHARGE (cfs) BORTICELLO, 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	0.0	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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.875
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.101
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.103	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	0.0034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0315
INCHES	0.0	0.0000	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.283
STA AV	0.107	0.184	0.130	0.205	0.122	0.130	0.093	0.010	0.002	0.093	0.002	0.060

NOTES: To convert CPS to IN/DAY, multiply by 0.290264. STA AV based on 18 yr period (1949-66), part year records included.

1967 MEAN DAILY DISCHARGE (cfs) BORTICELLO, ILLINOIS (ALLERTON) WATERSHED IA												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.001	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.003
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.523
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	0.057
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	0.014	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	2.176
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	0.325	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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0105	0.0003	0.0005	0.0	0.0005	0.0001	0.0	0.0	0.0	0.0	0.0	0.0893
INCHES	0.094	0.003	0.004	0.000	0.005	0.001	0.0	0.0	0.0	0.0	0.0	0.804
STA AV	0.106	0.174	0.123	0.194	0.116	0.123	0.088	0.009	0.001	0.089	0.002	0.099

NOTES: To convert CPS to IN/DAY, multiply by 0.290264. STA AV based on 19 yr period (1949-67), part year records included.

1968 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	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.006	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	T	0.0	0.012	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.006	1.812	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	T	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	T	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.366	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
25	0.0	0.0	0.0	0.0	0.004	0.027	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	0.058	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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0019	0.0	0.0	0.0002	0.0121	0.0617	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.017	0.0	0.0	0.002	0.109	0.537	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.102	0.164	0.117	0.184	0.115	0.145	0.084	0.009	0.001	0.084	0.002	0.094

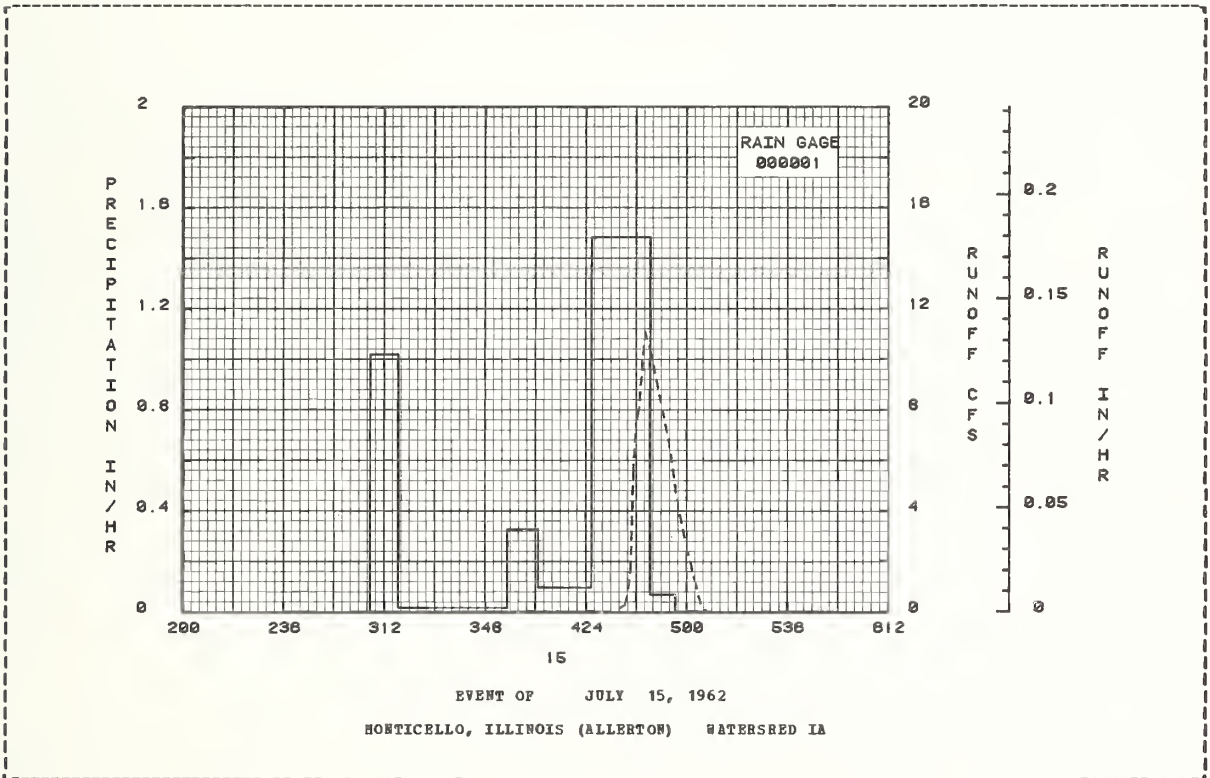
NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 20 yr period (1949-68), part year records included.

1969 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	0.0	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	0.093	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	0.003	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040	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	0.099	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.318	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	0.0143	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	0.0014	0.0
INCHES	0.129	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.012	0.0
STA AV	0.103	0.158	0.111	0.174	0.110	0.137	0.079	0.008	0.001	0.080	0.003	0.089

NOTES: To convert CFS to IN/DAY, multiply by 0.290264. STA AV based on 21 yr period (1949-69), part year records included.

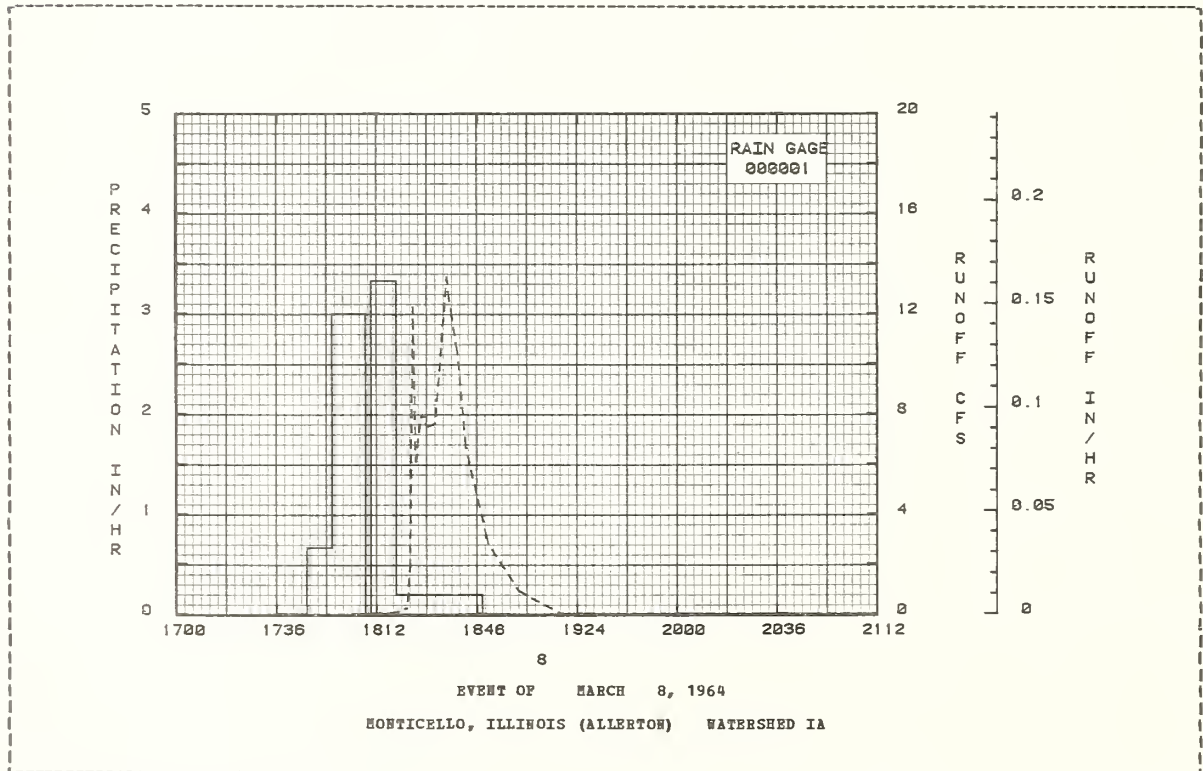
1962 SELECTED RUNOFF EVENT			MORTICELLO, ILLINOIS (ALLERTON)			WATERSHED IA				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 15, 1962										
7-15	RG 000001 0.41	0.002	7-15	RG 000001 307	0.0	0.0	7-15	239	0.0	0.0
				317	1.0200	0.17		318	0.003	0.0
				356	0.0154	0.18		321	0.007	0.0
				407	0.3273	0.24		325	0.0	0.0
				426	0.0947	0.27		432	0.005	0.0001
WATERSHED CONDITIONS: For cropping information, see table, page 61.001-1.				447	1.4857	0.79		434	0.031	0.0001
				456	0.0666	0.80		438	0.262	0.0002
								439	0.646	0.0003
								440	1.678	0.0005
								441	5.833	0.0013
								442	7.594	0.0026
								443	8.097	0.0042
								445	11.077	0.0081
								447	10.328	0.0124
								454	6.502	0.0243
								457	4.102	0.0275
								500	2.531	0.0295
								503	1.187	0.0306
								505	0.310	0.0309
								507	0.0	0.0310

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



1964 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 MARCH 8, 1964										
RG 000001			RG 000001							
3- 8	0.0	0.0	3- 8	1747	0.0	0.0	3- 8	1803	0.0	0.0
				1756	0.6667	0.10		1805	0.024	0.0
				1808	3.0000	0.70		1806	0.023	0.0
				1810	0.0	0.70		1811	0.036	0.0
				1819	3.3333	1.20		1813	0.058	0.0001
WATERSHED CONDITIONS: For cropping information, see table, page 61.001-1.			1850	0.1935	1.30		1814	0.032	0.0001	0.0001
							1816	0.037	0.0001	0.0001
							1820	0.102	0.0001	0.0001
							1822	0.217	0.0002	0.0002
							1823	0.235	0.0002	0.0002
							1824	1.881	0.0005	0.0005
							1825	12.279	0.0019	0.0019
							1826	6.097	0.0037	0.0037
							1828	7.885	0.0066	0.0066
							1829	7.907	0.0081	0.0081
							1830	7.465	0.0097	0.0097
							1833	7.635	0.0143	0.0143
							1837	13.490	0.0228	0.0228
							1838	12.504	0.0254	0.0254
							1839	11.736	0.0278	0.0278
							1841	10.364	0.0323	0.0323
							1844	6.607	0.0374	0.0374
							1852	2.821	0.0450	0.0450
							1903	0.922	0.0492	0.0492
							1918	0.012	0.0506	0.0506
							1923	0.0	0.0506	0.0506
							1926	0.0	0.0506	0.0506
							1933	0.007	0.0506	0.0506

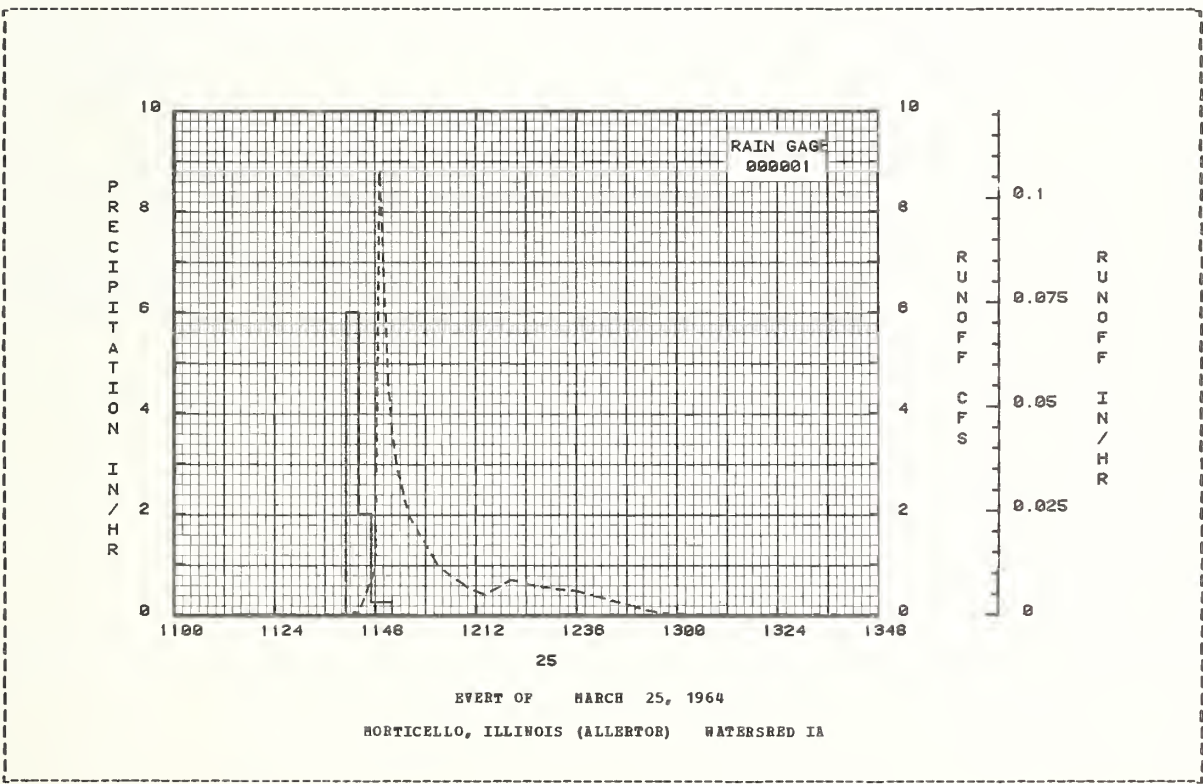
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



1964 SELECTED RUNOFF EVENT			MORTICELLO, ILLINOIS (ALLERTON)				WATERSHED IA			
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 25, 1964										
3-25	RG 000001 0.77	0.000	3-25	RG 000001			3-25			
				1141	0.0	0.0	1140	1140	0.008	0.0
				1144	6.0000	0.30	1141	1141	0.027	0.0
				1147	2.0000	0.40	1143	1143	0.046	0.0
				1152	0.2400	0.42	1144	1144	0.032	0.0
							1148	1148	0.902	0.0004
							1149	1149	8.806	0.0014
							1151	1151	4.691	0.0041
							1152	1152	3.601	0.0049
							1153	1153	2.991	0.0056
							1156	1156	1.964	0.0071
							1203	1203	0.955	0.0091
							1210	1210	0.534	0.0102
							1214	1214	0.395	0.0106
							1216	1216	0.475	0.0107
							1220	1220	0.683	0.0112
							1222	1222	0.659	0.0115
							1226	1226	0.557	0.0120
							1236	1236	0.458	0.0130
							1241	1241	0.353	0.0134
							1248	1248	0.201	0.0138
							1251	1251	0.122	0.0139
							1255	1255	0.039	0.0139
							1301	1301	0.0	0.0140
							1306	1306	0.0	0.0140
							1311	1311	0.005	0.0140

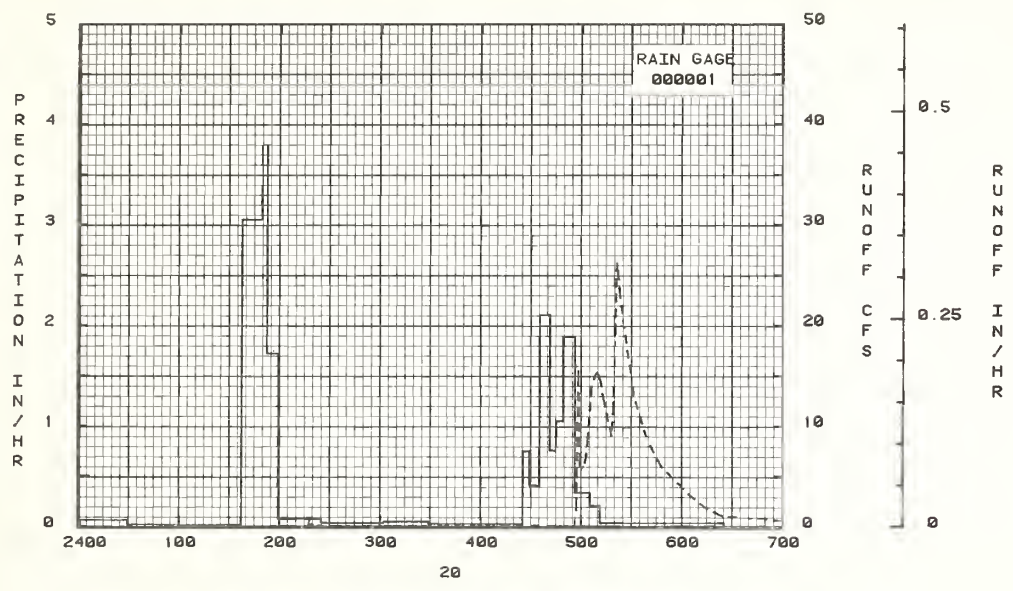
WATERSHED CONDITIONS:
For cropping information,
see table, page 61.001-1.

NOTES: To convert runoff in CFS to I²/DAY, multiply by 0.012094.



1964			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 JUNE 19 - 20, 1964											
6-20	RG 000001 0.0	0.0	6-20	RG 000001 1	0.0	0.0	6-20	217	0.0	0.0	
				29	0.0643	0.03		218	0.644	0.0	
				137	0.0177	0.05		219	0.205	0.0001	
				149	3.0500	0.66		220	0.170	0.0002	
				152	3.8000	0.85		223	0.088	0.0002	
				159	1.7143	1.05		226	0.017	0.0003	
				225	0.0692	1.08		232	0.0	0.0003	
				302	0.0324	1.10		341	0.0	0.0003	
				329	0.0445	1.12		445	0.009	0.0003	
				425	0.0214	1.14		447	0.034	0.0003	
				429	0.7500	1.19		448	0.047	0.0004	
				435	0.4001	1.23		450	0.037	0.0004	
				441	2.0999	1.44		452	0.013	0.0004	
				445	0.7500	1.49		456	0.103	0.0004	
				449	1.0499	1.56		457	2.084	0.0006	
				456	1.8857	1.78		458	15.444	0.0024	
				505	0.3334	1.83		459	5.829	0.0046	
				511	0.2000	1.85		500	5.711	0.0057	
				625	0.0324	1.89		501	5.927	0.0069	
								502	6.309	0.0081	
								503	7.280	0.0095	
								504	9.303	0.0112	
								506	13.898	0.0158	
								508	14.931	0.0217	
								509	15.258	0.0247	
								510	15.033	0.0277	
								512	13.877	0.0336	
								513	12.625	0.0362	
								518	8.874	0.0471	
								519	11.596	0.0491	
								520	20.090	0.0523	
								521	26.159	0.0570	
								522	24.431	0.0621	
								523	22.646	0.0668	
								531	13.050	0.0956	
								539	8.659	0.1131	
								548	5.835	0.1263	
								604	3.172	0.1408	
								615	1.720	0.1462	
								624	1.015	0.1487	
								628	0.938	0.1495	
								637	0.848	0.1511	
								706	0.585	0.1553	
								715	0.664	0.1564	
								720	0.709	0.1571	
								733	0.624	0.1589	
								748	0.526	0.1606	
								848	0.228	0.1652	

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

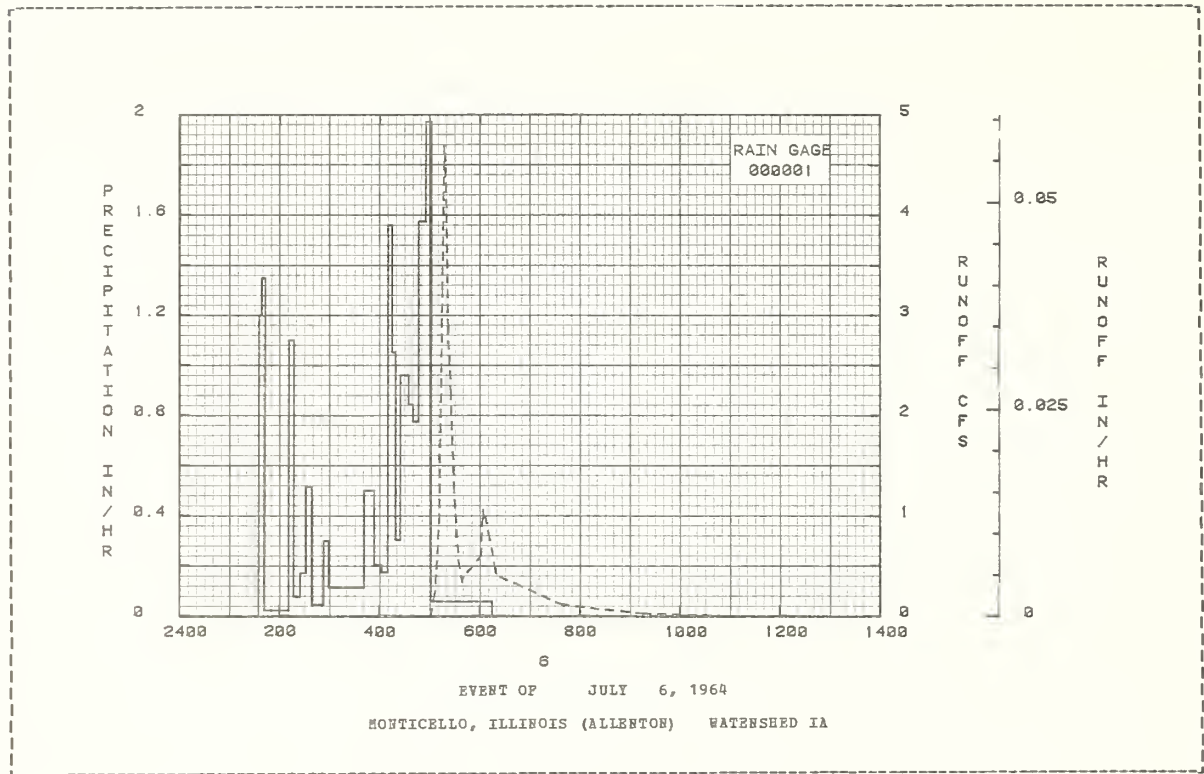


EVNT OF JUNR 19 - 20, 1964
 MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IA

1964 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 JULY 6, 1964							
7- 6	RG 000001 0.0	0.0	7- 6	RG 000001 135	0.0	0.0	7- 6	502	0.0	0.0
				138	1.2000	0.06		507	0.246	0.0001
				142	1.3499	0.15		512	1.007	0.0007
				211	0.0207	0.16		515	3.331	0.0020
				217	1.1000	0.27		517	4.691	0.0036
				225	0.0751	0.28		519	4.302	0.0055
				232	0.1713	0.30		521	3.403	0.0070
				239	0.5144	0.36		522	2.808	0.0076
				253	0.0428	0.37		525	2.232	0.0092
				259	0.3000	0.40		529	1.303	0.0106
				342	0.1116	0.48		535	0.537	0.0117
				354	0.5000	0.58		539	0.326	0.0120
				403	0.2001	0.61		540	0.378	0.0121
				410	0.1713	0.63		602	0.599	0.0143
				415	1.5601	0.76		604	1.060	0.0146
				419	1.0499	0.83		605	0.967	0.0148
				425	0.3001	0.86		607	0.991	0.0152
				435	0.9599	1.02		611	0.816	0.0159
				440	0.8401	1.09		620	0.418	0.0171
				447	0.7714	1.18		625	0.383	0.0175
				455	1.5751	1.39		643	0.324	0.0187
				502	1.9714	1.62		738	0.110	0.0211
				615	0.0575	1.69		916	0.015	0.0224
								1048	0.0	0.0225

WATERSHED CONDITIONS:
 For cropping information,
 see table, page 61.001-1.

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

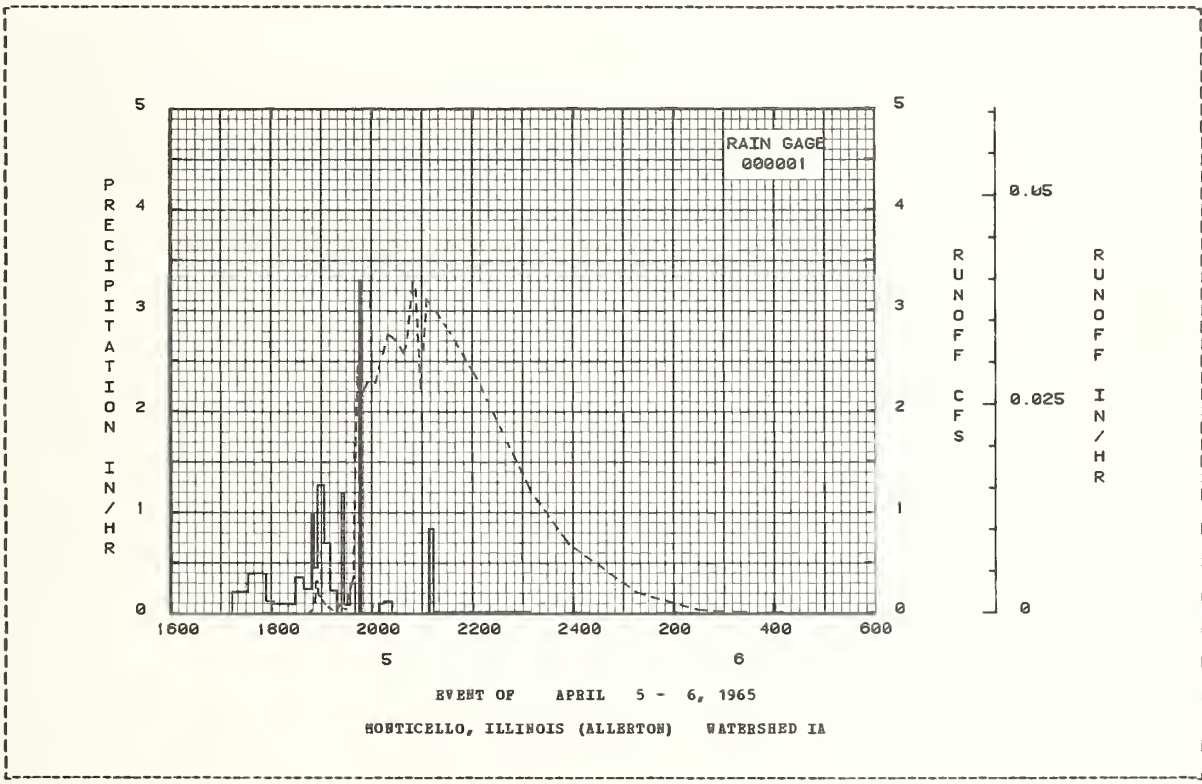


1965 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLENTON) WATERSHED IA							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
			EVENT OF APRIL 5 - 6, 1965							
4- 5	NG 000001 0.83	0.000	4- 5	RG 000001 1713	0.0	0.0	4- 5	1735	0.0	0.0
				1732	0.2211	0.07		1746	0.003	0.0
				1753	0.4000	0.21		1749	0.008	0.0
				1803	0.1200	0.23		1753	0.009	0.0
				1828	0.0960	0.27		1756	0.007	0.0
WATERSHED CONDITIONS: For cropping information, see table, page 61.001-1.				1838	0.3600	0.33		1759	0.004	0.0
				1848	0.2400	0.37		1802	0.002	0.0
				1851	1.0000	0.42		1822	0.0	0.0
				1855	0.4500	0.45		1835	0.002	0.0
				1903	1.2750	0.62		1838	0.003	0.0
				1910	0.6857	0.70		1844	0.005	0.0
				1918	0.2250	0.73		1846	0.015	0.0
				1924	0.0	0.73		1849	0.035	0.0
				1927	1.2000	0.79		1852	0.112	0.0001
				1934	0.0857	0.80		1853	0.317	0.0001
				1940	0.3000	0.83		1855	0.322	0.0003
				1945	0.0	0.83		1856	0.180	0.0003
				1947	3.3000	0.94		1858	0.168	0.0004
				2008	0.0	0.94		1901	0.131	0.0005
				2014	0.1000	0.95		1904	0.087	0.0005
				2024	0.1200	0.97		1908	0.060	0.0006
				2108	0.0	0.97		1913	0.032	0.0006
				2113	0.8400	1.04		1919	0.050	0.0007
				2228	0.0080	1.05		1922	0.087	0.0007
				2308	0.0150	1.06		1925	0.047	0.0008
								1928	0.036	0.0008
								1938	0.365	0.0012
								1940	1.441	0.0016
								1943	2.452	0.0027
								1944	2.114	0.0032

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

1965 SELECTED RUHOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED IA			
ANTECEDENT CONDITIONS			RAINFALL				RUHOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	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 5 - 6, 1965 (CONTINUED)										
							4- 5	1946	2.150	0.0041
								1955	2.286	0.0081
								2004	2.285	0.0122
								2019	2.757	0.0198
								2029	2.705	0.0254
								2037	2.576	0.0296
								2041	2.652	0.0317
								2049	3.284	0.0365
								2052	3.214	0.0385
								2058	2.218	0.0418
								2105	3.113	0.0455
								2116	2.991	0.0523
								2129	2.828	0.0599
								2205	2.325	0.0786
								2310	1.197	0.1017
								2355	0.675	0.1102
								2400	0.646	0.1108
							4- 6	116	0.199	0.1173
								230	0.027	0.1190
								300	0.009	0.1191
								317	0.006	0.1191
								400	0.0	0.1192

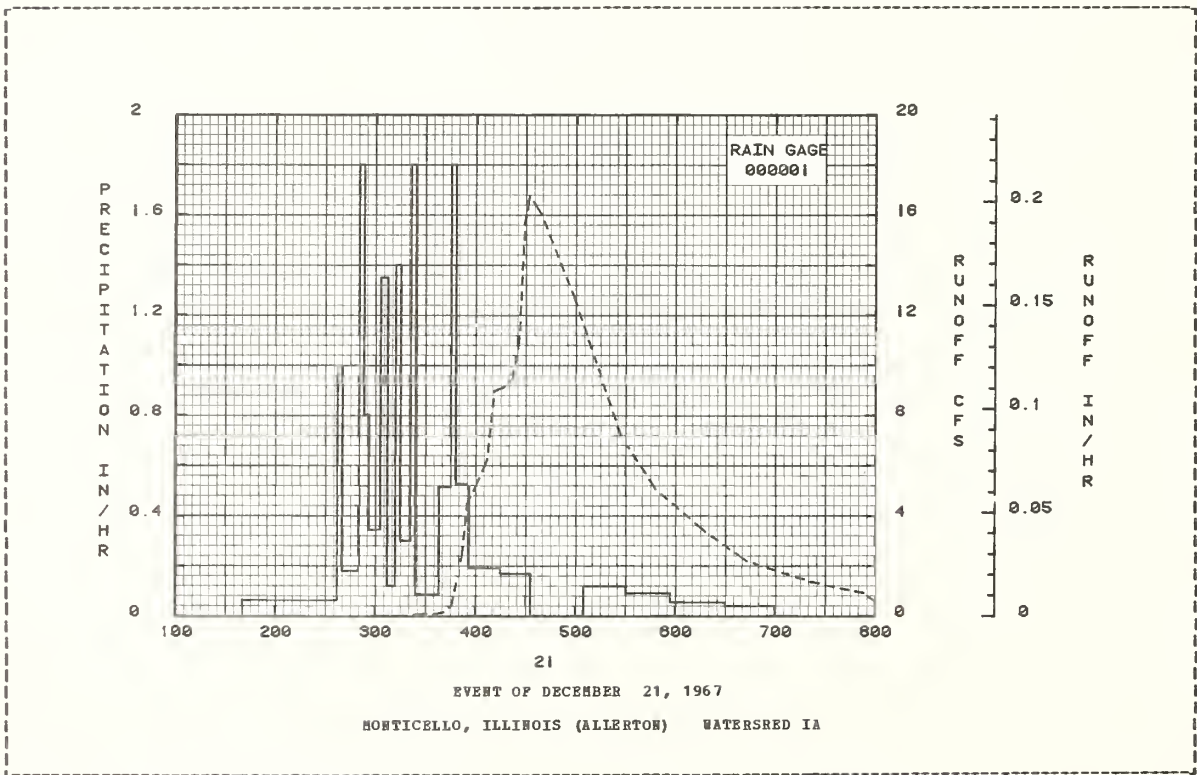
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012094.



1967 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSRED 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 DECEMBER 21, 1967										
12-21	RG 000001 0.0	0.0	12-21	RG 000001 140	0.0	0.0	12-21	259	0.0	0.0
				237	0.0632	0.06		306	0.001	0.0
				240	1.0001	0.11		312	0.002	0.0
				250	0.1800	0.14		319	0.017	0.0001
				253	1.7999	0.23		325	0.084	0.0001
				256	0.8002	0.27		331	0.094	0.0002
				303	0.3428	0.31		335	0.078	0.0003
				307	1.3499	0.40		341	0.154	0.0004
				312	0.1201	0.41		346	0.437	0.0007
				315	1.3998	0.48		352	2.466	0.0025
				321	0.3000	0.51		355	4.473	0.0046
				324	1.8002	0.60		402	5.508	0.0116
				338	0.0857	0.62		407	6.275	0.0176
				345	0.5143	0.68		411	8.983	0.0237
				348	1.8002	0.77		417	9.137	0.0347
				356	0.5249	0.84		422	9.470	0.0440
				415	0.1895	0.90		426	11.127	0.0524
				433	0.1667	0.95		429	15.630	0.0604
				505	0.0	0.95		432	16.758	0.0702
				530	0.1200	1.00		439	16.001	0.0933
				557	0.0889	1.04		459	12.656	0.1511
				630	0.0545	1.07		527	7.192	0.2071
				700	0.0400	1.09		548	5.051	0.2330
								618	3.354	0.2584
								643	2.180	0.2724
								722	1.349	0.2863
								753	0.911	0.2933
								833	0.570	0.2993

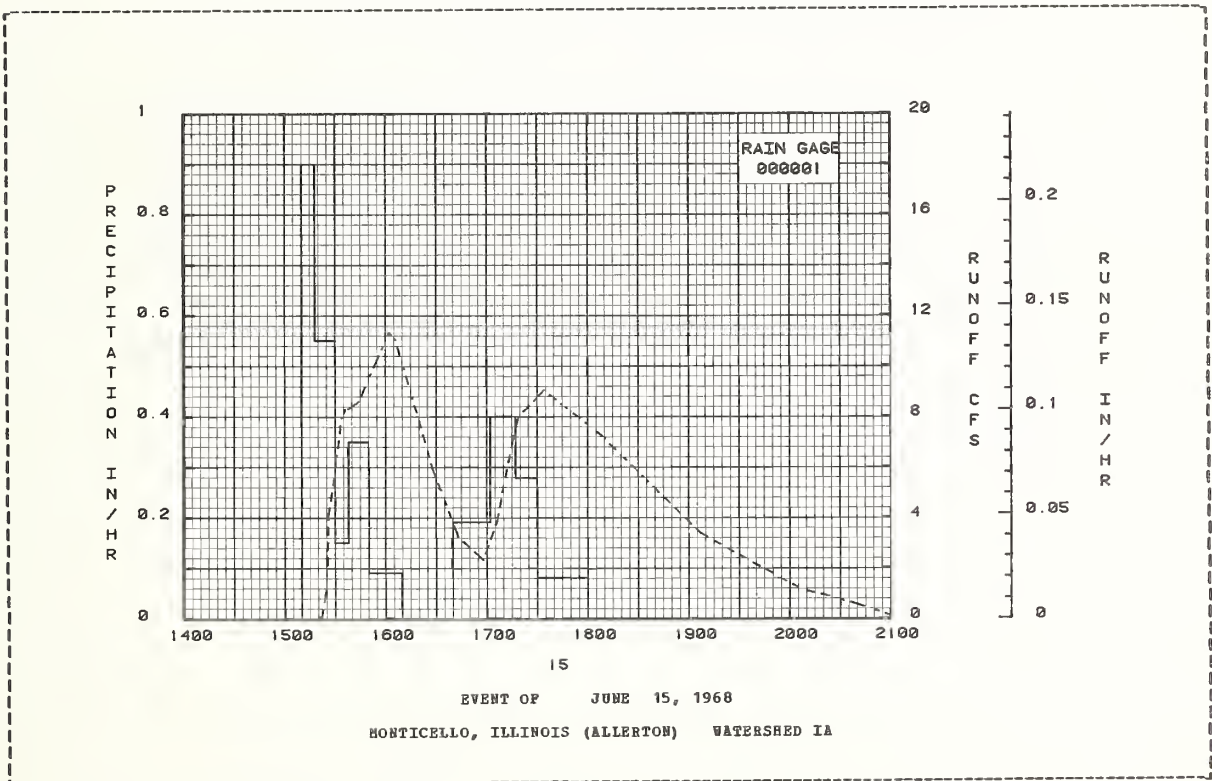
WATERSRED CONDITIONS:
For cropping information,
see table, page 61.001-1.

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



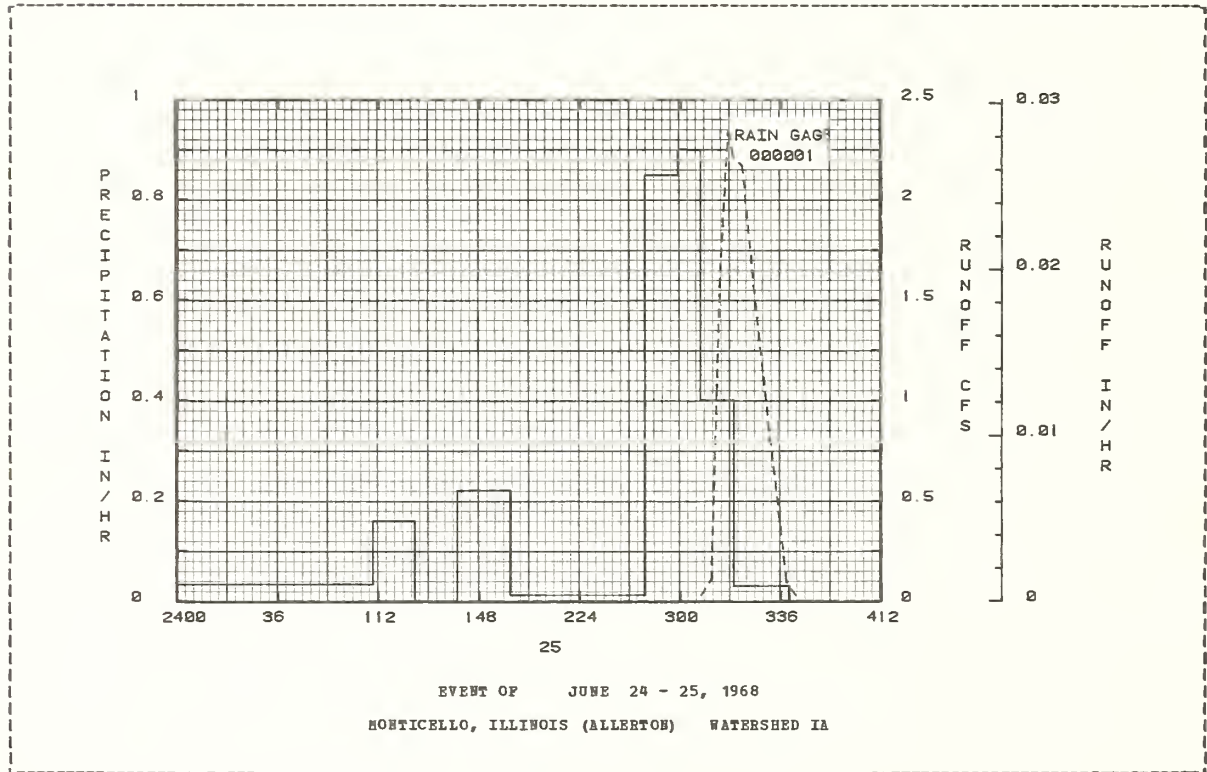
1968 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)			WATERSHED IA					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(CFS)	(inches)	
EVENT OF JUNE 15, 1968											
6-15	RG 000001 1.09	0.192	6-15	RG 000001	1510	0.0	0.0	6-15	1511	0.0	0.0
					1518	0.9001	0.12		1522	0.089	0.0001
					1530	0.5500	0.23		1525	1.237	0.0005
					1538	0.1499	0.25		1526	4.106	0.0011
					1550	0.3500	0.32		1529	5.380	0.0039
WATERSHED CONDITIONS: For cropping information, see table, page 61.001-1.					1610	0.0900	0.35		1531	6.475	0.0063
					1640	0.0	0.35		1534	7.999	0.0107
					1702	0.1909	0.42		1536	8.312	0.0140
					1717	0.4000	0.52		1538	8.325	0.0173
					1730	0.2769	0.58		1544	8.597	0.0276
					1800	0.0800	0.62		1556	10.421	0.0506
									1602	11.316	0.0637
									1606	11.019	0.0727
									1628	5.914	0.1103
									1643	3.230	0.1241
									1658	2.313	0.1325
									1706	3.841	0.1374
									1716	7.241	0.1486
									1719	7.984	0.1532
									1734	9.044	0.1790
									1807	7.305	0.2333
									1907	3.359	0.2978
									2006	1.172	0.3248
									2040	0.547	0.3306
									2131	0.089	0.3339
									2139	0.090	0.3341
									2157	0.017	0.3343

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



1968 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 JUNE 24 - 25, 1968										
RG 000001			RG 000001							
6-24	0.83		6-24	2400	0.0	0.0	6-25	202	0.0	0.0
6-25		0.000	6-25	110	0.0343	0.04		252	0.001	0.0
				125	0.1600	0.08		306	0.003	0.0
				140	0.0	0.08		311	0.106	0.0
				159	0.2211	0.15		313	1.081	0.0003
WATERSHED CONDITIONS:				247	0.0125	0.16		314	1.609	0.0005
For cropping information,				259	0.8500	0.33		317	2.373	0.0017
see table, page 61.001-1.				307	0.9001	0.45		319	2.213	0.0027
				319	0.3999	0.53		322	2.170	0.0040
				339	0.0300	0.54		327	1.454	0.0058
								338	0.088	0.0075
								343	0.0	0.0076

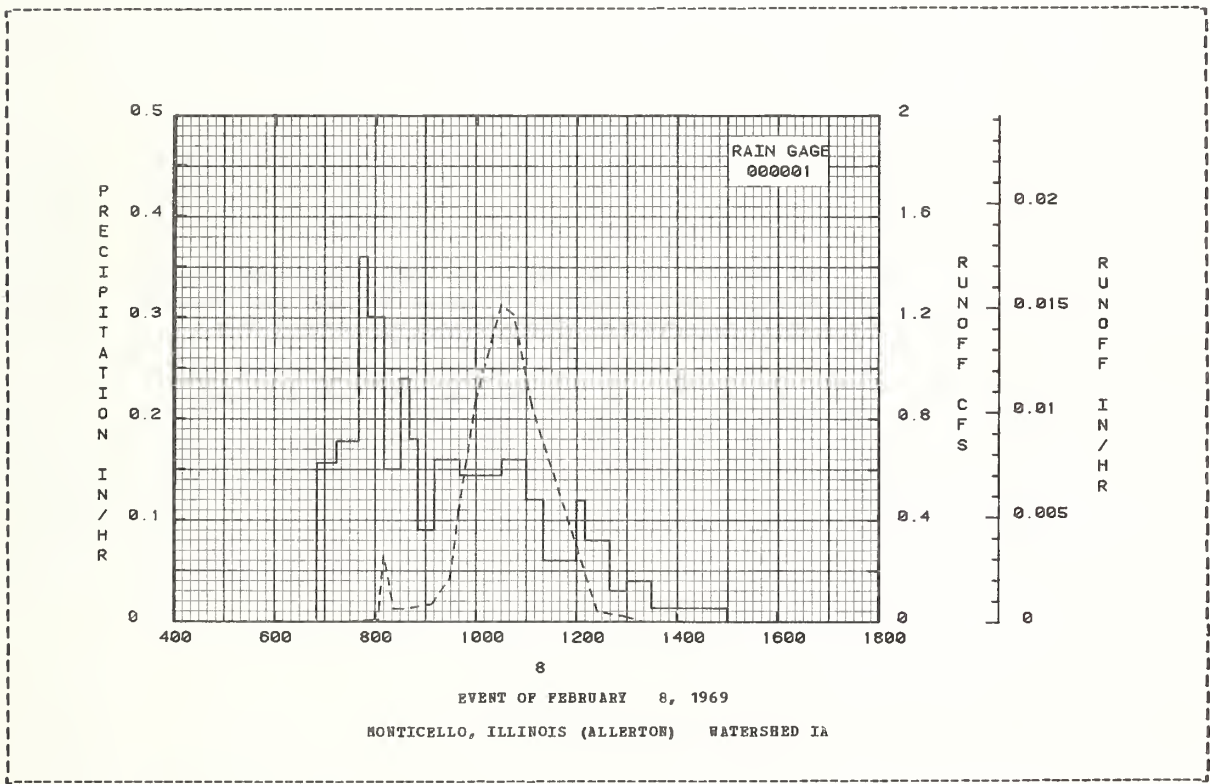
NOTES: To convert runoff in CFS to IN/DAY, multiply by 01012094.

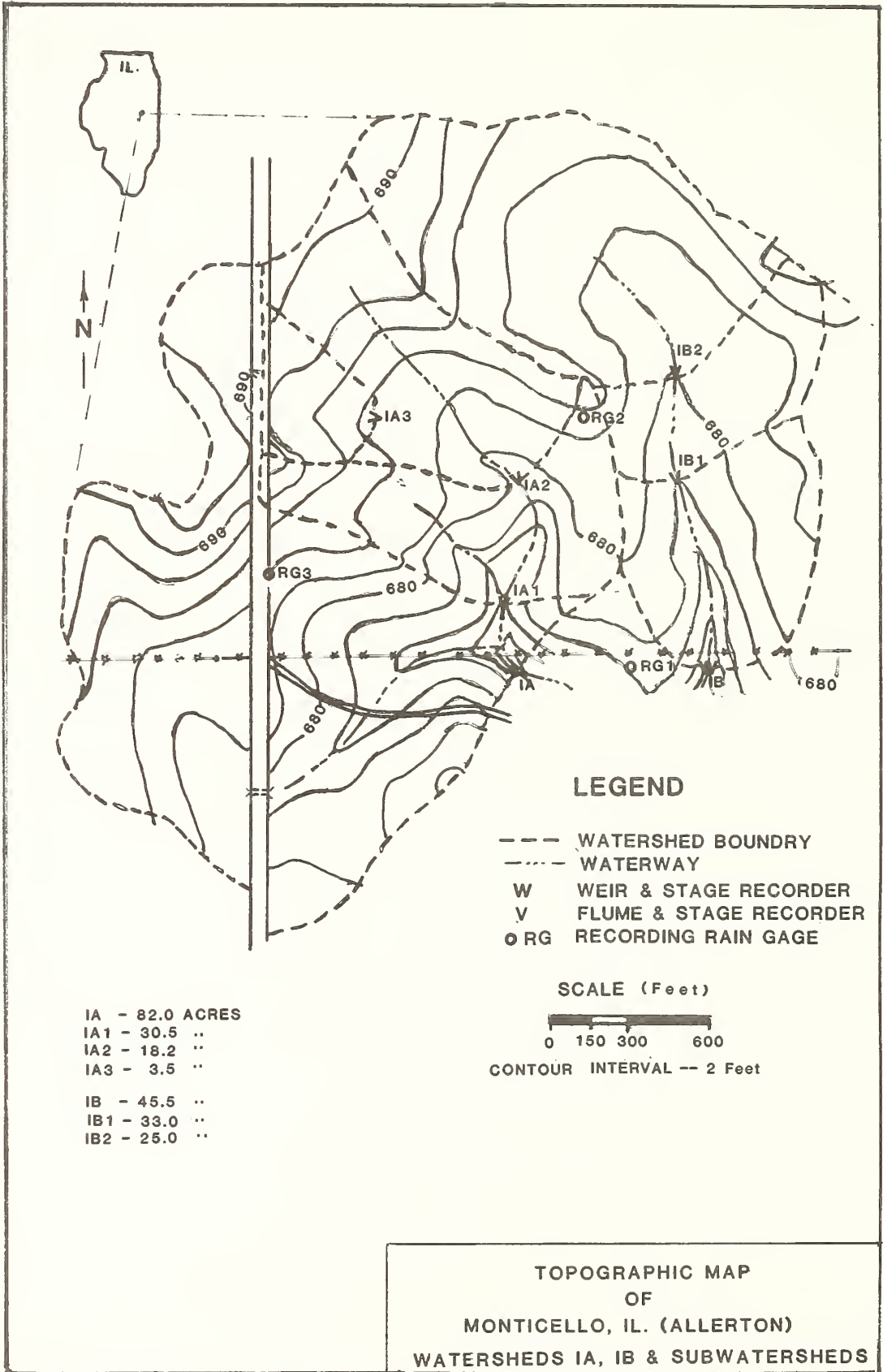


1969 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLETON) WATERSHED IA								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 8, 1969											
2- 8	RG 000001 0.0	0.0	2- 8	RG 000001	650	0.0	0.0	2- 8	729	0.0	0.0
					713	0.1565	0.06		804	0.012	0.0001
					740	0.1778	0.14		805	0.080	0.0001
					750	0.3600	0.20		810	0.256	0.0003
					810	0.3000	0.30		822	0.055	0.0006
					830	0.1500	0.35		834	0.045	0.0008
					840	0.2400	0.39		907	0.069	0.0011
					850	0.1800	0.42		929	0.174	0.0017
					910	0.0900	0.45		940	0.465	0.0024
					940	0.1600	0.53		959	0.873	0.0049
					1030	0.1440	0.65		1029	1.249	0.0114
					1100	0.1600	0.73		1044	1.210	0.0151
					1120	0.1200	0.77		1107	0.838	0.0198
					1200	0.0600	0.81		1225	0.041	0.0267
					1210	0.1200	0.83		1259	0.017	0.0269
					1240	0.0800	0.87		1319	0.0	0.0270
					1300	0.0300	0.88				
					1330	0.0400	0.90				
					1500	0.0133	0.92				

WATERSHED CONDITIONS:
For cropping information,
see table, page 61.001-1.

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





MONTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B

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 1B	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1960	P	1.28	1.45	0.69	2.86	3.65	5.74	2.00	1.14	2.63	1.93	2.51	0.91	26.79
	Q	0.0	0.0	0.0	0.000	0.005	0.501	0.000	0.0	0.0	0.0	0.000	0.0	0.507
1961	P	0.0	1.59	2.99	4.53	5.26	4.86	3.10	2.12	3.84	3.59	3.20	2.26	37.34
	Q	0.0	0.015	0.0	1.052	2.118	0.044	0.0	0.005	0.0	0.001	0.004	0.002	3.241
1962	P	3.27	1.03	2.22	1.84	4.40	1.72	5.24	2.64	1.88	1.46	1.22	0.0	26.92
	Q	0.0	0.623	1.102	0.0	0.194	0.021	0.233	0.024	0.0	0.0	0.0	0.0	2.198
1963	P	0.95	0.36	4.67	3.39	0.69	0.83	3.33	5.35	0.22	1.86	1.61	0.40	23.66
	Q	0.0	0.0	0.027	0.050	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.078
1964	P	1.46	0.86	3.83	8.33	0.46	4.02	3.62	2.52	2.20	0.0	3.47	1.45	32.22
	Q	0.0	0.0	0.037	2.694	0.0	0.128	0.003	0.0	0.0	0.0	0.0	0.0	2.861
1965	P	3.15	1.07	2.09	5.27	1.69	3.91	3.13	5.90	7.04	1.21	1.00	2.66	38.12
	Q	0.0	0.004	0.0	0.314	0.0	0.001	0.0	0.0	0.003	0.0	0.0	0.0	0.321
1966	P	0.22	2.06	1.09	4.59	2.20	1.01	2.34	2.58	5.95	1.64	3.69	3.73	31.10
	Q	0.0	0.002	0.000	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.656	0.665
1967	P	2.52	1.06	2.49	1.74	5.40	2.64	2.73	2.76	2.75	4.11	2.11	6.46	36.77
	Q	0.321	0.018	0.650	0.000	0.364	0.005	0.0	0.0	0.0	0.0	0.001	1.501	2.860
1968	P	2.11	1.46	1.35	3.77	6.76	6.10	2.18	1.37	2.34	0.26	4.29	1.67	33.66
	Q	0.392	0.564	0.0	0.006	0.547	0.714	0.0	0.0	0.0	0.0	0.0	0.0	2.223
1969	P	3.00	1.02	0.40	3.29	1.45	1.09	3.07	2.02	6.92	4.93	2.73	0.55	30.47
	Q	0.632	0.152	0.000	0.083	0.0	0.0	0.0	0.0	0.000	0.0	0.015	0.000	0.883
STA AV	P	1.91	1.67	2.23	3.85	3.38	3.71	3.41	2.69	2.83	2.73	2.25	1.92	32.56
	Q	0.140	0.084	0.150	0.361	0.174	0.141	0.095	0.005	0.002	0.122	0.009	0.171	1.453

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1960	6-23	0.113	6-23	0.063	6-23	0.124	6-23	0.242	6-23	0.329	6-22	0.416	6-21	0.417	6-15	0.501
1961	5- 8	0.379	5- 8	0.350	5- 7	0.642	5- 7	1.255	5- 7	1.672	5- 7	1.878	5- 7	2.094	5- 1	2.118
1962	7-15	0.335	7-15	0.115	3-20	0.168	3-20	0.456	3-20	0.628	3-20	0.725	3-19	0.726	3-13	0.726
1963	4-22	0.041	4-29	0.018	4-29	0.024	4-29	0.029	4-29	0.029	4-28	0.029	4-27	0.029	4-21	0.036
1964	4-20	0.596	4-20	0.486	4-20	0.809	4-20	1.373	4-19	1.690	4-19	2.165	4-19	2.675	4-13	2.694
1965	4- 5	0.049	4- 5	0.043	4- 5	0.071	4- 5	0.116	4- 5	0.144	4- 5	0.149	4- 5	0.150	4- 5	0.260
1966	12- 7	0.093	12- 7	0.084	12- 7	0.151	12- 7	0.327	12- 7	0.397	12- 6	0.423	12- 6	0.650	11-30	0.656
1967	12-21	0.291	12-21	0.239	12-21	0.378	12-21	0.536	12-21	0.942	12-20	0.942	12-19	0.942	12-13	0.942
1968	5-25	0.188	6-15	0.134	6-15	0.219	6-15	0.368	1-31	0.644	1-31	0.870	1-30	0.886	1-24	0.955
1969	1-29	0.038	1-29	0.038	1-29	0.076	1-29	0.184	1-29	0.264	1-28	0.306	1-28	0.412	1-22	0.413
MAXIMUMS FOR PERIOD OF RECORD																
	4-20	0.596	4-20	0.486	4-20	0.809	10- 6	1.556	4-19	1.690	4-19	2.165	4-19	2.675	4-13	2.694
	1964		1964		1964		1955		1964		1964		1964		1964	

NOTES: For general description of Watershed, see Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States, USDA, AHS, 1957 (Reference No. 1) page 61.2-1. Watershed conditions: The entire area is used for cropping activities except for 1% of area in grass. For percentages of the watershed in various crops, by years, see table, this page. Data for 1970 through 1975 will be included in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975. Precipitation and runoff records began August 1949. STA AV precipitation and runoff amounts are for 21 yr (1949-69) period, part-year records included. Precipitation values from the R-1 gage, located about 300 ft west of streamgaging station 1B. For daily precipitation values (1960-69) see tables for the R-1 gage starting on page 61001-2. For contour-drainage map of the watershed, see page 61.001-23. For long-time precipitation records see National Weather Service records at Decatur, Illinois.

CHOPS, % BY YEARS WITH PLANTING (P) & HARVEST (H) DATES, WHEN KNOWN

Year	Corn	Wheat	Soybeans	Oats	Hay & Pasture
1960	74.8		17.4		6.8
1961			74.8 06-14 (P)	17.4 03-28 (P) 07-26 (H)	6.8
1962	24.2 05-17 (P) 10-27 TO 11-26 (H)		30.4 06-01 (P)		44.4
1963	44.4 05-08 TO 05-14 (P) 11-14 TO 11-15 (H)		24.2 10-01 TO 10-07 (H)		30.4
1964	51.2 05-08 TO 05-15 (P) 10-31 TO 11-05 (H)		17.4 10-17 TO 10-30 (H)		30.4
1965	44.4 05-10 TO 05-13 (P) 10-27 TO 11-19 (H)		37.2 10-31 TO 11-04 (H)	17.4	
1966	47.8 10-29 TO 11-30 (H)		51.2 10-01 TO 10-29 (H)		
1967	6.8		92.2		
1968	70.5 04-29 TO 05-10 (P) 11-30 (H)	11.1 07-27 (H)	17.4 06-05 TO 06-12 (P) 10-18 (H)		
1969	17.4 04-30 TO 05-03 (P) 12-02 (H)		81.6 05-19 TO 06-19 (P) 10-26 (H)		

Cooperative Research Project of the Agricultural Engineering Department, Univ. of Illinois and USDA

1960		MEAN DAILY DISCHARGE (cfs)					MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IB	
Day	Jau	Feb	Mar	Apr	May	Juu	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	0.001	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.001	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	0.145	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	
21	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	
22	0.0	0.0	0.0	0.0	0.0	0.163	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.634	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	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.007	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	0.0003	0.0319	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.000	0.005	0.501	0.000	0.0	0.0	0.0	0.000	0.0	
STA AV	0.132	0.027	0.108	0.274	0.023	0.173	0.151	0.006	0.003	0.214	0.015	0.119	

NOTES: To convert CPS to IN/DAY, multiply by 0.523113. STA AV based on 12 yr period (1949-60), part year records included.

1961		MEAN DAILY DISCHARGE (cfs)					MONTICELLO, ILLINOIS (ALLERTON)					WATERSHED IB	
Day	Jau	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 T	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	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	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.350	0.001	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	3.280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.377	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	0.001	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	
13	0.0	0.0	0.0	0.0	0.0	0.001	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	0.029	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	0.081	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.032	0.0	0.001	0.0	0.0	0.0	0.0	0.005	0.002	
23	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.262	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	1.717	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	0.002	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	0.0010	0.0	0.0671	0.1306	0.0028	0.0	0.0003	0.0	0.0	0.0003	0.0001	
INCHES	0.0	0.015	0.0	1.052	2.118	0.044	0.0	0.005	0.0	0.001	0.004	0.002	
STA AV	0.121	0.026	0.099	0.339	0.198	0.162	0.138	0.006	0.003	0.197	0.014	0.110	

NOTES: To convert CPS to IN/DAY, multiply by 0.523113. STA AV based on 13 yr period (1949-61), part year records included.

1962 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB												
Day	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	0.040	0.0	0.046	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.167	0.0	0.333	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.456	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.014	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	0.007	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	0.353	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	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.374	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	0.623	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.765	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	0.082	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.004	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	0.158	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.659	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	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0425	0.0680	0.0	0.0120	0.0013	0.0144	0.0015	0.0	0.0	0.0	0.0
INCHES	0.0	0.623	1.102	0.0	0.194	0.021	0.233	0.024	0.0	0.0	0.0	0.0
STA AV	0.112	0.072	0.176	0.312	0.197	0.151	0.146	0.008	0.002	0.183	0.013	0.102

NOTES: To convert CPS to IN/DAY, multiply by 0.523113. STA AV based on 14 yr period (1949-62), part year records included.

1963 MEAN DAILY DISCHARGE (cfs) MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB												
Day	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	0.026	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	0.001	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	0.001	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.012	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	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.026	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	0.015	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	0.055	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	0.0017	0.0032	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.027	0.050	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
STA AV	0.104	0.067	0.166	0.294	0.183	0.140	0.135	0.007	0.002	0.171	0.012	0.095

NOTES: To convert CPS to IN/DAY, multiply by 0.523113. STA AV based on 15 yr period (1949-63), part year records included.

1964 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	0.0	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	0.004	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	0.027	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	0.001	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	0.949	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	4.068	0.0	0.244	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.132	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	0.043	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	0.0023	0.1716	0.0	0.0081	0.0002	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.037	2.694	0.0	0.128	0.003	0.0	0.0	0.0	0.0	0.0
STA AV	0.097	0.063	0.157	0.454	0.171	0.140	0.126	0.007	0.002	0.160	0.011	0.089

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 16 yr period (1949-64), part year records included.

1965 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	0.002	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	0.0	0.0	0.0
5	0.0	0.0	0.0	0.191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.095	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	0.007	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	0.210	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	0.031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.022	0.0	0.0	0.0	0.0	0.002	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	0.003	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	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.001	0.0	0.0	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	0.0002	0.0	0.0200	0.0	0.0001	0.0	0.0	0.0002	0.0	0.0	0.0
INCHES	0.0	0.004	0.0	0.314	0.0	0.001	0.0	0.0	0.003	0.0	0.0	0.0
STA AV	0.091	0.059	0.147	0.445	0.160	0.131	0.119	0.006	0.002	0.151	0.011	0.084

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 17 yr period (1949-65), part year records included.

1966 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	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.001	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	0.005
6	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006
7	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.808
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.434
9	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.002	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 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	0.008	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	0.001	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0001	0.0	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0405
INCHES	0.0	0.002	0.000	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.656
STA AV	0.085	0.056	0.139	0.419	0.151	0.123	0.112	0.006	0.002	0.142	0.010	0.116

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 18 yr period (1949-66), part year records included.

1967 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	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.071
6	0.002	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.198
7	0.0	0.0	0.0	0.0	0.490	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.154	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.008	0.010	0.0	0.0	0.0	0.0	0.0	0.094
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.662
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028
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	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.747	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.340	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.801
22	0.0	0.0	0.120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.003	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	0.535	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
30	0.0	0.0	0.0	0.0	0.022	0.0	0.0	0.0	0.0	0.0	0.001	0.0
31	0.074	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0198	0.0012	0.0401	0.0	0.0225	0.0003	0.0	0.0	0.0	0.0	0.0	0.0926
INCHES	0.321	0.018	0.650	0.000	0.364	0.005	0.0	0.0	0.0	0.0	0.001	1.501
STA AV	0.098	0.053	0.167	0.396	0.163	0.117	0.105	0.006	0.002	0.135	0.010	0.189

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 19 yr period (1949-67), part year records included.

1968 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	1.079	0.0	0.0	0.0 T	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.001	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.074	1.345	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.001	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 T	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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0	0.0	0.001	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.001	0.0	0.0	0.0 T	0.469	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0 T	0.0	0.0	0.0 T	0.087	0.002	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.001	0.410	0.003	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.003	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.002	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.128	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.614	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0241	0.0372	0.0	0.0004	0.0338	0.0455	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.392	0.564	0.0	0.006	0.547	0.714	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.114	0.080	0.158	0.375	0.183	0.148	0.100	0.005	0.002	0.128	0.009	0.179

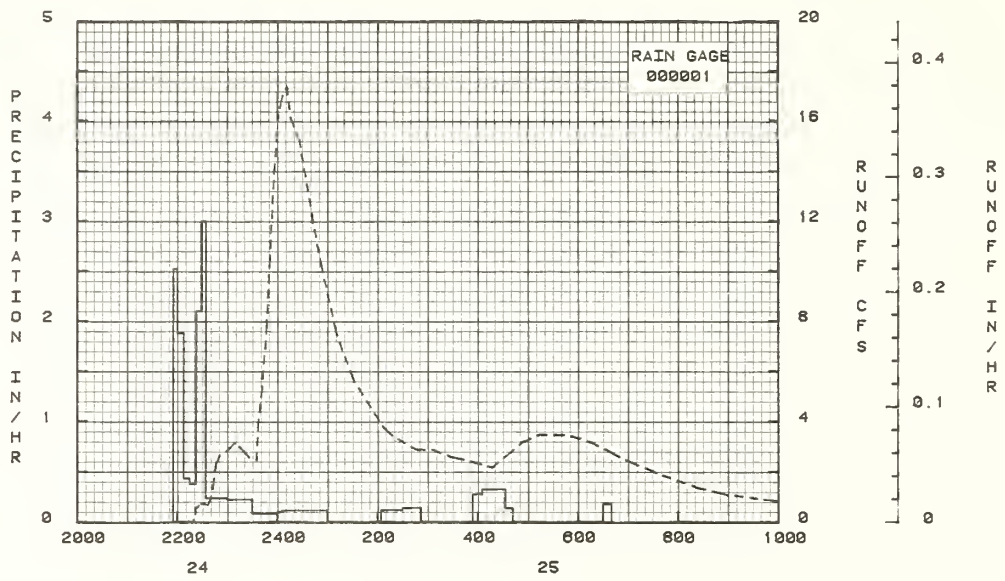
NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 20 yr period (1949-68), part year records included.

1969 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	0.0	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 T	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 T
8	0.0	0.290	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.001	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.183	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.001	0.0
18	0.233	0.0	0.0	0.156	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0
19	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	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	0.0 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	0.0	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	0.197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.015	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	0.0390	0.0104	0.0	0.0053	0.0	0.0	0.0	0.0	0.0	0.0	0.0010	0.0
INCHES	0.632	0.152	0.000	0.083	0.0	0.0	0.0	0.0	0.000	0.0	0.015	0.000
STA AV	0.140	0.084	0.150	0.361	0.174	0.141	0.095	0.005	0.002	0.122	0.009	0.171

NOTES: To convert CFS to IN/DAY, multiply by 0.523113. STA AV based on 21 yr period (1949-69), part year records included.

1961 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED 1B			
ANTECEDENT CONDITION:			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 24 - 25, 1961										
4-24	RG 000001 0.22	1.0	4-24	RG 000001 2155	0.0	0.0	4-24	2211	0.0	0.0
				2200	2.5200	0.21		2214	0.039	0.0
				2208	1.8750	0.46		2219	0.031	0.0001
				2215	0.4286	0.51		2220	0.093	0.0001
				2223	0.3750	0.56		2222	0.306	0.0003
				2229	2.1000	0.77		2223	0.570	0.0004
				2234	3.0000	1.02		2224	0.586	0.0006
				2300	0.2308	1.12		2226	0.650	0.0011
				2330	0.2200	1.23		2229	0.740	0.0019
				2400	0.0800	1.27		2234	0.687	0.0031
			4-25	6	0.1000	1.28		2237	0.666	0.0039
				100	0.1111	1.38		2241	1.022	0.0051
				204	0.0	1.38		2243	1.444	0.0060
				230	0.1154	1.43		2247	2.318	0.0087
				252	0.1364	1.48		2251	2.650	0.0124
				354	0.0	1.48		2301	2.874	0.0224
				405	0.2727	1.53		2309	3.154	0.0311
				433	0.3214	1.68		2314	2.978	0.0367
				442	0.1333	1.70		2326	2.562	0.0488
				630	0.0	1.70		2335	2.452	0.0570
				640	0.1800	1.73		2337	3.794	0.0593
								2342	5.415	0.0676
								2347	7.739	0.0796
								2351	10.617	0.0929
								2356	13.988	0.1152
								2400	15.793	0.1369
							4-25	1	16.244	0.1427
								6	17.005	0.1729
								11	17.353	0.2041
								16	16.051	0.2344
								26	15.247	0.2913
								41	12.221	0.3661
								52	10.227	0.4110
								111	7.395	0.4718
								132	5.551	0.5212
								207	3.725	0.5801
								217	3.434	0.5931
								247	2.844	0.6274
								307	2.846	0.6480
								327	2.583	0.6677
								343	2.464	0.6824
								355	2.353	0.6929
								417	2.158	0.7109
								443	2.872	0.7347
								453	3.166	0.7457
								503	3.312	0.7574
								513	3.457	0.7697
								543	3.448	0.8073
								603	3.295	0.8318
								616	3.141	0.8470
								634	2.838	0.8666
								649	2.577	0.8813
								704	2.348	0.8948
								734	1.939	0.9181
								824	1.330	0.9478
								859	1.063	0.9630
								959	0.815	0.9835
								1029	0.695	0.9917
								1059	0.585	0.9987
								1135	0.496	1.0057
								1215	0.413	1.0123
								1255	0.336	1.0178
								1331	0.270	1.0218
								1446	0.161	1.0276
								1541	0.118	1.0304
								1631	0.084	1.0323
								1732	0.056	1.0338

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

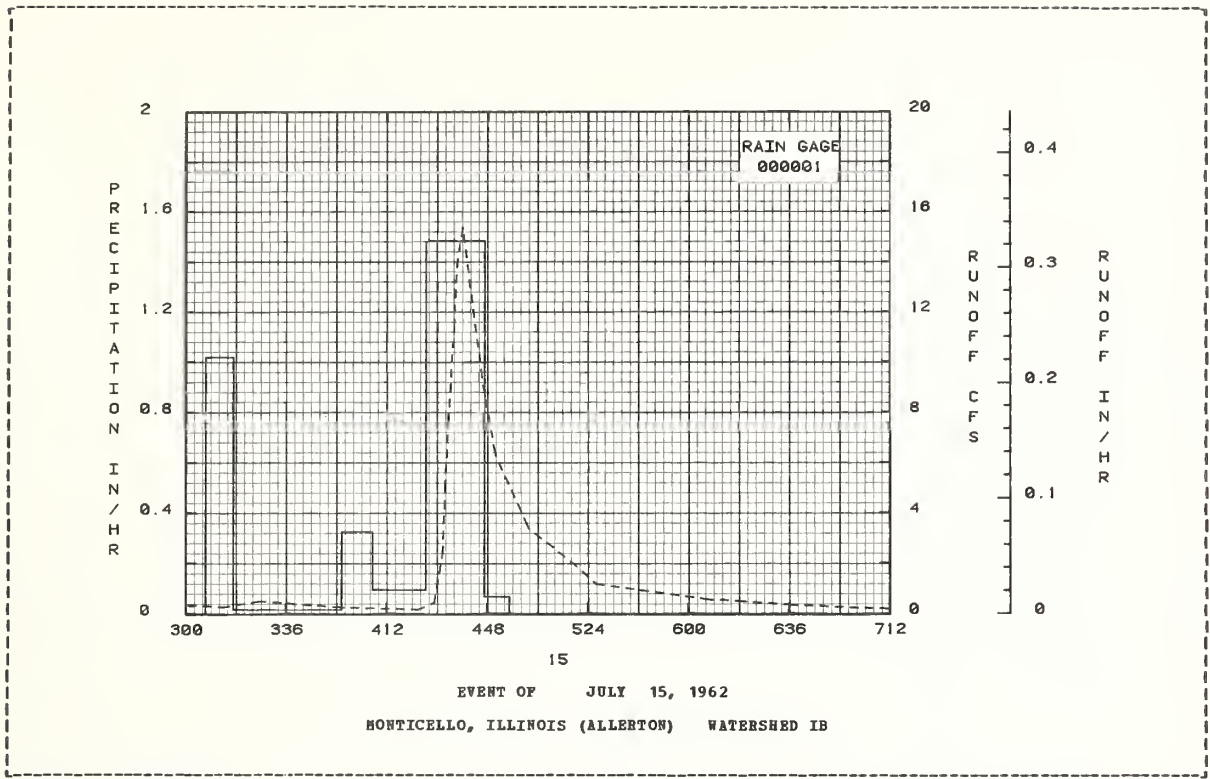


EVERT OF APRIL 24 - 25, 1961
MONTICELLO, ILLINOIS (ALLEBTON) WATERSHED 1B

1962 SELECTED RUROFF EVENT MONTICELLO, ILLINOIS (ALLEBTON) WATERSHED 1B

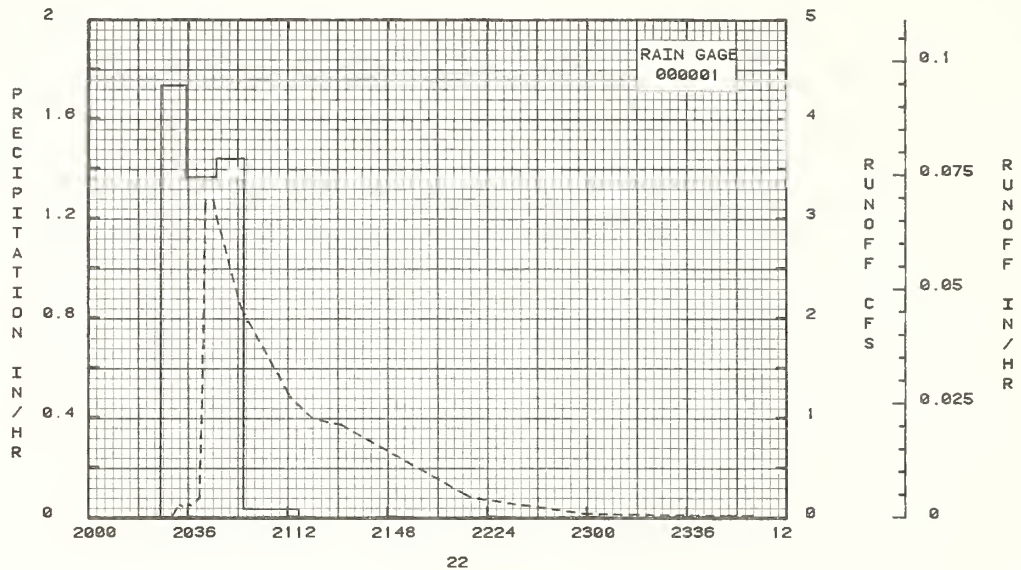
ANTECEDENT CONDITIONS:			RAINFALL			RUROFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVERT OF JULY 15, 1962										
7-15	BG 000001 0.41	0.036	7-15	BG 000001 307	0.0	0.0	7-15	301	0.350	0.0
				317	1.0200	0.17		313	0.282	0.0013
				356	0.0154	0.18		326	0.509	0.0032
				407	0.3273	0.24		354	0.262	0.0071
				426	0.0947	0.27		423	0.171	0.0094
WATERSHED CONDITIONS:				447	1.4857	0.79		429	0.453	0.0101
For cropping information,				456	0.0666	0.80		432	2.377	0.0116
see table, page 61.002-1.								433	5.307	0.0130
								434	7.621	0.0154
								436	11.389	0.0223
								437	13.841	0.0269
								439	15.361	0.0375
								446	9.361	0.0689
								451	6.241	0.0831
								503	3.345	0.1040
								518	2.065	0.1187
								527	1.172	0.1240
								606	0.574	0.1364
								618	0.487	0.1387
								639	0.328	0.1418
								716	0.181	0.1452
								813	0.079	0.1479
								843	0.029	0.1485

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



1962 ANTECEDENT CONDITIONS			1962 RAINFALL				1962 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 22, 1962										
7-22	0.0	0.0	7-22	2026	0.0	0.0	7-22	2030	0.0	0.0
				2035	1.7334	0.26		2032	0.088	0.0
				2046	1.3636	0.51		2033	0.122	0.0
				2056	1.4399	0.75		2034	0.098	0.0001
				2116	0.0300	0.76		2036	0.130	0.0002
WATERSHED CONDITIONS: For cropping information, see table, page 61.002-1.										
								2037	0.114	0.0002
								2040	0.193	0.0004
								2041	1.171	0.0006
								2042	3.181	0.0014
								2045	3.174	0.0049
								2046	3.012	0.0060
								2055	2.087	0.0143
								2113	1.191	0.0250
								2121	0.980	0.0282
								2131	0.922	0.0316
								2218	0.195	0.0412
								2259	0.026	0.0428
								2316	0.016	0.0430

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

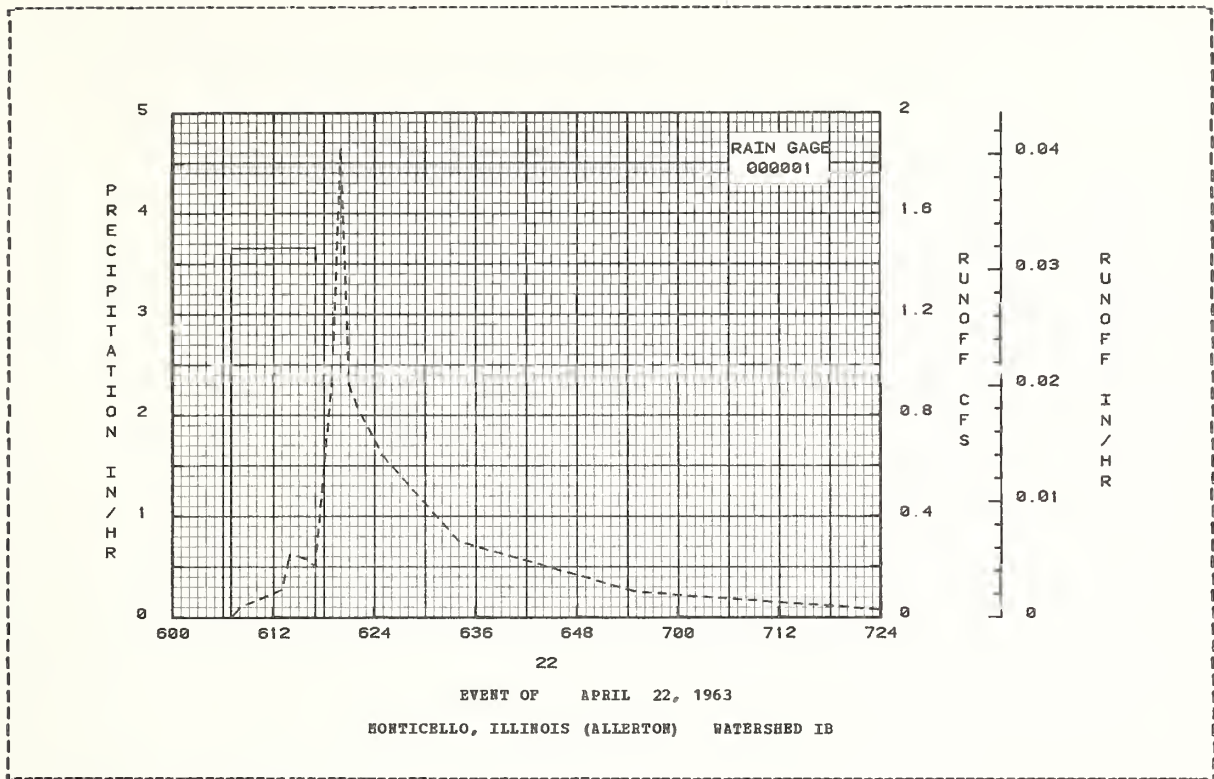


EVENT OF JULY 22, 1962
MONTICELLO, ILLINOIS (ALLERTON) WATERSHED IB

1963 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED IB			
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 22, 1963										
4-22	RG 000001	0.0	4-22	RG 000001	607	0.0	4-22	607	0.0	0.0
	0.0	0.0		617	3.6600	0.61		608	0.037	0.0
								613	0.108	0.0001
								614	0.255	0.0002
								616	0.231	0.0004
								617	0.196	0.0005
								619	0.947	0.0009
								620	1.861	0.0014
								621	0.920	0.0019
								622	0.834	0.0022
								625	0.642	0.0030
								634	0.297	0.0045
								655	0.104	0.0061

WATERSHED CONDITIONS:
For cropping information,
see table, page 61.002-1.

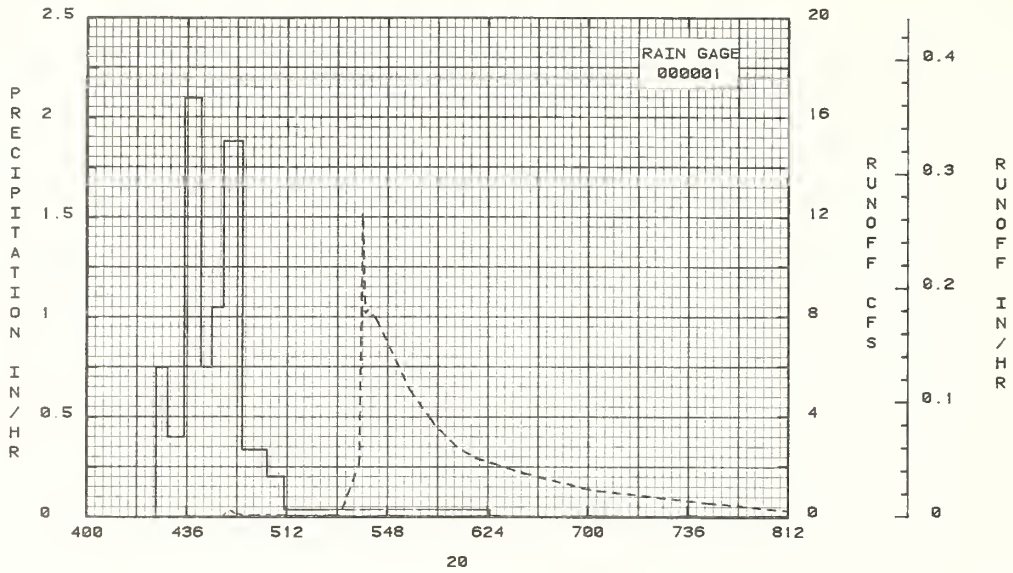
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.021796.



1964			SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)			WATERSHED IB		
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 20, 1964											
6-20	RG 000001 1.14	0.000	6-20	RG 000001 425	0.0	0.0	6-20	437	0.0	0.0	
				429	0.7500	0.05		449	0.015	0.0001	
				435	0.4001	0.09		450	0.153	0.0001	
				441	2.0999	0.30		452	0.243	0.0002	
				445	0.7500	0.35		453	0.153	0.0003	
				449	1.0499	0.42		454	0.107	0.0004	
				456	1.8857	0.64		456	0.058	0.0004	
				505	0.3334	0.69		459	0.044	0.0005	
				511	0.2000	0.71		502	0.061	0.0005	
				625	0.0324	0.75		505	0.071	0.0006	
								506	0.050	0.0006	
								523	0.025	0.0009	
								531	0.032	0.0009	
								538	2.092	0.0036	
								539	12.127	0.0062	
								540	8.168	0.0099	
								541	8.287	0.0129	
								544	7.886	0.0217	
								556	5.071	0.0499	
								605	3.663	0.0642	
								613	2.787	0.0736	
								620	2.320	0.0801	
								626	2.115	0.0849	
								637	1.717	0.0926	
								701	1.047	0.1046	
								746	0.486	0.1172	
								841	0.206	0.1241	
								926	0.078	0.1264	

WATERSHED CONDITIONS:
For cropping information,
see table, page 61.002-1.

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



EVENT OF JUNE 20, 1964
MONTICELLO, ILLINOIS (ALLETON) WATERSHED IB

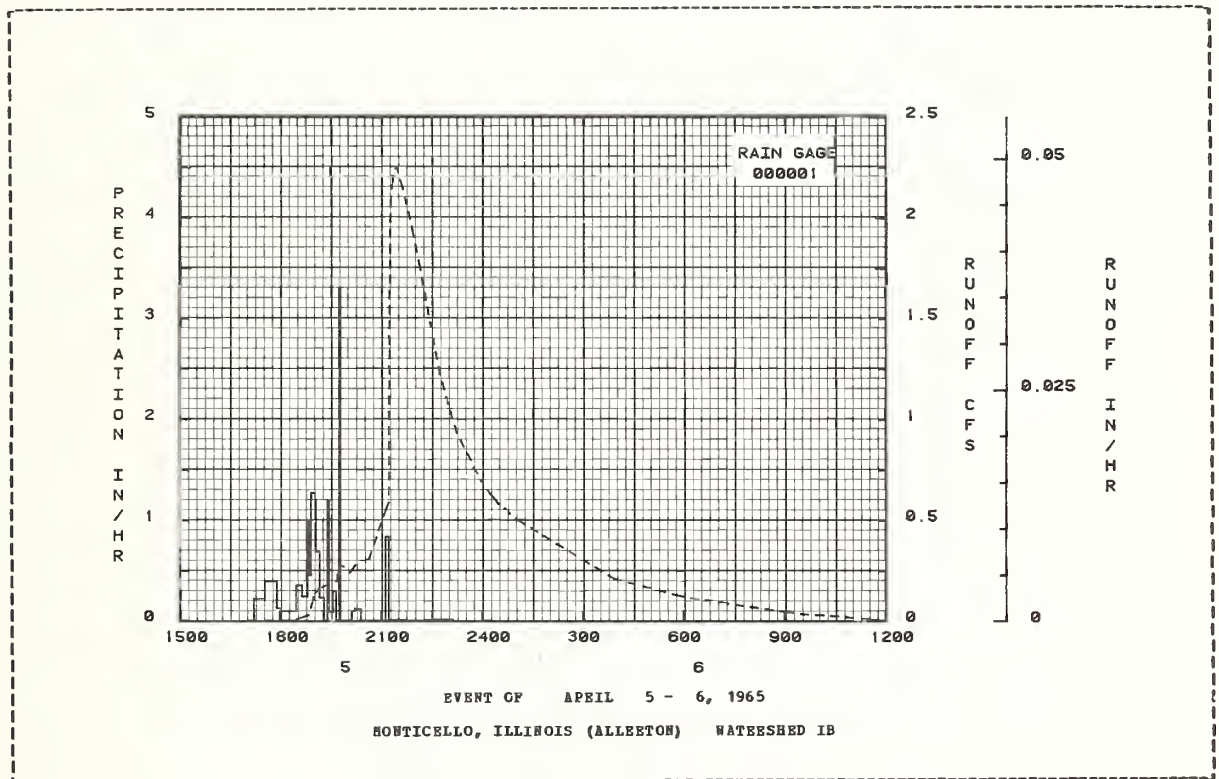
1965 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLETON) WATERSHED IB							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 5 - 6, 1965										
4- 5	RG 000001 0.83	0.001	4- 5	RG 000001 1713	0.0	0.0	4- 5	1704	0.0	0.0
				1732	0.2211	0.07		1738	0.003	0.0
				1753	0.4000	0.21		1753	0.005	0.0
				1803	0.1200	0.23		1804	0.002	0.0
				1828	0.0960	0.27		1823	0.005	0.0
				1838	0.3600	0.33		1828	0.011	0.0
				1848	0.2400	0.37		1850	0.027	0.0002
				1851	1.0000	0.42		1855	0.066	0.0003
				1855	0.4500	0.45		1859	0.121	0.0004
				1903	1.2750	0.62		1902	0.141	0.0006
				1910	0.6857	0.70		1908	0.161	0.0009
				1918	0.2250	0.73		1914	0.171	0.0013
				1924	0.0	0.73		1941	0.197	0.0031
				1927	1.2000	0.79		1944	0.281	0.0033
				1934	0.0857	0.80		1953	0.274	0.0042
				1940	0.3000	0.83		2004	0.243	0.0053
				1945	0.0	0.83		2014	0.279	0.0062
				1947	3.3000	0.94		2038	0.306	0.0089
				2008	0.0	0.94		2113	0.586	0.0144
				2014	0.1000	0.95		2115	1.874	0.0153
				2024	0.1200	0.97		2116	2.072	0.0160
				2108	0.0	0.97		2120	2.207	0.0191
				2113	0.8400	1.04		2126	2.255	0.0240
				2228	0.0080	1.05		2138	2.141	0.0336
				2308	0.0150	1.06		2155	1.938	0.0462
								2209	1.736	0.0555
								2244	1.217	0.0743
								2314	0.931	0.0860
								2359	0.694	0.0993
								2400	0.690	0.0995

WATERSHED CONDITIONS:
For cropping information,
see table, page 61.002-1.

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

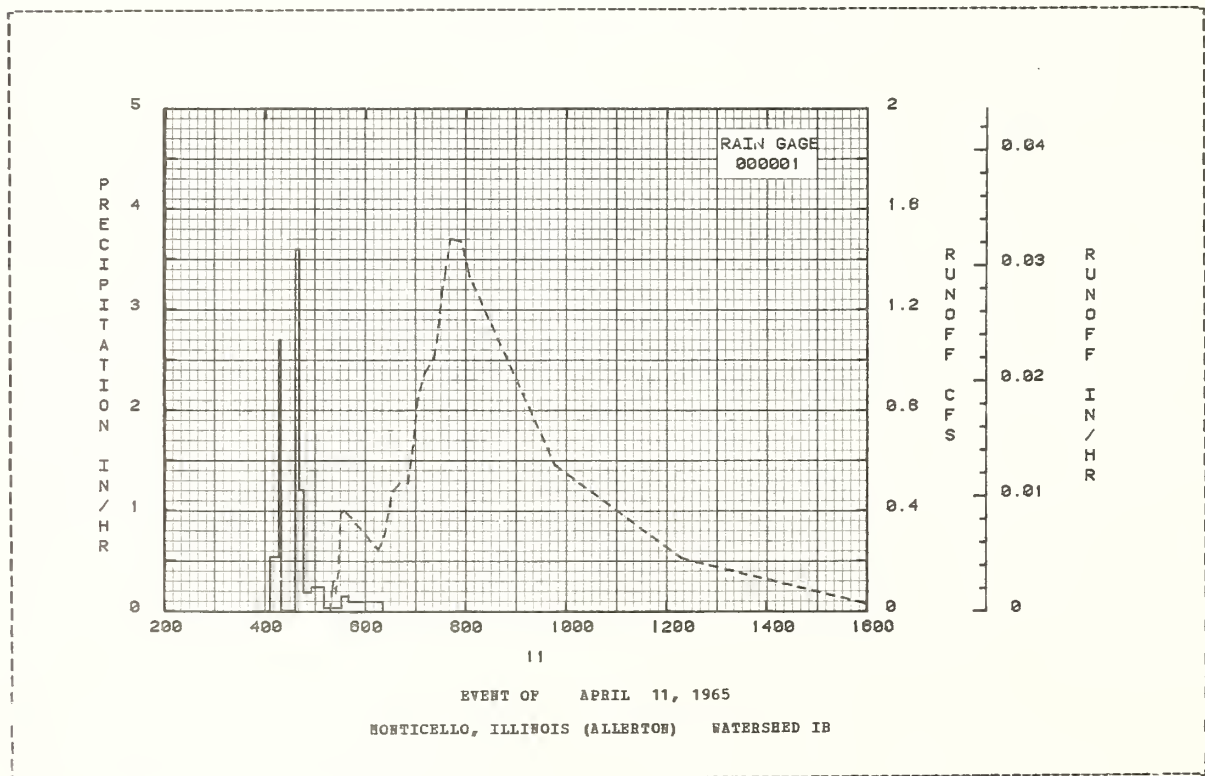
1965 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLEETON)				WATERSHED 1B			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 5 - 6, 1965 (CONTINUED)										
							4- 6	14	0.635	0.1029
								29	0.585	0.1062
								104	0.496	0.1131
								355	0.212	0.1351
								559	0.119	0.1426
								915	0.035	0.1481
								1134	0.009	0.1492
								1136	0.009	0.1492

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



1965 SELECTED RUNOFF EVENT			MORTICELLO, ILLINOIS (ALLERTON)				WATERSHED 1B				
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 11, 1965											
4-11	RG 000001 0.02	0.0	4-11	RG 000001	406	0.0	0.0	4-11	518	0.0	0.0
					416	0.5400	0.09		520	0.074	0.0001
					418	2.7000	0.18		523	0.124	0.0002
					419	1.2000	0.20		525	0.074	0.0002
					436	0.0	0.20		528	0.163	0.0004
WATERSHED CONDITIONS: For cropping information, see table, page 61.002-1.					441	3.6000	0.50		531	0.389	0.0007
					446	1.2000	0.60		534	0.405	0.0011
					456	0.1800	0.63		537	0.390	0.0015
					511	0.2400	0.69		543	0.374	0.0024
					532	0.0286	0.70		601	0.296	0.0046
					540	0.1500	0.72		616	0.243	0.0060
					621	0.0878	0.78		623	0.296	0.0067
									631	0.447	0.0078
									634	0.476	0.0083
									641	0.506	0.0095
						651	0.515	0.0114			
						656	0.627	0.0124			
						703	0.853	0.0143			
						711	0.954	0.0170			
						722	1.014	0.0209			
						726	1.097	0.0224			
						731	1.264	0.0246			
						736	1.367	0.0270			
						741	1.479	0.0295			
						754	1.466	0.0365			
						804	1.330	0.0416			
						819	1.220	0.0485			
						947	0.583	0.0773			
						1218	0.211	0.0991			
						1558	0.034	0.1089			

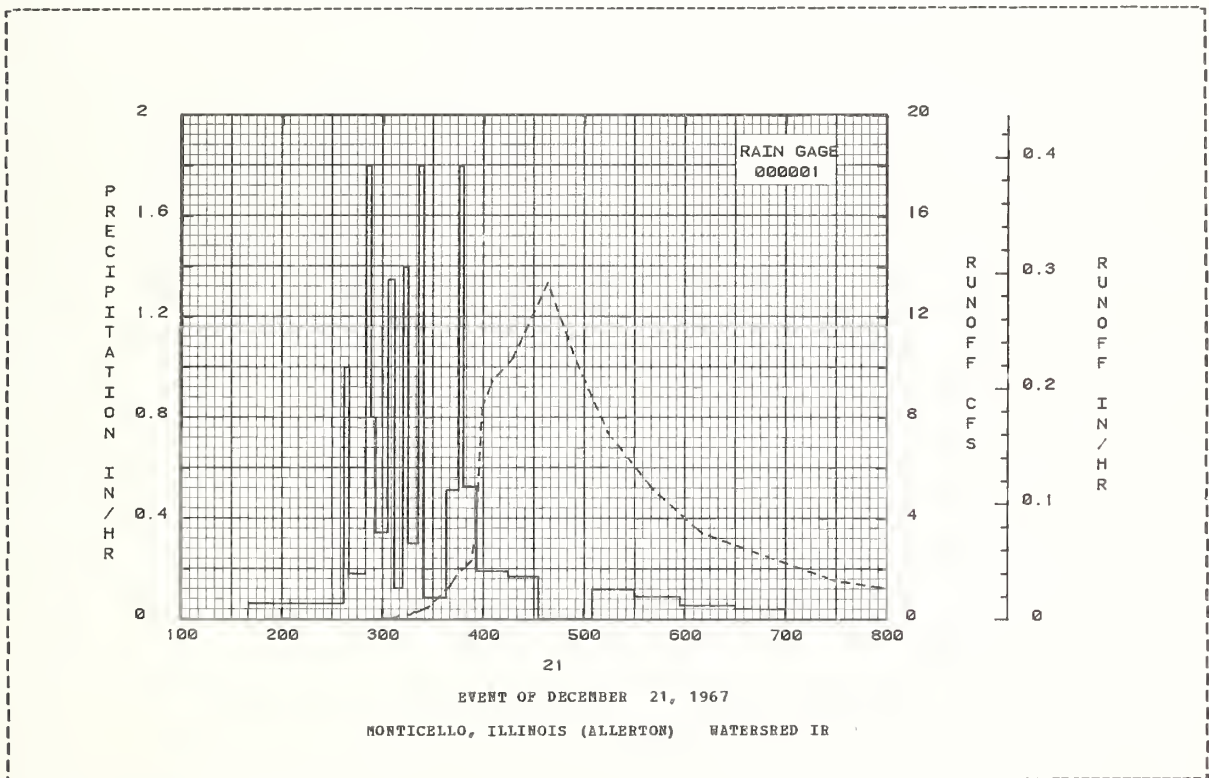
NOTES: To convert runoff in CFS to IN/DAI, multiply by 0.021796.



1967 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)			WATERSHED IR					
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 DECEMBER 21, 1967											
12-21	RG 000001 0.0	0.0	12-21	RG 000001	140	0.0	0.0	12-21	258	0.0	0.0
					237	0.0632	0.06		302	0.010	0.0001
					240	1.0001	0.11		307	0.063	0.0001
					250	0.1800	0.14		310	0.134	0.0002
					253	1.7999	0.23		317	0.192	0.0006
					256	0.8002	0.27		319	0.303	0.0008
					303	0.3428	0.31		320	0.259	0.0009
					307	1.3499	0.40		328	0.515	0.0020
					312	0.1201	0.41		340	1.324	0.0061
					315	1.3998	0.48		344	1.725	0.0083
					321	0.3000	0.51		353	2.341	0.0149
					324	1.8002	0.60		356	3.919	0.0183
					338	0.0857	0.62		359	8.396	0.0250
					345	0.5143	0.68		405	9.467	0.0445
					348	1.8002	0.77		417	10.351	0.0877
					356	0.5249	0.84		438	13.368	0.1782
					415	0.1895	0.90		455	10.232	0.2510
					433	0.1667	0.95		514	7.397	0.3119
					505	0.0	0.95		541	5.140	0.3734
					530	0.1200	1.00		610	3.422	0.4185
					557	0.0889	1.04		729	1.536	0.4896
					630	0.0545	1.07		804	1.223	0.5071
					700	0.0400	1.09		844	1.063	0.5238

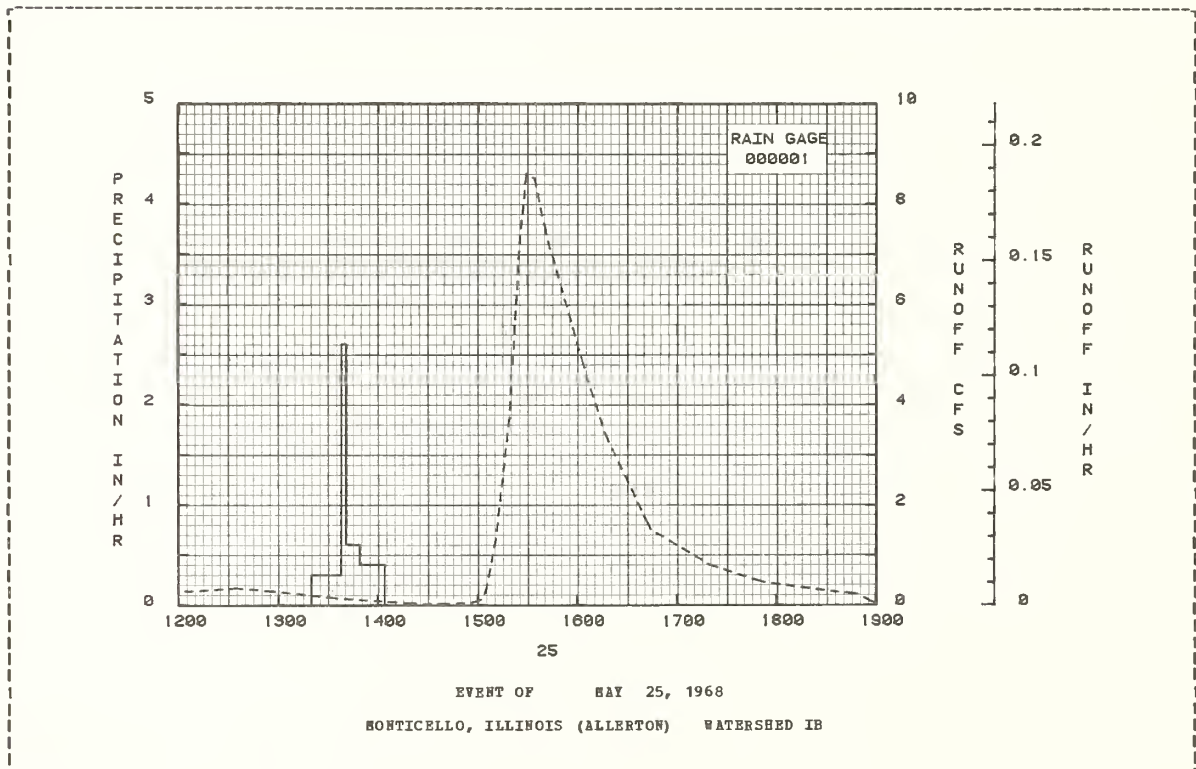
WATERSHED CONDITIONS:
For cropping information,
see table, page 61.002-1.

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



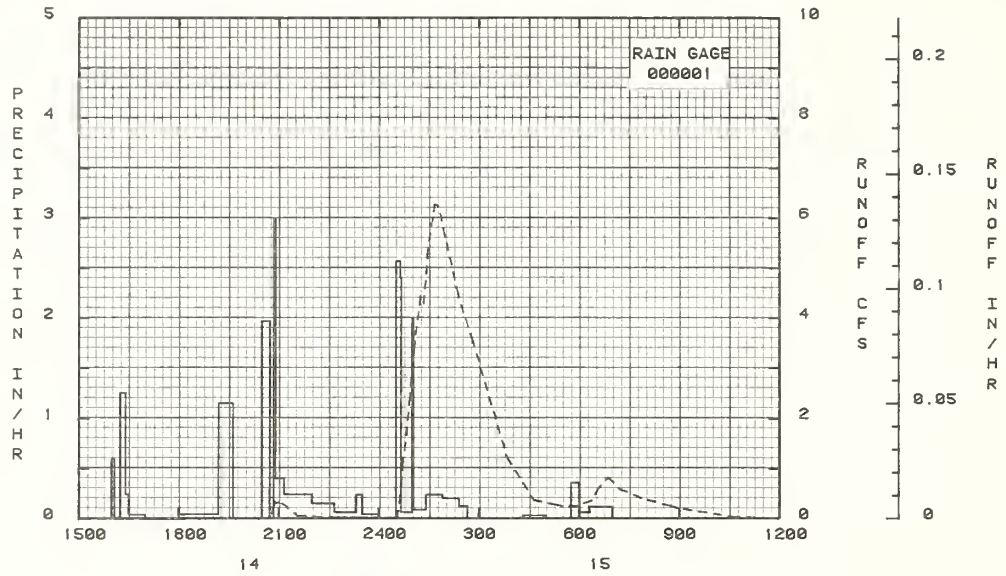
1968 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)			WATERSHED IB				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
			EVENT OF MAY 25, 1968							
5-25	RG 000001 0.38	0.006	5-25	RG 000001 1320	0.0	0.0	5-25	1204	0.277	0.0
				1338	0.3000	0.09		1234	0.340	0.0033
				1341	2.6000	0.22		1258	0.267	0.0060
				1349	0.6000	0.30		1331	0.155	0.0085
				1404	0.4000	0.40		1423	0.029	0.0102
WATERSHED CONDITIONS: For cropping information, see table, page 61.002-1.										
								1443	0.022	0.0104
								1458	0.056	0.0106
								1502	0.114	0.0108
								1505	0.282	0.0110
								1511	1.341	0.0127
								1519	3.756	0.0201
								1525	7.217	0.0321
								1529	8.603	0.0436
								1534	8.489	0.0591
								1541	7.386	0.0793
								1604	4.725	0.1299
								1617	3.388	0.1490
								1644	1.512	0.1731
								1720	0.801	0.1882
								1753	0.446	0.1957
								1849	0.208	0.2023
								2044	0.033	0.2074

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



1968 SELECTED RUNOFF EVENT			MONTICELLO, ILLINOIS (ALLERTON)				WATERSHED ID			
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 14 - 15, 1968										
6-14	RG 000001 0.0	0.0	6-14	RG 000001 1600	0.0	0.0	6-14	1614	0.0	0.0
				1605	0.6000	0.05		1621	0.004	0.0
				1615	0.0	0.05		1628	0.003	0.0
				1625	1.2600	0.26		1638	0.001	0.0
				1630	0.2401	0.28		1649	0.0	0.0
				1700	0.0400	0.30		1906	0.004	0.0001
				1800	0.0	0.30		1915	0.003	0.0001
				1912	0.0417	0.35		1919	0.0	0.0001
				1938	1.1538	0.85		1944	0.0	0.0001
				2030	0.0	0.85		2029	0.004	0.0001
				2044	1.9715	1.31		2040	0.019	0.0002
				2051	0.0	1.31		2044	0.026	0.0002
				2055	3.0000	1.51		2047	0.013	0.0002
				2110	0.4000	1.61		2050	0.106	0.0003
				2200	0.2400	1.81		2054	0.342	0.0006
				2240	0.1500	1.91		2056	0.308	0.0009
				2320	0.0600	1.95		2100	0.330	0.0013
				2330	0.2400	1.99		2107	0.301	0.0021
				2400	0.0400	2.01		2135	0.046	0.0039
			6-15	31	0.0	2.01		2149	0.055	0.0042
				38	2.5715	2.31		2209	0.031	0.0045
				40	2.4001	2.39		2219	0.024	0.0046
				100	0.0600	2.41		2259	0.019	0.0049
				103	2.0001	2.51		2319	0.012	0.0050
				125	0.0818	2.54		2339	0.007	0.0051
				155	0.2400	2.66		2359	0.004	0.0051
				225	0.2000	2.76		2400	0.004	0.0051
				240	0.1200	2.79	6-15	30	0.012	0.0052
				420	0.0	2.79		33	0.051	0.0052
				500	0.0300	2.81		36	0.164	0.0053
				545	0.0	2.81		42	0.824	0.0064
				600	0.3600	2.90		44	1.215	0.0072
				620	0.0600	2.92		50	1.666	0.0103
				700	0.1200	3.00		55	2.362	0.0140
								105	3.531	0.0247
								115	4.446	0.0392
								121	4.288	0.0487
								127	5.253	0.0591
								140	6.266	0.0863
								147	6.227	0.1021
								224	4.396	0.1735
								252	3.422	0.2133
								351	1.202	0.2629
								439	0.364	0.2765
								529	0.240	0.2820
								559	0.250	0.2847
								609	0.315	0.2857
								622	0.357	0.2873
								639	0.665	0.2904
								652	0.822	0.2939
								714	0.579	0.2995
								752	0.410	0.3064
								856	0.208	0.3136
								1035	0.032	0.3179
								1159	0.0	0.3184

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



EVENT OF JUNE 14 - 15, 1968
MORTICELLO, ILLINOIS (ALLERTON) WATERSHED 1B

OXFORD, MISSISSIPPI WATERSHED W-4C

LOCATION: Marshall Co., Miss.; 4.8 mi. SE of Holly Springs, on State Highway No. 4; Chews Creek, Pigeon Hoost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 42 min. 28 sec. N.; Long. 89 deg. 29 min. 39 sec. W.

AREA: 1580.00 acres 2.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-4C		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1974	P	12.03	3.40	2.23	4.59	8.13	4.86	4.87	6.08	5.41	2.75	4.22	5.61	64.18		
	Q	4.253	0.552	0.060	0.268	0.571	0.544	0.160	0.363	0.169	0.062	0.263	0.424	7.687		
STA AV	P	4.48	4.49	5.01	5.08	4.45	3.17	4.11	3.66	4.41	2.59	4.82	5.34	51.60		
	Q	0.874	0.932	0.923	0.753	0.330	0.134	0.247	0.203	0.278	0.100	0.579	0.748	6.101		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval													
			1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.
	1-10	0.182	1-10	0.179	1-10	0.346	1-10	0.918	1-10	1.718	1-10	2.695	1-9	3.232	1-9	3.718
	2-23	0.840	2-23	0.720	2-23	1.130	3-4	1.560	1-10	1.718	1-10	2.695	1-30	3.340	1-27	3.900
	1962		1962		1962		1964		1974		1974		1957		1957	

NOTES: Watershed conditions: About 13% in cultivation (cotton, corn, soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 42% in pasture and idle land, good cover April to October with fair cover remainder of year; 44% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1973. Reported as Watershed W-4 prior to 1965 and from 1965-68 as Watershed W-4A; redesignated as W-4C (1969). Gaging station relocated upstream, Jan. 1965, reducing drainage area from 2,000 to 1,580 acres. About 32% of drainage area above small desilting and retention dams. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 62.1-4. Monthly precipitation Thiessen weighted from rain gages 7, 8 and 18. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1974 DAILY AIR TEMPERATURE (degrees F)														OXFORD, MISSISSIPPI WATERSHED W-4C											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	28	18	72	40	73	56	79	60	68	62	72	63	87	68	87	66	79	66	72	42	78	66	38	31	
2	32	23	74	50	72	60	78	45	78	65	80	60	88	69	86	70	77	68	63	37	82	58	38	31	
3	33	24	49	31	76	64	84	68	82	67	83	55	90	70	85	66	64	50	68	33	81	58	48	22	
4	28	24	52	28	76	64	74	38	68	60	84	60	89	69	84	60	71	44	72	38	69	52	54	18	
5	34	28	61	34	67	56	58	36	67	51	78	68	86	69	84	55	74	51	74	46	60	40	58	23	
6	36	34	64	40	76	56	64	29	76	45	83	59	88	66	86	58	78	62	78	41	55	35	51	37	
7	34	30	36	31	79	60	66	45	78	48	80	64	89	70	83	65	81	60	66	46	51	35	53	43	
8	56	30	32	26	80	62	58	41	75	58	82	68	86	70	84	69	70	68	70	43	59	38	43	19	
9	60	44	44	24	80	56	60	32	77	56	84	70	88	69	88	72	82	70	76	45	66	35	42	19	
10	63	36	54	30	80	54	69	37	84	64	76	62	92	67	89	70	85	70	80	44	67	54	54	25	
11	39	28	54	32	70	62	74	52	70	63	83	56	90	67	88	71	86	69	80	47	59	40	50	38	
12	37	26	66	34	65	47	68	57	78	55	79	62	92	67	89	68	86	68	84	49	54	35	50	34	
13	46	24	66	49	57	43	75	57	85	50	83	56	91	68	84	67	98	61	80	53	64	36	57	30	
14	52	43	62	50	68	35	74	54	84	64	86	60	92	62	84	66	71	55	80	58	50	26	60	31	
15	55	50	50	44	74	47	63	43	67	62	82	62	94	68	87	69	78	52	56	48	50	22	52	35	
16	70	53	52	35	56	36	65	41	85	66	76	58	92	68	87	68	77	55	64	37	54	30	45	30	
17	69	60	60	28	58	31	67	37	86	70	78	52	93	70	91	69	74	58	75	39	53	42	40	24	
18	72	60	56	42	70	42	73	40	89	70	80	61	94	72	88	68	82	52	79	43	57	50	59	26	
19	71	62	49	44	80	47	82	46	91	66	87	65	95	71	89	65	85	53	64	41	73	57	54	30	
20	66	51	60	30	64	46	81	57	89	69	90	70	88	72	89	65	86	60	68	35	62	40	58	30	
21	65	42	62	45	51	31	72	62	84	69	89	72	95	66	90	65	71	55	63	34	65	37	57	31	
22	72	47	51	31	56	25	69	53	72	64	88	69	96	68	89	67	68	49	70	40	72	36	66	33	
23	61	43	55	26	68	30	72	48	80	62	76	61	74	69	90	66	68	42	73	38	74	48	59	48	
24	43	40	48	21	44	28	62	42	84	60	72	55	86	68	91	67	66	47	77	41	62	42	68	47	
25	52	42	34	21	61	35	72	38	78	62	75	50	89	68	91	68	60	54	78	46	48	28	47	33	
26	63	52	49	19	70	36	80	44	68	60	77	49	82	70	91	70	70	58	80	48	54	24	40	32	
27	68	49	58	32	61	54	82	53	76	52	78	52	86	67	89	72	74	61	79	48	53	27	47	40	
28	63	56	63	50	74	50	82	60	82	57	83	53	88	68	87	70	82	60	73	51	59	25	49	43	
29	59	39			80	54	81	63	84	68	84	58	90	69	83	70	70	48	76	63	57	30	59	49	
30	64	32			74	50	81	64	86	69	86	64	84	66	74	70	78	42	79	65	42	31	57	53	
31	70	43			86	44			78	68			88	66	77	67			80	62			72	52	
AV.		54	40	55	35	69	47	72	48	79	61	81	60	89	68	87	67	76	57	73	45	61	39	52	33
MEAN		46.7		44.7		58.2		60.2		70.2		70.8		78.7		76.9		66.7		59.4		50.2		43.0	
STA AV		47	29	52	31	61	39	72	50	80	57	86	64	89	68	89	67	82	60	73	48	62	38	51	31

NOTES: Temperature data from National Weather Service at Holly Springs, 4N, Mississippi. STA AV is for 18 yr (1957-74) record period.

1974 DAILY PRECIPITATION (inches) OXFORD, MISSISSIPPI WATERSHED W-4C												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.09	0.0	0.15	0.26	1.29	0.0	0.0	0.14	0.0	0.0	0.08
2	0.13	0.0	0.0	0.0	0.70	0.0	0.0	0.0	1.14	0.0	0.0	0.0
3	1.51	0.0	0.0	0.0	0.14	0.0	0.0	0.10	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.59	0.0	0.32	0.0	0.0	0.0	0.97	0.0
5	0.19	0.0	0.01	0.0	0.0	0.47	0.16	0.0	0.0	0.0	0.0	0.0
6	0.37	0.10	0.28	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.33
7	0.07	0.0	0.0	0.11	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.17
8	0.18	0.0	0.0	0.46	0.06	0.66	0.0	0.0	1.09	0.0	0.0	0.0
9	2.04	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0
10	4.61	0.0	0.0	0.0	0.0	0.21	0.0	0.17	0.0	0.0	0.28	0.0
11	0.08	0.0	0.32	0.01	0.19	0.0	0.0	0.37	0.40	0.0	0.22	0.55
12	0.0	0.0	0.0	1.74	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.0
14	0.49	0.99	0.0	0.50	0.33	0.0	0.0	0.0	0.06	0.53	0.01	0.35
15	0.05	0.34	0.0	0.0	2.24	0.57	0.0	1.89	0.0	1.67	0.0	0.54
16	0.0	0.18	0.14	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.58	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0
18	0.0	0.93	0.0	0.0	0.0	0.57	0.0	0.05	0.0	0.0	0.03	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.74	0.0
20	0.43	0.0	0.68	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.77	0.51	0.04	0.01	0.0	0.0	0.0	0.95	0.0	0.0	0.0
22	0.01	0.0	0.0	1.54	2.00	0.09	0.98	0.0	0.0	0.0	0.0	0.0
23	0.14	0.0	0.0	0.0	0.0	0.0	3.03	0.0	0.0	0.0	0.0	0.08
24	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	1.86
25	0.0	0.0	0.09	0.0	0.0	0.0	0.02	0.0	0.74	0.0	0.0	0.06
26	0.32	0.0	0.0	0.0	0.32	0.0	1.26	0.02	0.13	0.0	0.0	0.14
27	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.02	0.76	0.0	0.0	0.86
28	0.69	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.06
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.52	0.01	0.38
30	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.63	0.0	0.0	0.06	0.06
31	0.0	0.0	0.0	0.0	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.09
TOTAL	12.03	3.40	2.23	4.59	8.13	4.86	4.97	6.08	5.41	2.75	4.22	5.61
STA AV	4.48	4.49	5.01	5.08	4.45	3.17	4.11	3.66	4.41	2.59	4.82	5.34

NOTES: Daily precipitation values Thiessen weighted from rain gages 7, 8 and 18. STA AV based on 18 yr (1957-74) record period.

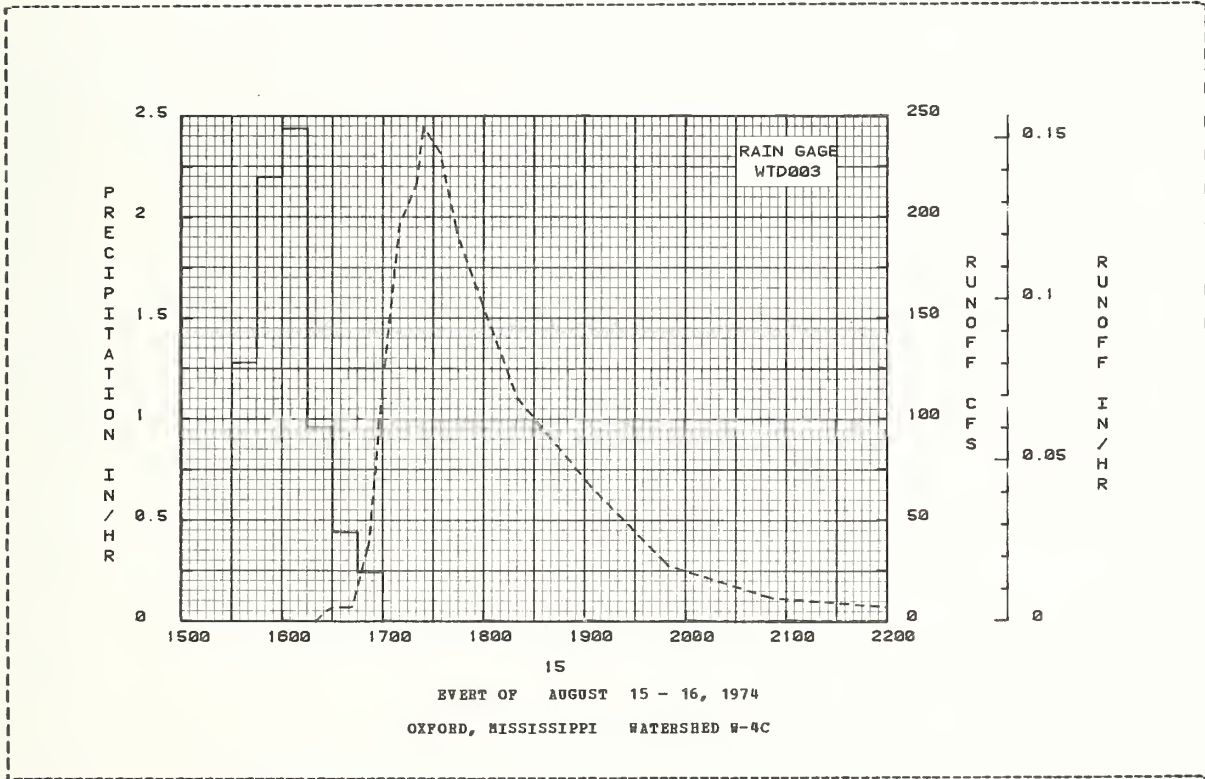
1974 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-4C												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.47	0.29	0.0	0.0	22.21	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.47	0.29	0.0	0.77	0.51	0.0	0.0	4.11	0.0	0.0	0.0
3	13.38	0.47	0.29	0.0	0.0	0.38	0.0	0.0	0.01	0.0	0.0	0.0
4	0.69	0.47	0.29	0.0	1.91	0.29	0.0	0.0	0.0	0.0	0.96	0.0
5	0.38	0.47	0.29	0.0	0.05	0.96	0.0	0.0	0.0	0.0	0.01	0.0
6	0.72	0.47	0.52	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0
7	0.81	0.47	0.15	0.0	0.0	1.09	0.0	0.0	0.0	0.0	0.0	0.0
8	0.38	0.47	0.0	0.0	0.0	3.42	0.0	0.0	2.94	0.0	0.0	0.0
9	50.27	0.47	0.0	0.0	0.0	0.52	0.0	0.0	0.02	0.0	0.0	0.0
10	150.51	0.47	0.0	0.0	0.0	4.44	0.0	0.0	0.0	0.0	0.0	0.0
11	40.03	0.47	0.21	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.27
12	1.65	0.47	0.0	5.73	0.0	0.29	0.0	2.42	0.0	0.0	0.0	0.01
13	0.92	0.47	0.0	0.24	0.0	0.10	0.0	1.93	0.0	0.0	0.0	0.0
14	2.00	2.08	0.0	3.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
15	1.15	2.16	0.0	0.14	13.77	0.54	0.0	16.50	0.0	4.12	0.0	2.06
16	0.72	2.48	0.0	0.0	1.02	0.07	0.0	3.15	0.0	0.01	0.02	0.05
17	0.60	0.47	0.0	0.0	0.31	0.0	0.0	0.11	0.0	0.0	0.04	0.0
18	0.79	3.03	0.0	0.0	0.03	0.74	0.0	0.0	0.0	0.0	0.0	0.0
19	0.49	7.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.13	0.0
20	0.86	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0
21	0.57	8.57	1.63	0.0	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0
22	0.47	1.29	0.0	7.54	17.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.24	0.29	0.0	0.49	1.01	0.0	9.23	0.0	0.0	0.0	0.0	0.0
24	2.25	0.29	0.0	0.03	0.38	0.0	0.01	0.0	0.0	0.0	0.0	5.59
25	0.68	0.29	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	8.81
26	1.40	0.29	0.0	0.0	0.47	0.0	1.27	0.0	0.0	0.0	0.0	0.31
27	0.79	0.29	0.0	0.0	0.09	0.0	0.10	0.0	3.03	0.0	0.0	7.30
28	7.69	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.19
29	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.85
30	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38
31	0.47	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.29
MEAN	9.1063	1.3091	0.1278	0.5923	1.2219	1.2044	0.3420	0.7775	0.3733	0.1332	0.5822	0.9069
INCHES	4.253	0.552	0.060	0.268	0.571	0.544	0.160	0.363	0.169	0.062	0.263	0.424
STA AV	0.874	0.932	0.923	0.753	0.330	0.134	0.247	0.203	0.278	0.100	0.579	0.748

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.01506. STA AV based on 18 yr (1957-74) record period. Quality of records: Good, estimated to be within 10% of actual.

1974 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-4C				
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 15 - 16, 1974										
8-15	RG WTD003 0.0	0.0	8-15	RG WTD003 1530	0.0	0.0	8-15	1620	0.0	0.0
				1545	1.2800	0.32		1628	5.982	0.0003
				1600	2.2000	0.87		1630	6.531	0.0004
				1615	2.4400	1.48		1642	7.100	0.0013
				1630	0.9600	1.72		1652	39.228	0.0037
				1645	0.4400	1.83		1700	118.056	0.0104
				1700	0.2400	1.89		1710	196.695	0.0266
								1720	216.375	0.0884
								1724	244.480	0.0580
								1734	231.555	0.0831
								1744	191.875	0.1049
								1758	159.255	0.1307
								1820	110.056	0.1618
								1904	66.200	0.2024
								1950	26.936	0.2248
								2052	10.911	0.2370
								2206	6.531	0.2438
								2306	3.572	0.2469
								2400	2.400	0.2486
				8-16				210	1.435	0.2512
								356	0.471	0.2523
								1122	0.0	0.2534

WATERSHED CONDITIONS:
 About 13% of area in cultivation, primarily cotton, poor to fair cover; 40% in pasture and idle land with fair to good cover; 46% in woods, good cover; 1% bare gullies.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent P and Q, see tables on pp. 62001-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-5

LOCATION: Marshall Co., Miss.; 6.1 mi. SW of Holly Springs, on State Highway No. 4; Willie Wilkins Creek, Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 41 min. 55 sec. N.; Long. 89 deg. 30 min. 44 sec. W.

AREA: 1000.00 acres 1.56 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-5	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	12.48	3.28	2.31	4.98	8.31	4.86	3.96	4.33	4.83	2.92	4.40	5.60	62.26
	Q	7.761	1.264	0.347	1.318	2.265	1.397	0.490	0.252	0.339	0.268	1.119	2.957	19.778
STA AV	P	4.55	4.48	5.09	5.18	4.59	3.38	3.95	3.80	4.38	2.52	4.84	5.44	52.19
	Q	1.847	1.865	1.947	1.649	0.885	0.456	0.445	0.368	0.449	0.194	1.120	1.865	13.090

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
	11-19	0.428	11-19	0.357	11-19	0.540	1-10	1.349	1-10	2.601	1-10	4.225	1-9	5.407	1-3	6.580
MAXIMUMS FOR PERIOD OF RECORD																
	2-21	1.626	2-21	1.152	3-4	1.630	3-4	2.120	11-6	2.807	1-10	4.225	1-9	5.407	1-3	6.580
	1971		1971		1964		1964		1972		1974		1974		1974	

NOTES: Watershed conditions: About 29% in cultivation (cotton, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 45% in pasture and idle land, good cover April to October with fair cover remainder of year; 25% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1973. About 33% of drainage area above small desilting and retention dams. Gaging station relocated upstream 10-1-69 reducing area from 1130 to 1000 acres. For map of watershed see Selected Runoff Events for Small Agricultural Watersheds in the United States, ARS, SWC, January 1960, p. 62.2-3. Monthly precipitation Thiessen weighted from rain gages 8 and 19. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, AR, Mississippi.

1974 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.10	0.0	0.19	0.13	1.22	0.0	0.0	0.15	0.0	0.0	0.08			
2	0.10	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.79	0.0	0.0	0.0			
3	1.40	0.0	0.0	0.0	0.18	0.0	0.0	0.13	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.49	0.0	0.25	0.0	0.0	0.0	0.95	0.0			
5	0.15	0.0	0.04	0.0	0.0	0.27	0.04	0.0	0.0	0.0	0.0	0.0			
6	0.49	0.12	0.31	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.25			
7	0.22	0.0	0.0	0.06	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.22			
8	0.19	0.0	0.0	0.44	0.07	0.77	0.06	0.0	0.83	0.0	0.0	0.0			
9	2.19	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0			
10	4.76	0.0	0.0	0.0	0.0	0.20	0.0	0.14	0.0	0.0	0.32	0.0			
11	0.14	0.0	0.25	0.04	0.29	0.0	0.02	0.43	0.42	0.0	0.18	0.49			
12	0.01	0.0	0.0	1.76	0.0	0.0	0.01	1.36	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0			
14	0.50	0.92	0.0	0.73	0.32	0.0	0.06	0.0	0.02	0.62	0.04	0.34			
15	0.05	0.28	0.0	0.0	2.23	0.52	0.0	0.41	0.0	1.67	0.0	0.47			
16	0.0	0.11	0.15	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.64	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	0.94	0.0	0.0	0.0	0.61	0.0	0.07	0.0	0.0	0.05	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.84	0.0			
20	0.39	0.0	0.69	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.81	0.54	0.07	0.03	0.0	0.0	0.0	0.93	0.0	0.0	0.0			
22	0.91	0.0	0.0	1.64	2.15	0.12	0.05	0.0	0.0	0.0	0.0	0.0			
23	0.15	0.0	0.0	0.0	0.0	0.0	2.56	0.0	0.0	0.0	0.0	0.06			
24	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	1.99			
25	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.08			
26	0.27	0.0	0.0	0.0	0.36	0.0	0.91	0.03	0.02	0.0	0.0	0.16			
27	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.03	0.92	0.0	0.0	0.85			
28	0.66	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.08			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.59	0.01	0.37			
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.58	0.0	0.0	0.08	0.05			
31	0.0	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11			
TOTAL	12.48	3.28	2.31	4.98	8.31	4.86	3.96	4.33	4.83	2.92	4.40	5.60			
STA AV	4.55	4.48	5.09	5.18	4.59	3.38	3.95	3.80	4.38	2.52	4.84	5.44			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 8 and 19. STA AV based on 18 yr (1957-74) record period.

1974		MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI WATERSHED W-5					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.21	0.51	0.17	0.23	0.18	35.43	0.17	0.25	0.15	0.08	0.34	0.14
2	0.25	0.44	0.17	0.19	1.13	0.48	0.17	0.25	4.32	0.09	0.34	0.14
3	34.56	0.31	0.17	0.17	0.21	0.26	0.17	0.25	0.34	0.08	0.39	0.14
4	0.73	0.21	0.15	0.17	2.88	0.15	0.17	0.25	0.17	0.10	1.17	0.14
5	0.23	0.20	0.15	0.17	1.02	0.19	0.17	0.23	0.17	0.11	0.40	0.15
6	1.51	0.17	0.18	0.17	0.32	0.15	0.17	0.17	0.17	0.11	0.08	0.21
7	0.62	0.21	0.14	0.23	0.23	0.22	0.17	0.11	0.17	0.11	0.07	0.20
8	0.19	0.19	0.13	0.35	0.21	6.92	0.17	0.08	0.17	0.11	0.07	0.14
9	65.76	0.15	0.14	0.21	0.21	0.23	0.17	0.09	0.17	0.11	0.06	0.12
10	151.18	0.14	0.14	0.21	0.17	10.38	0.17	0.08	0.17	0.11	0.07	0.14
11	37.54	0.14	0.15	0.23	0.14	0.14	0.17	0.10	0.17	0.11	0.07	3.44
12	0.29	0.14	0.17	18.43	0.14	0.14	0.17	1.38	0.17	0.11	0.06	1.01
13	0.30	0.15	0.15	0.69	0.17	0.14	0.17	0.92	0.17	0.12	0.07	0.21
14	4.54	1.24	0.14	8.60	0.0	0.14	0.17	0.12	0.14	0.32	0.07	0.27
15	0.33	1.11	0.14	1.19	29.20	0.14	0.19	2.99	0.11	7.01	0.08	16.25
16	0.16	5.55	0.14	0.19	2.93	0.14	0.34	0.61	0.11	0.44	0.08	1.03
17	0.11	0.42	0.14	0.17	0.65	0.13	0.25	0.36	0.11	0.13	0.09	0.23
18	0.11	7.48	0.14	0.17	0.54	0.57	0.25	0.21	0.11	0.11	0.08	0.21
19	0.11	11.88	0.13	0.17	0.50	0.48	0.25	0.21	0.10	0.10	37.48	0.21
20	0.11	0.18	0.22	0.17	0.48	0.37	0.25	0.21	0.11	0.08	2.01	0.21
21	0.11	17.90	6.52	0.17	0.48	0.27	0.25	0.21	0.30	0.08	0.73	0.21
22	0.11	3.05	0.79	19.26	37.25	0.23	0.21	0.21	0.14	0.08	1.01	0.21
23	0.25	0.36	0.65	1.43	3.78	0.19	13.19	0.21	0.14	0.09	0.89	0.21
24	9.23	0.23	0.57	0.48	2.35	0.17	0.93	0.19	0.14	0.08	0.49	29.62
25	0.15	0.25	0.58	0.39	2.35	0.17	0.50	0.15	0.14	0.09	0.13	23.77
26	1.26	0.19	0.54	0.34	2.35	0.17	0.32	0.12	0.12	0.13	0.14	1.79
27	0.13	0.14	0.44	0.34	2.35	0.17	0.27	0.11	5.61	0.17	0.14	25.41
28	13.56	0.15	0.39	0.37	1.40	0.17	0.25	0.11	0.21	0.19	0.14	4.76
29	1.23	0.39	0.30	0.44	0.17	0.17	0.25	0.12	0.06	0.23	0.14	10.39
30	0.61	0.34	0.21	0.44	0.17	0.17	0.25	0.14	0.07	0.27	0.13	2.19
31	0.57	0.28	0.28	0.65	0.65	0.65	0.25	0.14	0.32	0.32	1.07	1.07
MEAN	10.518	1.896	0.470	1.847	3.070	1.957	0.665	0.342	0.475	0.363	1.567	4.008
INCRS	7.761	1.264	0.347	1.318	2.265	1.397	0.490	0.252	0.339	0.268	1.119	2.957
STA AV	1.847	1.865	1.947	1.649	0.885	0.456	0.445	0.368	0.449	0.194	1.120	1.865

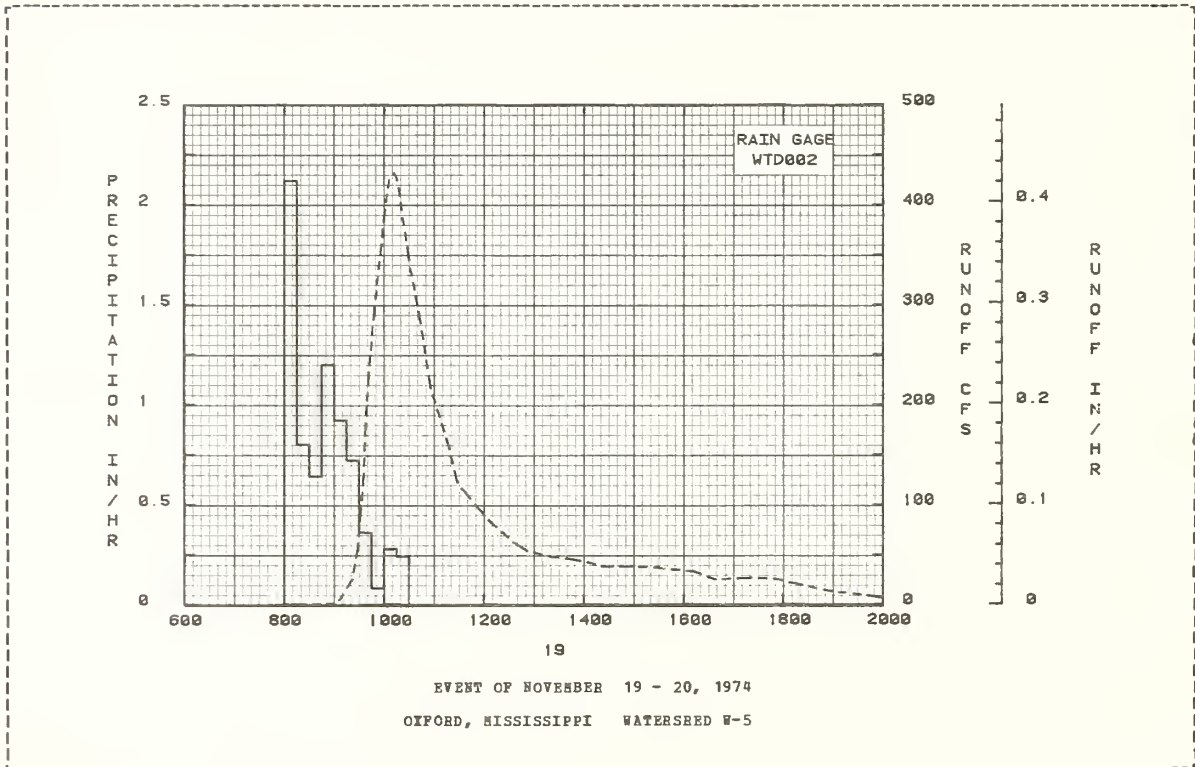
NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.0237978. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 18 yr (1957-74) record period.

1974			SELECTED RUNOFF EVENT				OXFORD, MISSISSIPPI WATERSHED W-5			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 19 - 20, 1974										
11-19	RG WTD002 0.0	0.001	11-19	800	0.0	0.0	11-19	814	0.086	0.0
				815	2.1200	0.53		826	0.651	0.0001
				830	0.8000	0.73		834	0.739	0.0002
				845	0.6400	0.89		844	0.840	0.0003
				900	1.2000	1.19		852	1.074	0.0005
				915	0.9200	1.42		900	1.494	0.0006
				930	0.7200	1.60		906	4.600	0.0009
				945	0.3600	1.69		922	25.300	0.0049
				1000	0.0800	1.71		928	54.595	0.0089
				1015	0.2800	1.78		932	90.000	0.0136
				1030	0.2400	1.84		936	131.995	0.0210
								938	182.000	0.0264
								942	232.736	0.0401
								948	291.398	0.0655
								956	353.677	0.1079
								1000	388.000	0.1338
								1006	425.500	0.1732
								1012	431.500	0.2163
								1016	424.000	0.2445
								1030	344.186	0.3338
								1044	280.600	0.4052
								1056	216.226	0.4542
								1116	163.000	0.5174
								1128	122.055	0.5456
								1138	111.526	0.5650
								1154	95.600	0.5923
								1208	82.000	0.6129
								1222	72.536	0.6306
								1238	60.659	0.6484
								1252	53.400	0.6614

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on pp. 62002-1 and 2.

1974 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-5				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 19 - 20, 1974 (CONTINUED)										
							11-19	1322	47.400	0.6864
								1330	47.400	0.6928
								1356	43.200	0.7121
								1426	37.763	0.7322
								1458	37.763	0.7522
								1528	36.580	0.7706
								1612	32.654	0.7958
								1638	24.784	0.8082
								1722	26.843	0.8269
								1750	25.300	0.8390
								1814	20.693	0.8481
								1858	12.795	0.8603
								1944	8.422	0.8683
								2042	5.909	0.8752
								2158	5.371	0.8822
								2328	4.103	0.8893
								2400	3.625	0.8913
							11-20	2400	0.390	0.9391

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



OXFORD, MISSISSIPPI WATERSHED W-17

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Holy Springs on County road; Pigeon Hoost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 45 min. 11 sec. N.; Long. 89 deg. 34 min. 54 sec. W.

AREA: 32100.00 acres 50.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-17		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1974	P	11.48	3.09	2.62	4.20	7.85	4.80	4.75	5.74	4.48	2.89	4.43	5.65	61.98		
	Q	4.949	0.897	0.550	0.656	1.253	1.098	0.663	0.935	0.392	0.414	0.999	1.404	14.211		
STA AV	P	4.49	4.50	5.02	5.14	4.65	3.35	4.29	3.86	4.11	2.48	4.79	5.44	52.12		
	Q	1.368	1.393	1.577	1.318	0.885	0.477	0.638	0.536	0.457	0.301	0.882	1.317	11.148		

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.			
	1-10	0.170	1-10	0.169	1-10	0.335	1-10	0.932	1-10	1.800	1-10	2.840	1-9	3.365	1-3	3.935
	7-3	0.265	7-3	0.265	7-3	0.529	7-3	1.553	7-3	2.413	1-10	2.840	1-9	3.365	3-24	4.680
	1972		1972		1972		1972		1972		1974		1974		1965	

NOTES: Watershed conditions: About 18% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% in bare gullies; 5% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1972. About 19% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from 13 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1974 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-17	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.06	0.0	0.11	0.24	1.00	0.0	0.0	0.11	0.0	0.0	0.04			
2	0.11	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.53	0.0	0.0	0.0			
3	1.19	0.0	0.0	0.0	0.19	0.0	0.0	0.11	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.51	0.0	0.16	0.0	0.0	0.0	0.0	0.81			
5	0.16	0.0	0.01	0.0	0.0	0.28	0.03	0.0	0.0	0.0	0.0	0.0			
6	0.50	0.20	0.71	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.23		
7	0.22	0.0	0.0	0.04	0.0	0.47	0.0	0.0 T	0.0	0.0	0.0	0.0	0.15		
8	0.23	0.0	0.0	0.30	0.08	1.05	0.36	0.0	0.97	0.0	0.0	0.0	0.0		
9	1.54	0.0	0.0	0.0 T	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.6		
10	4.50	0.0	0.0	0.0	0.0	0.18	0.0	0.21	0.6	0.0	0.34	0.0	0.0		
11	0.07	0.0	0.36	0.02	0.28	0.0	0.17	0.36	0.34	0.0	0.20	0.53	0.0		
12	0.0 T	0.0	0.0	1.85	0.0	0.0	0.0 T	1.81	0.07	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0 T	0.0	0.0	0.0	0.0		
14	0.50	1.03	0.0	0.26	0.29	0.0	0.04	0.0	0.06	0.64	0.02	0.36	0.0		
15	0.04	0.23	0.0 T	0.0	2.17	0.60	0.11	0.62	0.0	1.66	0.0	0.43	0.0		
16	0.0	0.13	0.16	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.62	0.0	0.0		
17	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0		
18	0.0	0.82	0.0	0.0 T	0.0	0.53	0.0	0.07	0.0	0.0	0.07	0.0	0.0		
19	0.0	0.0 T	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.86	0.0	0.0		
20	0.43	0.0	0.56	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.62	0.56	0.04	0.02	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0		
22	0.01	0.0	0.0	1.52	2.07	0.10	0.07	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.13	0.0	0.0	0.0	0.0	0.0	2.63	0.0	0.0	0.0	0.0	0.11	0.0		
24	0.62	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.32	2.14	0.0		
25	0.22	0.0	0.06	0.0	0.0	0.0	0.0 T	0.0	0.78	0.0	0.0	0.08	0.0		
26	0.30	0.0	0.0	0.0	0.33	0.0	1.17	0.09	0.02	0.0	0.0	0.15	0.0		
27	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.26	0.76	0.0	0.0	0.81	0.0		
28	0.71	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.09	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.50	0.04	0.33	0.0		
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.44	0.0	0.0	0.07	0.06	0.0		
31	0.0	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0		
TOTAL	11.48	3.09	2.62	4.20	7.85	4.80	4.75	5.74	4.48	2.89	4.43	5.65			
STA AV	4.49	4.50	5.02	5.14	4.65	3.35	4.29	3.86	4.11	2.48	4.79	5.44			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22 and 31. STA AV based on 18 yr (1957-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-17												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	17.0	18.1	23.6	13.5	15.2	397.3	14.3	14.3	15.8	13.9	12.9	19.8
2	18.1	18.6	22.4	13.1	23.9	30.1	13.4	14.2	17.8	13.2	13.1	19.0
3	400.4	16.7	21.3	12.4	17.0	14.7	12.7	14.3	15.2	13.6	13.5	18.2
4	40.9	15.8	21.2	12.4	46.9	13.2	14.4	14.7	13.9	13.5	19.1	18.3
5	16.7	16.2	22.0	12.5	24.9	15.6	16.7	14.4	13.2	13.2	17.8	18.3
6	52.7	22.7	118.3	12.4	17.3	14.6	17.4	14.3	13.9	13.1	13.8	19.0
7	43.3	17.0	24.8	12.7	15.9	18.6	17.3	14.7	13.8	12.7	13.4	22.7
8	22.1	15.8	17.1	13.4	15.2	396.8	25.6	15.0	41.1	12.5	12.9	19.3
9	861.2	15.9	16.3	12.9	15.1	29.7	22.5	15.5	20.1	12.4	13.1	19.0
10	3099.2	15.2	16.7	12.8	15.2	205.8	19.4	15.0	12.0	12.4	14.4	19.0
11	1054.0	14.6	28.2	12.9	15.2	24.4	19.8	14.7	10.9	12.5	15.8	32.5
12	75.7	14.4	18.2	210.9	15.2	17.0	18.6	305.9	13.5	12.4	15.2	20.6
13	48.8	14.0	17.4	23.5	15.2	15.0	17.1	323.7	12.9	12.4	15.2	16.7
14	83.3	39.2	17.4	59.6	15.5	13.6	15.5	20.4	12.8	14.2	15.8	17.1
15	37.9	16.6	18.3	23.1	535.3	26.4	16.9	127.7	12.9	135.3	15.8	93.2
16	25.5	134.6	17.3	16.9	77.0	28.5	16.9	81.2	12.9	30.3	17.4	25.6
17	19.8	18.1	16.5	14.6	22.7	14.7	15.0	24.4	13.1	16.2	23.3	21.2
18	16.7	22.9	16.5	14.4	20.1	26.3	14.6	16.5	13.5	15.0	17.8	19.7
19	16.0	301.2	16.0	14.4	21.2	17.5	15.0	14.7	13.9	14.3	790.8	18.7
20	42.8	24.0	16.2	14.3	20.5	14.8	15.5	14.0	14.0	13.9	79.2	17.7
21	24.8	204.9	104.3	15.2	20.1	14.7	15.8	14.2	23.6	13.5	25.4	17.0
22	15.2	76.5	19.2	210.9	491.2	14.7	16.2	14.2	15.2	13.6	20.2	16.7
23	15.0	31.3	16.5	25.2	67.2	14.7	343.5	14.3	14.7	13.5	18.6	17.3
24	153.9	27.9	15.8	17.4	22.7	15.2	25.4	14.4	14.8	13.6	20.1	319.4
25	39.8	25.4	14.7	15.5	19.3	14.3	17.1	14.0	21.0	13.5	20.5	436.3
26	60.4	24.4	14.0	14.2	19.8	13.6	63.4	14.2	16.9	13.6	19.0	59.2
27	32.9	24.5	14.4	13.2	19.3	14.7	15.9	15.2	67.8	13.8	18.7	299.8
28	267.2	24.0	15.0	13.4	18.1	14.6	14.4	15.2	17.1	14.2	17.9	89.8
29	34.4		15.0	13.5	16.3	14.4	14.6	17.9	15.0	16.5	17.7	93.7
30	21.8		14.0	13.6	14.7	14.7	14.4	20.9	15.0	13.1	18.6	41.8
31	17.4		13.6		16.7		14.4	17.4		12.9		26.6
MEAN	215.32	43.23	23.94	29.49	54.52	49.34	28.83	40.69	17.62	18.02	44.91	61.08
INCHES	4.949	0.897	0.550	0.656	1.253	1.098	0.663	0.935	0.392	0.414	0.999	1.404
STA AV	1.368	1.393	1.577	1.318	0.885	0.477	0.638	0.536	0.457	0.301	0.882	1.317

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0007415. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 18 yr (1957-74) record period.

1974 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-17											
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 JANUARY 10 - 12, 1974											
1-10	RG WTD013 0.0	0.033	1-10	RG WTD013	130	0.0	0.0	1-10	444	165.000	0.0
					145	0.0010	0.0		500	169.000	0.0014
					200	0.0	0.0		514	181.000	0.0026
					215	0.0	0.0		530	189.000	0.0041
					230	0.0	0.0		546	198.920	0.0057
WATERSHED CONDITIONS:					300	0.0	0.0		600	208.633	0.0072
About 18% of area in cultivation, primarily cotton,					315	0.0005	0.0		618	255.000	0.0094
poor to fair cover; 28% in pasture and idle land, fair to					330	0.0400	0.01		632	326.000	0.0115
good cover; 48% in woods, good					345	0.0800	0.03		648	431.000	0.0146
cover; 1% in bare gullies;					400	0.2000	0.08		702	536.000	0.0181
5% urban.					415	0.1600	0.12		718	650.000	0.0229
					430	0.2000	0.17		724	1004.000	0.0255
					445	0.1600	0.21		728	1355.000	0.0279
					500	0.2400	0.27		730	1785.000	0.0295
					515	0.4800	0.39		734	1812.500	0.0332
					530	0.4400	0.50		740	1796.000	0.0388
					545	0.5200	0.63		748	1856.500	0.0463
					600	0.4000	0.73		802	2125.998	0.0607
					615	0.2800	0.80		812	2334.998	0.0722
					630	0.1600	0.84		822	2613.997	0.0849
					645	0.1609	0.88		832	2895.998	0.0991
					700	0.2400	0.94		844	3219.997	0.1180
					715	0.2400	1.00		900	3519.996	0.1458
					730	0.2000	1.05		914	3723.997	0.1719
					745	0.2000	1.10		926	3837.840	0.1952
					800	0.1600	1.14		934	3873.794	0.2111
					815	0.2000	1.19		944	3951.499	0.2313
					830	0.2000	1.24		958	3886.297	0.2595
					845	0.1600	1.28		1014	3843.759	0.2914
					900	0.2000	1.33		1030	3783.997	0.3228

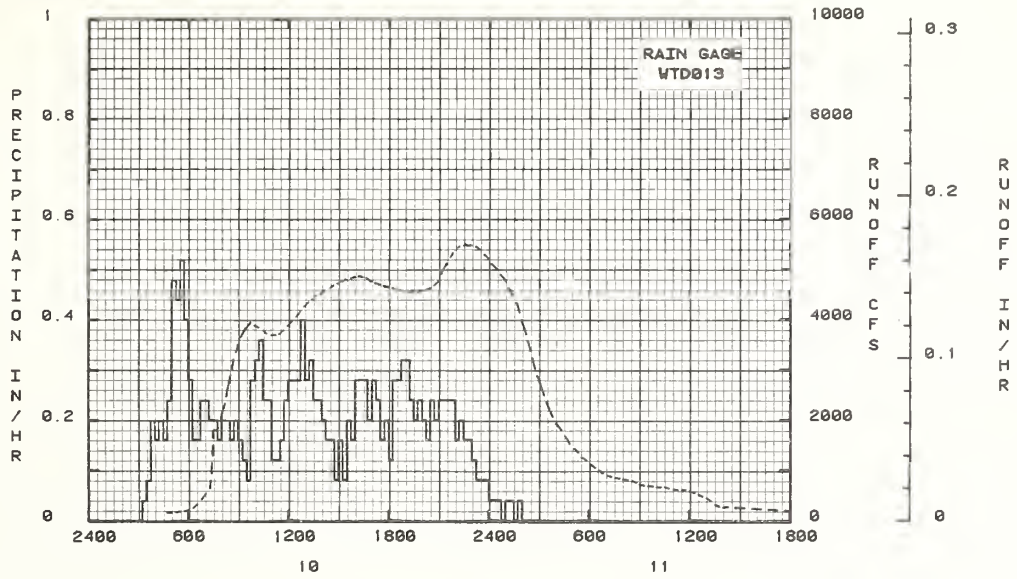
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000309. Thiessen weighted storm rainfall, rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22, and 31. For 30-day antecedent P and Q, see tables on pp. 62.005-1 and 2.

1974 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-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 JANUARY 10 - 12, 1974 (CONTINUED)										
			1-10	915	0.1600	1.37	1-10	1042	3717.997	0.3460
				930	0.1200	1.40		1100	3693.997	0.3803
				945	0.0800	1.42		1114	3693.997	0.4069
				1000	0.2800	1.49		1128	3723.997	0.4337
				1015	0.3200	1.57		1142	3789.997	0.4608
				1030	0.3600	1.66		1158	3879.999	0.4924
				1045	0.2400	1.72		1212	3977.497	0.5207
				1100	0.2400	1.78		1228	4068.496	0.5538
				1115	0.1200	1.81		1242	4172.484	0.5835
				1130	0.1203	1.84		1256	4269.984	0.6139
				1145	0.1600	1.88		1312	4355.617	0.6495
				1200	0.2400	1.94		1326	4411.984	0.6811
				1215	0.2800	2.01		1340	4481.984	0.7131
				1230	0.2800	2.08		1356	4530.984	0.7503
				1245	0.2800	2.15		1410	4579.980	0.7831
				1300	0.4000	2.25		1428	4628.984	0.8258
				1315	0.2800	2.32		1442	4684.984	0.8594
				1330	0.3200	2.40		1456	4726.984	0.8933
				1345	0.2400	2.46		1504	4747.984	0.9128
				1400	0.2400	2.52		1512	4768.984	0.9324
				1415	0.2000	2.57		1526	4803.984	0.9669
				1430	0.1600	2.61		1544	4824.984	1.0115
				1445	0.1600	2.65		1558	4852.984	1.0464
				1500	0.0800	2.67		1612	4866.984	1.0814
				1515	0.1600	2.71		1626	4845.984	1.1164
				1530	0.0800	2.73		1640	4824.984	1.1513
				1545	0.2000	2.78		1656	4761.984	1.1908
				1600	0.1600	2.82		1712	4726.984	1.2299
				1615	0.2800	2.89		1726	4698.984	1.2639
				1630	0.2805	2.96		1742	4670.984	1.3025
				1645	0.2800	3.03		1758	4642.984	1.3408
				1700	0.2000	3.08		1812	4621.984	1.3742
				1715	0.2800	3.15		1828	4600.984	1.4122
				1730	0.2400	3.21		1840	4593.984	1.4406
				1745	0.1600	3.25		1856	4565.984	1.4784
				1800	0.2000	3.30		1912	4558.984	1.5159
				1815	0.1200	3.33		1926	4551.984	1.5488
				1830	0.2800	3.40		1944	4544.984	1.5909
				1845	0.2800	3.47		1958	4572.984	1.6238
				1900	0.3200	3.55		2010	4593.984	1.6521
				1915	0.3200	3.63		2028	4628.984	1.6949
				1930	0.2400	3.69		2042	4684.984	1.7284
				1945	0.2000	3.74		2100	4775.984	1.7723
				2000	0.2400	3.80		2112	4964.984	1.8024
				2015	0.2000	3.85		2128	5118.984	1.8439
				2030	0.1600	3.89		2142	5244.984	1.8813
				2045	0.2400	3.95		2150	5328.984	1.9031
				2100	0.2000	4.00		2158	5412.984	1.9252
				2115	0.2394	4.06		2214	5461.984	1.9700
				2130	0.2400	4.12		2230	5482.984	2.0151
				2145	0.2400	4.18		2236	5510.984	2.0320
				2200	0.2400	4.24		2242	5482.984	2.0490
				2215	0.1600	4.28		2258	5475.984	2.0942
				2230	0.2000	4.33		2314	5447.984	2.1392
				2245	0.1600	4.37		2328	5384.984	2.1782
				2300	0.1600	4.41		2344	5293.984	2.2222
				2315	0.1200	4.44		2400	5188.984	2.2654
				2330	0.0800	4.46	1-11	12	5097.984	2.2972
				2345	0.0800	4.48		28	5006.984	2.3388
				2400	0.0800	4.50		42	4887.984	2.3745
			1-11	15	0.0400	4.51		100	4768.984	2.4192
				30	0.0400	4.52		112	4607.984	2.4482
				45	0.0400	4.53		128	4474.984	2.4856
				100	0.0	4.53		144	4282.906	2.5217
				115	0.0400	4.54		158	3970.999	2.5514
				130	0.0400	4.55		214	3699.997	2.5830
				145	0.0	4.55		230	3375.999	2.6122
				200	0.0400	4.56		246	3021.998	2.6385
				215	0.0	4.56		302	2745.999	2.6623
				230	0.0	4.56		318	2488.677	2.6839
				245	0.0	4.56		334	2268.999	2.7035
				530	0.0	4.56		350	2059.999	2.7213
				545	0.0	4.56		404	1911.500	2.7356
				600	0.0010	4.56		420	1796.000	2.7509
								438	1641.638	2.7668

NOTES: To convert runoff in CFS to IR/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22, and 31. For 30-day antecedent P and Q, see tables on pp. 62.005-1 and 2.

1974 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-17				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JANUARY 10 - 12, 1974 (CONTINUED)										
							1-11	450	1519.999	2.7766
								508	1420.000	2.7902
								522	1345.000	2.8002
								534	1255.000	2.8082
								550	1190.000	2.8183
								604	1114.978	2.8266
								622	1038.343	2.8365
								638	989.000	2.8449
								650	930.500	2.8508
								706	894.499	2.8583
								720	863.000	2.8647
								734	840.500	2.8708
								750	831.500	2.8777
								804	813.500	2.8836
								820	804.500	2.8903
								836	782.000	2.8968
								850	750.500	2.9024
								904	714.500	2.9076
								918	687.500	2.9127
								934	678.500	2.9183
								950	669.500	2.9239
								1004	665.000	2.9287
								1018	660.478	2.9335
								1034	655.918	2.9389
								1048	633.133	2.9435
								1104	611.678	2.9487
								1118	595.760	2.9530
								1134	595.760	2.9579
								1148	595.760	2.9622
								1202	580.000	2.9664
								1220	544.000	2.9717
								1234	512.000	2.9755
								1248	468.000	2.9790
								1302	436.000	2.9822
								1318	383.000	2.9856
								1334	313.918	2.9885
								1348	265.000	2.9906
								1402	262.500	2.9925
								1418	255.000	2.9946
								1448	250.000	2.9985
								1518	240.000	3.0023
								1548	229.760	3.0059
								1618	217.298	3.0094
								1646	208.633	3.0124
								1716	196.978	3.0156
								1746	189.000	3.0186
								1818	177.000	3.0216
								1850	171.000	3.0244
								1918	165.000	3.0269
								1948	157.000	3.0293
								2018	155.000	3.0318
								2048	142.856	3.0341
								2232	127.608	3.0413
								2400	118.751	3.0469
							1-12	128	108.313	3.0520
								258	103.256	3.0569
								600	69.437	3.0660
								900	80.406	3.0738
								1156	70.000	3.0806
								1756	60.352	3.0927
								2400	49.453	3.1030

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22, and 31. For 30-day antecedent P and Q, see tables on pp. 62.005-1 and 2.



EVENT OF JANUARY 10 - 12, 1974
 OXFORD, MISSISSIPPI WATERSHED W-17

OXFORD, MISSISSIPPI WATERSHED W-32

LOCATION: Marshall Co., Miss.; 4.6 mi. E of Walhill on County road; Cnffawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 42 min. 56 sec. N.; Long. 89 deg. 37 min. 30 sec. W.

AREA: 20000.00 acres 31.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-32	
	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec	Annual	
1974	P 12.42	3.29	2.43	5.11	8.96	5.78	3.51	4.66	4.85	2.90	4.64	5.63	64.18	
	Q 7.475	0.930	0.236	1.035	1.816	1.563	0.099	0.178	0.150	0.070	0.850	1.260	15.661	
STA AV	P 4.61	4.56	5.18	5.28	5.09	3.54	4.10	3.69	4.43	2.52	4.94	5.57	53.50	
	Q 1.631	1.617	1.843	1.531	1.100	0.404	0.373	0.346	0.378	0.119	0.978	1.628	11.948	

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				2 Days		8 Days				
		Date	Vol.	Date	Vol.	6 Hours Date	12 Hours Date	1 Day Date	Vol.	Date	Vol.	Date	Vol.			
1974	6-8	0.224	1-10	0.218	1-10	0.426	1-10	1.185	1-10	2.292	1-10	3.595	1-9	4.673	1-3	5.937
MAXIMUMS FOR PERIOD OF RECORD																
	2-23	0.570	2-23	0.560	7-9	0.960	12-3	1.940	12-3	2.450	1-10	3.595	1-9	4.673	3-24	6.130
	1962		1962		1967		1964		1964		1974		1974		1965	

NOTES: Watershed conditions: About 27% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 32% in pasture and idle land, good cover April to October with fair cover remainder of year; 40% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on latest survey completed in 1972. About 23% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.10-5. Monthly precipitation Thiessen weighted from 9 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1974 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-32	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.04	0.0	0.23	0.34	0.93	0.0	0.0	0.15	0.0	0.0	0.04		
2	0.11	0.0	0.0	0.0	0.54	0.0	0.0	0.02	1.02	0.0	0.0	0.0 T		
3	1.46	0.0	0.0	0.0	0.03	0.0	0.0	0.12	0.0	0.0	0.0	0.0		
4	0.0 T	0.0	0.0	0.0	1.02	0.0	0.16	0.0	0.0	0.0	0.88	0.0		
5	0.18	0.0 T	0.02	0.0	0.0	0.22	0.06	0.0	0.0	0.0	0.0	0.0		
6	0.53	0.10	0.30	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.26		
7	0.09	0.0	0.0	0.07	0.0	0.42	0.0	0.03	0.0	0.0	0.0	0.11		
8	0.15	0.0	0.0	0.37	0.05	1.61	0.22	0.0	0.63	0.0	0.0	0.0		
9	2.00	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0		
10	4.51	0.0	0.0	0.0	0.0	0.22	0.0	0.23	0.0	0.0	0.41	0.0		
11	0.09	0.0	0.37	0.12	0.34	0.0	0.05	0.21	0.47	0.0	0.20	0.62		
12	0.0	0.0	0.0	2.11	0.0	0.01	0.0 T	1.09	0.16	0.0	0.0	0.0		
13	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.81	0.01	0.0	0.0	0.0		
14	0.51	1.03	0.0	0.44	0.43	0.0	0.04	0.0	0.11	0.66	0.04	0.41		
15	0.05	0.29	0.0	0.0	2.59	0.59	0.13	0.0 T	0.0	1.61	0.0	0.41		
16	0.0	0.12	0.14	0.0	0.0	0.0 T	0.0	0.08	0.0	0.0	0.61	0.0		
17	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.04	0.0		
18	0.0	0.90	0.0	0.01	0.0	0.80	0.0	0.17	0.0	0.0	0.09	0.0		
19	0.0	0.0 T	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.0		
20	0.57	0.0	0.71	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.65	0.55	0.02	0.0 T	0.0	0.0	0.0	0.86	0.0	0.0	0.0		
22	0.01	0.16	0.0	1.68	2.05	0.34	0.03	0.0	0.0	0.0	0.0	0.0		
23	0.15	0.0	0.0	0.0	0.0	0.0	1.95	0.0	0.0	0.0	0.0	0.12		
24	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	1.88		
25	0.18	0.0	0.05	0.0	0.0	0.0	0.0 T	0.0	0.70	0.0	0.0	0.09		
26	0.36	0.0	0.0	0.0	0.38	0.0	0.86	0.29	0.0	0.0	0.0	0.14		
27	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.44	0.74	0.0	0.0	0.86		
28	0.70	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.09		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.48	0.04	0.39		
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.59	0.0	0.0	0.06	0.05		
31	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.16		
TOTAL	12.42	3.29	2.43	5.11	8.96	5.78	3.51	4.66	4.85	2.90	4.64	5.63		
STA AV	4.61	4.56	5.18	5.28	5.09	3.54	4.10	3.69	4.43	2.52	4.94	5.57		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gages 3, 11 thru 14, 20, 21, 24 and 26. STA AV based on 18 yr (1957-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-32												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.1	1.6	1.5	0.1	1.1	396.1	0.1	0.8	0.4	0.3	0.8	0.5
2	0.2	1.8	1.4	0.3	2.3	13.1	0.2	0.4	51.2	0.4	0.7	0.4
3	547.6	1.8	1.1	0.8	0.0	0.8	0.1	0.3	6.1	0.3	0.5	0.5
4	76.7	1.6	0.9	1.2	223.6	0.0	0.3	0.3	1.6	0.4	2.0	0.4
5	20.8	1.0	1.3	0.8	29.2	0.0	0.4	0.3	0.7	0.4	1.2	0.3
6	79.7	0.8	11.1	0.4	3.1	0.0	0.3	0.2	0.2	0.4	0.7	0.6
7	103.3	0.8	4.5	0.5	0.3	0.3	0.1	0.3	0.0	0.5	0.7	0.6
8	23.8	1.0	2.7	0.7	0.3	631.3	0.3	0.3	2.2	0.4	0.6	0.5
9	1069.8	0.9	2.5	1.2	0.3	16.1	1.1	0.2	5.4	0.5	0.7	0.4
10	2511.8	0.8	2.5	0.8	0.3	141.8	1.0	0.2	0.0	0.4	0.7	0.3
11	750.5	0.6	7.5	0.4	0.4	9.2	0.7	0.1	0.2	0.5	2.2	5.2
12	110.9	0.6	3.0	352.5	0.5	2.4	0.3	49.2	2.7	0.5	0.7	1.9
13	76.5	0.8	1.8	26.1	0.2	0.2	0.1	87.6	0.6	0.5	0.8	0.9
14	124.0	49.7	1.3	127.1	0.2	0.1	0.0	0.5	0.2	0.6	0.8	1.1
15	38.7	36.1	1.1	8.6	751.3	0.2	0.2	0.2	0.3	37.2	0.7	44.6
16	6.5	80.4	1.0	0.3	68.2	0.2	0.3	0.3	0.5	5.9	1.8	8.3
17	1.2	10.8	1.0	0.3	11.5	0.2	0.3	0.3	0.3	0.3	4.0	1.3
18	0.1	8.3	1.3	0.5	0.6	76.5	0.0	0.3	0.3	0.8	2.2	0.3
19	0.0	280.9	1.9	0.5	0.0	16.0	0.1	0.3	0.3	0.6	653.9	0.3
20	63.9	29.2	2.8	0.5	0.1	3.5	0.2	0.0	0.3	0.3	31.5	0.3
21	10.4	186.5	123.5	0.5	0.0	2.2	0.3	0.1	23.3	0.4	2.3	0.3
22	0.3	52.4	12.2	294.4	384.4	1.3	0.2	0.0	0.8	0.4	0.8	0.3
23	0.1	15.3	4.3	39.9	43.2	0.8	55.9	0.1	0.1	0.5	0.6	0.3
24	214.5	8.1	2.4	6.2	1.7	0.3	0.8	0.0	0.0	0.5	0.5	76.3
25	50.4	3.9	1.3	0.8	0.3	0.2	0.0	0.1	0.8	0.5	0.5	367.8
26	79.6	2.3	0.8	0.9	0.2	0.2	15.4	0.1	0.0	0.5	0.5	17.3
27	29.0	1.6	0.3	1.1	0.3	0.3	1.8	2.5	27.2	0.6	0.5	310.4
28	256.5	1.6	0.3	0.9	0.2	0.2	0.4	0.3	0.5	0.6	0.4	102.9
29	28.6		0.3	0.8	0.0	0.1	0.5	2.8	0.0	1.6	0.7	83.2
30	3.6		0.2	0.9	0.1	0.1	0.8	0.8	0.0	0.7	0.7	22.3
31	1.8		0.1		2.2		0.7	1.3		0.8		8.7
MEAN	202.60	27.90	6.39	29.00	49.22	43.78	2.67	4.82	4.20	1.90	23.81	34.15
INCHES	7.475	0.930	0.236	1.035	1.816	1.563	0.099	0.178	0.150	0.070	0.850	1.260
STA AV	1.631	1.617	1.843	1.531	1.100	0.404	0.373	0.346	0.378	0.119	0.978	1.628

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0011901. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 18 yr (1957-74) record period.

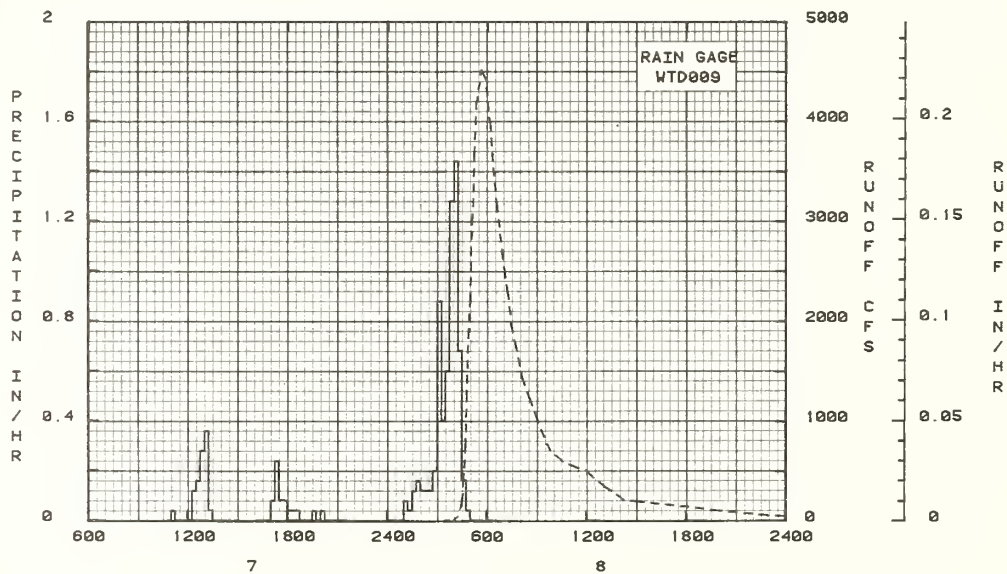
1974 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-32												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 7 - 9, 1974												
RG WTD009			RG WTD009									
6-7	0.0		6-7	1100	0.0	0.0	6-8	328	0.300	0.0		
6-8		0.000		1115	0.0400	0.01		346	11.700	0.0001		
				1130	0.0	0.01		402	17.623	0.0003		
				1145	0.0	0.01		416	46.352	0.0007		
				1200	0.0	0.01		428	146.973	0.0016		
WATERSHED CONDITIONS:												
About 27% of area in cultivation, primarily cotton, corn and soybeans, and rye grass, poor to fair cover;												
32% in pasture and idle land, fair to good cover;												
40% in woods, good cover; 1% in bare gullies.												
				1215	0.0	0.01		434	270.000	0.0027		
				1230	0.1200	0.04		438	474.000	0.0039		
				1245	0.1600	0.08		440	535.936	0.0047		
				1300	0.2800	0.15		444	823.424	0.0070		
				1315	0.3600	0.24		448	1309.998	0.0105		
				1330	0.0400	0.25		454	1928.000	0.0185		
				1345	0.0	0.25		500	2209.999	0.0288		
				1615	0.0	0.25		502	2747.518	0.0329		
				1630	0.0	0.25		508	3075.998	0.0473		
				1645	0.0	0.25		514	3747.999	0.0642		
				1700	0.0	0.25		520	4171.984	0.0839		
				1715	0.0800	0.27		538	4515.984	0.1485		
				1730	0.2400	0.33		554	4411.984	0.2075		
				1745	0.0806	0.35		612	3907.998	0.2694		
				1800	0.0800	0.37		624	3451.998	0.3059		
				1815	0.0400	0.38		638	3091.999	0.3438		
				1830	0.0400	0.39		654	2692.593	0.3820		
				1845	0.0400	0.40		706	2433.998	0.4074		
				1900	0.0	0.40		718	2216.998	0.4305		
				1915	0.0	0.40		728	1957.684	0.4477		
				1930	0.0	0.40		742	1777.999	0.4694		
				1945	0.0400	0.41		808	1429.999	0.5038		
				2000	0.0	0.41		834	1225.999	0.5324		
				2015	0.0400	0.42		906	980.000	0.5615		
				2030	0.0	0.42		948	702.584	0.5907		

NOTES: To convert rnoff in CFS to IN/8R, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gage 3, 11 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62010-1 and 2.

1974 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-32

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 7 - 9, 1974 (CONTINUED)										
6-7	2045	0.0			0.0	0.42	6-8	1032	597.687	0.6144
	2100	0.0			0.0	0.42		1132	525.250	0.6422
	2115	0.0002			0.0002	0.42		1158	504.738	0.6533
6-8	15	0.0			0.0	0.42		1226	430.500	0.6641
	30	0.0			0.0	0.42		1308	337.500	0.6774
	45	0.0			0.0	0.42		1328	303.000	0.6827
	100	0.0			0.0	0.42		1416	204.000	0.6928
	115	0.0800			0.0800	0.44		1500	195.000	0.7000
	130	0.0400			0.0400	0.45		1716	156.000	0.7197
	145	0.1200			0.1200	0.48		1944	107.625	0.7359
	200	0.1600			0.1600	0.52		2258	51.948	0.7487
	215	0.1200			0.1200	0.55		2400	46.352	0.7512
	230	0.1200			0.1200	0.58	6-9	614	16.569	0.7609
	245	0.1200			0.1200	0.61		1214	9.952	0.7648
	300	0.2000			0.2000	0.66		1812	9.109	0.7677
	315	0.8800			0.8800	0.88		2344	9.952	0.7703
	330	0.4000			0.4000	0.98		2400	7.506	0.7704
	345	0.6000			0.6000	1.13				
	400	1.2800			1.2800	1.45				
	415	1.4400			1.4400	1.81				
	430	0.6800			0.6800	1.98				
	445	0.1600			0.1600	2.02				
	500	0.0400			0.0400	2.03				
	515	0.0			0.0	2.03				
	530	0.0			0.0	2.03				
	545	0.0			0.0	2.03				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gage 3, 11 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62010-1 and 2.



EVENT OF JUNE 7 - 9, 1974
 OXFORD, MISSISSIPPI WATERSHED W-32

OXFORD, MISSISSIPPI WATERSHED W-34

LOCATION: Marshall Co., Miss.; 8 mi. S of Byhalia on County road; Pigeon Roost Creek, Yazoo River Basin.
 Lat. 34 deg. 45 min. 34 sec. N.; Long. 89 deg. 41 min. 45 sec. W.

AREA: 75000.00 acres 117.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													OXFORD, MISSISSIPPI WATERSHED W-34	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	11.39	3.18	2.73	4.46	8.13	5.48	4.25	5.17	4.23	2.80	4.45	5.58	61.85
	Q	3.743	1.328	1.006	1.157	2.140	2.045	0.990	0.875	0.550	0.623	1.021	1.830	17.306
STA AV	P	4.68	4.51	4.97	5.13	4.72	3.29	4.27	3.96	4.33	2.21	4.89	5.58	52.53
	Q	1.654	1.897	2.022	1.643	1.264	0.661	0.834	0.717	0.713	0.445	1.156	1.751	14.755

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximm 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.	
1974	1-10	0.132	1-10	0.127	1-10	0.242	1-10	0.648	1-10	0.928	1-10	1.431	1- 9	1.802	1- 3	2.481
MAXIMUMS FOR PERIOD OF RECORD																
	2-21	0.166	2-21	0.162	2-21	0.310	7- 9	0.800	7- 9	1.410	11-27	2.270	12- 3	2.720	3-24	4.770
	1971		1971		1971		1967		1967		1968		1964		1965	

NOTES: Watershed conditions: About 21% in cultivation (cotton, corn, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% bare gullies; 2% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1973. About 21% of drainage area principally in upper reaches above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 62.11-4. Monthly precipitation Thiessen weighted from 21 rain gages. Monthly values of runoff include small amounts of flow through auxiliary Station 34-A. Precipitation and runoff records began Jan. 1957. Runoff for period Oct. 1969 thru Dec. 1970 discontinued due to dredging. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1974 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-34	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.06	0.0	0.13	0.30	0.91	0.0	0.0	0.10	0.0	0.0	0.03		
2	0.10	0.0	0.0	0.0	0.51	0.0	0.0	0.01	0.55	0.0	0.0	0.0 T		
3	1.23	0.0	0.0	0.0	0.15	0.0	0.0	0.11	0.0	0.0	0.0	0.0		
4	0.01	0.0	0.0	0.0	0.61	0.0	0.12	0.0	0.0	0.0	0.80	0.0		
5	0.19	0.0 T	0.01	0.0	0.0	0.26	0.03	0.0	0.0	0.0	0.0	0.0		
6	0.48	0.23	0.78	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.21		
7	0.17	0.0	0.0	0.07	0.0	3.46	0.01	0.01	0.0	0.0	0.0	0.12		
8	0.21	0.0	0.0	0.30	0.06	1.55	0.31	0.0	0.82	0.0	0.0	0.0		
9	1.47	0.0	0.0	0.0 T	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0		
10	4.43	0.0	0.0 T	0.0	0.0	0.18	0.0	0.21	0.0	0.0	0.41	0.0		
11	0.07	0.0	0.35	0.08	0.28	0.0	0.10	0.27	0.33	0.0	0.19	0.57		
12	0.0 T	0.0	0.0	2.00	0.0	0.0 T	0.0 T	1.46	0.12	0.0	0.0	0.0		
13	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.85	0.01	0.0	0.0	0.0		
14	0.49	1.04	0.0	0.24	0.33	0.0	0.03	0.0	0.06	0.59	0.02	0.37		
15	0.05	0.25	0.0 T	0.0	2.32	0.60	0.09	0.37	0.0	1.59	0.0	0.40		
16	0.0	0.12	0.15	0.0	0.0	0.0 T	0.0	0.16	0.0	0.0	0.61	0.0		
17	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.01	0.0	0.0	0.10	0.0		
18	0.0	0.81	0.0	0.0 T	0.0	0.64	0.0	0.13	0.0	0.0	0.06	0.0		
19	0.0	0.0 T	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.84	0.0		
20	0.49	0.0	0.64	0.0	0.03	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.62	0.54	0.05	0.01	0.0	0.0	0.0	0.83	0.0	0.0	0.0		
22	0.01	0.04	0.0	1.53	2.05	0.17	0.04	0.0	0.0	0.0	0.0	0.0		
23	0.13	0.0	0.0	0.0	0.0	0.0	2.34	0.0	0.0	0.0	0.0	0.13		
24	0.65	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.30	2.09		
25	0.16	0.0	0.05	0.0	0.0	0.0	0.01	0.0	0.75	0.0	0.0	0.09		
26	0.34	0.0	0.0	0.0	0.33	0.0	1.17	0.17	0.01	0.0	0.0	0.15		
27	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.34	0.65	0.0	0.0	0.81		
28	0.71	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.09		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.47	0.05	0.33		
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.48	0.0	0.0	0.07	0.06		
31	0.0	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.0	0.13		
TOTAL	11.39	3.18	2.73	4.46	8.13	5.48	4.25	5.17	4.23	2.80	4.45	5.58		
STA AV	4.68	4.51	4.97	5.13	4.72	3.29	4.27	3.96	4.33	2.21	4.89	5.58		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C, (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 1 thru 3, 5, 7, 9, 11 thru 15, 17 thru 22, 24, 26, 27 and 31. STA AV based on 17 yr (1957-69, 1971-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-34												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	44.4	60.2	58.3	48.2	55.5	1548.7	75.3	75.3	43.5	41.0	56.7	47.0
2	64.9	55.1	56.4	50.7	128.6	144.9	73.1	75.0	83.8	44.4	56.7	47.9
3	807.3	53.6	52.3	49.5	88.2	68.1	71.2	69.3	72.2	48.2	54.8	49.5
4	267.2	49.5	52.0	46.6	357.0	58.3	71.2	65.5	44.7	47.9	75.9	47.9
5	86.3	51.7	52.3	47.0	140.9	90.4	73.1	65.5	43.2	44.7	78.5	49.5
6	220.9	122.3	592.7	46.6	64.6	98.3	75.3	65.5	44.4	42.2	60.2	52.0
7	252.7	70.3	140.9	48.2	53.6	184.3	73.1	69.0	45.7	43.2	61.8	64.6
8	121.3	54.8	93.0	47.0	52.3	1689.3	95.5	69.3	76.3	45.7	61.8	62.1
9	1567.0	55.1	85.1	48.2	50.4	257.4	95.5	65.5	73.4	51.0	56.7	47.0
10	3153.6	54.8	75.3	53.3	52.0	651.6	73.1	67.4	42.2	53.3	68.1	52.3
11	1717.3	56.7	105.6	53.6	60.8	94.2	71.2	88.9	49.2	52.0	76.6	121.3
12	111.5	56.7	84.4	911.0	62.1	65.5	71.2	304.4	72.5	50.7	55.1	65.2
13	92.6	56.7	58.3	231.9	53.6	57.0	69.3	552.4	58.3	55.8	53.6	46.6
14	265.0	314.8	61.8	240.7	56.1	48.2	67.4	79.4	44.4	67.4	56.7	52.6
15	150.0	339.7	61.8	50.4	2559.0	133.6	69.3	119.7	42.2	306.9	58.3	321.7
16	43.2	411.5	58.3	54.8	385.4	92.0	71.2	139.0	42.2	128.6	56.4	94.5
17	45.7	143.1	58.6	53.6	129.8	60.2	67.4	69.6	42.2	57.0	55.1	69.0
18	41.0	120.1	71.5	55.1	119.4	169.8	63.6	47.3	42.2	50.4	60.2	59.6
19	27.4	685.4	81.0	42.5	94.8	104.6	67.4	41.0	41.3	52.3	1266.4	46.6
20	233.8	102.4	92.3	39.4	70.6	77.2	67.1	40.0	46.6	55.1	274.5	47.0
21	102.7	462.9	597.8	49.5	52.0	79.4	67.4	40.0	98.6	53.3	100.5	50.7
22	42.5	363.6	125.7	757.5	1197.1	79.1	71.2	41.0	53.6	55.1	67.1	55.1
23	32.5	110.0	49.5	187.8	279.5	73.1	606.3	40.0	42.2	58.3	50.7	58.3
24	558.4	77.2	50.4	100.2	88.5	67.4	142.4	41.3	43.5	56.7	52.0	801.9
25	199.5	71.2	52.0	72.8	67.7	69.3	60.5	45.7	90.1	56.7	50.7	1327.5
26	279.8	64.0	52.3	55.1	65.9	75.3	338.1	44.4	72.8	53.6	50.7	114.1
27	182.4	59.9	52.0	55.1	67.4	75.0	88.2	48.5	147.2	55.8	52.0	863.1
28	757.2	60.2	50.4	50.4	61.8	79.1	81.3	67.1	54.2	55.5	50.4	395.1
29	173.6	50.7	50.7	49.5	65.5	79.4	69.3	102.4	40.0	57.3	49.5	403.4
30	88.5	49.5	49.5	49.2	67.1	73.1	65.2	62.7	40.0	63.7	47.9	158.5
31	63.6	46.6	46.6		94.8		69.3	53.9		58.3		96.5
MEAN	380.45	149.40	102.22	121.51	217.48	214.81	100.68	88.91	57.76	63.30	107.19	186.06
INCHES	3.743	1.328	1.006	1.157	2.140	2.045	0.990	0.875	0.550	0.623	1.021	1.830
STA AV	1.654	1.897	2.022	1.643	1.264	0.661	0.834	0.717	0.713	0.445	1.156	1.751

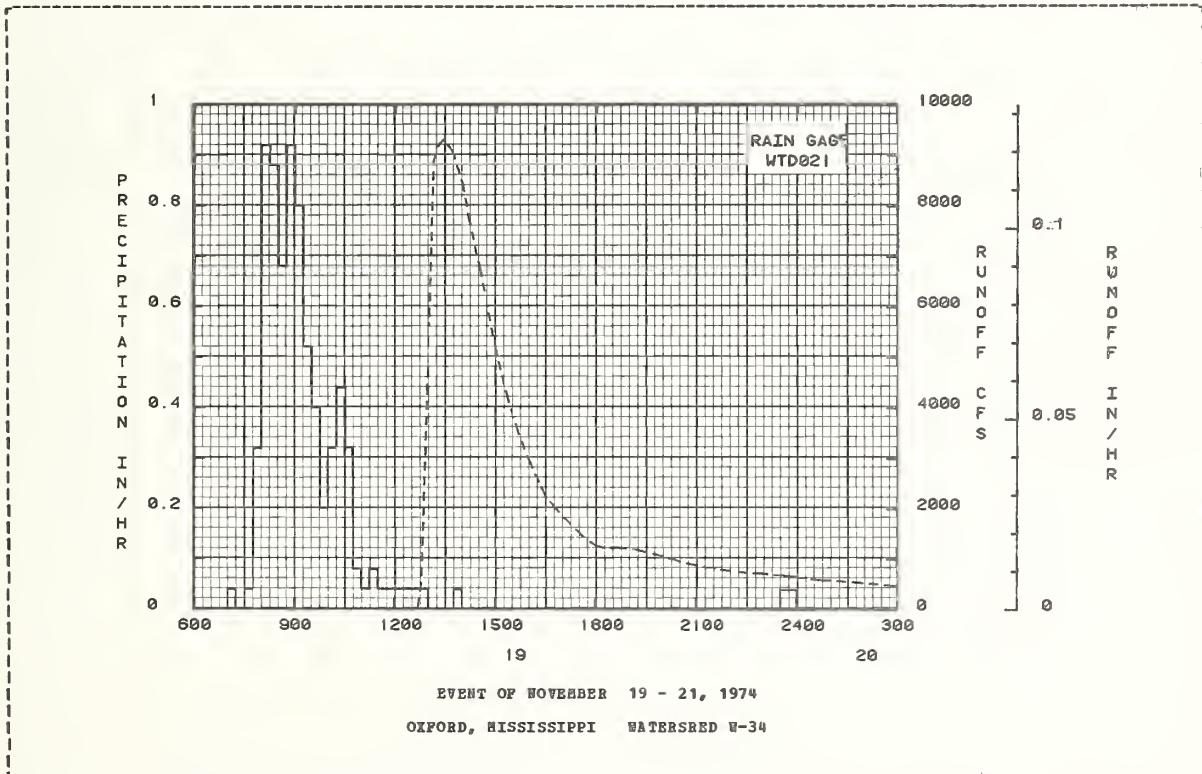
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.00031736. Quality of records: Good, estimated to be within 10% of actual. Daily discharge values include relatively insignificant flow through auxiliary station 34-A. Rnnoff for period October 1969 thru December 1970 discontinued, due to dredging in the channel. STA AV based on 17 yr (1957-69, 1971-74) record period. Part-year amounts are included in station averages.

1974 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-34											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 19 - 21, 1974											
11-19	RG WTD021	0.012	11-19	RG WTD021	0.0	0.0	11-19	1242	73.188	0.0	
	0.0			700	0.0400	0.01		1248	521.467	0.0004	
				715	0.0	0.01		1258	4473.727	0.0059	
				730	0.0400	0.02		1308	8889.965	0.0207	
				745	0.3200	0.10		1318	9230.004	0.0406	
				800	0.9200	0.33		1326	9310.594	0.0570	
				815	0.8800	0.55		1342	9069.965	0.0894	
				830	0.6800	0.72		1400	8429.965	0.1241	
				845	0.9200	0.95		1414	7619.395	0.1488	
				900	0.8000	1.15		1434	6600.969	0.1802	
				915	0.5200	1.28		1502	5044.348	0.2161	
				930	0.4000	1.38		1520	4241.707	0.2345	
				945	0.2000	1.43		1542	3455.996	0.2532	
				1000	0.3200	1.51		1606	2800.341	0.2697	
				1015	0.4400	1.62		1630	2247.997	0.2831	
				1030	0.3200	1.70		1654	1927.000	0.2941	
				1045	0.0800	1.72		1716	1683.759	0.3029	
				1100	0.0400	1.73		1740	1408.999	0.3111	
				1115	0.0800	1.75		1802	1254.000	0.3175	
				1130	0.0400	1.76		1814	1223.999	0.3208	
				1145	0.0400	1.77		1838	1223.999	0.3273	
				1200	0.0400	1.78		1854	1211.999	0.3316	
				1215	0.0400	1.79		1918	1169.998	0.3379	
				1230	0.0400	1.80		1946	1091.842	0.3448	
				1245	0.0400	1.81		2018	995.000	0.3522	
				1300	0.0	1.81		2048	901.499	0.3585	
				1315	0.0	1.81		2118	835.294	0.3642	
				1330	0.0400	1.82		2202	765.000	0.3720	
				1345	0.0	1.82		2230	730.000	0.3766	
				1360	0.0	1.82		2254	719.999	0.3804	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27, and 31. For 30-day antecedent P and Q, see tables on pp. 62.011-1 and 2.

1974 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-34				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF NOVEMBER 19 - 21, 1974 (CONTINUED)										
			11-19	2330	0.0	1.82	11-19	2332	675.000	0.3863
				2345	0.0400	1.83		2358	649.999	0.3900
				2400	0.0400	1.84		2400	634.998	0.3903
							11-20	40	589.677	0.3957
								100	579.998	0.3983
								158	521.467	0.4053
								300	463.406	0.4121
								432	416.387	0.4210
								558	367.990	0.4284
								702	327.958	0.4333
								726	327.958	0.4351
								844	277.198	0.4403
								914	269.397	0.4421
								1046	226.438	0.4471
								1202	218.626	0.4508
								1330	195.526	0.4548
								1500	187.938	0.4586
								1632	165.200	0.4622
								1800	165.200	0.4654
								2102	153.800	0.4718
								2244	146.200	0.4752
								2400	115.800	0.4774
							11-21	2400	85.192	0.5093

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27, and 31. For 30-day antecedent P and Q, see tables on pp. 62.011-1 and 2.



TOMBSTONE, ARIZONA WATERSHED W-1

LOCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 45 sec. N.; Long. 110 deg. 09 min. 10 sec. W.

AREA: 36900.00 acres 57.66 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-1															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	1.21	0.0	0.24	0.0	0.05	0.19	4.02	2.72	1.84	1.86	0.01	0.19	12.33	STA AV	P	0.39	0.52	0.79	0.15	0.13	0.42	3.27	3.40	1.15	0.90	0.30	0.46	11.89
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.040	0.021	0.0	0.0	0.0	0.076		Q	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.074	0.007	0.0	0.0	0.0	0.0

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.
8-5	0.017	8-5	0.012	8-5	0.021	8-5	0.024	8-5	0.024	8-4	0.024	8-3	0.024	7-28	0.038	

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
8-12 1972	0.163	8-12 1972	0.092	9-9 1964	0.130	9-9 1964	0.160	9-9 1964	0.190	9-9 1964	0.190	9-8 1964	0.230	9-8 1964	0.310

NOTES: Watershed Conditions: 65% of area in desert shrubs (whitethorn, creosotebush and tarbush) with 25% cover and 2% grass cover. 35% is grassland with approximately 20% grass cover (crown spread) and 5% shrub cover. For topography, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation data: records began January 1954. Monthly totals are Thiessen weighted averages of 90 gages. Station averages are based on 1968-74 data. Runoff Data: Records began April 1964, station averages are based on 1966, 1968-74 data. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1974 DAILY AIR TEMPERATURE (degrees F)														TOMBSTONE, ARIZONA WATERSHED W-1													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	61	42	67	36	80	49	73	42	84	50	93	56	98	71	91	70	90	69	86	59	67	40	56	39			
2	48	33	59	34	73	53	64	52	86	52	95	62	92	68	84	62	92	69	87	63	61	51	67	44			
3	54	31	61	32	70	54	66	44	86	54	93	60	90	67	84	65	84	65	84	64	66	38	67	37			
4	54	34	66	33	62	34	70	36	85	54	92	60	97	64	82	66	90	62	87	62	62	35	60	45			
5	52	42	66	38	70	34	78	43	84	52	92	59	88	66	85	64	92	63	78	66	65	40	54	43			
6	56	36	61	40	71	42	82	50	85	49	92	60	91	66	88	64	91	64	76	62	66	41	55	37			
7	58	38	49	24	69	52	81	48	85	54	90	63	82	66	92	64	92	62	77	57	66	43	61	32			
8	54	44	47	22	57	45	86	49	84	53	86	58	87	65	88	68	95	66	82	61	58	52	50	32			
9	53	46	53	25	51	34	80	53	83	51	93	59	92	64	89	68	98	68	87	60	68	50	42	29			
10	54	33	68	33	59	29	59	45	86	56	98	64	92	64	90	63	96	67	86	59	66	40	52	25			
11	56	32	71	39	73	35	66	39	90	56	101	65	93	66	92	65	93	68	73	60	68	43	56	28			
12	64	37	64	47	77	45	74	42	91	60	103	67	97	67	93	65	91	62	66	54	70	45	60	34			
13	71	43	65	42	78	46	74	44	84	58	102	69	88	66	93	64	70	64	69	50	77	47	64	35			
14	71	43	61	33	79	46	79	44	88	53	104	71	87	63	91	65	80	57	72	47	77	45	53	33			
15	71	40	67	34	80	48	80	45	89	57	100	70	86	66	87	65	84	56	68	49	75	51	55	28			
16	75	47	70	39	83	51	84	49	89	59	100	72	90	63	92	64	84	62	76	48	71	47	61	33			
17	71	48	59	41	83	52	84	49	81	64	96	68	89	66	94	67	77	58	77	45	64	49	66	38			
18	65	38	56	32	78	50	80	50	88	54	99	66	89	65	92	68	80	55	79	54	67	51	62	38			
19	71	39	69	34	71	56	75	55	80	59	103	67	84	63	86	66	78	53	76	54	68	45	59	36			
20	70	44	46	38	60	49	74	42	74	39	104	70	81	60	89	63	77	55	76	54	68	46	60	33			
21	67	49	55	25	64	43	73	46	88	46	103	71	85	64	87	65	77	56	75	57	74	48	66	35			
22	58	34	71	32	66	42	83	49	94	54	106	69	93	65	89	60	70	57	65	49	66	56	67	38			
23	55	30	66	31	68	42	86	57	93	60	105	74	92	67	85	58	70	55	72	49	58	40	49	18			
24	51	33	61	33	69	40	88	65	91	59	103	75	98	67	87	60	70	53	72	47	59	37	42	16			
25	58	30	64	30	73	42	81	61	94	57	103	70	100	70	88	60	76	57	75	49	62	35	38	26			
26	60	35	73	45	73	46	85	54	100	62	103	68	100	72	92	62	78	56	77	53	72	40	43	30			
27	48	33	74	40	74	48	83	49	100	67	104	69	95	68	90	62	80	55	64	47	68	43	51	26			
28	56	27	75	43	73	40	80	53	95	67	105	71	97	67	91	63	81	56	68	44	65	40	60	33			
29	62	31			79	44	81	49	93	64	103	73	92	67	95	65	86	60	53	42	56	31	49	31			
30	65	38			82	50	81	50	87	56	101	70	89	65	93	64	87	61	48	38	59	31	46	29			
31	67	38			73	54			86	53			94	70	97	66			62	36							
AV.	61	38	63	35	72	45	78	48	88	56	99	67	91	66	90	64	84	60	74	53	66	43	55	33			
MEAN	49.1		49.0		58.3		63.1		71.9		82.8		78.7		76.9		72.0		63.5		54.9		44.1				
STA AV	59	35	61	37	67	41	75	45	84	53	92	62	93	67	89	65	86	60	78	52	67	43	59	37			

NOTES: STA AV values are based on 11 yr (1964-1974) record period.

1974		DAILY PRECIPITATION (inches)					TOMBSTONE, ARIZONA WATERSHED W-1						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.50E	0.0 T	0.0	0.0	0.0	
2	0.11S	0.0	0.0	0.0	0.0	0.0	0.25E	0.24E	0.52E	0.0	0.0 E	0.0	
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.26E	0.05E	0.14E	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.02	0.0	0.0	0.0 T	
5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.40E	0.0 T	0.0	0.0	0.13E	
6	0.05E	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.15E	0.06E	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.28E	0.0	0.0	0.03E	0.0	0.0	
8	0.38E	0.0	0.01E	0.0	0.05E	0.0	0.12E	0.0	0.0	0.0 T	0.0 E	0.0	
9	0.55E	0.0	0.13E	0.0	0.0	0.0	0.0 T	0.0 E	0.02E	0.0	0.0	0.0	
10	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	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.34E	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.33E	0.31E	0.0 T	0.0 E	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31E	0.23E	0.04E	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.11E	0.0 T	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.0 T	0.0 T	0.0	0.0	0.0	
17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.03	0.0	0.0 E	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.37E	0.06E	0.0	0.0	0.0	
19	0.0	0.0	0.07E	0.0	0.0	0.0	0.48E	0.22E	0.04E	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.07E	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01E	0.14E	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.04E	0.29E	0.01E	0.0 S	
23	0.0	0.0	0.03E	0.0	0.0	0.0	0.0 T	0.0 E	0.03E	0.06	0.0	0.01E	
24	0.0	0.0	0.0 E	0.0	0.0	0.0	0.01E	0.0	0.03E	0.52E	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01E	0.01E	0.0	0.02S	
26	0.0	0.0	0.0	0.0	0.0	0.16E	0.09E	0.0	0.0 T	0.0	0.0	0.03S	
27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.14E	0.0	0.0 E	0.01E	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.72E	0.0	0.0 T	0.0 E	0.0 T	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.72E	0.0	0.0	
30	0.0 E	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.19E	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0	
TOTAL	1.21	0.0	0.24	0.0	0.05	0.19	4.02	2.72	1.84	1.86	0.01	0.19	
STA AV	0.39	0.52	0.79	0.15	0.13	0.42	3.27	3.40	1.15	0.90	0.30	0.46	

NOTES: Data are Thiessen weighted averages of values from 90 gages. STA AV are for 7 yr only (1968-74).

1974		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	1.550E	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.775	0.0	15.813E	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.946E	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	37.673E	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	0.310E	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	0.155	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.155E	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.775E	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.263E	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.666E	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	2.946E	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	0.620E	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	14.263E	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 E	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.155	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	9.612	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	9.457E	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	0.7502	1.9954	1.1007	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.040	0.021	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.074	0.007	0.0	0.0	0.0	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV are for 8 yr only (1966, 1968-74). Previously published data are being reevaluated.

1974 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 JULY 28 - 29, 1974										
7-28	RG 000033 0.0	0.0	7-28	RG 000033 2007	0.0	0.0	7-28	2035	0.0	0.0
				2013	1.5000	0.15		2040	0.095	0.0
				2015	2.4000	0.23		2043	0.040	0.0
				2019	1.9500	0.36		2047	24.616	0.0
				2022	0.8000	0.40		2051	13.477	0.0001
WATERSHED CONDITIONS: 65% of area in desert shrubs (Whitethorn, creosotebush and tarbush) with 23% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.				2024	0.3000	0.41		2053	11.557	0.0001
				2040	0.0375	0.42		2055	11.482	0.0001
				2046	0.0	0.42		2056	11.929	0.0001
				2049	1.6000	0.50		2100	8.703	0.0001
				2054	0.6000	0.55		2102	9.648	0.0001
				2056	0.6000	0.57		2105	7.728	0.0001
				2103	0.0857	0.58		2110	2.984	0.0001
				2107	0.3000	0.60		2115	1.192	0.0001
				2114	0.2571	0.63		2117	1.109	0.0001
								2122	0.811	0.0001
								2123	0.435	0.0001
								2135	0.051	0.0001
								2136	0.028	0.0001
								2140	0.019	0.0001
								2141	0.007	0.0001
								2155	0.002	0.0001
								2157	0.0	0.0001
								2204	0.0	0.0001
								2207	0.011	0.0001
								2211	0.037	0.0001
								2213	0.037	0.0001
								2215	0.037	0.0001
								2220	0.023	0.0001
								2230	0.006	0.0001
								2240	0.005	0.0001
								2245	0.004	0.0001
								2247	0.002	0.0001
								2301	0.001	0.0001
								2304	0.0	0.0001
								2306	0.034	0.0001
								2307	0.051	0.0001
								2312	0.047	0.0001
								2313	125.464	0.0002
								2316	302.347	0.0005
								2317	320.766	0.0006
								2318	336.318	0.0007
								2320	336.318	0.0010
								2321	324.597	0.0012
								2322	335.834	0.0013
								2324	327.983	0.0016
								2327	334.830	0.0021
								2330	320.766	0.0025
								2332	325.082	0.0028
								2335	310.310	0.0032
								2336	297.250	0.0034
								2337	296.356	0.0035
								2338	287.241	0.0036
								2342	271.241	0.0041
								2347	262.610	0.0047
								2351	252.825	0.0052
								2352	251.151	0.0053
								2354	236.342	0.0055
								2355	241.216	0.0056
								2356	233.105	0.0057
								2357	236.342	0.0058
								2400	224.771	0.0062
							7-29	5	210.074	0.0066
								8	196.753	0.0069
								13	184.028	0.0073
								15	192.102	0.0075
								16	181.275	0.0076
								22	165.536	0.0081
								23	172.457	0.0081
								25	160.029	0.0083
								30	158.095	0.0086

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

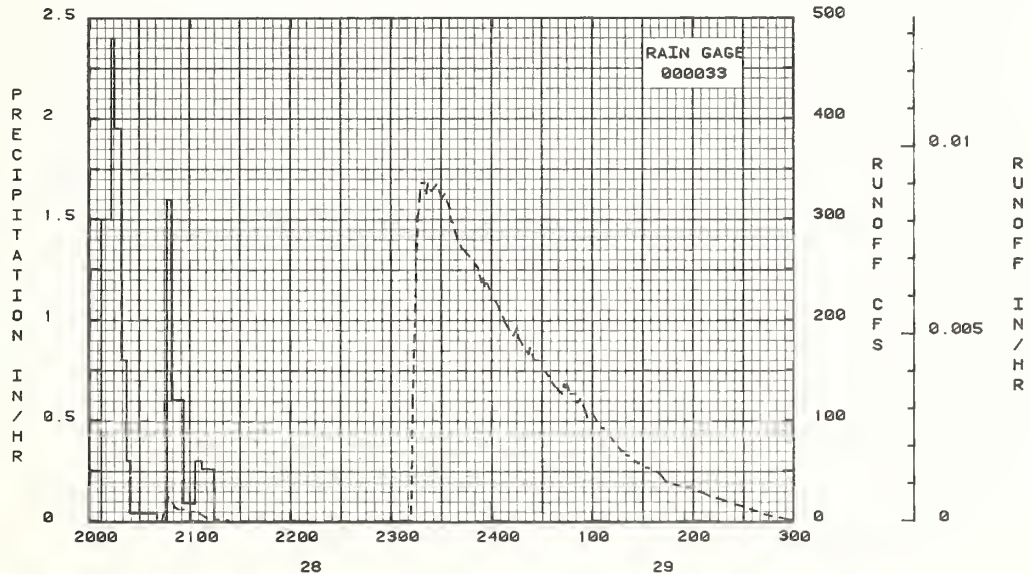
1974

SELECTED RUNOFF EVENT

TONBSTONE, ARIZONA WATERSHED #1

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JULY 28 - 29, 1974 (CONTINUED)											
								7-29	31	149.946	0.0087
									34	143.807	0.0089
									37	134.877	0.0091
									42	126.022	0.0094
									43	136.068	0.0094
									44	132.273	0.0095
									45	136.068	0.0096
									46	129.408	0.0096
									47	126.022	0.0097
									50	126.022	0.0099
									51	117.725	0.0099
									53	121.817	0.0100
									57	102.842	0.0102
									100	106.413	0.0104
									105	92.833	0.0106
									107	91.642	0.0107
									112	80.777	0.0109
									113	79.215	0.0109
									117	69.429	0.0110
									119	68.797	0.0111
									120	65.560	0.0111
									122	64.592	0.0112
									125	59.197	0.0113
									126	59.197	0.0113
									127	56.779	0.0113
									128	56.965	0.0113
									132	52.835	0.0114
									134	52.277	0.0115
									140	47.179	0.0116
									144	38.547	0.0117
									150	35.388	0.0118
									152	34.826	0.0118
									156	32.765	0.0119
									200	32.903	0.0119
									204	28.780	0.0120
									210	24.505	0.0121
									217	20.699	0.0121
									247	4.108	0.0123

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

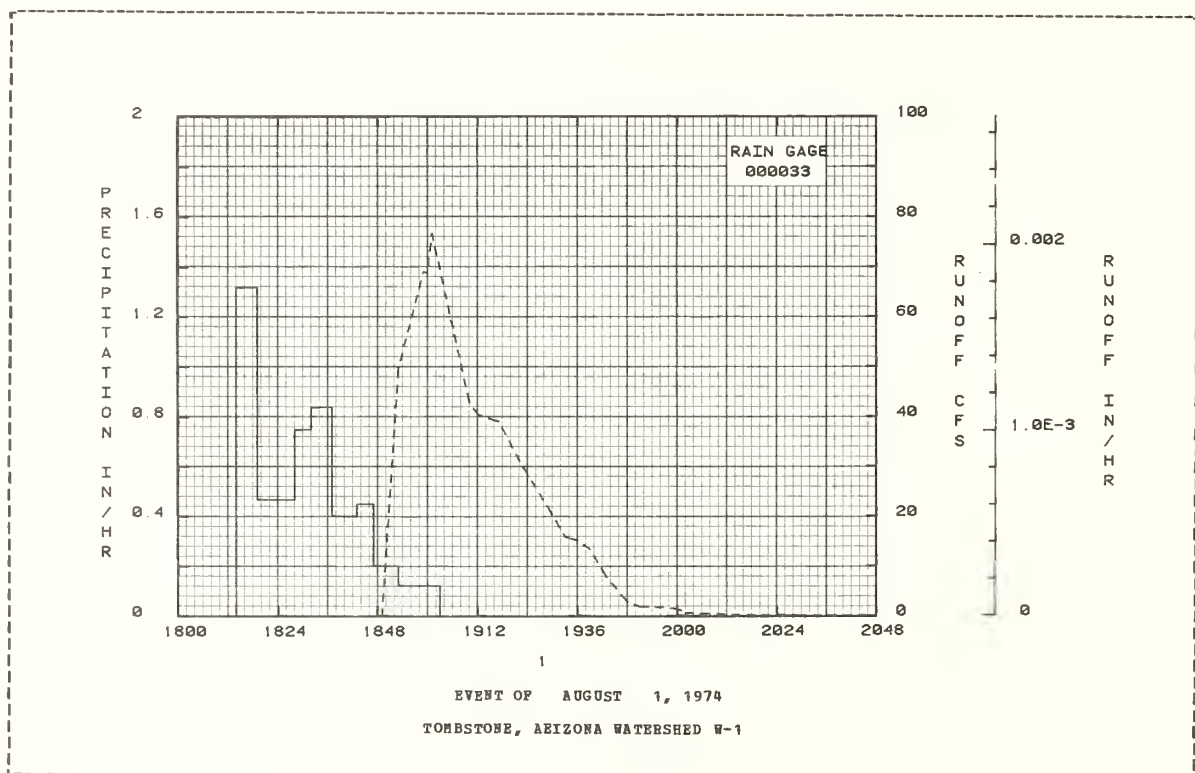


EVENT OF JULY 28 - 29, 1974
TONBSTONE, ARIZONA WATERSHED #1

1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Eunoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 1, 1974										
8- 1	RG 000033 0.0	0.0	8- 1	EG 000033 1814	0.0	0.0	8- 1	1849	0.0	0.0
				1819	1.3200	0.11		1853	49.858	0.0001
				1828	0.4667	0.18		1859	69.020	0.0002
				1832	0.7500	0.23		1900	68.797	0.0003
				1837	0.8400	0.30		1901	76.796	0.0003
				1843	0.4000	0.34		1910	42.826	0.0005
				1847	0.4500	0.37		1912	40.370	0.0006
				1853	0.2000	0.39		1913	40.072	0.0006
				1903	0.1200	0.41		1916	39.142	0.0007
								1917	38.993	0.0007
								1923	29.632	0.0008
								1929	21.618	0.0008
								1933	15.813	0.0009
								1936	15.125	0.0009
								1939	13.317	0.0009
								1943	7.661	0.0009
								1948	2.709	0.0009
								1951	1.783	0.0009
								1953	1.757	0.0009
								1959	1.483	0.0009
								2001	0.973	0.0009
								2002	0.510	0.0009
								2006	0.388	0.0009
								2015	0.089	0.0010

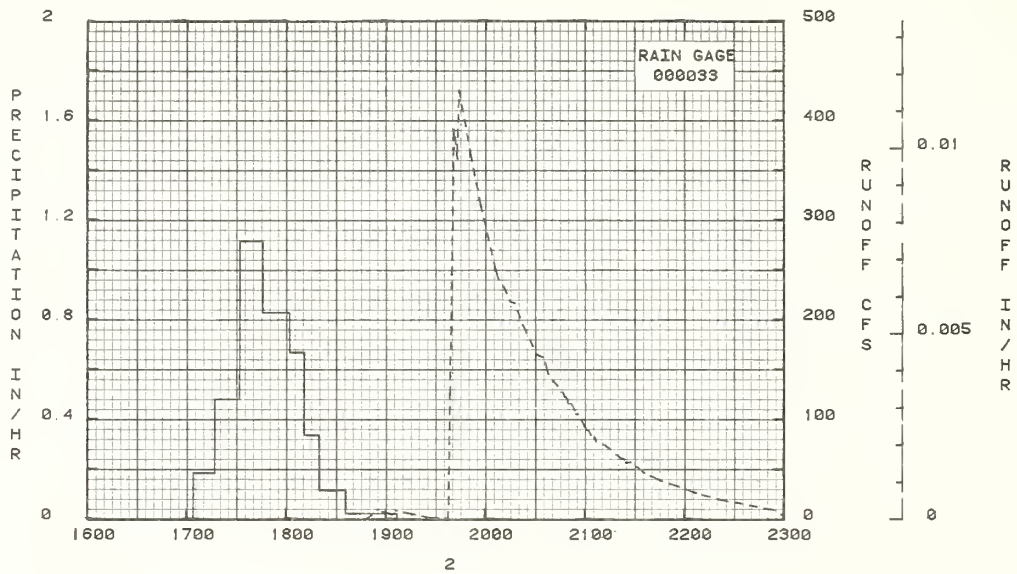
WATERSHED CONDITIONS:
 65% of area in desert shrubs (whitethorn, creosotebush and tarbush) with 23% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.

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



1974			TONBSTONE, ARIZONA WATERSHED #-1							
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 SEPTEMBER 2, 1974										
9- 2	RG 000033 0.0	0.0	9- 2	RG 000033 1704	0.0	0.0	9- 2	1848	0.0	0.0
				1717	0.1846	0.04		1852	4.022	0.0
				1732	0.4800	0.16		1855	9.443	0.0
				1746	1.1143	0.42		1856	9.373	0.0
				1802	0.8250	0.64		1858	6.824	0.0
				1811	0.6667	0.74		1904	4.234	0.0001
				1820	0.3333	0.79		1906	8.446	0.0001
				1836	0.1125	0.82		1907	8.316	0.0001
				1907	0.0194	0.83		1912	5.983	0.0001
								1918	3.817	0.0001
								1922	2.743	0.0001
								1926	1.192	0.0001
								1927	1.011	0.0001
								1932	0.593	0.0001
								1938	0.147	0.0001
								1939	125.166	0.0001
								1941	390.305	0.0004
								1943	360.428	0.0007
								1944	430.118	0.0009
								1951	366.083	0.0021
								1957	315.519	0.0030
								2006	251.560	0.0042
								2008	239.579	0.0044
								2011	232.696	0.0047
								2015	217.366	0.0051
								2018	215.804	0.0054
								2023	192.809	0.0059
								2031	164.532	0.0065
								2035	161.295	0.0068
								2036	156.830	0.0069
								2038	144.402	0.0070
								2047	126.022	0.0076
								2048	121.817	0.0076
								2049	122.115	0.0077
								2050	115.306	0.0077
								2052	115.566	0.0078
								2054	108.460	0.0079
								2055	105.111	0.0080
								2056	105.111	0.0080
								2101	89.038	0.0082
								2102	89.038	0.0083
								2104	83.494	0.0084
								2106	81.894	0.0084
								2107	77.243	0.0085
								2112	74.229	0.0086
								2122	60.313	0.0089
								2124	59.383	0.0090
								2125	56.593	0.0090
								2128	56.779	0.0091
								2136	46.026	0.0093
								2147	37.542	0.0095
								2157	31.961	0.0096
								2207	26.079	0.0098
								2222	19.121	0.0099
								2255	8.640	0.0101
								2322	2.949	0.0102

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000269.



EVENT OF SEPTEMBER 2, 1974
TOMBSTONE, ARIZONA WATERSHED R-1

TOBSTONE, ARIZONA WATERSHED W-2

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

AREA: 29100.00 acres 43.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOBSTONE, ARIZONA WATERSHED W-2													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1974	P	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18	12.49													
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.068	0.038	0.004	0.000	0.000	0.148													
STA AV	P	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47	11.87													
	Q	0.0	0.0	0.0	0.0	0.0	0.001	0.048	0.085	0.014	0.001	0.000	0.000	0.149													

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.
1974		9-2	0.029	8-5	0.018	8-5	0.024	7-28	0.027	7-28	0.028	7-28	0.028	8-18	0.031	7-28	0.059
		7-26	0.160	7-26	0.130	7-26	0.170	7-26	0.210	9-9	0.240	9-9	0.240	9-9	0.240	9-9	0.430
		1959		1959		1969		1959		1964		1964		1964		1964	

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitethorn, 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, station averages are for 7 yr only (1968-74). Runoff Data: Records began July 1959, station averages are based on 1966, 1968-74 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.

1974 DAILY PRECIPITATION (inches)														TOBSTONE, ARIZONA WATERSHED W-2																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.44E	0.0 T	0.0	0.0	0.0		2	0.10E	0.0	0.0	0.0	0.0	0.0	0.23E	0.28E	0.63E	0.0	0.0 E	0.0		3	0.01E	0.0	0.0	0.0	0.0	0.0	0.34E	0.03E	0.08E	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.03	0.0	0.0	0.0 T		5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.0 T	0.0	0.0	0.0	0.13E	6	0.05E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.19E	0.07E	0.0	0.0		7	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.04E	0.0	0.0		8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47	
2	0.10E	0.0	0.0	0.0	0.0	0.0	0.23E	0.28E	0.63E	0.0	0.0 E	0.0		3	0.01E	0.0	0.0	0.0	0.0	0.0	0.34E	0.03E	0.08E	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.03	0.0	0.0	0.0 T		5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.0 T	0.0	0.0	0.0	0.13E	6	0.05E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.19E	0.07E	0.0	0.0		7	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.04E	0.0	0.0		8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47															
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.34E	0.03E	0.08E	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.03	0.0	0.0	0.0 T		5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.0 T	0.0	0.0	0.0	0.13E	6	0.05E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.19E	0.07E	0.0	0.0		7	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.04E	0.0	0.0		8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																													
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.03	0.0	0.0	0.0 T		5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.0 T	0.0	0.0	0.0	0.13E	6	0.05E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.19E	0.07E	0.0	0.0		7	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.04E	0.0	0.0		8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																											
5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.38E	0.0 T	0.0	0.0	0.0	0.13E	6	0.05E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.19E	0.07E	0.0	0.0		7	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.04E	0.0	0.0		8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																									
6	0.05E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.19E	0.07E	0.0	0.0		7	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.04E	0.0	0.0		8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																							
7	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.04E	0.0	0.0		8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																					
8	0.39E	0.0	0.0 E	0.0	0.05E	0.0	0.13E	0.0	0.0	0.0 T	0.0	0.0		9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																			
9	0.53E	0.0	0.12E	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0		10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																	
10	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		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																															
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																													
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21E	0.38E	0.0	0.0		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																											
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.41E	0.23E	0.0 T	0.0 E	0.0		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																									
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.30E	0.05E	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																							
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.13E	0.0	0.0	0.0		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																					
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.0	0.0 T	0.0	0.0		17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																			
17	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0 T	0.0	0.0		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.43E	0.02E	0.0	0.0		19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																															
19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.46E	0.28E	0.03E	0.0	0.0		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																													
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.08E	0.0	0.0		21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																											
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 E	0.13E	0.0	0.0		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																									
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.02E	0.35E	0.01E		23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																							
23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0 T	0.0	0.03E	0.07	0.0	0.01E		24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																					
24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.02E	0.49E	0.0	0.0	0.0		25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																			
25	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01	0.02E	0.0	0.0	0.01S		26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																	
26	0.0	0.0	0.0	0.0	0.0	0.17E	0.08E	0.0	0.0 T	0.0	0.0	0.03E		27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																															
27	0.08S	0.0	0.0	0.0	0.0	0.0 T	0.17E	0.0	0.0 T	0.01E	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																																													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.76E	0.0	0.0 T	0.0 E	0.0	0.0		29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																																																											
29	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.72E	0.0	0.0		30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																																																																									
30	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.19E	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																																																																																							
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 E	0.0	0.0		TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																																																																																																					
TOTAL	1.19	0.0	0.21	0.0	0.05	0.20	4.06	2.73	1.88	1.98	0.01	0.18		STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																																																																																																																			
STA AV	0.40	0.54	0.77	0.15	0.13	0.42	3.23	3.35	1.18	0.92	0.32	0.47																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

NOTES: Data are Thiessen weighted averages of values from 69 gages. STA AV are for 7 yr only (1968-74).

1974 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	3.070	0.0	0.118	0.118	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.417	24.556	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	2.833E	0.118	0.118	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.708	0.0	0.118	0.0	0.118
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.876E	0.118	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.542	0.118	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.354	0.118	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118	0.118	0.118	0.118	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	0.118	0.0	0.118	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118	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	1.771	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.118	0.118	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.195E	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 E	0.0	0.118	0.118	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.313E	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.708E	14.167E	0.118	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	7.320E	0.118E	0.0	0.0	0.0	0.118
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.118	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.354E	0.0	3.188	0.0	0.0
23	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
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	15.348E	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118E	0.0 E	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.236	0.0	0.118	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.118	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	25.265E	0.0 E	0.118	0.118	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	7.320E	0.0 E	0.118	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0 E	0.118	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	1.4738	2.5821	1.4915	0.1333	0.0157	0.0076
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.039	0.068	0.038	0.004	0.000	0.000
STA AV	0.0	0.0	0.0	0.0	0.0	0.001	0.048	0.085	0.014	0.001	0.000	0.000

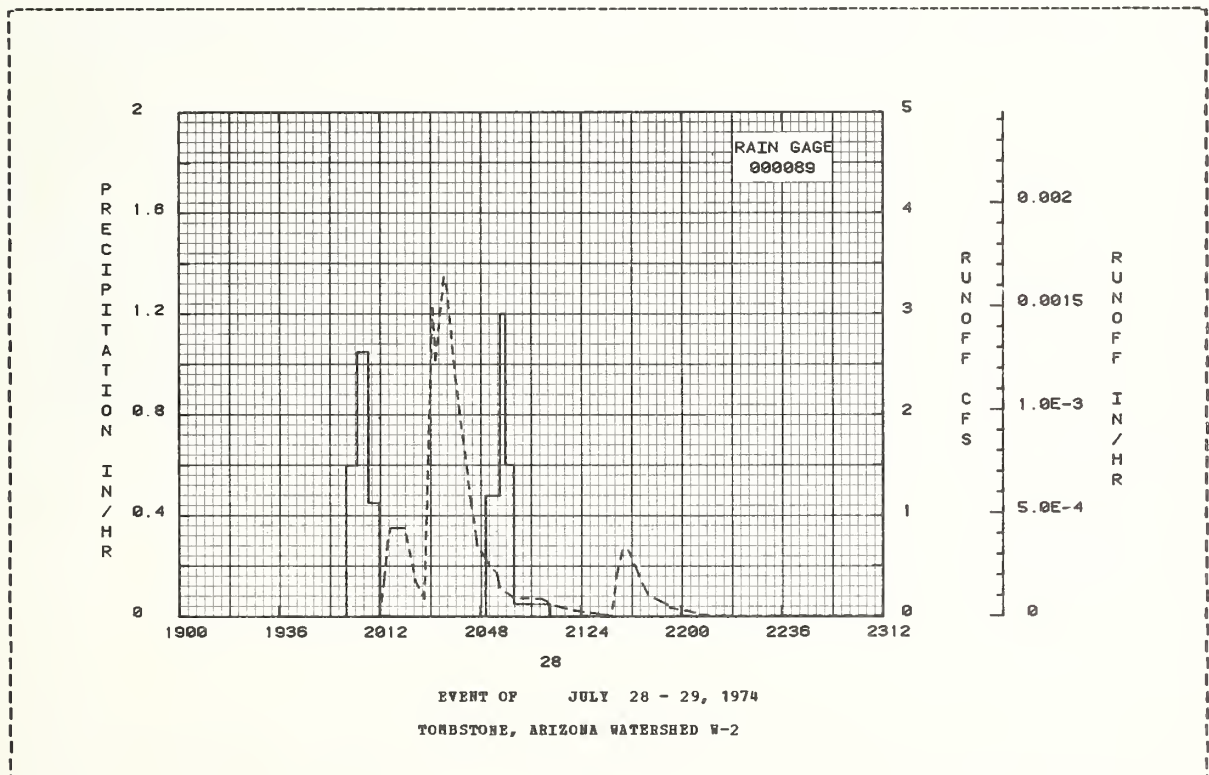
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000847. STA AV are based on 1966, 1968-74 data.

1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-2												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Ennoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 28 - 29, 1974												
7-28	0.0	0.0	7-28	2009	0.0	0.0	7-28	2035	0.0	0.0		
				2013	0.6000	0.04		2037	0.057	0.0		
				2016	3.2000	0.20		2043	14.470	0.0001		
				2018	4.5011	0.35		2045	38.704	0.0001		
				2021	2.2000	0.46		2050	22.619	0.0002		
				2023	2.4000	0.54		2055	12.881	0.0002		
				2027	1.2000	0.62		2057	11.997	0.0002		
				2032	0.7200	0.68		2100	9.194	0.0003		
				2100	0.0429	0.70		2103	6.630	0.0003		
				2108	0.2250	0.73		2110	5.216	0.0003		
								2111	4.706	0.0003		
								2123	1.780	0.0003		
								2127	65.055	0.0004		
								2130	75.511	0.0005		
								2132	82.566	0.0006		
								2134	88.431	0.0007		
								2137	88.431	0.0009		
								2142	75.709	0.0011		
								2147	59.587	0.0013		
								2152	48.451	0.0015		
								2157	39.271	0.0016		
								2202	32.443	0.0017		
								2207	28.280	0.0018		
								2213	22.721	0.0019		
								2215	75.511	0.0020		
								2220	419.912	0.0027		
								2222	466.379	0.0032		
								2226	537.781	0.0044		
								2230	581.417	0.0057		
								2231	566.115	0.0060		

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

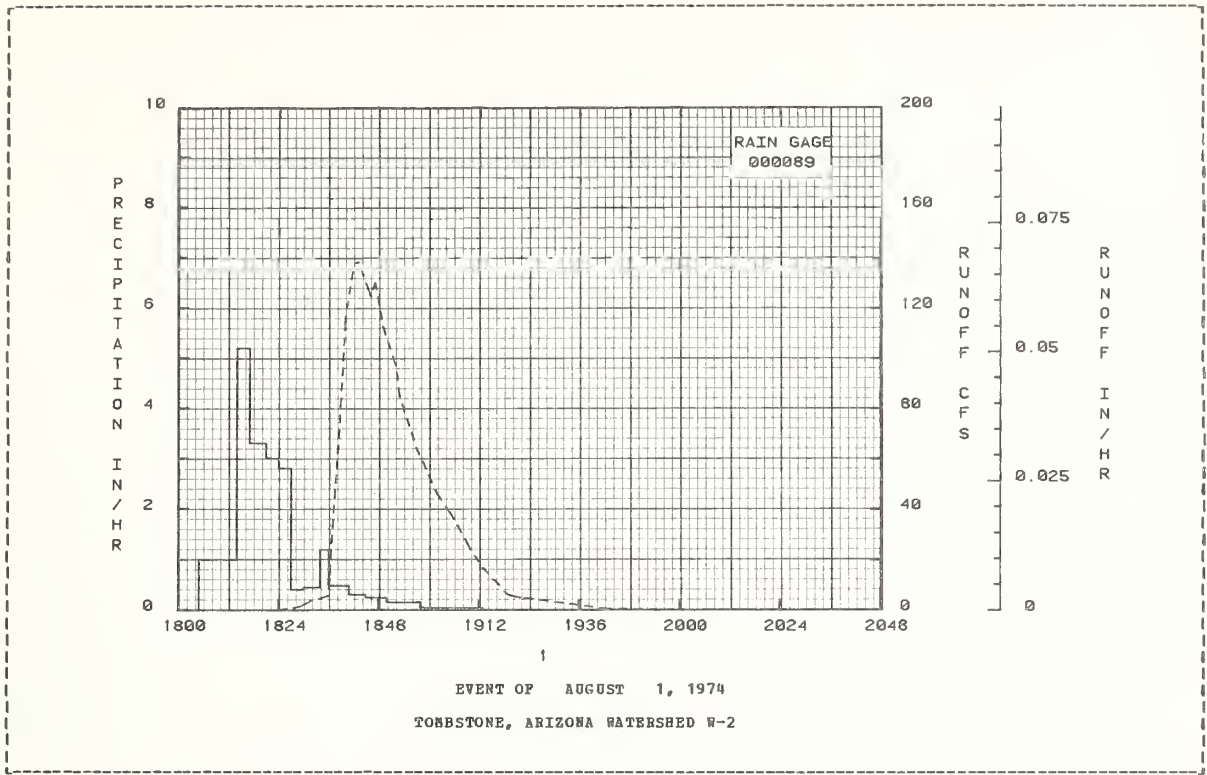
1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
			EVENT OF JULY 28 - 29, 1974 (CONTINUED)							
							7-28	2233	590.200	0.0067
								2236	572.917	0.0077
								2240	535.799	0.0090
								2242	535.799	0.0097
								2243	511.998	0.0100
								2245	511.998	0.0106
								2251	466.947	0.0123
								2256	427.279	0.0136
								2300	395.544	0.0146
								2304	361.826	0.0155
								2307	331.226	0.0161
								2312	294.958	0.0170
								2317	251.607	0.0178
								2322	216.161	0.0185
								2330	187.516	0.0195
								2337	161.391	0.0202
								2345	144.901	0.0209
								2351	130.961	0.0214
							7-29	7	123.622	0.0226
								16	105.686	0.0232
								22	94.579	0.0235
								30	86.221	0.0240
								37	76.729	0.0243
								43	75.709	0.0246
								52	68.002	0.0250
								107	56.158	0.0255
								122	51.880	0.0260
								137	40.575	0.0264
								152	28.646	0.0267
								207	20.565	0.0269
								222	15.156	0.0271
								237	11.733	0.0272
								251	10.353	0.0273

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



1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 1, 1974										
RG 000083			RG 000083							
8- 1	0.0	0.0	8- 1	1820	0.0	0.0	8- 1	1829	0.0	0.0
				1825	2.0400	0.17		1836	0.128	0.0
				1827	3.9000	0.30		1842	0.128	0.0
				1832	1.6800	0.44		1843	0.113	0.0
				1838	0.8000	0.52		1844	0.132	0.0
WATERSHED CONDITIONS: Oak woodland and desert shrubs (Whitethorn, creosotebush, tarbush, and mortonia) with a crown spread of 25% cover, occupy 55% of the area. The remaining 45% supports grass (black grama, curly mesquite, tohosa, hln grama, and sideoats grama) with a basal area of 2.5% cover, and a shrub cover of approximately 6% crown spread.				1843	0.7200	0.58		1846	0.132	0.0
				1847	1.6500	0.69		1849	0.156	0.0
				1851	0.9000	0.75		1854	0.324	0.0
				1857	0.4000	0.79		1856	0.324	0.0
				1907	0.2400	0.83		1901	0.248	0.0
								1909	0.919	0.0
								1912	0.919	0.0
								1922	0.356	0.0
								1932	0.132	0.0
								1946	0.057	0.0
								1955	2.183	0.0
								1956	2.183	0.0
								2001	1.992	0.0
								2004	1.942	0.0
								2006	68.795	0.0
					2010	75.312	0.0002			
					2013	84.719	0.0003			
					2015	85.371	0.0004			
					2016	87.099	0.0005			
					2017	85.144	0.0005			
					2019	85.144	0.0006			
					2024	75.709	0.0009			
					2029	68.200	0.0011			
					2033	57.773	0.0012			
					2044	40.575	0.0016			
					2052	26.450	0.0017			
					2102	17.255	0.0018			
					2112	11.603	0.0019			
					2122	7.424	0.0020			
					2129	5.814	0.0020			
					2133	19.358	0.0020			
					2134	19.358	0.0021			
					2139	18.638	0.0021			
					2142	17.255	0.0021			
					2143	17.255	0.0022			
					2146	20.001	0.0022			
					2147	20.001	0.0022			
					2156	15.861	0.0023			
					2209	11.866	0.0024			
					2210	11.345	0.0024			
					2216	9.248	0.0024			
					2217	8.225	0.0024			
					2239	4.800	0.0025			
					2243	4.086	0.0025			
					2256	2.345	0.0026			
					2306	1.828	0.0026			
					2322	0.864	0.0026			
					2324	0.821	0.0026			
					2330	0.749	0.0026			
					2332	0.739	0.0026			
					2339	0.520	0.0026			
					2342	0.405	0.0026			

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



EVENT OF AUGUST 1, 1974
 TOMBSTONE, ARIZONA WATERSHED W-2

1974 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 2, 1974										
9- 2	0.0	0.0	9- 2	1739	0.0	0.0	9- 2	1840	0.012	0.0
				1748	0.4667	0.07		1847	0.0	0.0
				1755	0.8571	0.17		1850	75.312	0.0
				1801	0.7000	0.24		1851	466.379	0.0002
				1808	0.7714	0.33		1853	754.822	0.0009
WATERSHED CONDITIONS: Oak woodland and desert shrubs (whitethorn, creosotebush, tarbush, and mormonia) with a crown spread of 25% cover, occupy 55% of the area. The remaining 45% supports grass (black grama, curly mesquite, tobosa, blue grama, and sideoats grama) with a basal area of 2.5% cover, and a shrub cover of approximately 6% crown spread.				1814	0.4000	0.37		1854	816.023	0.0014
				1819	0.7200	0.43		1856	792.506	0.0023
				1824	1.2000	0.53		1857	753.971	0.0028
				1835	0.4364	0.61		1901	655.368	0.0044
				1852	0.1059	0.64		1902	672.653	0.0048
								1910	579.433	0.0078
								1914	534.099	0.0091
								1915	499.248	0.0094
								1918	466.947	0.0102
								1922	425.579	0.0113
								1925	365.510	0.0120
								1930	313.375	0.0130
								1934	268.437	0.0137
								1941	216.530	0.0147
								1944	185.702	0.0150
					1954	156.830	0.0160			
					2007	132.689	0.0171			
					2014	107.698	0.0176			
					2020	94.579	0.0180			
					2024	84.719	0.0182			
					2025	84.917	0.0183			
					2030	78.372	0.0185			
					2034	66.415	0.0187			
					2044	53.920	0.0190			
					2047	54.260	0.0191			

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

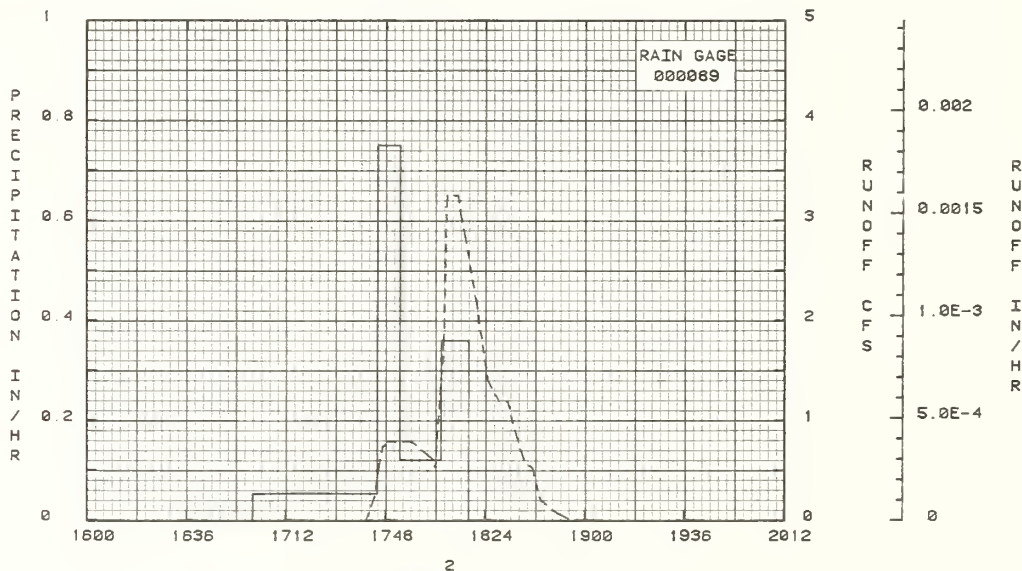
1974

SELECTED RUNOFF EVENT

TOMBSTONE, ARIZONA WATERSHED W-2

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 2, 1974 (CONTINUED)										
				9- 2				2057	44.541	0.0194
								2101	42.161	0.0195
								2104	42.020	0.0196
								2114	34.936	0.0198
								2117	34.936	0.0199
								2131	28.646	0.0201
								2147	21.234	0.0204
								2201	13.589	0.0205
								2219	7.817	0.0206
								2221	7.769	0.0206
								2230	5.650	0.0207
								2235	5.216	0.0207
								2247	4.142	0.0207
								2301	3.298	0.0207
								2311	2.669	0.0208
								2321	1.860	0.0208
								2327	1.611	0.0208
								2331	1.478	0.0208
								2344	1.339	0.0208

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



EVENT OF SEPTEMBER 2, 1974
TOMBSTONE, ARIZONA WATERSHED W-2

TOBSTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise County; 1.3 miles north of Tombstone; tributary of Walnut Gulch; Sau 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)														TOBSTONE, ARIZONA WATERSHED W-3														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1974	P	1.31	0.0	0.27	0.0	0.06	0.22	2.98	1.98	1.75	2.03	0.01	0.15	10.76														
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.031	0.009	0.020	0.0	0.0	0.068														
STA AV	P	0.51	0.39	0.51	0.13	0.08	0.32	3.38	3.00	1.30	0.66	0.40	0.69	11.38														
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.105	0.024	0.001	0.0	0.0	0.156														

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.
1974		8-1	0.065	8-1	0.025	8-1	0.028	8-1	0.029	8-1	0.029	7-31	0.029	7-30	0.029	7-27	0.034

MAXIMUMS FOR PERIOD OF RECORD																	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
		8-16	0.580	8-10	0.275	8-10	0.312	8-11	0.320	8-11	0.320	8-11	0.320	8-10	0.320	8-10	0.426
		1958		1971		1971		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: Vegetative cover; Desert shrubs (Whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. No. 1226. Precipitation Data: Records began 1955. Monthly totals are Thiessen weighted averages of 13 gages, station averages are based on record period (1955-74). Runoff Data: Records began 1958, station averages are based on record period (1958-74). 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.

1974 DAILY PRECIPITATION (inches)														TOBSTONE, 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	0.92E	0.0	0.0	0.0	0.0	0.0														
2	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.19E	0.65E	0.0	0.0	0.0														
3	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.01E	0.03E	0.0	0.0	0.0														
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0														
5	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
6	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0														
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.14	0.0	0.0														
8	0.39E	0.0	0.0	0.0	0.06	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0														
9	0.60E	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0														
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.32	0.0	0.0	0.0														
13	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.17	0.0	0.0	0.0	0.0	0.0														
14	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.27	0.12E	0.0	0.0	0.0	0.0														
15	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.03E	0.0	0.0	0.0	0.0	0.0														
16	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0														
17	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														
18	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.13	0.01	0.0	0.0	0.0	0.0														
19	0.0	0.0	0.09E	0.0	0.0	0.0	0.35	0.05	0.01	0.0	0.0	0.0	0.0														
20	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.13E	0.0	0.0	0.0	0.0														
21	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														
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.03	0.46E	0.01	0.0	0.0														
23	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.03E	0.01	0.0	0.0	0.01E														
24	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02E	0.56E	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	0.09	0.0	0.0	0.0	0.01E														
26	0.0	0.0	0.0	0.0	0.0	0.21	0.11E	0.0	0.0	0.0	0.0	0.0	0.04E														
27	0.08E	0.0	0.0	0.0	0.0	0.0	0.36E	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	0.40E	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	0.16E	0.0	0.0	0.0	0.71	0.0	0.0														
30	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.13	0.0	0.0	0.0														
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL	1.31	0.0	0.27	0.0	0.06	0.22	2.98	1.98	1.75	2.03	0.01	0.15	10.76														
STA AV	0.51	0.39	0.51	0.13	0.08	0.32	3.38	3.00	1.30	0.66	0.40	0.69	11.38														

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV are based on record period (1955-74).

1974 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	2.696E	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	0.196E	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.354	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.075E	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	1.847E	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	0.849	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	0.205E	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.019E	0.0	0.0	0.028	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.065E	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	0.0232	0.0933	0.0283	0.0605	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.031	0.009	0.020	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.105	0.024	0.001	0.0	0.0

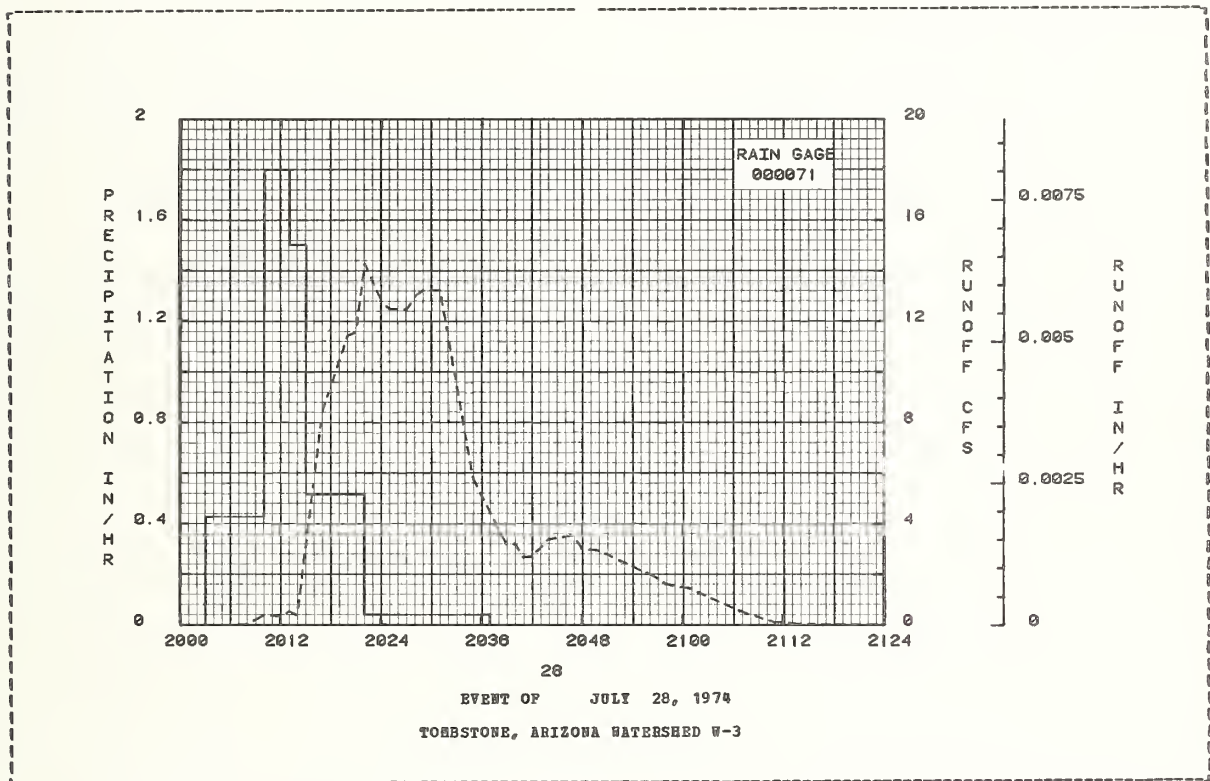
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.010722. STA AV based on record period (1958-74).

1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-3											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 28, 1974											
7-28	RG 000071 0.0	0.0	7-28	RG 000071	0.0	0.0	7-28	2007	0.0	0.0	
					2010	0.4286	0.05	2008	0.037	0.0	
					2013	1.8000	0.14	2010	0.395	0.0	
					2015	1.5000	0.19	2012	0.317	0.0	
					2022	0.5143	0.25	2013	0.530	0.0	
WATERSHED CONDITIONS:											
Vegetative Cover: Desert shrubs (whitethorn, creosote-bush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover, occupy 55% of the area.											
Grasses (black grama, curly mesquite, tobosa) with a basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area.											
					2037	0.0400	0.26	2014	0.378	0.0	
								2017	8.484	0.0001	
								2020	11.443	0.0003	
								2021	11.555	0.0004	
								2022	14.273	0.0005	
								2024	12.813	0.0007	
								2025	12.464	0.0008	
								2027	12.464	0.0010	
								2028	12.992	0.0010	
								2029	13.230	0.0011	
								2031	13.230	0.0013	
								2035	5.744	0.0016	
								2039	3.192	0.0018	
								2040	3.192	0.0018	
								2041	2.675	0.0018	
								2042	2.675	0.0018	
								2044	3.385	0.0019	
								2047	3.555	0.0019	
								2048	3.006	0.0020	
								2050	2.928	0.0020	
								2057	1.852	0.0021	
								2058	1.602	0.0022	
								2101	1.424	0.0022	
								2107	0.530	0.0022	
								2111	0.103	0.0022	

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

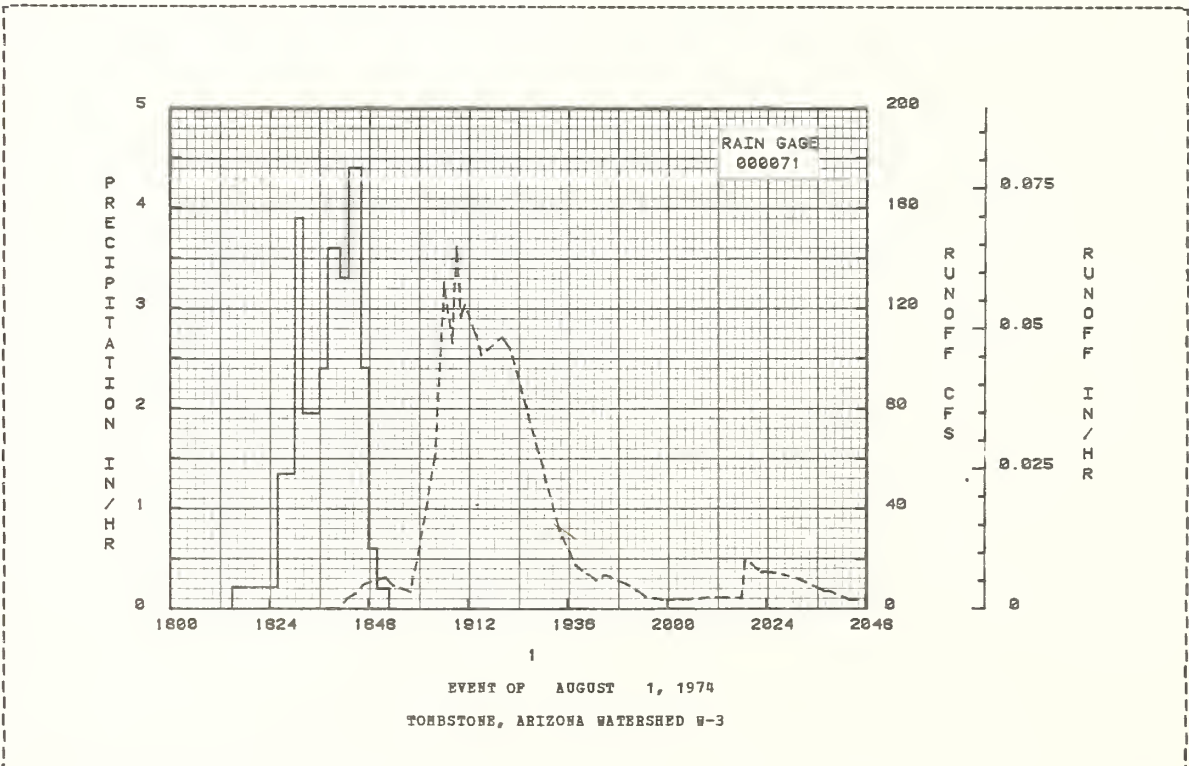
1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 28, 1974 (CONTINUED)										
							7-28	2113	0.061	0.0022
								2114	0.029	0.0022
								2124	0.004	0.0022

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



1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED R-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 AUGUST 1, 1974										
8- 1	RG 000071 0.0	0.0	8- 1	RG 000071 1815	0.0	0.0	8- 1	1832	0.061	0.0
				1826	0.2182	0.04		1834	0.061	0.0
				1830	1.3500	0.13		1835	0.084	0.0
				1832	3.9000	0.26		1836	0.188	0.0
				1836	1.9500	0.39		1839	0.217	0.0
				1838	2.4000	0.47		1841	0.217	0.0
				1841	3.6000	0.65		1843	4.511	0.0
				1843	3.3000	0.76		1845	6.283	0.0001
				1846	4.4000	0.98		1847	10.004	0.0002
				1848	2.4000	1.06		1852	12.639	0.0006
				1850	0.6000	1.08		1854	9.202	0.0008
				1853	0.2000	1.09		1858	6.852	0.0010
								1900	21.975	0.0013
								1904	62.051	0.0025
								1906	130.034	0.0039
								1908	105.971	0.0057
								1909	144.585	0.0066
								1910	116.357	0.0076
								1911	121.439	0.0085
								1914	107.493	0.0110
								1915	101.270	0.0118
								1920	108.455	0.0157
								1922	103.508	0.0173
								1929	62.208	0.0216
								1934	31.205	0.0234
								1938	17.104	0.0241
								1943	11.389	0.0246
								1945	13.655	0.0248
								1951	9.202	0.0253
								1955	4.676	0.0255
								1959	3.642	0.0256
								2000	3.642	0.0257

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



TOMBSTONE, ARIZONA W-4

LOCATION: Cochise Connty, 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	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	1.39	0.0	0.30	0.0	0.04	0.20	2.88	1.82	1.57	2.09	0.0	0.15	10.44
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.067	0.004	0.081	0.0	0.0	0.152
STA AV	P	0.49	0.38	0.53	0.13	0.08	0.35	3.33	3.05	1.31	0.67	0.40	0.67	11.39
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.314	0.141	0.028	0.004	0.0	0.0	0.486

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1974	10-22	0.180	10-22	0.077	10-22	0.080	10-22	0.081	10-22	0.081	10-21	0.081	10-20	0.081	10-14	0.081
MAXIMUMS FOR PERIOD OF RECORD																
	7-19	2.250	7-19	0.980	7-19	1.100	7-19	1.100	7-19	1.100	7-19	1.630	7-19	1.630	7-19	4.370
	1955		1955		1955		1955		1955		1955		1955		1955	

NOTES: Watershed conditions: Vegetative cover: 100% dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basal cover. For topography, geological, and vegetative maps, see pages 63.1-3, 63.1-4 and 63.1-5 respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Hisc. Pub. 1226. Precipitation Data: Record began July 1954. Monthly totals are Thiessen weighted averages of four rain gages, station averages are based on record period (1955-74). Runoff Data: Records began January 1955, station averages based on 18 yr period, (1955-58) and (1961-74). 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.

1974 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-4	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0		
2	0.13E	0.0	0.0	0.0	0.0	0.0	0.03	0.19	0.55	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.03	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0		
5	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.08		
6	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.16	0.0	0.0		
8	0.43E	0.0	0.0 T	0.0	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.0		
9	0.66	0.0	0.16	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	0.01	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.34	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.22	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.04	0.12E	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	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	0.15	0.07	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.09	0.0	0.0	0.0	0.30	0.05	0.01	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.04E	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 T	0.20	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.52E	0.0	0.0		
23	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.01E		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.69E	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.01E		
26	0.0	0.0	0.0	0.0	0.0	0.20	0.13	0.0	0.0	0.0	0.0	0.05E		
27	0.07E	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.01	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.70	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.10	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0		
TOTAL	1.39	0.0	0.30	0.0	0.04	0.20	2.88	1.82	1.57	2.09	0.0	0.15		
STA AV	0.49	0.38	0.53	0.13	0.08	0.35	3.33	3.05	1.31	0.67	0.40	0.67		

NOTES: Data are Thiessen weighted averages of values from four gages. STA AV are for record period (1955-74).

1974 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	1.574	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.899	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	0.099	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	0.0508	0.0033	0.0612	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.067	0.004	0.081	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.314	0.141	0.028	0.004	0.0	0.0

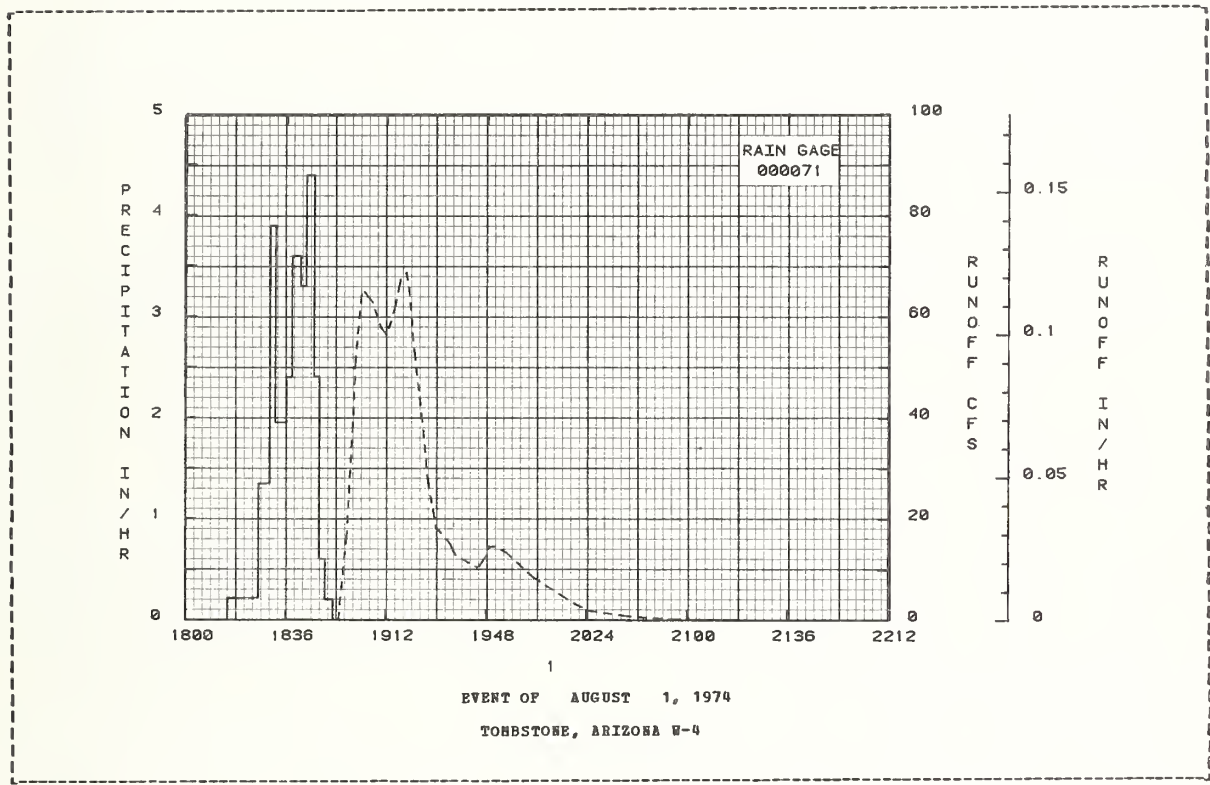
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.042503. STA AV based on record period (1955-58) and (1961-74).

1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-4											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 1, 1974											
RG 000071			RG 000071								
8- 1	0.0	0.0	8- 1	1815	0.0	0.0	8- 1	1855	0.0	0.0	
				1826	0.2182	0.04		1858	17.606	0.0008	
				1830	1.3500	0.13		1900	39.092	0.0025	
				1832	3.9000	0.26		1901	52.079	0.0038	
				1836	1.9500	0.39		1903	64.485	0.0072	
WATERSHED CONDITIONS:											
100% of area dominated by											
desert shrubs (whitethorn,											
creosotebush and tarbush)											
with a crown spread of											
approximately 33% and an											
understory of grasses with											
approximately 0.6% basal											
cover.											
				1838	2.4000	0.47		1904	64.880	0.0091	
				1841	3.6000	0.65		1907	62.678	0.0148	
				1843	3.3000	0.76		1910	57.652	0.0201	
				1846	4.4000	0.98		1912	56.229	0.0235	
				1848	2.4000	1.06		1915	61.944	0.0287	
				1850	0.6000	1.08		1917	67.478	0.0325	
				1853	0.2000	1.09		1919	68.607	0.0366	
								1920	65.614	0.0385	
								1922	52.762	0.0420	
								1925	39.092	0.0461	
								1927	27.522	0.0481	
								1930	18.273	0.0501	
								1935	15.026	0.0525	
								1937	12.784	0.0534	
								1945	10.294	0.0561	
								1948	12.784	0.0571	
								1949	14.523	0.0575	
								1951	14.608	0.0584	
								1955	13.383	0.0600	
								2005	8.351	0.0632	
								2015	4.880	0.0652	
								2020	3.122	0.0658	
								2025	1.766	0.0661	
								2040	0.692	0.0667	
								2055	0.203	0.0669	

NOTES: To convert rnoff in CPS to IN/HR, multiply by 0.001771.

1974			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 AUGUST 1, 1974 (CONTINUED)										
							8- 1	2105	0.094	0.0669
								2115	0.019	0.0669

NOTES: To convert runoff in CPS 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	
1974	P 1.19	0.0	0.19	0.0	0.06	0.23	3.23	2.15	1.80	2.01	0.01	0.15	11.02	
	Q 0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.037	0.038	0.010	0.0	0.0	0.086	
STA AV	P 0.38	0.57	0.70	0.15	0.11	0.41	2.86	3.36	1.20	0.94	0.32	0.48	11.46	
	Q 0.0	0.0	0.0	0.0	0.0	0.004	0.040	0.121	0.014	0.003	0.0	0.0	0.182	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	Maximum Volume for Selected Time Interval														
		1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.	
1974	8-15	0.056	8-15	0.028	8-15	0.030	8-14	0.030	8-14	0.030	8-14	0.030	8-13	0.031	8-7	0.031

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
	1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Vegetative cover: approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 17 gages, station averages are based on 1968-74 data. Runoff Data: Records began 1963, station averages are based on 1966, 1968-74 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.

1974	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	0.59	0.0	0.0	0.0	0.0		
2	0.10S	0.0	0.0	0.0	0.0	0.0	0.21E	0.20	0.60E	0.0	0.01E	0.0		
3	0.01E	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.04E	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0		0.10E
6	0.06E	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.11	0.10	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.07	0.0	0.0		
8	0.40E	0.0	0.0 T	0.0	0.06E	0.0	0.13	0.0	0.0	0.0	0.0	0.0		
9	0.53E	0.0	0.11E	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	0.01E	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.32E	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.13E	0.0	0.0 E	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.19E	0.61	0.07E	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.08	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	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	0.01	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	0.21	0.35	0.01	0.0	0.0	0.0		0.0
19	0.0	0.0	0.06E	0.0	0.0	0.0	0.32	0.06	0.01	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	0.18	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	0.13	0.0	0.0		0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.03	0.38E	0.0 T	0.0		0.0
23	0.0	0.0	0.02E	0.0	0.0	0.0	0.0 T	0.0	0.04E	0.11	0.0	0.0		0.01E
24	0.0	0.0	0.0 T	0.0	0.0	0.02	0.0	0.01E	0.49	0.0	0.0	0.0		0.0
25	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0 T	0.05E	0.0	0.0	0.0		0.01S
26	0.0	0.0	0.0	0.0	0.0	0.20	0.06E	0.0	0.0	0.0	0.0	0.0		0.03S
27	0.06S	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0 T	0.01	0.0	0.0		0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.36E	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	0.17E	0.0	0.0	0.71E	0.0	0.0		0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.17E	0.0	0.0		0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	1.19	0.0	0.19	0.0	0.06	0.23	3.23	2.15	1.80	2.01	0.01	0.15		11.02
STA AV	0.38	0.57	0.70	0.15	0.11	0.41	2.86	3.36	1.20	0.94	0.32	0.48		11.46

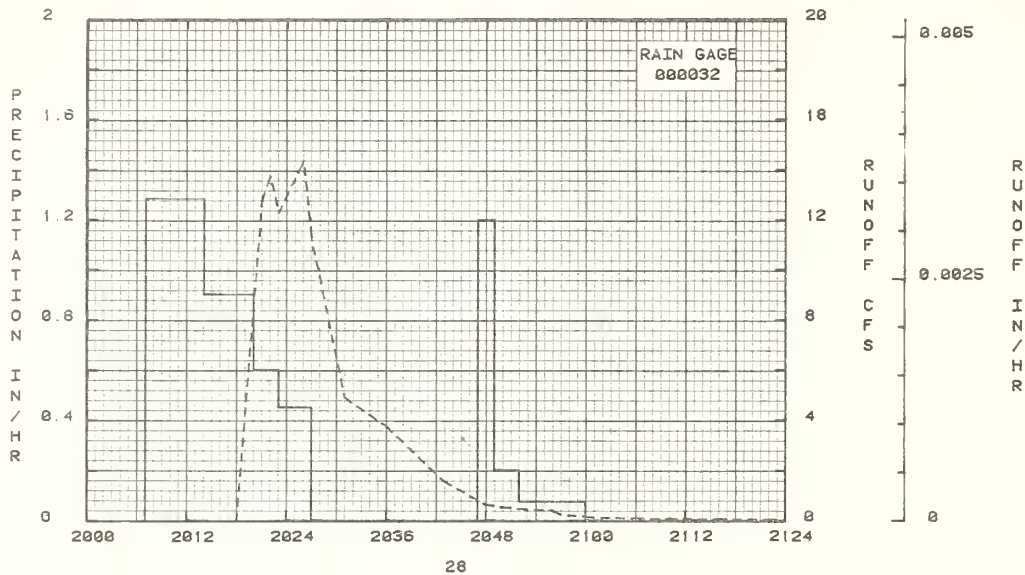
NOTES: Data are Thiessen weighted averages from 17 rain gages. STA AV are based on 1968-74 data.

1974 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	1.014E	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	3.942E	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	0.016	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	0.097	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	4.827E	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	0.064	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.016	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	1.641E	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	2.124E	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	0.129	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	0.0067	0.1921	0.2022	0.0529	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.037	0.038	0.010	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.004	0.040	0.121	0.014	0.003	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.006215. STA AV are based on 8 yr only (1966, 1968-74).

1974 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 JULY 28, 1974												
7-28	RG 000032 0.0	0.0	7-28	RG 000032 2007	0.0	0.0	7-28	2018	0.0	0.0		
				2014	1.2857	0.15		2021	12.802	0.0001		
				2020	0.9000	0.24		2022	13.752	0.0001		
				2023	0.6000	0.27		2023	12.277	0.0002		
				2027	0.4500	0.30		2026	14.382	0.0004		
				2047	0.0	0.30		2027	11.200	0.0004		
				2049	1.2000	0.34		2031	4.878	0.0006		
				2052	0.2000	0.35		2036	3.738	0.0007		
				2100	0.0750	0.36		2043	1.554	0.0007		
								2048	0.632	0.0008		
								2050	0.526	0.0008		
								2053	0.431	0.0008		
								2056	0.392	0.0008		
								2057	0.242	0.0008		
								2101	0.115	0.0008		
								2107	0.066	0.0008		
								2110	0.066	0.0008		
								2116	0.044	0.0008		
								2123	0.031	0.0008		

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



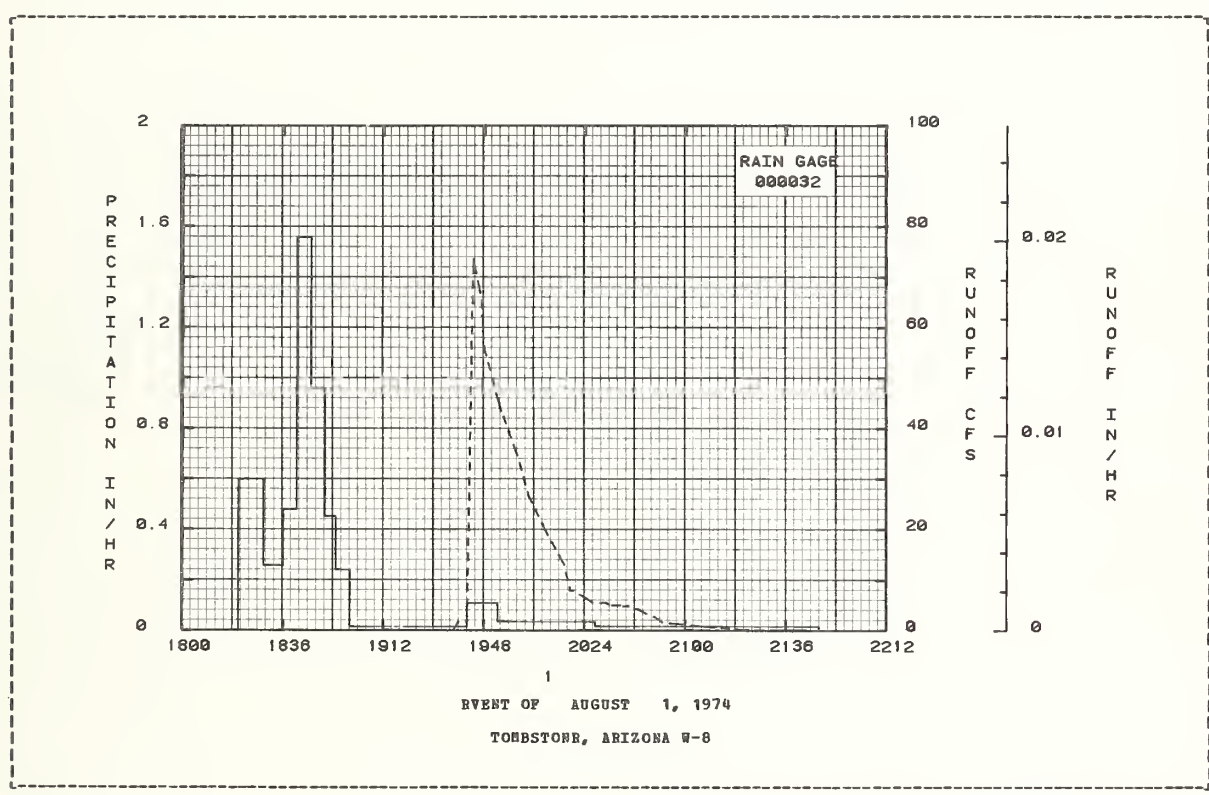
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EVENT OF JULY 28, 1974
TOMBSTONE, ARIZONA W-8

1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-8							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 1, 1974										
8- 1	RG 000032	0.0	8- 1	RG 000032			8- 1	1937	0.0	0.0
	0.0	0.0		1820	0.0	0.0		1939	1.815	0.0
				1829	0.6000	0.09		1942	1.815	0.0
				1836	0.2571	0.12		1944	73.608	0.0004
				1841	0.4800	0.16		1946	68.279	0.0010
				1846	1.5600	0.29		1947	65.305	0.0013
				1851	0.9600	0.37		1948	55.843	0.0015
				1855	0.4500	0.40		1951	49.896	0.0022
				1900	0.2400	0.42		1953	45.609	0.0026
				1942	0.0143	0.43		1954	43.369	0.0028
				1953	0.1091	0.45		1955	42.327	0.0030
				2028	0.0343	0.47		2000	34.618	0.0038
				2107	0.0154	0.48		2004	26.659	0.0043
				2148	0.0146	0.49		2011	18.827	0.0050
								2017	12.934	0.0054
								2019	7.840	0.0055
								2020	7.840	0.0056
								2024	6.515	0.0057
								2027	5.492	0.0058
								2032	5.492	0.0059
								2033	5.078	0.0059
								2034	4.997	0.0059
								2037	4.959	0.0060
								2038	4.800	0.0060
								2040	4.800	0.0061
								2044	3.947	0.0061
								2051	2.026	0.0062
								2052	1.534	0.0062
								2057	1.260	0.0063
								2120	0.146	0.0063

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

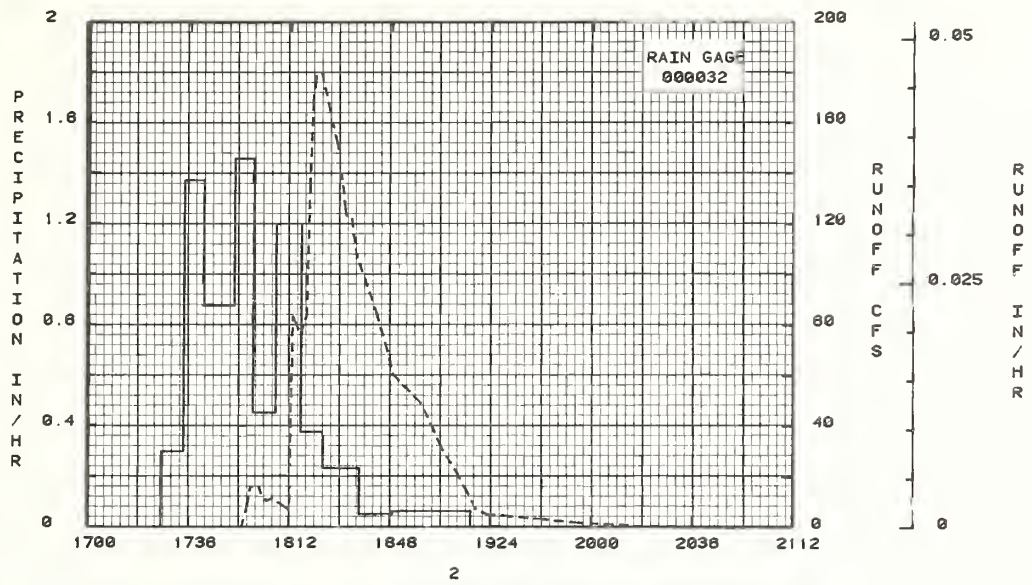
1974 SELECTED RUNOFF EVENT			TOBSTONE, ARIZONA W-8							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 1, 1974 (CONTINUED)										
							8- 1	2135	0.020	0.0063
								2145	0.0	0.0063

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



1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-8								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 2, 1974											
9- 2	RG 000032 0.0	0.0	9- 2	RG 000032 1726	0.0	0.0	9- 2	1755	0.0	0.0	
				1734	0.3000	0.04		1757	8.527	0.0	
				1741	1.3714	0.20		1758	15.691	0.0001	
				1752	0.8727	0.36		1759	16.066	0.0002	
				1759	1.4571	0.53		1801	16.066	0.0003	
				1807	0.4500	0.59		1802	13.204	0.0004	
				1816	1.2000	0.77		1804	10.118	0.0005	
				1824	0.3750	0.82		1806	11.447	0.0006	
				1837	0.2308	0.87		1812	6.654	0.0008	
				1849	0.0500	0.88		1813	82.224	0.0010	
				1917	0.0643	0.91		1815	78.049	0.0017	
								1816	76.620	0.0020	
								1818	84.151	0.0027	
								1819	137.832	0.0032	
								1820	170.774	0.0039	
								1821	178.421	0.0046	
								1823	179.270	0.0062	
								1826	163.629	0.0084	
								1829	149.495	0.0104	
								1832	122.925	0.0122	
								1834	121.535	0.0132	
								1836	106.589	0.0142	
								1843	84.344	0.0171	
								1847	69.283	0.0184	
								1849	60.169	0.0190	
								1853	55.689	0.0200	
								1859	48.892	0.0213	
								1903	39.894	0.0221	
								1904	37.573	0.0223	
								1907	30.281	0.0227	
								1912	21.743	0.0233	
								1915	15.544	0.0235	
								1919	7.233	0.0237	
								1923	4.997	0.0238	
								1932	4.233	0.0240	
								1942	3.215	0.0241	
								1957	1.639	0.0243	
								2022	0.572	0.0244	
								2055	0.0	0.0245	

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



2
EVENT OF SEPTEMBER 2, 1974
TOMBSTONE, ARIZONA W-8

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
1974	P	1.15	0.0	0.13	0.0	0.04	0.24	3.42	2.32	1.58	1.97	0.01	0.13	10.99
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.047	0.019	0.0	0.0	0.0	0.073
STA AV	P	0.39	0.56	0.66	0.16	0.13	0.38	2.95	3.44	1.14	0.92	0.32	0.49	11.53
	Q	0.0	0.0	0.0	0.0	0.0	0.002	0.082	0.150	0.015	0.004	0.0	0.0	0.253

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1974	9-24	0.086	8-1	0.023	8-1	0.023	8-1	0.023	8-1	0.023	7-31	0.023	7-30	0.023	7-24	0.024

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	9-11 1964	0.520	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. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 10 rain gages, station averages are for 7 yr (1968-74). Runoff Data: Records began 1963, station averages are based on 1966, 1968-74 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.

1974 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	0.54	0.0	0.0	0.0	0.0		
2	0.09S	0.0	0.0	0.0	0.0	0.0	0.34E	0.15	0.34	0.0	0.01	0.0		
3	0.0 T	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.04	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E		
6	0.05E	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.20	0.11	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.06	0.0	0.0		
8	0.41E	0.0	0.0	0.0	0.04E	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
9	0.52	0.0	0.08E	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	0.02E	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.35E	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.36E	0.08E	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.82	0.03	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.06	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.28	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	0.19	0.53	0.01	0.0	0.0	0.0		
19	0.0	0.0	0.04E	0.0	0.0	0.0	0.34	0.04	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.20	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	0.10	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.31E	0.0	0.0		
23	0.0	0.0	0.01E	0.0	0.0	0.0	0.0 T	0.0	0.05	0.18	0.0	0.01		
24	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.01	0.43	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.04	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.22	0.02E	0.0	0.0	0.0	0.0	0.03E		
27	0.05S	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.01	0.0 T	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.17E	0.0	0.0	0.67E	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.17E	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
TOTAL	1.15	0.0	0.13	0.0	0.04	0.24	3.42	2.32	1.58	1.97	0.01	0.13		
STA AV	0.39	0.56	0.66	0.16	0.13	0.38	2.95	3.44	1.14	0.92	0.32	0.49		

NOTES: Data are Thiessen weighted averages of 10 rain gages. STA AV are for 7 yr only (1968-74).

1974 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	2.001E	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	0.051	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.564	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	1.197	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.744E	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	0.077	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	1.539E	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	0.051	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.009	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	0.0201	0.1296	0.0530	0.0	0.0	0.0
INCRS	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.047	0.019	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.002	0.082	0.150	0.015	0.004	0.0	0.0

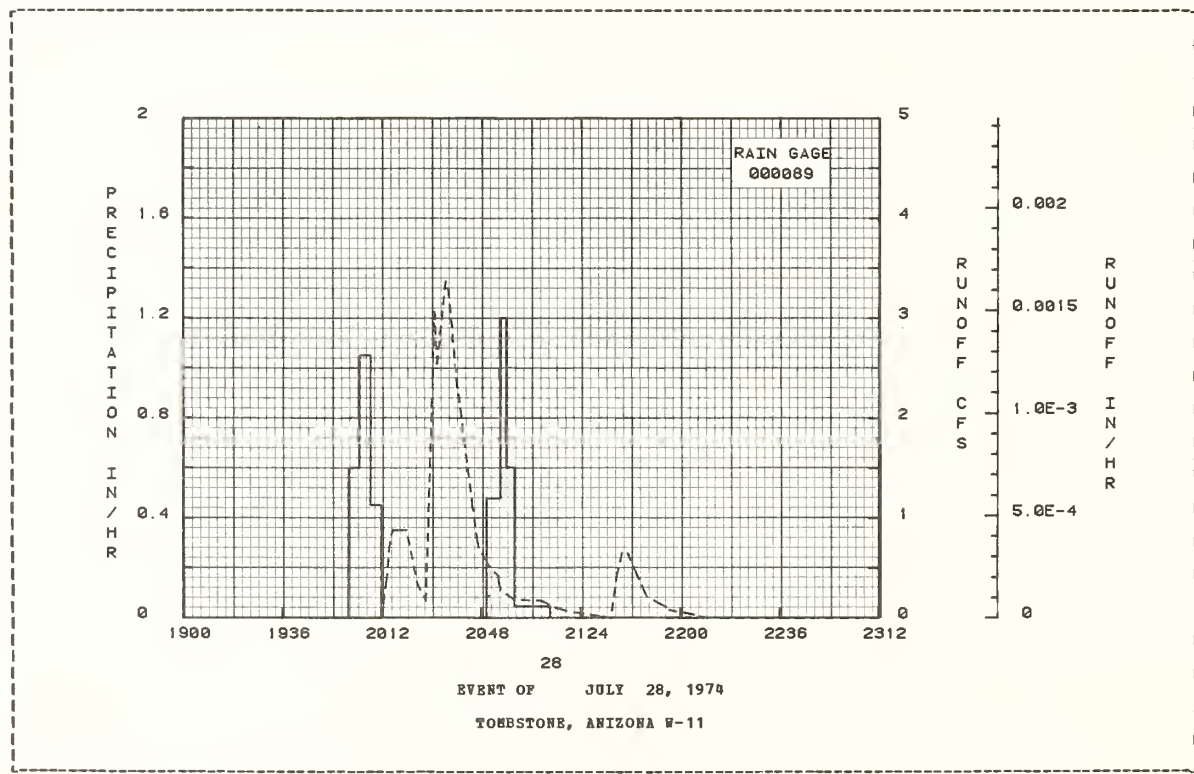
NOTES: To convert mean daily discharge values in CFS to IN/ DAY, multiply by 0.011696. STA AV values are for 8 yr only (1966, 1968-74).

1974 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 JULY 28, 1974												
7-28	RG 000089	0.0	7-28	RG 000089			7-28	2012	0.0	0.0		
	0.0	0.0		2000	0.0	0.0		2014	0.436	0.0		
				2004	0.6000	0.04		2015	0.765	0.0		
				2008	1.0500	0.11		2016	0.878	0.0		
				2012	0.4500	0.14		2021	0.878	0.0		
				2050	0.0	0.14						
WATERSHED CONDITIONS:												
Vegetative cover: Approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understory of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover.				2055	0.4800	0.18	2025	0.333	0.0001			
				2057	1.2000	0.22	2026	0.284	0.0001			
				2100	0.6000	0.25	2028	0.167	0.0001			
				2113	0.0462	0.26	2031	3.062	0.0001			
							2032	2.540	0.0001			
							2035	3.373	0.0002			
							2036	3.279	0.0002			
							2039	2.380	0.0003			
							2045	1.066	0.0004			
							2047	0.699	0.0004			
							2051	0.509	0.0004			
							2054	0.416	0.0004			
							2055	0.284	0.0004			
							2100	0.179	0.0004			
							2110	0.173	0.0005			
							2115	0.104	0.0005			
							2119	0.072	0.0005			
							2125	0.035	0.0005			
							2130	0.016	0.0005			
							2131	0.009	0.0005			
							2132	0.013	0.0005			
							2135	0.004	0.0005			
							2137	0.416	0.0005			
							2139	0.648	0.0005			
							2141	0.648	0.0005			

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

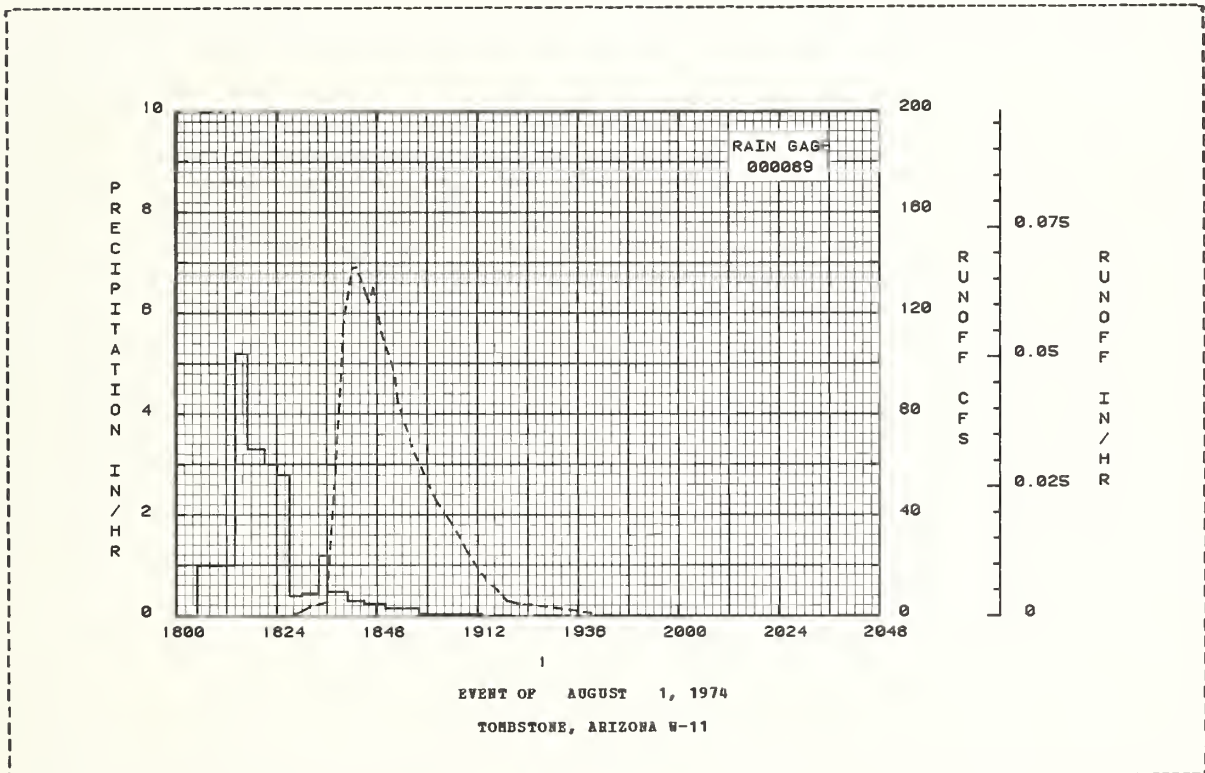
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 28, 1974 (CONTINUED)										
							7-28	2145	0.387	0.0005
								2148	0.211	0.0005
								2155	0.114	0.0005
								2156	0.083	0.0005
								2202	0.045	0.0005
								2205	0.032	0.0005
								2207	0.013	0.0005
								2215	0.0	0.0005
								2312	0.0	0.0005
								2313	0.015	0.0005
								2315	0.051	0.0005
								2318	0.109	0.0005
								2320	0.124	0.0005
								2321	0.134	0.0005
								2325	0.134	0.0005
								2326	0.109	0.0005
								2328	0.100	0.0005
								2331	0.100	0.0006
								2336	0.051	0.0006
								2341	0.032	0.0006
								2347	0.015	0.0006
								2350	0.179	0.0006
								2351	0.369	0.0006
								2355	0.369	0.0006
								2357	0.232	0.0006
								2358	0.192	0.0006
								2359	0.416	0.0006

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



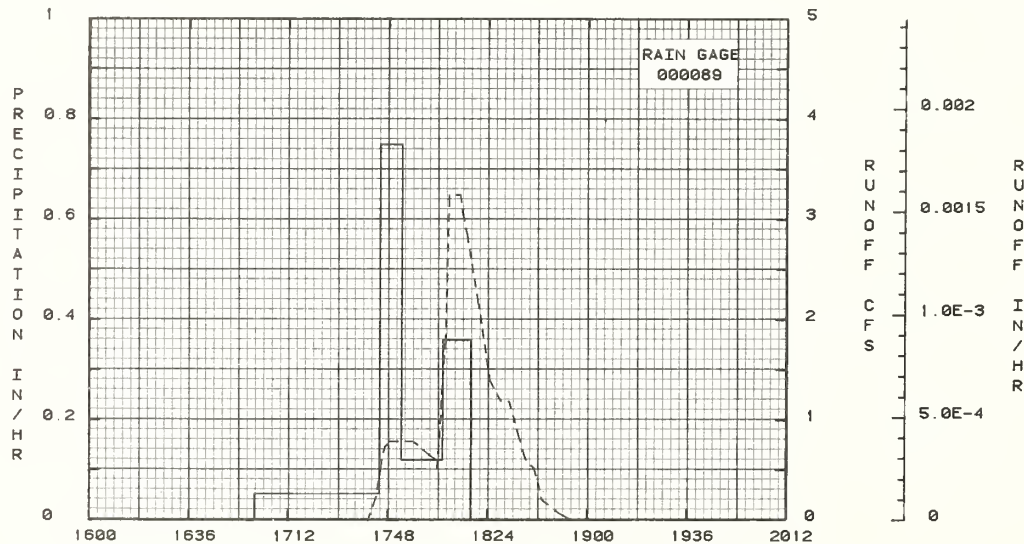
1974 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 1, 1974											
8- 1	RG 000089	0.0	8- 1	RG 000089	1805	0.0	0.0	8- 1	1823	0.0	0.0
					1814	1.0000	0.15		1826	0.487	0.0
					1817	5.2000	0.41		1829	1.279	0.0
					1821	3.3000	0.63		1832	3.704	0.0001
					1824	3.0000	0.78		1836	5.663	0.0002
WATERSHED CONDITIONS: Vegetative cover: approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understory of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover.					1827	2.8000	0.92		1839	84.192	0.0013
					1830	0.4000	0.94		1840	116.756	0.0021
					1834	0.4500	0.97		1842	138.097	0.0042
					1836	1.2000	1.01		1843	138.343	0.0053
					1841	0.4800	1.05		1846	124.574	0.0085
					1845	0.3000	1.07		1847	130.279	0.0095
					1850	0.2400	1.09		1849	112.263	0.0115
					1858	0.1500	1.11		1852	97.160	0.0141
					1913	0.0400	1.12		1853	84.377	0.0148
									1857	64.329	0.0172
									1902	45.902	0.0195
									1906	36.032	0.0208
									1910	24.049	0.0218
									1913	16.524	0.0223
						1917	9.648	0.0227			
						1919	5.924	0.0228			
						1922	4.683	0.0229			
						1923	4.455	0.0230			
						1925	4.305	0.0230			
						1942	0.466	0.0234			

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



ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 2, 1974											
9- 2	RG 000089	0.0	9- 2	RG 000089	0.0	0.0	9- 2	1741	0.0	0.0	
	0.0	0.0		1700	0.0	0.0		1744	0.239	0.0	
				1745	0.0533	0.04		1746	0.611	0.0	
				1753	0.7500	0.14		1747	0.738	0.0	
				1808	0.1200	0.17		1748	0.765	0.0	
				1818	0.3600	0.23					
WATERSHED CONDITIONS:									1749	0.793	0.0
Vegetative cover: approx-									1757	0.793	0.0001
imately 20% of the area is									1759	0.752	0.0001
dominated by desert shrubs									1801	0.699	0.0001
(whitethoru, creosotebush,									1805	0.611	0.0001
tarbush) with a crown											
spread of approximately									1806	0.520	0.0001
30% cover and an understory									1809	1.861	0.0001
of grasses with basal area									1810	3.246	0.0002
of less than 1%. The									1814	3.246	0.0003
remaining 80% of the area									1815	3.062	0.0003
supports a grass cover											
(black grama, curly mesquite,									1817	2.766	0.0003
sideoats grama) with basal									1821	2.124	0.0004
cover of about 2.5% inter-									1825	1.393	0.0005
sprersed with desert shrubs									1829	1.187	0.0005
averaging less than 5%									1832	1.187	0.0005
crown cover.											
							1836	0.779	0.0006		
							1838	0.600	0.0006		
							1841	0.520	0.0006		
							1844	0.198	0.0006		
							1850	0.068	0.0006		
							1854	0.013	0.0006		
							1857	0.003	0.0006		
							1901	0.0	0.0006		

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



2
EVENT OF SEPTEMBER 2, 1974
TOMBSTONE, ARIZONA W-11

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														
1974	P	1.23	0.0	0.14	0.0	0.05	0.22	4.40	3.24	1.86	2.29	0.01	0.24	13.68														
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.099	0.170	0.066	0.012	0.0	0.0	0.348														
STA AV	P	0.45	0.50	0.64	0.14	0.15	0.40	3.40	3.35	1.24	0.69	0.30	0.96	12.21														
	Q	0.0	0.0	0.002	0.0	0.0	0.003	0.039	0.120	0.018	0.001	0.0	0.0	0.182														

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												
		Rate	Vol.	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date								
1974		8-5	0.103	8-5	0.081	8-5	0.096	8-5	0.100	8-5	0.100	8-4	0.100	8-3	0.100	7-28	0.205
MAXIMUMS FOR PERIOD OF RECORD																	
		8-10	0.211	8-10	0.144	8-10	0.180	8-19	0.200	8-19	0.200	8-19	0.230	8-19	0.250	8-19	0.250
		1971		1971		1971		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a crown spread of approximately 30% and an understory of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sideoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. Runoff Data: Records began January 1965. Station averages for precipitation and runoff based on 1965-1974 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.

1974 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	0.23E	0.0 T	0.0	0.0	0.0	0.0														
2	0.09S	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.48	0.70E	0.0	0.0 T	0.0														
3	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.23E	0.0 T	0.03E	0.0	0.0	0.0														
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.10	0.0	0.0	0.02														
5	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.0 T	0.0	0.0	0.16E														
6	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.08	0.06E	0.0	0.0														
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.01	0.0	0.0														
8	0.39E	0.0	0.0 T	0.0	0.05E	0.0	0.08E	0.0	0.0	0.0 T	0.0	0.0	0.0														
9	0.56	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	0.0	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	0.02	0.0	0.0														
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.46	0.0	0.0														
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42E	0.44	0.0 T	0.01	0.0	0.0														
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.08	0.06E	0.0	0.0	0.0														
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.17	0.0	0.0	0.0	0.0														
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29E	0.0	0.0 T	0.0	0.0	0.0														
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0														
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44E	0.18E	0.0	0.0	0.0	0.0														
19	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.39E	0.59	0.07E	0.0	0.0	0.0														
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.01	0.0	0.0	0.0														
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0 T	0.14	0.0	0.0														
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02E	0.49	0.01E	0.0														
23	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.05	0.0	0.01E														
24	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.04	0.55	0.0	0.0	0.0														
25	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0 T	0.0 T	0.0	0.0	0.02S														
26	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.06E	0.0	0.0	0.0	0.0	0.03S														
27	0.08S	0.0	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0 T	0.0	0.0	0.0														
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24E	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	0.14E	0.0	0.0	0.81E	0.0	0.0														
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.23E	0.0	0.0														
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0														
TOTAL	1.23	0.0	0.14	0.0	0.05	0.22	4.40	3.24	1.86	2.29	0.01	0.24															
STA AV	0.45	0.50	0.64	0.14	0.15	0.40	3.40	3.35	1.24	0.69	0.30	0.96															

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV are based on 10 yr record period (1965-74).

1974 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	1.490	12.767	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	24.963E	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.897	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	3.080	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	3.676	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	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	22.628	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	1.913E	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	0.7916	1.3661	0.5481	0.0994	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.099	0.170	0.066	0.012	0.0	0.0	
STA AV	0.0	0.0	0.002	0.0	0.0	0.003	0.039	0.120	0.018	0.001	0.0	0.0	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.004026. STA AV are based on 10 yr record period (1965-1974).

1974 SELECTED RUHOFF RVRRT						TOMBSTONE, ARIZONA W-15					
ANTECEDENT CONDITIONS			RAINFALL			RUHOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 28 - 29, 1974											
7-28	RG 000035	0.0	7-28	RG 000035	0.0	0.0	7-28	2026	0.0	0.0	
				2015	0.0	0.0		2029	0.188	0.0	
				2018	2.4000	0.12		2030	0.526	0.0	
				2020	4.5000	0.27		2032	0.937	0.0	
				2022	3.3000	0.38		2034	1.205	0.0	
				2025	1.0000	0.43					
				2028	0.6000	0.46		2039	1.242	0.0	
				2031	0.4000	0.48		2042	0.922	0.0	
				2037	0.2000	0.50		2047	0.584	0.0	
				2041	1.0500	0.57		2049	0.364	0.0001	
				2043	1.8000	0.63		2056	0.207	0.0001	
				2047	2.1000	0.77		2059	0.188	0.0001	
				2050	2.6000	0.90		2101	0.130	0.0001	
				2054	1.5000	1.00		2106	0.146	0.0001	
				2057	0.4000	1.02		2109	0.207	0.0001	
				2103	1.2000	1.14		2110	0.279	0.0001	
				2105	2.1000	1.21		2114	0.364	0.0001	
				2108	0.8000	1.25		2122	0.364	0.0001	
				2111	1.2000	1.31		2124	84.173	0.0003	
				2114	0.2000	1.32		2126	288.107	0.0014	
				2119	0.1200	1.33		2128	305.038	0.0030	
				2134	0.0800	1.35		2129	314.874	0.0039	
								2135	322.503	0.0092	
								2139	338.002	0.0129	
								2142	362.445	0.0159	
								2143	401.193	0.0169	
								2145	428.375	0.0192	
								2148	453.472	0.0229	
								2152	472.311	0.0281	
								2153	468.436	0.0294	
								2156	478.867	0.0334	

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

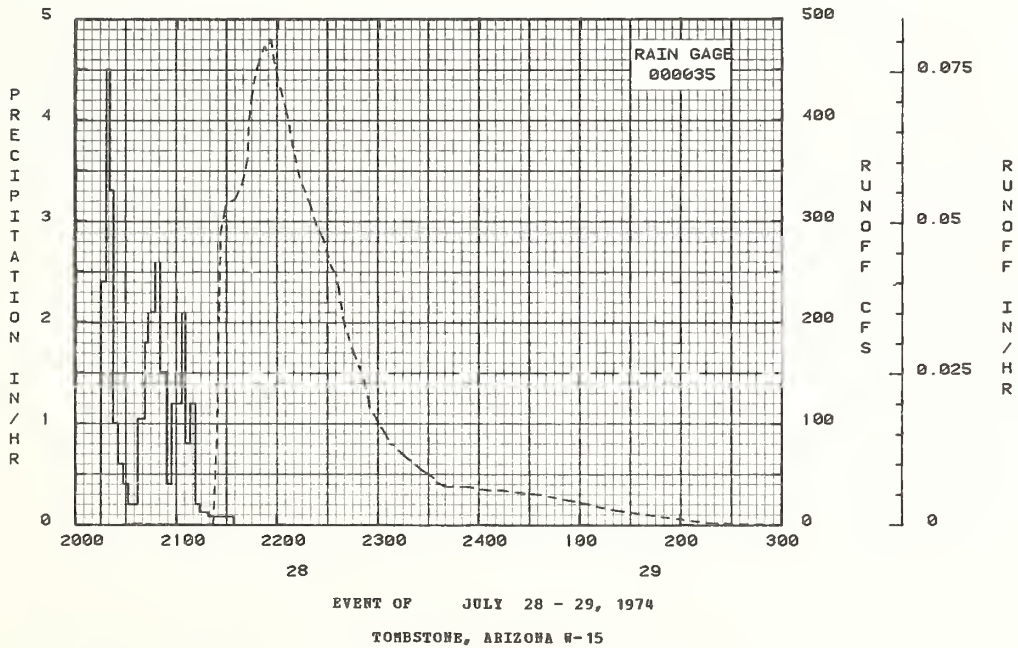
1974

SELECTED RUNOFF EVENT

TOBSTONE, 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 JULY 28 - 29, 1974 (CONTINUED)										
							7-28	2158	455.201	0.0360
								2159	450.909	0.0373
								2200	438.332	0.0385
								2203	422.653	0.0421
								2206	401.610	0.0456
								2209	371.982	0.0488
								2213	342.533	0.0528
								2219	317.258	0.0584
								2223	295.738	0.0618
								2228	278.391	0.0658
								2232	254.188	0.0688
								2235	245.783	0.0709
								2237	227.184	0.0722
								2239	203.100	0.0734
								2245	170.790	0.0765
								2252	141.580	0.0796
								2255	115.350	0.0807
								2302	95.499	0.0827
								2306	84.352	0.0837
								2308	79.166	0.0842
								2309	78.808	0.0844
								2314	70.283	0.0855
								2319	63.309	0.0864
								2326	54.069	0.0875
								2333	45.878	0.0885
								2335	41.932	0.0888
								2339	38.301	0.0892
								2340	37.574	0.0893
								2353	37.574	0.0907
								2357	36.137	0.0911
							7-29	7	33.818	0.0921
								13	33.818	0.0926
								27	31.034	0.0939
								37	29.431	0.0948
								57	22.832	0.0962
								122	13.753	0.0975
								217	1.373	0.0987
								222	1.335	0.0987

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

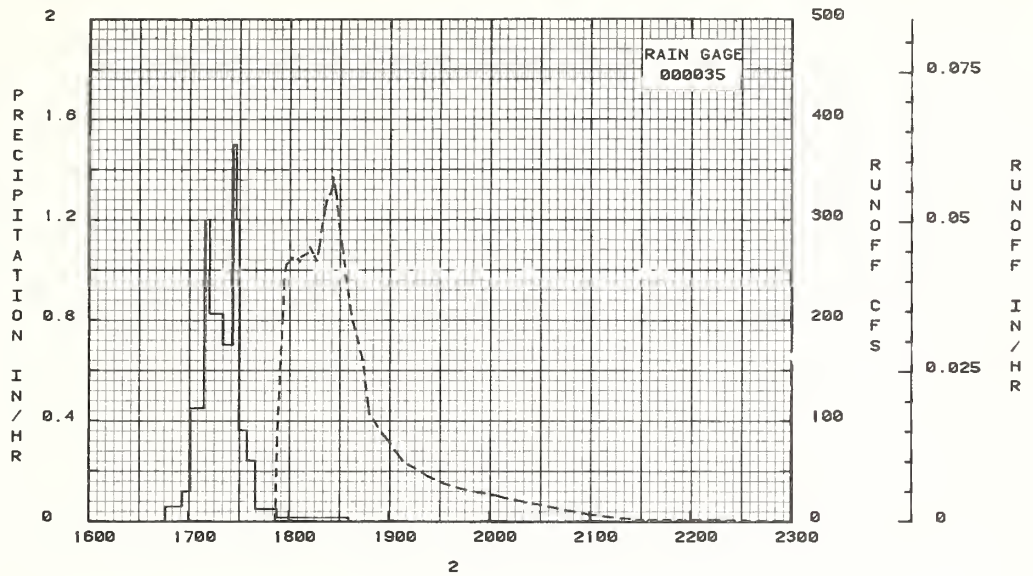


1974 SELECTED RUNOFF EVENT

TOMBSTONE, ARIZONA W-15

ANTECEDENT CONDITIONS			RAINFALL			RUBOFF				
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 2, 1974										
9- 2	RG 000035 0.03	0.0	9- 2	RG 000035 1646	0.0	0.0	9- 2	1752	0.0	0.0
				1656	0.0600	0.01		1753	84.173	0.0001
				1701	0.1200	0.02		1756	201.252	0.0013
				1705	0.4500	0.05		1757	241.312	0.0019
				1709	0.4500	0.08		1758	255.202	0.0026
WATERSHED CONDITIONS:										
Vegetative cover: Desert				1712	1.2000	0.14		1802	262.354	0.0055
shrubs (whitethorn, creosote				1720	0.8250	0.25		1805	260.924	0.0077
bush, tarbush) occupy 78% of				1726	0.7000	0.32		1806	258.063	0.0085
area with a crown spread of				1728	1.5000	0.37		1807	263.427	0.0092
approximately 30% and an				1730	1.2000	0.41		1811	257.004	0.0122
understory of grasses with										
less than 1% basal area. 22%				1735	0.3600	0.44		1812	272.886	0.0129
of the area supports a grass				1740	0.2400	0.46		1814	266.290	0.0184
cover (black grama, tobosa,				1753	0.0462	0.47		1815	263.427	0.0152
blue grama, sideoats grama,				1836	0.0140	0.48		1816	258.778	0.0159
and curly mesquite) of								1818	273.205	0.0174
approximately 2% basal area.								1819	289.657	0.0182
								1822	318.867	0.0207
								1825	329.360	0.0234
								1826	342.533	0.0284
								1828	321.251	0.0262
								1829	303.488	0.0271
								1832	267.004	0.0295
								1837	205.306	0.0328
								1844	160.358	0.0364
								1847	119.225	0.0375
								1848	105.932	0.0379
								1857	84.352	0.0402
								1901	76.423	0.0411
								1904	68.972	0.0418
								1908	59.672	0.0425
								1912	55.559	0.0431
								1923	44.405	0.0447
								1932	37.574	0.0457
								1942	32.465	0.0467
								1953	28.489	0.0476
								2004	25.186	0.0484
								2011	22.194	0.0489
								2022	18.420	0.0495
								2031	15.619	0.0499
								2041	12.471	0.0503
								2051	9.192	0.0506
								2059	6.653	0.0508
								2110	4.305	0.0510
								2114	3.636	0.0510
								2124	2.026	0.0511
								2128	1.472	0.0511
								2132	1.354	0.0511
								2135	1.242	0.0512
								2213	1.242	0.0513
								2241	0.279	0.0514
								2251	0.279	0.0514
								2336	0.012	0.0514

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



2
EVENT OF SEPTEMBER 2, 1974
TOMBSTONE, ARIZONA W-15

TOBSTONE, ARIZONA WATERSHED 63.103

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 63.103
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	1.36	0.0	0.42	0.0	0.07	0.18	4.68	2.88	1.91	2.43	0.0	0.25	14.18
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.385	0.170	0.194	0.123	0.0	0.0	0.872
STA AV	P	0.38	0.44	0.57	0.15	0.12	0.34	3.18	2.79	1.69	0.71	0.27	1.00	11.65
	Q	0.0	0.0	0.0	0.0	0.0	0.012	0.191	0.303	0.153	0.034	0.0	0.005	0.698

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1974	7-19	0.905	7-19	0.199	7-19	0.199	7-19	0.199	7-19	0.199	7-19	0.199	7-18	0.199	7-27	0.350

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
8-13 1965	2.070	9-8 1970	0.603	9-8 1970	0.604	9-8 1970	0.604	9-8 1970	0.604	9-7 1970	0.604	9-6 1970	0.604	8-4 1971	0.814

NOTES: Watershed Conditions: 1974: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosotebush, 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 map (p. 63.1-4) and vegetative map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began January 1965. Monthly totals are values from rain gage No. 83. STA AV based on 1965-74 data. Runoff Data: Records began January 1965. STA AV based on data for the record 1965-74. 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.

1974 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA WATERSHED 63.103
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.0	
2	0.095	0.0	0.0	0.0	0.0	0.0	0.13	0.30	0.73	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.07	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	
5	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	
6	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.39	0.0	0.0	0.0	0.07	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.73	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.56	0.0	0.03E	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.08	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.10	0.0	0.0	0.0	0.0	0.0	
16	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	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.16	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.16E	0.0	0.0	0.0	1.09	0.02	0.06	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.07	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	0.31	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.02	0.40	0.0	0.0	0.0	
23	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.02	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.80	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	
26	0.0	0.0	0.0	0.0	0.0	0.18	0.10	0.0	0.0	0.0	0.0	0.0	0.035	
27	0.09E	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.06	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.77	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	0.27	0.0	0.0	0.79	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.14	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	0.01	0.0	0.0	0.0	
TOTAL	1.36	0.0	0.42	0.0	0.07	0.18	4.68	2.88	1.91	2.43	0.0	0.25		
STA AV	0.38	0.44	0.57	0.15	0.12	0.34	3.18	2.79	1.69	0.71	0.27	1.00		

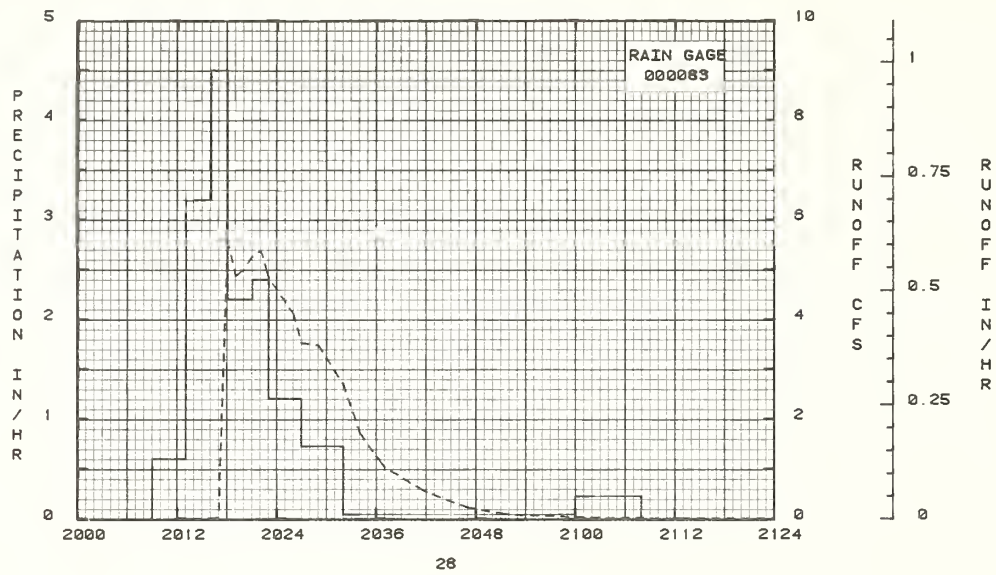
NOTES: Data are values from rain gage No. 83. STA AV values are based on record period 1965-74.

1974 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED 63.103												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.057	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	0.010	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	0.001	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.013	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.068	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.027	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	0.058	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	0.046	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.003	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.015	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	0.0043	0.0019	0.0023	0.0014	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.385	0.170	0.194	0.123	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.012	0.191	0.303	0.153	0.034	0.0	0.005

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV based on record period 1965-74.

1974 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED 63.103												
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 JULY 28, 1974												
7-28	RG 000083	0.0	7-28	2009	0.0	0.0	7-28	2014	0.0	0.0		
				2013	0.6000	0.04		2017	0.016	0.0001		
				2016	3.2000	0.20		2018	5.566	0.0102		
				2018	4.5011	0.35		2019	4.868	0.0191		
				2021	2.2000	0.46		2020	5.004	0.0282		
				2023	2.4000	0.54		2021	5.261	0.0377		
				2027	1.2000	0.62		2022	5.391	0.0475		
				2032	0.7200	0.68		2023	4.827	0.0563		
				2100	0.0429	0.70		2026	4.100	0.0786		
				2108	0.2250	0.73		2027	3.525	0.0850		
								2029	3.465	0.0976		
								2032	2.687	0.1123		
								2034	1.714	0.1185		
								2037	1.022	0.1240		
								2042	0.527	0.1288		
								2047	0.222	0.1309		
								2052	0.077	0.1315		
								2102	0.016	0.1318		
								2112	0.0	0.1318		

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



EVENT OF JULY 28, 1974
TOHOBSTONE, ARIZONA WATERSHED 63.103

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. 30 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														
1974	P	0.74	0.47	0.19	0.45	0.05	0.47	1.10	2.87	2.83	3.40	0.34	0.27	13.18														
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.004	0.0	0.0	0.004														
STA AV	P	0.29	0.24	0.48	0.55	0.93	1.46	3.37	2.90	1.53	1.70	0.48	0.31	14.25														
	Q	0.0	0.0	0.0	0.0	0.015	0.010	0.113	0.062	0.022	0.003	0.0	0.0	0.226														

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.
1974		10-12	0.001	10-12	0.001	10-12	0.001	10-12	0.002	10-12	0.003	10-11	0.003	10-11	0.004	10-6	0.004		

MAXIMUMS FOR PERIOD OF RECORD																			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
		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 shrub. Remaining 25% of area is piñon, 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 Hisc. Pub. 1370, p. 64.001-3. Precipitation and runoff records began in 1955. STA AV based on 7 yr (1968-74), previously published data are being reevaluated. For long-time precipitation records, see National Weather Service records at Santa Rosa, New Mexico.

1974 DAILY PRECIPITATION (inches)														SANTA ROSA, NEW MEXICO WATERSHED W-1														
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																
1	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.02E	0.0	0.0	0.0	0.0															
2	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.01E	0.0	0.0	0.0	0.01E	0.0														
3	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0	0.0	0.24E	0.0														
4	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0 T	0.21E	0.02E	0.0	0.0	0.01	0.0														
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.03E	0.0	0.0	0.0														
6	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.22E	0.0	0.0	0.0														
7	0.0	0.18E	0.0	0.0	0.0	0.0	0.0	0.22E	0.0	0.0	0.06E	0.0	0.0	0.0														
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.05E	0.0	0.0	0.0	0.0	0.0														
9	0.20E	0.0	0.05E	0.0	0.0	0.0	0.0	0.23E	0.01E	0.0	0.0	0.0	0.0	0.0														
10	0.07E	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.85E	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	0.27E	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	0.69E	0.0	0.0	0.0														
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.09E	0.0	0.0	0.0	0.0														
14	0.0	0.13E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66E	0.0	0.0	0.0	0.0														
15	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.01	0.12E	0.0	0.0	0.0	0.0														
16	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0 T	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	1.32E	0.0	0.0	0.0	0.0														
18	0.38E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	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 E	0.14E	0.0	0.0	0.0	0.0														
20	0.0	0.16S	0.0	0.0	0.0	0.0	0.0	0.0 T	0.09E	0.01E	0.0	0.0	0.0	0.0														
21	0.01E	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.69E	0.0 T	0.0	0.0	0.0	0.0														
22	0.0	0.0	0.0	0.0	0.0	0.05E	0.0 T	0.0 T	0.39E	0.26E	0.0	0.0	0.0	0.0														
23	0.0	0.0	0.0	0.0	0.0	0.30E	0.0	0.0	0.01E	0.0	0.36E	0.08E	0.0	0.0														
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44E	0.0	0.0	0.0	0.0	0.0														
25	0.0	0.0	0.0	0.45E	0.0	0.02E	0.07	0.02E	0.0	0.0	0.0	0.0	0.0	0.07S														
26	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06S														
27	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.71E	0.0	0.05E	0.0	0.0	0.0														
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0														
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.05	0.0	0.15E	0.0	0.0	0.0 S														
30	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.46E	0.0	0.0	0.14S														
31	0.0	0.0	0.0	0.0	0.0	0.0	0.24E	0.20E	0.0	0.0	0.0	0.0	0.0	0.0 S														
TOTAL	0.74	0.47	0.19	0.45	0.05	0.47	1.10	2.87	2.83	3.40	0.34	0.27																
STA AV	0.29	0.24	0.48	0.55	0.93	1.46	3.37	2.90	1.53	1.70	0.48	0.31																

NOTES: Daily values are Thiessen weighted average amounts from 64 rain gages. Precipitation records began in 1955. STA AV are based on 7 yr (1968-74).

1974 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	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	6.125	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.180	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	0.360	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.180	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	0.180	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0058	0.0180	0.2034	0.0	0.0
INCRS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.004	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.015	0.010	0.113	0.062	0.022	0.003	0.0	0.0

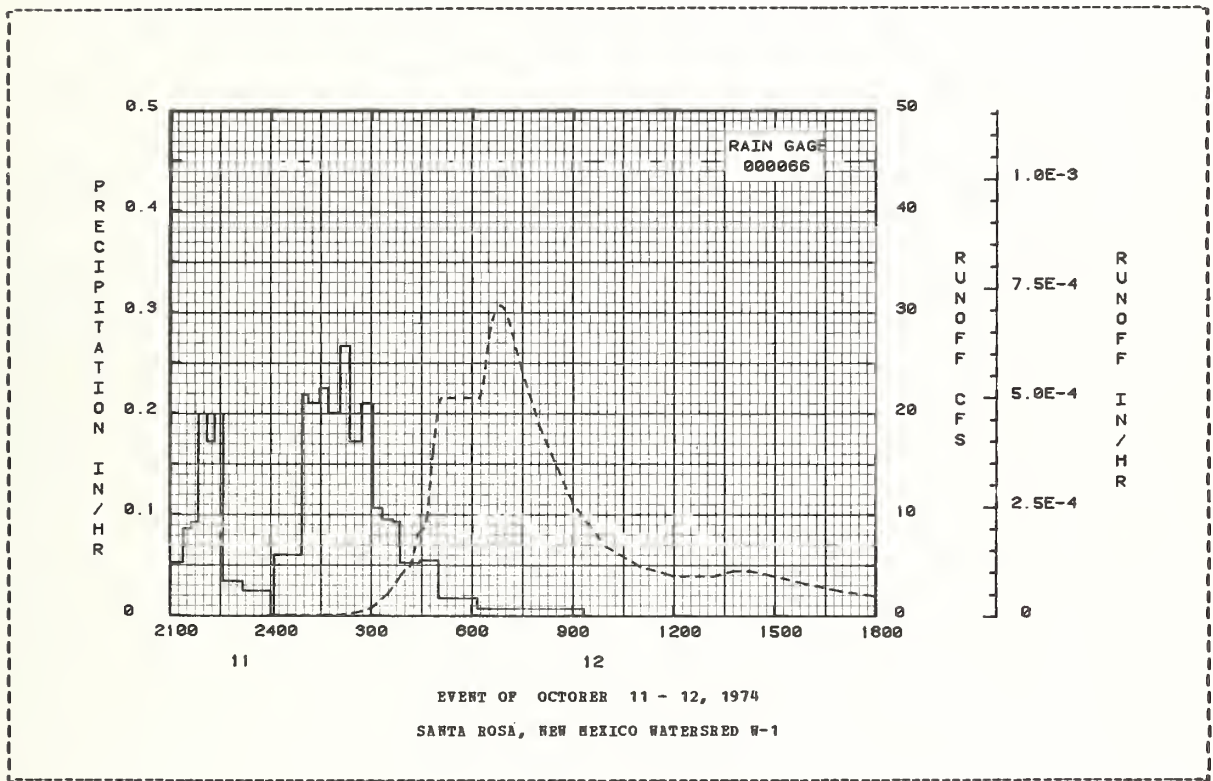
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000555. Runoff records began in 1955. STA AV based on 7 yr (1968-74).

1974 SELECTED RUNOFF EVENT SANTA ROSA, NEW MEXICO WATERSHED W-1												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 11 - 12, 1974												
10-11	RG 000066 0.0	0.0	10-11	RG 000066 2190	0.0	0.0	10-11	2400	0.050	0.0		
				2123	0.0522	0.02	10-12	30	0.044	0.0		
				2137	0.0857	0.04		150	0.044	0.0		
				2150	0.0923	0.06		200	0.063	0.0		
				2205	0.2000	0.11		230	0.249	0.0		
				2219	0.1714	0.15		300	0.717	0.0		
				2234	0.2000	0.20		330	2.151	0.0		
				2310	0.0333	0.22		400	4.443	0.0001		
				2400	0.0240	0.24		410	4.828	0.0001		
			10-12	6	0.0	0.24		425	8.085	0.0001		
				56	0.0600	0.29		435	8.635	0.0002		
				107	0.2182	0.33		440	9.501	0.0002		
				127	0.2100	0.40		450	16.200	0.0002		
				143	0.2250	0.46		500	21.042	0.0003		
				204	0.2000	0.53		505	21.520	0.0003		
				222	0.2667	0.61		613	21.520	0.0009		
				243	0.1714	0.67		620	22.993	0.0010		
				303	0.2100	0.74		630	27.771	0.0011		
				320	0.1059	0.77		640	30.071	0.0012		
				339	0.0947	0.80		650	30.663	0.0013		
				352	0.0923	0.82		700	30.071	0.0014		
				427	0.0514	0.85		730	24.008	0.0017		
				500	0.0545	0.88		800	18.747	0.0020		
				610	0.0171	0.90		900	11.057	0.0023		
				920	0.0063	0.92		1000	6.805	0.0025		
								1100	4.828	0.0027		
								1200	3.902	0.0028		
								1310	3.902	0.0029		
								1345	4.443	0.0029		
								1415	4.443	0.0030		

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

1974 SELECTED RUNOFF EVENT			SANTA ROSA, NEW MEXICO WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF OCTOBER 11 - 12, 1974 (CONTINUED)										
							10-12	1500	3.902	0.0030
								1600	3.092	0.0031
								1700	2.399	0.0032
								1800	1.920	0.0032

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



REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee Connty, 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
1974	P	1.88	0.84	3.83	0.68	0.35	0.59	0.53	0.19	0.0	2.12	1.07	2.39	14.47	P	1.88	0.84	3.83	0.68	0.35	0.59	0.53	0.19	0.0	2.12	1.07	2.39	14.47	
	Q	0.490	0.209	1.198	1.037	0.712	0.401	0.061	0.016	0.012	0.020	0.045	0.048	4.249	Q	0.490	0.209	1.198	1.037	0.712	0.401	0.061	0.016	0.012	0.020	0.045	0.048	4.249	
STA AV	P	3.17	1.24	2.00	1.52	0.80	1.61	0.34	0.78	0.93	1.45	2.26	2.51	18.62	P	3.17	1.24	2.00	1.52	0.80	1.61	0.34	0.78	0.93	1.45	2.26	2.51	18.62	
	Q	0.506	0.292	0.517	0.605	0.602	0.307	0.043	0.022	0.014	0.025	0.051	0.206	3.190	Q	0.506	0.292	0.517	0.605	0.602	0.307	0.043	0.022	0.014	0.025	0.051	0.206	3.190	

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.	
1974	3-29	0.005	3-15	0.005	3-15	0.010	3-15	0.027	3-17	0.050	3-17	0.092	3-16	0.173	3-14	0.516

MAXIMUMS FOR PERIOD OF RECORD

12-23	0.065	12-23	0.064	12-23	0.125	12-23	0.270	12-23	0.327	12-23	0.453	12-23	0.721	12-28	1.313
1964		1964		1964		1964		1964		1964		1964		1965	

NOTES: Watershed conditions: 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. Pnb. 1330, p. 68.1-6. Records began 1963. Precipitation data are Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. Station average precipitation amounts are based on 1968-74 data. Station average runoff amounts are based on the 1963-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1974 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	21	12	40	31	53	31	46	33	63	42	75	37	79	56	94	62	81	52	75	37	40	36	43	16			
2	18	4	40	30	36	29	44	30	58	32	81	41	77	48	85	60	76	48	73	41	45	35	44	26			
3	20	3	52	34	31	24	45	26	63	30	79	48	85	44	87	55	86	42	64	36	45	26	45	33			
4	18	3	45	29	40	25	51	23	68	37	62	55	88	51	90	55	85	48	57	30	45	22	49	38			
5	16	2	30	23	49	38	55	29	75	37	65	49	81	53	94	61	78	48	50	26	48	36	33	29			
6	22	-1	34	19	37	25	47	31	72	42	69	45	76	52	73	57	84	44	55	22	51	24	40	31			
7	24	-3	38	24	33	23	53	25	79	42	56	42	80	47	82	50	85	50	63	22	51	38	52	36			
8	18	-2	46	26	38	11	59	35	78	50	71	35	69	55	73	45	83	53	67	26	44	31	55	35			
9	15	-6	46	22	42	4	51	35	67	46	78	40	67	49	75	46	84	47	56	38	44	26	51	28			
10	23	-4	42	19	56	14	51	34	58	33	81	43	64	49	83	47	69	46	58	32	47	29	49	26			
11	23	-2	49	20	49	37	56	34	70	29	90	46	73	44	87	50	62	41	58	36	38	28	46	26			
12	44	16	47	26	53	36	40	28	54	32	95	51	79	42	84	50	60	39	61	31	54	29	38	22			
13	46	40	42	25	39	28	50	24	51	25	90	55	86	47	80	48	65	31	66	34	60	32	36	26			
14	53	42	41	23	38	30	59	23	61	39	97	53	92	52	70	42	71	34	63	34	53	31	40	28			
15	58	52	48	29	51	36	61	36	50	30	93	64	91	61	80	38	76	36	60	26	52	27	43	30			
16	57	42	42	32	56	39	60	33	47	23	99	60	87	50	86	43	79	40	65	42	50	22	50	29			
17	46	28	39	28	53	36	66	28	52	25	98	59	89	57	87	49	80	47	71	31	54	23	44	30			
18	50	29	44	26	49	27	66	47	54	31	99	58	95	54	88	50	78	43	69	29	49	36	40	24			
19	47	33	44	28	47	27	56	39	56	28	94	64	90	55	66	50	78	44	71	30	48	32	41	28			
20	33	26	38	24	38	20	56	33	60	36	79	57	90	59	68	45	79	49	67	36	54	29	48	36			
21	33	23	39	24	52	17	63	31	63	31	82	49	92	58	79	39	77	40	39	29	61	43	50	27			
22	40	29	34	23	50	33	70	34	73	39	93	53	89	57	81	48	76	39	44	22	48	29	30	21			
23	43	36	36	17	46	22	67	40	73	41	90	57	86	56	83	49	77	41	46	22	51	32	30	19			
24	47	30	42	16	60	28	58	39	71	42	92	57	89	56	82	52	78	42	48	31	52	29	34	20			
25	44	32	52	23	54	30	50	34	79	46	90	55	88	56	87	49	81	39	62	42	40	22	30	17			
26	36	28	49	32	53	35	53	29	83	48	76	41	92	53	89	53	75	50	62	35	45	32	32	20			
27	37	30	44	27	55	36	49	31	72	47	82	46	93	60	90	55	64	35	58	39	42	28	47	26			
28	40	33	56	37	50	37	58	36	68	38	82	49	95	59	89	55	73	36	56	37	37	20	30	16			
29	47	36	53	37	63	36	66	42	87	53	91	58	87	54	72	34	54	40	54	40	40	16	30	8			
30	49	35	51	36	76	35	62	33	62	33	93	53	92	58	86	51	74	36	49	39	39	19	28	15			
31	44	37	49	31	69	33	69	33	69	33	92	59	92	59	85	53	47	38	47	38	48	27	38	22			
AV.	36	21	43	26	47	28	56	32	65	36	84	51	85	53	83	50	76	42	59	33	48	29	41	25			
MEAN	28.7		34.3		37.8		44.2		50.8		67.3		69.3		66.7		59.4		46.0		38.2		32.8				
STA AV	37	21	45	26	48	26	55	29	67	39	75	47	86	52	85	51	73	43	61	33	48	27	38	22			

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 12 yr (1963-74) record period.

1974		DAILY PRECIPITATION (inches)										REYNOLDS, IDARO WATERSHED W-1 (036068)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.04	0.73	0.33	0.0 T	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
2	0.0 T	0.0 T	0.25	0.04	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.05	0.0	
3	0.0 T	0.0	0.0 T	0.02	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	
4	0.0 T	0.11	0.09	0.0 T	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0 T	
5	0.05	0.0 T	0.06	0.13	0.0	0.43	0.0	0.0 T	0.0	0.0	0.0	0.0 T	
6	0.02	0.0	0.69	0.0 T	0.0	0.0 T	0.05	0.18	0.0	0.0	0.0 T	0.05	
7	0.0 T	0.0	0.40	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.35	0.0 T	
8	0.0	0.0	0.05	0.0	0.0	0.0	0.12	0.0	0.0	0.02	0.01	0.0 T	
9	0.0	0.0	0.0	0.04	0.0 T	0.0	0.28	0.0	0.0	0.49	0.0 T	0.0	
10	0.0	0.0	0.0 T	0.01	0.0	0.0	0.07	0.0	0.0	0.0 T	0.0 T	0.0 T	
11	0.0 T	0.0	0.03	0.05	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.27	
12	0.17	0.0	0.08	0.0 T	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.26	
13	0.13	0.0	0.07	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.01	
14	0.0 T	0.01	0.38	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.22	
15	0.0 T	0.0 T	0.03	0.0 T	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.16	
16	0.19	0.12	0.01	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
17	0.01	0.0 T	0.07	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.06	0.11	
18	0.35	0.15	0.0 T	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.38	0.0 T	
19	0.04	0.26	0.0 T	0.0	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.01	0.11	
20	0.05	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.03	0.0 T	0.46	
21	0.01	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0 T	0.08	
22	0.01	0.02	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0 T	0.01	
23	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.38	0.0 T	0.0 T	
24	0.0 T	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.12	0.0 T	0.0 T	
25	0.07	0.0 T	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.01	
26	0.12	0.06	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
27	0.32	0.0 T	0.10	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.39	
28	0.0 T	0.0 T	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.57	0.0 T	0.01	
29	0.0	0.0	0.45	0.0	0.01	0.0	0.0 T	0.0	0.0	0.41	0.0	0.01	
30	0.0 T	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.14	
31	0.33	0.0 T	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	
TOTAL	1.88	0.84	3.83	0.68	0.35	0.59	0.53	0.19	0.0	2.12	1.07	2.39	
STA AV	3.17	1.24	2.00	1.52	0.80	1.61	0.34	0.78	0.93	1.45	2.26	2.51	

NOTES: values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-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 7 yr (1968-74) record period.

1974		DAILY PRECIPITATION (inches)										REYNOLDS, IDAHO WATERSHED W-1 (036068)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.03	0.49	0.22	0.0 T	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
2	0.0 T	0.0 T	0.15	0.03	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.04	0.0	
3	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	
4	0.0 T	0.08	0.04	0.0 T	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.06	
5	0.05	0.0 T	0.03	0.10	0.0	0.38	0.0	0.0 T	0.0	0.0	0.0	0.0 T	
6	0.02	0.0	0.43	0.0 T	0.0	0.0 T	0.05	0.17	0.0	0.0	0.0 T	0.04	
7	0.0 T	0.0	0.24	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.32	0.0	
8	0.0	0.0	0.02	0.0	0.0	0.0	0.11	0.0	0.0	0.02	0.01	0.0 T	
9	0.0	0.0	0.0	0.03	0.0 T	0.0	0.27	0.0	0.0	0.46	0.0 T	0.0	
10	0.0	0.0	0.0 T	0.01	0.0	0.0	0.07	0.0	0.0	0.0 T	0.0 T	0.0 T	
11	0.0 T	0.0	0.01	0.04	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.17	
12	0.11	0.0	0.05	0.0 T	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.17	
13	0.09	0.0	0.05	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	
14	0.0 T	0.01	0.29	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.10	
15	0.0 T	0.0 T	0.02	0.0 T	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
16	0.17	0.06	0.01	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
17	0.01	0.0 T	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.05	0.07	
18	0.31	0.09	0.0 T	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.33	0.0 T	
19	0.03	0.16	0.0 T	0.0	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.01	0.08	
20	0.04	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.02	0.0 T	0.35	
21	0.0 T	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0 T	0.05	
22	0.01	0.02	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0 T	0.01	
23	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.31	0.0 T	0.0 T	
24	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.10	0.0 T	0.0	
25	0.03	0.0 T	0.08	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0 T	
26	0.06	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
27	0.18	0.0 T	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.21	
28	0.0 T	0.0 T	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.51	0.0 T	0.0 T	
29	0.0	0.0	0.37	0.0	0.01	0.0	0.0 T	0.0	0.0	0.37	0.0	0.0 T	
30	0.0 T	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.08	
31	0.21	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	
TOTAL	1.33	0.54	2.63	0.48	0.29	0.52	0.51	0.18	0.0	1.86	0.92	1.47	
STA AV													

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.04	0.61	0.27	0.0 T	0.0	0.0	0.0	0.0	0.0	0.03	0.0
2	0.0 T	0.0 T	0.21	0.03	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.04	0.0
3	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T
4	0.0 T	0.10	0.06	0.0 T	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.07
5	0.05	0.0 T	0.04	0.11	0.0	0.41	0.0	0.0 T	0.0	0.0	0.0	0.0 T
6	0.02	0.0	0.56	0.0 T	0.0	0.0 T	0.05	0.17	0.0	0.0	0.0 T	0.04
7	0.0 T	0.0	0.32	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.34	0.0 T
8	0.0	0.0	0.04	0.0	0.0	0.0	0.11	0.0	0.0	0.02	0.01	0.0 T
9	0.0	0.0	0.0	0.03	0.0 T	0.0	0.27	0.0	0.0	0.48	0.0 T	0.0
10	0.0	0.0	0.0 T	0.01	0.0	0.0	0.07	0.0	0.0	0.0 T	0.0 T	0.0 T
11	0.0 T	0.0	0.02	0.05	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.22
12	0.14	0.0	0.07	0.0 T	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.21
13	0.11	0.0	0.06	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.01
14	0.0 T	0.01	0.34	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.15
15	0.0 T	0.0 T	0.03	0.0 T	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.12
16	0.18	0.09	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
17	0.01	0.0 T	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.05	0.09
18	0.33	0.12	0.0 T	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.36	0.0 T
19	0.04	0.21	0.0 T	0.0	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.01	0.10
20	0.04	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.02	0.0 T	0.41
21	0.0 T	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0 T	0.06
22	0.01	0.02	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0 T	0.01
23	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.35	0.0 T	0.0 T
24	0.0 T	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.11	0.0 T	0.0 T
25	0.05	0.0 T	0.08	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.01
26	0.09	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
27	0.24	0.0 T	0.10	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.29
28	0.0 T	0.0 T	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.55	0.0 T	0.01
29	0.0	0.0	0.41	0.0	0.01	0.0	0.0 T	0.0	0.0	0.39	0.0	0.0 T
30	0.0 T	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.11
31	0.27	0.0 T	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0
TOTAL	1.59	0.69	3.25	0.56	0.31	0.56	0.51	0.18	0.0	2.00	1.01	1.91
STA AV												

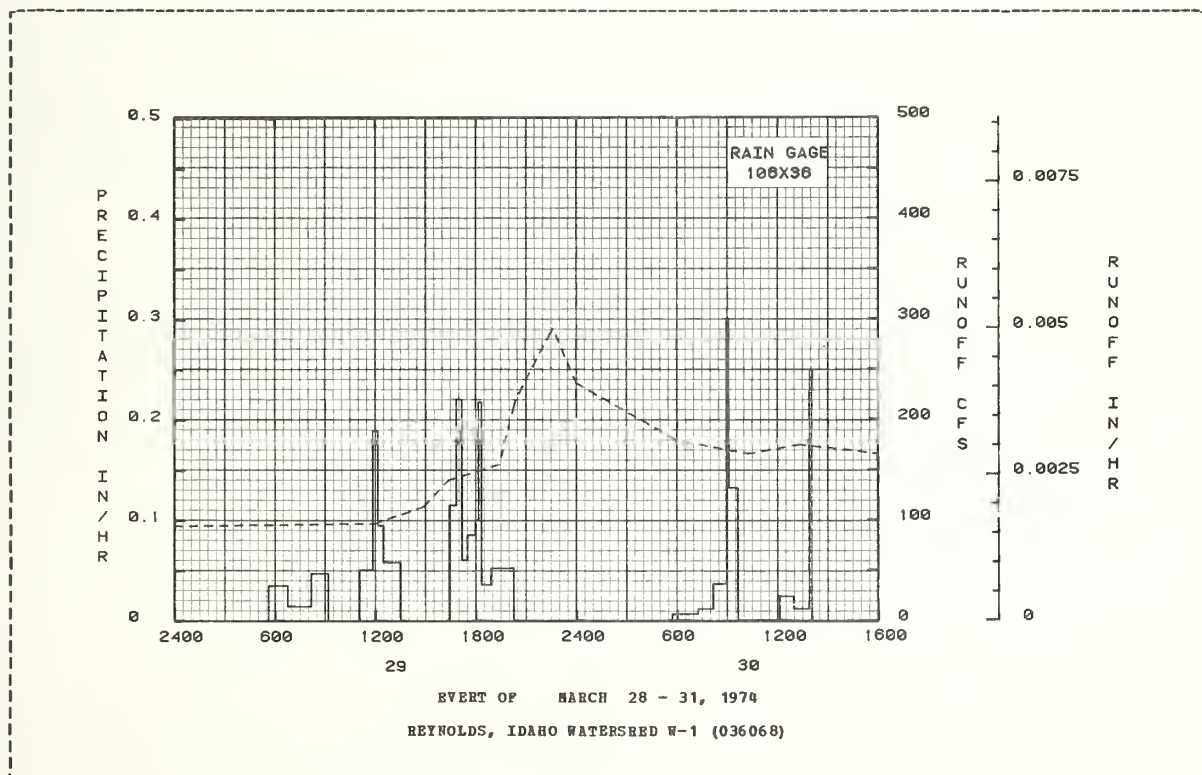
NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV do not apply to shielded rain gage records.

1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	12.85	28.12	37.82	132.36	68.61	52.12	10.66	1.70	0.97	0.49	3.39	2.91
2	6.06	23.03	41.21	117.09	61.82	50.18	10.67	1.70	1.45	0.73	3.39	2.67
3	8.48	22.06	27.64	99.39	60.36	49.45	10.91	1.45	0.97	0.73	3.39	1.94
4	11.88	20.12	24.48	88.97	61.82	52.60	10.66	1.46	0.97	0.73	3.15	1.94
5	15.27	16.97	31.51	92.85	66.91	77.09	7.52	1.21	0.97	0.73	3.15	2.18
6	12.36	17.70	49.70	92.85	72.73	63.27	5.09	1.70	0.73	0.73	3.39	1.94
7	11.39	22.79	37.09	82.67	86.55	56.97	5.82	1.45	0.97	0.73	3.15	1.94
8	11.15	18.42	32.48	84.36	94.06	48.24	5.57	1.21	0.97	0.73	4.60	1.70
9	7.27	17.70	28.85	88.48	92.85	43.63	6.31	0.97	0.97	1.21	3.64	2.18
10	6.30	16.24	36.12	77.33	82.18	40.73	8.00	1.21	1.21	0.73	3.39	1.94
11	5.82	16.73	55.51	76.60	77.09	34.18	6.30	1.21	1.94	0.73	3.15	2.42
12	11.39	18.18	105.94	76.60	74.18	27.15	4.61	1.21	1.94	0.97	3.15	2.18
13	41.70	17.70	88.24	71.03	59.15	28.60	4.60	1.45	1.94	0.97	3.15	2.43
14	38.54	17.21	112.48	73.94	52.12	30.54	4.12	1.70	0.97	0.73	3.15	2.42
15	118.54	17.70	194.18	80.00	44.85	29.58	3.88	1.45	0.73	0.97	3.15	2.91
16	113.45	18.67	187.88	87.03	45.57	29.58	3.88	1.70	0.73	0.97	3.15	3.39
17	109.09	17.70	222.06	94.79	44.61	29.33	3.64	1.45	0.73	0.97	3.88	5.09
18	100.85	17.70	183.51	102.06	40.48	27.15	3.39	0.97	0.73	1.21	5.82	3.39
19	108.60	22.06	137.94	101.82	35.88	22.30	3.64	1.21	0.73	1.46	5.09	4.60
20	69.82	17.70	109.33	89.94	31.52	16.24	3.63	0.97	0.73	1.70	4.60	9.94
21	46.30	17.45	95.03	81.70	30.06	21.09	3.64	1.21	0.73	1.94	4.36	11.15
22	44.36	16.00	90.18	91.88	27.39	21.82	3.64	1.21	0.73	1.94	4.12	4.61
23	39.76	12.85	81.94	95.27	27.39	20.12	2.91	0.97	0.73	1.70	3.88	4.36
24	35.88	14.30	78.79	85.09	31.03	18.18	2.18	1.21	0.73	1.94	3.39	4.61
25	35.15	14.79	82.42	75.64	38.06	16.97	2.18	1.21	0.73	1.70	3.88	5.33
26	31.27	16.30	102.79	64.73	44.12	15.03	2.18	1.21	0.49	1.21	2.91	4.61
27	25.45	14.30	101.82	54.54	54.30	11.64	2.18	0.97	0.73	1.94	3.63	5.33
28	28.12	16.24	90.18	47.03	58.67	13.09	1.94	1.46	0.49	2.43	2.91	4.85
29	26.42		134.06	48.97	55.03	12.60	1.94	1.21	0.73	7.03	2.91	3.39
30	24.73		175.03	58.67	53.57	11.64	1.70	1.21	0.73	4.85	2.91	4.60
31	30.79		127.51		52.85		1.45	0.73		3.64		3.39
MEAN	38.357	18.086	93.668	83.788	55.671	32.371	4.801	1.290	0.937	1.564	3.596	3.754
INCHES	0.490	0.209	1.198	1.037	0.712	0.401	0.061	0.016	0.012	0.020	0.045	0.048
STA AV	0.506	0.292	0.517	0.605	0.602	0.307	0.043	0.022	0.014	0.025	0.051	0.206

NOTES: To convert CFS to IN/DAY, multiply by 0.000413. STA AV based on 12 yr (1963-74) record period.

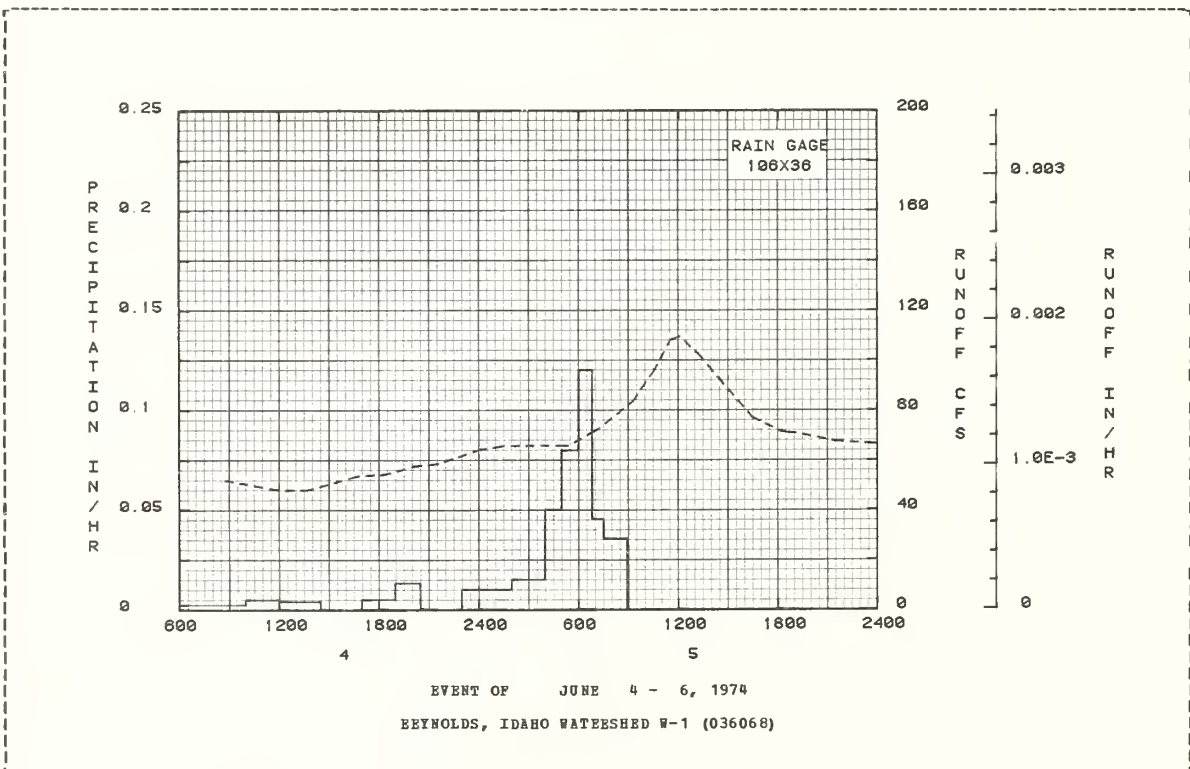
1974 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL				RUROFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 28 - 31, 1974										
3-29	0.0		3-29	537	0.0	0.0	3-28	2400	95.263	0.0
3-28		0.037		645	0.0353	0.04	3-29	1156	97.316	0.0197
				809	0.0143	0.06		1454	114.065	0.0251
				912	0.0476	0.11		1622	140.468	0.0283
				1104	0.0	0.11		1924	156.040	0.0360
WATERSHED CONDITIONS: The event is combined rain and snowmelt at the upper elevations.				1151	0.0511	0.15		2022	220.156	0.0392
				1210	0.1895	0.21		2236	291.104	0.0490
				1229	0.0947	0.24		2400	236.031	0.0553
				1331	0.0581	0.30	3-30	600	178.891	0.0767
				1625	0.0	0.30		1012	165.719	0.0891
				1651	0.1154	0.35		1312	174.767	0.0979
				1710	0.2211	0.42		1754	165.719	0.1116
				1730	0.0600	0.44		2400	136.963	0.1275
				1758	0.0857	0.48	3-31	840	121.919	0.1467
				1810	0.1000	0.50				
				1821	0.2182	0.54				
				1855	0.0353	0.56				
				2015	0.0525	0.63				
				3-30	542	0.0	0.63			
					715	0.0065	0.64			
		808	0.0113	0.65						
		857	0.0367	0.68						
		905	0.3000	0.72						
		937	0.1312	0.79						
		1206	0.0	0.79						
		1256	0.0240	0.81						
		1352	0.0107	0.82						
		1404	0.2500	0.87						

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



1974 SELECTED EUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)								
ANTECEDENT CONDITIONS			RAINFALL				EUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	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 4 - 6, 1974											
6-4	RG 106X36 0.0	0.008	6-4	EG 106X36 600	0.0	0.0	6-4	846	51.916	0.0	
				1000	0.0025	0.01		1158	47.915	0.0027	
				1200	0.0050	0.02		1336	47.915	0.0041	
				1430	0.0040	0.03		1648	53.760	0.0068	
				1700	0.0	0.03		1816	54.227	0.0082	
WATERSHED CONDITIONS: The event is combined rain and snowmelt.				1900	0.0050	0.04		2006	57.571	0.0100	
				2030	0.0133	0.06		2132	58.550	0.0114	
				2300	0.0	0.06		2400	64.128	0.0140	
				2400	0.0100	0.07	6-5	130	65.707	0.0157	
				6-5	100	0.0100	0.08	522	65.707	0.0200	
				200	0.0100	0.09	716	72.845	0.0223		
				400	0.0150	0.12	916	83.551	0.0250		
				500	0.0500	0.17	1044	98.008	0.0273		
				600	0.0800	0.25	1130	108.035	0.0286		
				650	0.1200	0.35	1204	109.522	0.0297		
			730	0.0450	0.38		1312	102.224	0.0317		
			855	0.0353	0.43		1426	92.570	0.0338		
							1628	76.893	0.0367		
							1814	71.155	0.0390		
							1904	70.597	0.0400		
							2128	67.312	0.0428		
							2400	66.239	0.0458		
							6-6	158	67.312	0.0480	
							824	66.239	0.0554		
							934	67.312	0.0567		
							1454	63.090	0.0627		
							1754	58.059	0.0658		
							2002	57.571	0.0679		
							2400	60.039	0.0719		

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
1974	P	1.82	0.99	3.73	0.63	0.55	0.88	0.51	0.20	0.0	2.17	1.09	2.61	15.18	P	1.82	0.99	3.73	0.63	0.55	0.88	0.51	0.20	0.0	2.17	1.09	2.61	15.18	
	Q	0.566	0.230	1.244	0.557	0.196	0.061	0.022	0.004	0.005	0.031	0.069	0.099	3.084	Q	0.566	0.230	1.244	0.557	0.196	0.061	0.022	0.004	0.005	0.031	0.069	0.099	3.084	
STA AV	P	3.35	1.33	2.27	1.92	1.00	1.99	0.27	0.67	1.19	1.61	2.61	20.82	P	3.35	1.33	2.27	1.92	1.00	1.99	0.27	0.67	1.19	1.61	2.61	20.82			
	Q	0.773	0.370	0.607	0.488	0.271	0.126	0.026	0.031	0.020	0.044	0.091	0.176	3.022	Q	0.773	0.370	0.607	0.488	0.271	0.126	0.026	0.031	0.020	0.044	0.091	0.176	3.022	

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

1974	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.	5 Days Date	5 Days Vol.	
1974	3-17	0.006	3-17	0.005	3-17	0.011	3-17	0.032	3-17	0.062	3-17	0.116	3-16	0.208	3-12	0.612

MAXIMUMS FOR PERIOD OF RECORD

8-23 1965	0.073	8-23 1965	0.044	8-23 1965	0.056	1-20 1969	0.115	1-28 1965	0.208	1-28 1965	0.379	1-28 1965	0.766	1-28 1965	1.495
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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. Pnb. 1216, p. 68.2-7. Records began 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. Station average precipitation amounts are based on 1968-74 data. Station average runoff amounts are based on record period (1963-74). For long-time precipitation records, see National Weather Service records at Boise, Idaho; 59 miles N.E. of watershed.

1974 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 T	0.10	0.98	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	1	0.0 T	0.10	0.98	0.27	0.0	0.0	0.0	0.0	0.02	0.0				
2	0.0	0.0	0.28	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	2	0.0	0.0	0.28	0.05	0.0	0.0	0.0	0.0	0.02	0.0				
3	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0				
4	0.0	0.21	0.07	0.0 T	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.25	4	0.0	0.21	0.07	0.0 T	0.0	0.29	0.0	0.0	0.0	0.25				
5	0.07	0.0 T	0.07	0.11	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	5	0.07	0.0 T	0.07	0.11	0.0	0.58	0.0	0.0	0.0	0.0				
6	0.0 T	0.0	0.45	0.0	0.0	0.01	0.02	0.16	0.0	0.0	0.0	0.11	6	0.0 T	0.0	0.45	0.0	0.0	0.01	0.02	0.16	0.0	0.11				
7	0.01	0.0	0.42	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.44	0.0	7	0.01	0.0	0.42	0.0	0.0	0.0	0.0	0.01	0.0	0.44				
8	0.0	0.0	0.03	0.0	0.0	0.0	0.16	0.0	0.0	0.0 T	0.01	0.0	8	0.0	0.0	0.03	0.0	0.0	0.0	0.16	0.0	0.0 T	0.01				
9	0.0	0.0	0.0	0.05	0.0	0.0	0.22	0.0	0.0	0.52	0.0	0.0	9	0.0	0.0	0.0	0.05	0.0	0.0	0.22	0.0	0.52	0.0				
10	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	10	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0	0.0				
11	0.01	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	11	0.01	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.27				
12	0.16	0.0	0.16	0.01	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.29	12	0.16	0.0	0.16	0.01	0.38	0.0	0.0	0.0	0.0	0.29				
13	0.04	0.0	0.10	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01	13	0.04	0.0	0.10	0.0	0.0	0.0	0.0	0.01	0.0	0.01				
14	0.0	0.01	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	14	0.0	0.01	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.21				
15	0.0	0.0	0.03	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.21	15	0.0	0.0	0.03	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.21			
16	0.28	0.07	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	0.28	0.07	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.12	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.09	0.10	17	0.0	0.0	0.12	0.0	0.03	0.0	0.0	0.0	0.0	0.09	0.10			
18	0.25	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	18	0.25	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0			
19	0.01	0.30	0.0	0.0	0.0 T	0.0	0.0 T	0.02	0.0	0.0	0.01	0.16	19	0.01	0.30	0.0	0.0	0.0 T	0.0	0.0 T	0.02	0.0	0.01	0.16			
20	0.09	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.06	0.0 T	0.45	20	0.09	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0 T	0.06	0.0 T	0.45			
21	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.05	21	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.05			
22	0.0 T	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	22	0.0 T	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0 T	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0 T	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0			
25	0.10	0.0	0.14	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	25	0.10	0.0	0.14	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05			
26	0.14	0.04	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.14	0.04	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.47	0.0 T	0.07	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30	27	0.47	0.0 T	0.07	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30		
28	0.0	0.01	0.01	0.0 T	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	28	0.0	0.01	0.01	0.0 T	0.0	0.0	0.0	0.0	0.56	0.0	0.0			
29	0.0		0.12	0.0	0.01	0.0	0.03	0.0	0.0	0.34	0.0	0.0 T	29	0.0		0.12	0.0	0.01	0.0	0.03	0.0	0.0	0.34	0.0 T			
30	0.01		0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	30	0.01		0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19			
31	0.18		0.0		0.0		0.0 T			0.0		0.0	31	0.18		0.0		0.0		0.0 T				0.0			
TOTAL	1.82	0.99	3.73	0.63	0.55	0.88	0.51	0.20	0.0	2.17	1.09	2.61	TOTAL	1.82	0.99	3.73	0.63	0.55	0.88	0.51	0.20	0.0	2.17	1.09	2.61		
STA AV	3.35	1.33	2.27	1.92	1.00	1.99	0.27	0.67	1.19	1.61	2.61	2.61	STA AV	3.35	1.33	2.27	1.92	1.00	1.99	0.27	0.67	1.19	1.61	2.61	2.61		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1974 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 T	0.06	0.69	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
2	0.0	0.0	0.19	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
3	0.0	0.0	0.0 T	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.13	0.03	0.0 T	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.19
5	0.07	0.0 T	0.03	0.09	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.01
6	0.0 T	0.0	0.22	0.0	0.0	0.01	0.02	0.14	0.0	0.0	0.0	0.09
7	0.01	0.0	0.20	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.43	0.0
8	0.0	0.0	0.01	0.0	0.0	0.0	0.15	0.0	0.0	0.0 T	0.01	0.0
9	0.0	0.0	0.0	0.04	0.0	0.0	0.20	0.0	0.0	0.48	0.0	0.0
10	0.0	0.0	0.0	0.0 T	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
11	0.01	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19
12	0.13	0.0	0.10	0.01	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.21
13	0.03	0.0	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0 T
14	0.0	0.01	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
15	0.0	0.0	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.10
16	0.25	0.05	0.01	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.10	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.08	0.05
18	0.20	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0
19	0.01	0.18	0.0	0.0	0.0 T	0.0	0.0 T	0.02	0.0	0.0	0.01	0.11
20	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.04	0.0 T	0.32
21	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.03
22	0.0 T	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0 T	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0
25	0.04	0.0	0.10	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0
26	0.07	0.04	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.22	0.0 T	0.07	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.17
28	0.0	0.0 T	0.01	0.0 T	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0
29	0.0	0.0	0.09	0.0	0.01	0.0	0.03	0.0	0.0	0.31	0.0	0.0 T
30	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
31	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL STA AV	1.20	0.65	2.45	0.51	0.40	0.75	0.47	0.17	0.0	1.90	1.00	1.69

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1974 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 T	0.08	0.84	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
2	0.0	0.0	0.24	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
3	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.16	0.04	0.0 T	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.23
5	0.07	0.0 T	0.04	0.10	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.01
6	0.0 T	0.0	0.32	0.0	0.0	0.01	0.02	0.15	0.0	0.0	0.0	0.10
7	0.01	0.0	0.30	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.43	0.0
8	0.0	0.0	0.02	0.0	0.0	0.0	0.16	0.0	0.0	0.0 T	0.02	0.0
9	0.0	0.0	0.0	0.04	0.0	0.0	0.21	0.0	0.0	0.50	0.0	0.0
10	0.0	0.0	0.0	0.0 T	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
11	0.01	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23
12	0.15	0.0	0.14	0.01	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.25
13	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01
14	0.0	0.01	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16
15	0.0	0.0	0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.15
16	0.27	0.06	0.01	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.11	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.09	0.08
18	0.23	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0
19	0.01	0.24	0.0	0.0	0.0 T	0.0	0.0 T	0.02	0.0	0.0	0.01	0.14
20	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.04	0.0 T	0.39
21	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.04
22	0.0 T	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0 T	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0
25	0.07	0.0	0.12	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0
26	0.10	0.04	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.33	0.0 T	0.07	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.24
28	0.0	0.01	0.01	0.0 T	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0
29	0.0	0.0	0.11	0.0	0.01	0.0	0.03	0.0	0.0	0.33	0.0	0.0 T
30	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
31	0.13	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
TOTAL STA AV	1.49	0.81	3.07	0.55	0.48	0.82	0.49	0.19	0.0	2.03	1.06	2.18

NOTES: Values are Thiessen weighted average amounts from 9 shielded recording gages. STA AV do not apply to shielded rain gage records.

1974		REYNOLDS, IDARO SALMON CREEK WATERSHED (046017)										
		MEAN DAILY DISCHARGE (cfs)										
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.004	4.419	5.892	13.371	3.626	1.473	0.189	0.076	0.038	0.076	0.793	0.680
2	3.815	3.701	6.308	12.011	2.455	1.208	0.227	0.076	0.038	0.076	0.831	0.906
3	3.626	3.702	5.326	10.916	2.078	1.171	0.189	0.075	0.076	0.113	0.831	0.869
4	3.324	3.588	4.759	10.009	2.644	1.398	0.189	0.038	0.038	0.076	0.793	0.944
5	3.173	2.266	7.025	9.783	2.946	1.511	0.189	0.038	0.038	0.113	0.831	0.944
6	3.022	2.380	9.820	9.141	3.060	1.360	0.264	0.076	0.037	0.151	0.831	0.907
7	2.871	3.211	8.007	8.385	3.059	1.473	0.302	0.075	0.038	0.113	0.869	0.906
8	2.795	3.173	6.950	8.385	2.682	1.473	0.264	0.038	0.038	0.113	1.208	0.680
9	2.795	2.984	7.101	8.536	2.569	1.397	0.302	0.038	0.076	0.227	0.944	0.755
10	2.795	2.908	8.007	7.894	2.681	1.209	0.453	0.038	0.038	0.113	0.869	0.793
11	2.757	2.984	11.520	7.856	2.229	1.095	0.756	0.038	0.038	0.151	0.793	1.095
12	2.606	3.059	17.790	7.441	3.361	1.095	0.529	0.038	0.075	0.113	0.869	1.058
13	2.455	2.946	16.128	6.761	3.022	0.944	0.415	0.038	0.076	0.151	0.869	0.868
14	7.139	2.908	24.173	6.535	2.908	0.907	0.378	0.037	0.076	0.189	0.868	1.095
15	24.135	2.908	34.824	6.459	2.720	0.793	0.302	0.076	0.075	0.227	0.869	1.209
16	18.243	3.135	33.918	6.270	2.757	0.604	0.340	0.038	0.076	0.189	0.831	1.549
17	20.887	2.833	43.096	6.383	2.833	0.378	0.340	0.038	0.076	0.227	0.869	1.398
18	15.599	3.022	34.069	6.723	2.682	0.227	0.340	0.038	0.076	0.302	1.171	1.133
19	14.579	3.777	25.004	6.836	2.568	0.264	0.340	0.038	0.037	0.302	0.944	1.171
20	11.218	2.946	18.772	6.044	2.342	0.302	0.378	0.037	0.076	0.340	0.906	2.946
21	8.498	3.135	15.146	5.023	2.229	0.378	0.340	0.038	0.076	0.491	0.869	2.644
22	7.781	3.097	13.069	5.590	1.889	0.415	0.264	0.076	0.076	0.529	0.831	1.322
23	6.723	3.248	11.369	5.514	1.359	0.415	0.227	0.038	0.075	0.604	0.831	1.020
24	6.119	3.286	10.651	4.646	1.247	0.302	0.151	0.038	0.076	0.907	0.906	1.398
25	5.515	3.097	11.104	4.570	1.473	0.227	0.113	0.075	0.076	0.642	0.869	1.511
26	5.023	2.833	12.729	4.457	1.738	0.227	0.113	0.038	0.075	0.604	0.755	1.360
27	4.835	2.606	13.182	4.382	1.775	0.189	0.076	0.038	0.076	0.604	0.907	1.586
28	4.532	2.871	13.560	3.890	1.737	0.264	0.038	0.038	0.076	0.869	0.793	1.208
29	4.230		13.484	3.211	1.775	0.227	0.076	0.038	0.076	1.397	0.718	0.793
30	4.004		14.428	3.361	1.889	0.264	0.037	0.038	0.113	0.869	0.718	1.322
31	4.835		12.766		1.624		0.076	0.075		0.755		1.133
MEAN	6.901	3.108	15.161	7.013	2.386	0.773	0.264	0.049	0.064	0.375	0.866	1.200
INCRS	0.566	0.230	1.244	0.557	0.196	0.061	0.022	0.004	0.005	0.031	0.069	0.099
STA AV	0.773	0.370	0.607	0.488	0.271	0.126	0.026	0.031	0.020	0.044	0.091	0.176

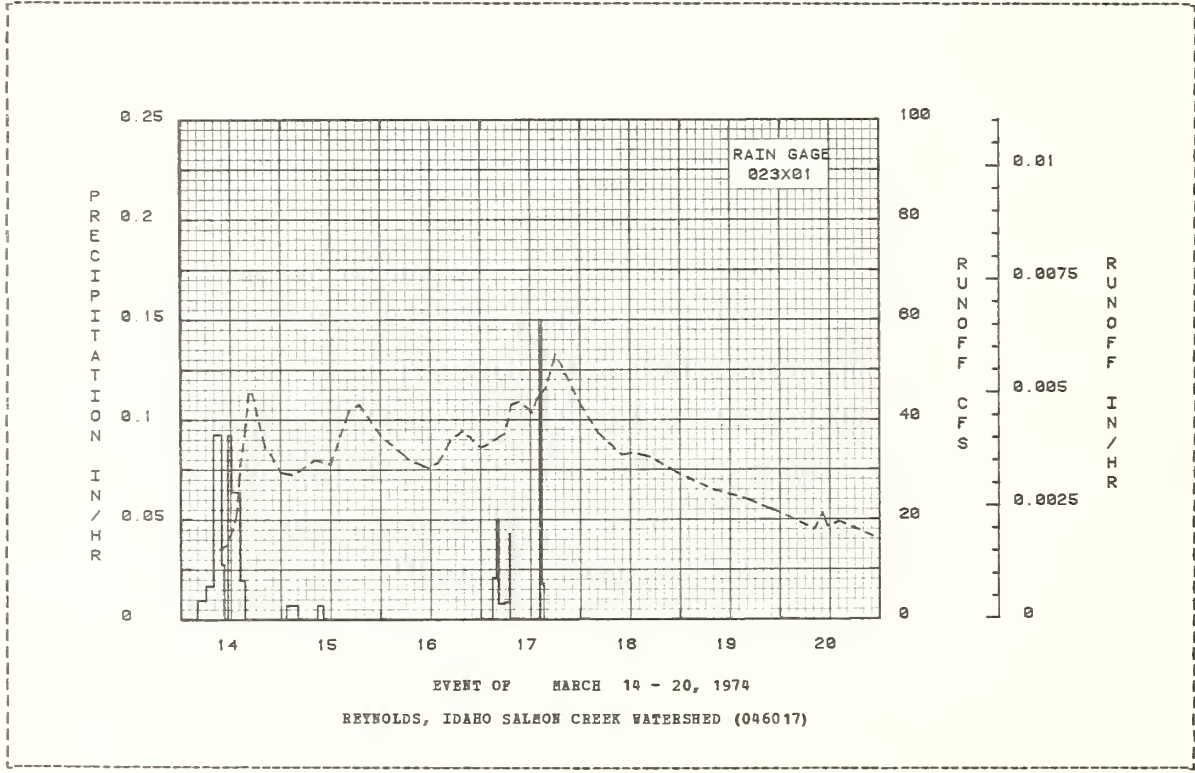
NOTES: To convert CFS to IN/DAY, multiply by 0.002648. STA AV amounts are based on 12 yr (1963-74) record period.

1974		REYNOLDS, IDARO SALMON CREEK WATERSHED (046017)										
		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 MARCR 14 - 20, 1974												
3-14	RG 023X01 0.0	0.015	3-14	RG 023X01 353	0.0	0.0	3-14	922	14.105	0.0		
				559	0.0095	0.02		1110	15.084	0.0029		
				747	0.0167	0.05		1222	18.205	0.0051		
				937	0.0927	0.22		1318	20.902	0.0071		
				1021	0.0273	0.24		1404	29.362	0.0093		
WATERSHED CONDITIONS: The event is combined rain and snowmelt.												
				1112	0.0	0.24		1516	37.750	0.0137		
				1204	0.0923	0.32		1616	45.280	0.0183		
				1416	0.0636	0.46		1702	45.280	0.0221		
				1518	0.0194	0.48		2012	34.321	0.0360		
			3-15	114	0.0	0.48		2132	32.917	0.0410		
				402	0.0071	0.50		2400	29.362	0.0494		
				846	0.0	0.50	3-15	226	28.936	0.0572		
				1012	0.0070	0.51		422	29.791	0.0635		
			3-17	246	0.0	0.51		804	32.003	0.0761		
				344	0.0207	0.53		1156	31.105	0.0896		
				420	0.0500	0.56		1630	41.941	0.1080		
				540	0.0075	0.57		1848	43.035	0.1188		
				650	0.0086	0.58		2400	36.748	0.1416		
				704	0.0429	0.59	3-16	644	32.003	0.1672		
				1419	0.0	0.59		1126	30.225	0.1833		
				1439	0.1500	0.64		1354	31.552	0.1917		
				1513	0.0176	0.65		1640	35.764	0.2020		
							3-17	1934	37.750	0.2137		
								2400	34.321	0.2314		
								552	37.247	0.2545		
								722	43.035	0.2612		
								912	43.589	0.2699		
								1224	41.401	0.2849		
								1330	44.148	0.2901		
								1544	46.431	0.3013		

NOTES: To convert CFS to IN/HR, multiply by .0001103.

1974 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)							
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 14 - 20, 1974 (CONTINUED)										
							3-17	1758	53.113	0.3135
								2400	43.035	0.3455
							3-18	420	37.247	0.3647
								958	32.917	0.3865
								1212	33.381	0.3947
								1640	32.458	0.4109
								2400	28.936	0.4357
							3-19	812	25.807	0.4605
								1634	23.892	0.4834
								2044	22.371	0.4941
								2400	21.262	0.5019
							3-20	820	17.893	0.5199
								1014	21.262	0.5240
								1128	18.523	0.5267
								1402	19.510	0.5321
								2400	15.870	0.5516

NOTES: To convert CFS to IN/HR, multiply by .0001103.



REYNOLDS, IDAHO MACKS 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 MACKS CREEK WATERSHED (046084)	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	1.49	0.60	3.44	0.60	0.29	0.69	0.46	0.26	0.0	2.04	1.09	2.36	13.32
	Q	0.626	0.217	1.657	0.771	0.143	0.039	0.008	0.002	0.000	0.001	0.007	0.045	3.515
STA AV	P	2.88	1.06	1.94	1.59	0.77	1.72	0.25	0.69	1.06	1.39	2.20	2.36	17.91
	Q	0.645	0.268	0.693	0.455	0.126	0.062	0.011	0.003	0.002	0.005	0.027	0.105	2.401

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval													
		1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.							
1974 3-14	0.009	3-14 0.009	3-14 0.017	3-14 0.045	3-15 0.079	3-16 0.142	3-14 0.265	3-12 0.815							
MAXIMUMS FOR PERIOD OF RECORD															
1-21 1969	0.039	1-21 1969	0.037	1-20 1969	0.069	1-20 1969	0.183	1-20 1969	0.294	1-20 1969	0.457	1-20 1969	0.649	2-27 1972	1.015

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: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. Station average precipitation amounts are based on 1968-74 record period. Station average streamflow amounts are based on 1963-74. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1974 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0 T	0.04	0.72	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0		
2	0.0	0.0 T	0.16	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0		
3	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.07	0.04	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.07		
5	0.05	0.0 T	0.02	0.11	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0 T		
6	0.02	0.0	0.48	0.0	0.0	0.0	0.0 T	0.25	0.0	0.0	0.0	0.07		
7	0.01	0.0	0.33	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.50	0.0 T		
8	0.0	0.0	0.04	0.0	0.0	0.0	0.12	0.0	0.0	0.02	0.01	0.01		
9	0.0	0.0	0.0	0.05	0.0	0.0	0.22	0.0	0.0	0.52	0.0	0.0		
10	0.0	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0	0.0	0.0 T	0.0		
11	0.0 T	0.0	0.0 T	0.05	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.26		
12	0.10	0.0	0.12	0.0 T	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.32		
13	0.05	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01		
14	0.0	0.02	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26		
15	0.01	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.26		
16	0.25	0.08	0.03	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
17	0.0	0.0	0.08	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.11	0.08		
18	0.29	0.12	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0 T		
19	0.0 T	0.20	0.01	0.0	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.01	0.12		
20	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.03	0.0 T	0.41		
21	0.0 T	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.04		
22	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
23	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0 T	0.0 T		
24	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0		
25	0.04	0.0 T	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0		
26	0.10	0.03	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T		
27	0.27	0.0 T	0.10	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.29		
28	0.0	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.01		
29	0.0	0.32	0.0	0.01	0.0	0.0	0.0 T	0.0	0.0	0.40	0.0	0.01		
30	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14		
31	0.22	0.0 T	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.0		
TOTAL	1.49	0.60	3.44	0.60	0.29	0.69	0.46	0.26	0.0	2.04	1.09	2.36		
STA AV	2.88	1.06	1.94	1.59	0.77	1.72	0.25	0.69	1.06	1.39	2.20	2.36		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. B. Ramon, "Computing Actual Precipitation", Proceedings of WHO-IDRS 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 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1974		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.04	0.49	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
2	0.0	0.0 T	0.11	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
3	0.0	0.0	0.0 T	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.06	0.02	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.05
5	0.05	0.0 T	0.01	0.09	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0 T
6	0.02	0.0	0.30	0.0	0.0	0.0	0.0 T	0.23	0.0	0.0	0.0	0.06
7	0.01	0.0	0.21	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.45	0.0
8	0.0	0.0	0.03	0.0	0.0	0.0	0.11	0.0	0.0	0.02	0.01	0.0 T
9	0.0	0.0	0.0	0.04	0.0	0.0	0.19	0.0	0.0	0.49	0.0	0.0
10	0.0	0.0	0.0	0.02	0.0	0.0	0.10	0.0	0.0	0.0	0.0 T	0.0
11	0.0 T	0.0	0.0 T	0.04	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.18
12	0.10	0.0	0.08	0.0 T	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.21
13	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
14	0.0	0.01	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
15	0.01	0.0	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.11
16	0.23	0.06	0.02	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
17	0.0	0.0	0.06	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.09	0.05
18	0.25	0.09	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0 T
19	0.0 T	0.15	0.01	0.0	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.0 T	0.09
20	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.02	0.0 T	0.32
21	0.0 T	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.03
22	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
23	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0 T	0.0 T
24	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0
25	0.03	0.0 T	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
26	0.06	0.03	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
27	0.17	0.0 T	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.16
28	0.0	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0 T
29	0.0	0.0	0.28	0.0	0.01	0.0	0.0 T	0.0	0.0	0.36	0.0	0.01
30	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
31	0.17	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0
TOTAL	1.21	0.48	2.53	0.46	0.25	0.64	0.40	0.24	0.0	1.78	0.97	1.46
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1974		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.04	0.59	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
2	0.0	0.0 T	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
3	0.0	0.0	0.0 T	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.06	0.03	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.06
5	0.05	0.0 T	0.02	0.10	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0 T
6	0.02	0.0	0.38	0.0	0.0	0.0	0.0 T	0.24	0.0	0.0	0.0	0.07
7	0.01	0.0	0.27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.48	0.0 T
8	0.0	0.0	0.04	0.0	0.0	0.0	0.11	0.0	0.0	0.02	0.01	0.0 T
9	0.0	0.0	0.0	0.05	0.0	0.0	0.21	0.0	0.0	0.51	0.0	0.0
10	0.0	0.0	0.0	0.02	0.0	0.0	0.11	0.0	0.0	0.0	0.0 T	0.0
11	0.0 T	0.0	0.0 T	0.05	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.22
12	0.10	0.0	0.10	0.0 T	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.27
13	0.05	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
14	0.0	0.02	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18
15	0.01	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.18
16	0.24	0.07	0.02	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
17	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.10	0.07
18	0.27	0.10	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0 T
19	0.0 T	0.17	0.01	0.0	0.0 T	0.0	0.0 T	0.01	0.0	0.0	0.01	0.11
20	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.03	0.0 T	0.37
21	0.0 T	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.03
22	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
23	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0 T	0.0 T
24	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0
25	0.03	0.0 T	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
26	0.08	0.03	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
27	0.22	0.0 T	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.22
28	0.0	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.01
29	0.0	0.0	0.30	0.0	0.01	0.0	0.0 T	0.0	0.0	0.38	0.0	0.01
30	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
31	0.19	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.0
TOTAL	1.35	0.53	2.96	0.54	0.26	0.66	0.43	0.25	0.0	1.94	1.04	1.92
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 shielded recording gages. STA AV do not apply to shielded rain gage records.

1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.615	4.121	9.922	20.603	3.263	0.594	0.132	0.066	0.0	0.0	0.033	0.132
2	1.022	3.165	7.780	19.745	3.066	0.560	0.132	0.033	0.033	0.0	0.033	0.165
3	1.681	3.066	4.813	17.010	2.802	0.495	0.165	0.033	0.0	0.033	0.0	0.165
4	1.681	2.868	4.186	14.933	2.274	0.561	0.132	0.033	0.0	0.0	0.033	0.198
5	1.121	2.275	6.955	14.306	2.472	0.824	0.132	0.033	0.0	0.0	0.033	0.198
6	1.187	2.011	10.746	12.988	2.274	0.758	0.099	0.033	0.0	0.0	0.033	0.231
7	0.956	2.670	6.692	11.274	1.813	0.791	0.099	0.033	0.0	0.033	0.033	0.231
8	0.956	2.571	5.406	10.812	1.549	0.725	0.132	0.033	0.0	0.0	0.033	0.198
9	0.791	2.373	5.406	10.713	1.549	0.692	0.132	0.033	0.0	0.033	0.066	0.198
10	0.956	2.275	6.527	10.285	1.451	0.659	0.099	0.0	0.0	0.0	0.033	0.198
11	1.088	2.472	11.966	9.790	1.648	0.560	0.132	0.033	0.0	0.0	0.033	0.297
12	1.055	2.439	29.107	9.329	1.714	0.461	0.099	0.0	0.033	0.033	0.066	0.362
13	2.110	2.340	18.427	8.439	1.747	0.396	0.066	0.033	0.0	0.0	0.066	0.395
14	11.834	2.340	31.184	7.549	1.681	0.362	0.099	0.0	0.0	0.0	0.066	0.428
15	40.117	2.439	45.458	6.626	1.681	0.362	0.066	0.033	0.0	0.0	0.066	0.495
16	21.526	2.769	37.348	6.131	1.747	0.330	0.066	0.0	0.0	0.0	0.066	0.824
17	22.284	2.472	46.875	5.670	1.714	0.330	0.066	0.0	0.0	0.033	0.099	0.890
18	17.702	2.505	34.019	5.802	1.550	0.362	0.033	0.0	0.0	0.0	0.066	0.461
19	15.131	3.692	25.712	5.604	1.384	0.330	0.066	0.0	0.0	0.0	0.099	0.528
20	10.120	2.538	20.735	5.340	1.318	0.296	0.033	0.033	0.0	0.033	0.066	2.340
21	5.769	2.538	17.768	5.175	1.253	0.297	0.066	0.0	0.0	0.0	0.066	1.813
22	6.362	2.275	15.493	5.406	1.121	0.264	0.033	0.0	0.0	0.0	0.099	0.428
23	5.670	1.978	13.285	5.208	0.956	0.264	0.033	0.0	0.0	0.033	0.099	0.428
24	5.241	2.242	12.197	4.582	0.824	0.231	0.066	0.0	0.0	0.0	0.099	0.330
25	4.681	2.307	13.120	4.582	0.692	0.231	0.033	0.033	0.033	0.033	0.099	0.428
26	4.022	2.275	15.592	4.054	0.626	0.198	0.066	0.0	0.0	0.0	0.099	0.495
27	4.121	2.110	15.625	3.230	0.594	0.231	0.033	0.0	0.0	0.033	0.132	0.593
28	3.890	2.439	16.120	2.835	0.528	0.198	0.066	0.0	0.0	0.0	0.132	0.461
29	3.494		18.196	2.967	0.593	0.198	0.033	0.0	0.0	0.033	0.165	0.264
30	3.296		21.756	3.263	0.659	0.198	0.033	0.0	0.0	0.033	0.165	0.329
31	4.780		17.735		0.626		0.033	0.0		0.0		0.330
MEAN	6.653	2.556	17.618	8.475	1.522	0.425	0.980	0.016	0.003	0.012	0.072	0.479
INCRS	0.626	0.217	1.657	0.771	0.143	0.039	0.008	0.002	0.000	0.001	0.007	0.045
STA AV	0.645	0.268	0.693	0.455	0.126	0.062	0.011	0.003	0.002	0.005	0.027	0.105

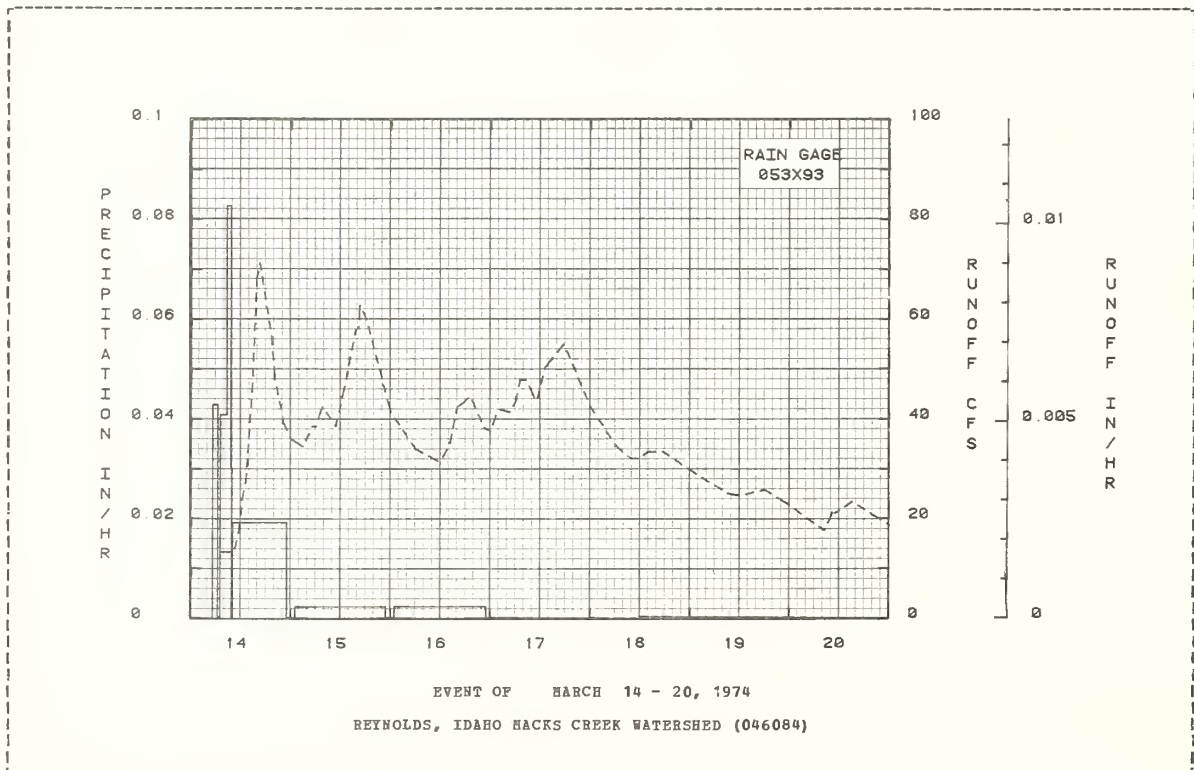
NOTES: To convert CPS to IN/DAY, multiply by 0.003034. STA AV amounts based on 12 yr (1963-74) record period.

1974 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 MARCH 14 - 20, 1974										
3-14	RG 053X93 0.0	0.013	3-14	RG 053X93 516	0.0	0.0	3-14	712	13.353	0.0
				626	0.0429	0.05		918	13.286	0.0035
				704	0.0	0.05		1036	14.165	0.0057
				832	0.0409	0.11		1132	17.741	0.0076
				930	0.0828	0.19		1222	24.160	0.0098
				950	0.0300	0.20		1306	27.450	0.0122
				1000	0.0	0.20		1444	47.188	0.0199
				2300	0.0192	0.45		1542	68.166	0.0270
			3-15	100	0.0	0.45		1626	71.361	0.0334
				2300	0.0023	0.50		1916	56.340	0.0563
			3-16	100	0.0	0.50		2008	47.806	0.0620
				2300	0.0023	0.55		2212	39.085	0.0734
			3-17	100	0.0	0.55		2400	35.917	0.0819
							3-15	252	34.400	0.0946
								512	38.545	0.1054
								600	38.545	0.1093
								732	42.433	0.1171
								1050	38.545	0.1340
								1256	46.575	0.1453
								1532	57.737	0.1625
								1618	58.444	0.1681
								1636	62.807	0.1704
								1810	59.875	0.1825
								2400	41.297	0.2198
							3-16	600	33.904	0.2483
								1116	31.495	0.2701
								1242	32.444	0.2759
								1418	35.407	0.2828
								1600	42.433	0.2911
								1842	44.177	0.3059

NOTES: To convert CPS to IN/RR, multiply by .00012640.

1974 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO HACKS CREEK WATERSHPD (046084)							
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 MARCH 14 - 20, 1974 (CONTINUED)										
							3-16	1938	43.590	0.3111
								2236	38.009	0.3264
								2400	37.479	0.3331
							3-17	118	40.736	0.3395
								230	41.862	0.3458
								438	41.297	0.3570
								606	43.590	0.3648
								702	47.806	0.3702
								830	47.806	0.3791
								1034	44.177	0.3911
								1120	44.177	0.3954
								1310	50.333	0.4063
								1502	52.285	0.4184
								1740	54.966	0.4363
								2400	42.433	0.4753
							3-18	624	34.400	0.5063
								948	31.967	0.5206
								1124	31.967	0.5271
								1352	33.412	0.5373
								1734	33.412	0.5529
								2400	29.651	0.5785
							3-19	914	24.957	0.6104
								1152	24.556	0.6186
								1802	25.770	0.6382
								2108	24.160	0.6480
								2400	22.618	0.6565
							3-20	802	17.741	0.6770
								838	17.741	0.6783
								1020	21.144	0.6825
								1100	21.144	0.6843
								1158	21.506	0.6869
								1506	23.381	0.6958
								2034	20.431	0.7109
								2400	18.720	0.7194

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



REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Wampa; main stem of Reynolds Creek which is tributary to the Snake River. Lat. 43 deg. 8 min. 33 sec. N.; Long. 116 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
1974	P	3.52	1.83	6.12	1.34	0.53	0.87	0.95	0.22	0.0	2.63	1.72	4.06	23.79
	Q	0.857	0.308	2.034	2.966	3.648	1.961	0.387	0.063	0.026	0.081	0.105	0.128	12.564
STA AV	P	5.28	2.30	3.02	2.09	1.21	1.86	0.58	1.02	1.17	2.11	3.68	4.32	28.63
	Q	0.884	0.553	1.298	1.894	3.465	1.578	0.259	0.048	0.037	0.086	0.162	0.233	10.498

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.			
1974	3-29	0.014	3-29	0.014	3-29	0.027	3-29	0.075	3-29	0.125	3-29	0.203	5- 7	0.370	5- 4	1.296

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
	1-21	0.030	1-21	0.029	1-21	0.057	1-21	0.157	1-21	0.283	1-20	0.454	1-20	0.612	5- 4	1.856
	1969		1969		1969		1969		1969		1969		1969		1971	

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: Thiessen weighted average 'Computed Actual' amounts from 16 rain gages. Station average precipitation amounts are based on 1968-74 record period. Station average runoff amounts are based on 1967-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

Course#	SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)											
	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
144062	011674	10.20	020174	12.50	021574	13.60	030174	15.60	031474	20.60	040274	17.70
144062	041574	15.50	050174	1.30	051574	0.00	120374	0.72	121774	4.50		
155054	011574	9.10	020174	10.50	021574	10.70	030174	12.60	031474	15.60	040274	13.00
155054	041574	8.60	042374	0.00	120374	0.70	121774	2.80				
163020	011674	19.70	020174	22.40	021574	23.80	030174	27.10	031474	32.20	040274	34.20
163020	041574	35.40	050174	34.30	051574	27.80	052974	18.50	060874	0.00	120374	4.80
163020	121774	8.90										
163098	011674	18.20	020174	21.90	021574	23.40	030174	25.60	031474	30.50	040274	32.70
163098	041574	33.60	050174	29.00	051474	17.50	052974	7.90	061174	0.00	120374	3.80
163098	121774	7.80										
167007	011574	8.90	020174	8.80	021574	8.80	030174	10.20	031474	12.20	040174	11.80
167007	041574	11.10	042274	7.70	042974	4.20	051574	0.00	120374	1.60	121774	2.80
174026	011674	19.10	020174	21.40	021574	23.10	030174	26.60	031474	31.30	040274	33.40
174026	041574	34.80	050174	28.70	051574	17.90	052974	3.30	060474	0.00	120374	2.40
174026	121774	9.10										
176007	011674	17.60	020174	21.40	021574	21.80	030174	25.00	03174	29.80	040274	30.50

NOTES: For snow course location information, see map on p. 68.001-6 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330.

1974 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.02	0.06	0.89	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0													
2	0.0 T	0.0 T	0.48	0.08	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.12	0.0													
3	0.0 T	0.0	0.01	0.04	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0													
4	0.0	0.20	0.27	0.0 T	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.03													
5	0.05	0.0	0.15	0.23	0.0	0.61	0.0	0.0 T	0.0	0.0	0.0	0.0													
6	0.06	0.0	0.95	0.01	0.0	0.0	0.10	0.21	0.0	0.0	0.0 T	0.05													
7	0.0 T	0.0	0.50	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.47	0.0													
8	0.0	0.0	0.06	0.0	0.0	0.0	0.22	0.0	0.0	0.07	0.03	0.0													
9	0.0	0.0	0.0	0.07	0.0 T	0.0	0.52	0.0	0.0	0.60	0.0	0.0													
10	0.0	0.0	0.0 T	0.02	0.0	0.0	0.11	0.0	0.0	0.0 T	0.0 T	0.0 T													
11	0.01	0.0	0.08	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48													
12	0.38	0.0	0.08	0.0 T	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.39													
13	0.33	0.0	0.13	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.03													
14	0.0 T	0.03	0.58	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0	0.0	0.54													
15	0.0	0.0 T	0.04	0.0 T	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.20													
16	0.22	0.33	0.01	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.02													
17	0.02	0.01	0.15	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.05	0.21													
18	0.58	0.38	0.0 T	0.07	0.0	0.0	0.0 T	0.0	0.0	0.0	0.59	0.01													
19	0.11	0.47	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.0	0.03	0.17													
20	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.03	0.0 T	0.84													
21	0.01	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0 T	0.20													
22	0.02	0.05	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.01	0.03													
23	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.47	0.0 T	0.0 T													
24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.01	0.0 T													
25	0.12	0.0	0.17	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.04													
26	0.27	0.13	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
27	0.53	0.0 T	0.15	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.60													
28	0.01	0.01	0.09	0.03	0.0	0.0	0.0	0.0	0.0	0.73	0.0 T	0.0 T													
29	0.0	0.0	1.07	0.0	0.01	0.0	0.0	0.0	0.0	0.47	0.0	0.02													
30	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.19													
31	0.72	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	3.52	1.83	6.12	1.34	0.53	0.87	0.95	0.22	0.0	2.63	1.72	4.06													
STA AV	5.28	2.30	3.02	2.09	1.21	1.86	0.58	1.02	1.17	2.11	3.68	4.32													

NOTES: Values are Thiessen weighted average 'Actual' amounts from 16 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamou, "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 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1974 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.02	0.03	0.51	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0													
2	0.0 T	0.0	0.25	0.05	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.08	0.0													
3	0.0 T	0.0	0.01	0.03	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0													
4	0.0	0.12	0.12	0.0 T	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.03													
5	0.04	0.0	0.07	0.16	0.0	0.58	0.0	0.0 T	0.0	0.0	0.0	0.0													
6	0.04	0.0	0.56	0.0 T	0.0	0.0	0.10	0.20	0.0	0.0	0.0 T	0.04													
7	0.0 T	0.0	0.29	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.41	0.0													
8	0.0	0.0	0.03	0.0	0.0	0.0	0.21	0.0	0.0	0.07	0.02	0.0													
9	0.0	0.0	0.0	0.05	0.0 T	0.0	0.49	0.0	0.0	0.57	0.0	0.0													
10	0.0	0.0	0.0 T	0.01	0.0	0.0	0.11	0.0	0.0	0.0 T	0.0 T	0.0 T													
11	0.0 T	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26													
12	0.20	0.0	0.05	0.0 T	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.21													
13	0.17	0.0	0.09	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.01													
14	0.0 T	0.01	0.41	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0	0.0	0.25													
15	0.0	0.0 T	0.03	0.0 T	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.09													
16	0.20	0.14	0.01	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T													
17	0.02	0.01	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.04	0.13													
18	0.53	0.16	0.0 T	0.07	0.0	0.0	0.0 T	0.0	0.0	0.0	0.46	0.01													
19	0.09	0.21	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.0	0.01	0.12													
20	0.04	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.03	0.0 T	0.65													
21	0.01	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0 T	0.12													
22	0.01	0.03	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.01	0.02													
23	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.35	0.0 T	0.0 T													
24	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.09	0.01	0.0													
25	0.05	0.0	0.14	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.01													
26	0.12	0.08	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
27	0.23	0.0 T	0.12	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.28													
28	0.0 T	0.0 T	0.08	0.02	0.0	0.0	0.0	0.0	0.0	0.64	0.0 T	0.0 T													
29	0.0	0.0	0.85	0.0	0.01	0.0	0.0	0.0	0.0	0.41	0.0	0.01													
30	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.07													
31	0.40	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	2.17	0.88	3.93	0.85	0.38	0.83	0.91	0.21	0.0	2.26	1.32	2.32													
STA AV																									

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1974 DAILY PRECIPITATION (inches)												REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec
1	0.02	0.05	0.69	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0
2	0.0 T	0.0 T	0.36	0.07	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.10	0.0
3	0.0 T	0.0	0.01	0.03	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
4	0.0	0.16	0.19	0.0 T	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.03
5	0.05	0.0	0.11	0.20	0.0	0.60	0.0	0.0 T	0.0	0.0	0.0	0.0
6	0.05	0.0	0.75	0.01	0.0	0.0	0.10	0.20	0.0	0.0	0.0 T	0.05
7	0.0 T	0.0	0.40	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.44	0.0
8	0.0	0.0	0.05	0.0	0.0	0.0	0.21	0.0	0.0	0.07	0.03	0.0
9	0.0	0.0	0.0	0.06	0.0 T	0.0	0.51	0.0	0.0	0.59	0.0	0.0
10	0.0	0.0	0.0 T	0.02	0.0	0.0	0.11	0.0	0.0	0.0 T	0.0 T	0.0 T
11	0.01	0.0	0.07	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36
12	0.28	0.0	0.07	0.0 T	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.30
13	0.25	0.0	0.11	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.02
14	0.0 T	0.02	0.50	0.0	0.01	0.0 T	0.0	0.0	0.0	0.0	0.0	0.38
15	0.0	0.0 T	0.04	0.0 T	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.14
16	0.21	0.23	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.01
17	0.02	0.01	0.13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.17
18	0.56	0.26	0.0 T	0.07	0.0	0.0	0.0 T	0.0	0.0	0.0	0.53	0.01
19	0.10	0.33	0.0	0.0	0.0 T	0.0	0.0	0.01	0.0	0.0	0.02	0.15
20	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.03	0.0 T	0.75
21	0.01	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0 T	0.16
22	0.02	0.04	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.01	0.03
23	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.42	0.0 T	0.0 T
24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.11	0.01	0.0 T
25	0.09	0.0	0.16	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.02
26	0.19	0.10	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
27	0.37	0.0 T	0.13	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.42
28	0.0 T	0.0 T	0.09	0.02	0.0	0.0	0.0	0.0	0.0	0.69	0.0 T	0.0 T
29	0.0	0.0	0.96	0.0	0.01	0.0	0.0	0.0	0.0	0.45	0.0	0.01
30	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.12
31	0.56	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.85	1.32	5.05	1.10	0.45	0.85	0.93	0.21	0.0	2.48	1.53	3.14
STA AV												

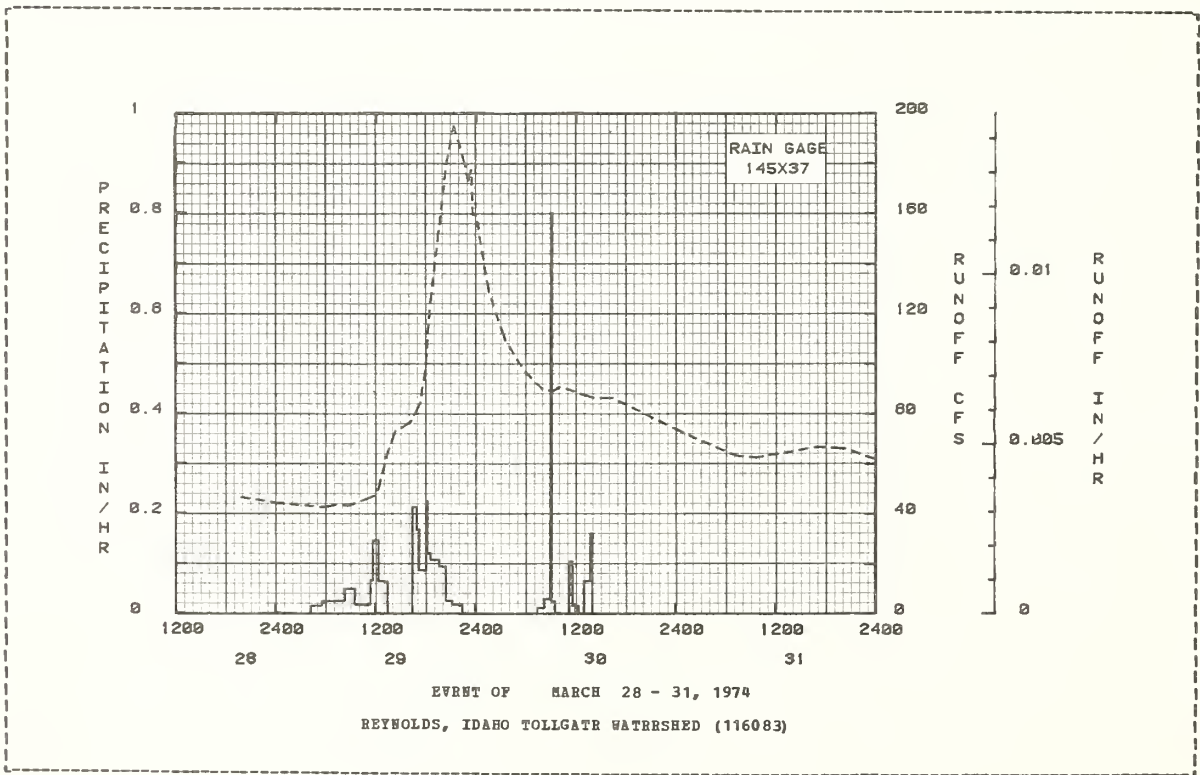
NOTES: Values are Thiessen weighted average amounts from 16 shielded recording gages. STA AV do not apply to shielded rain gage records.

1974 MEAN DAILY DISCHARGE (cfs)												REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec
1	4.18	8.59	10.91	61.78	79.70	56.58	10.80	2.26	0.45	0.56	1.92	1.75
2	3.28	8.20	10.46	53.30	80.09	56.07	10.85	2.26	0.45	0.51	2.09	1.98
3	2.77	7.74	7.86	47.02	79.58	56.24	13.06	1.98	0.40	0.62	1.92	1.92
4	2.54	7.40	7.80	44.37	82.35	58.61	12.77	1.69	0.40	0.74	1.81	2.09
5	2.66	7.01	8.87	48.49	87.72	72.18	10.74	1.58	0.40	0.85	1.75	2.03
6	2.88	6.27	9.66	46.74	90.55	60.82	10.68	1.70	0.45	0.90	1.70	1.92
7	3.16	7.01	8.82	43.58	99.14	54.66	10.34	1.58	0.40	0.96	1.98	1.92
8	3.39	6.78	8.48	45.50	105.64	49.00	9.61	1.64	0.34	1.07	2.71	1.41
9	3.73	6.33	8.82	44.54	100.33	45.61	12.27	1.53	0.34	1.98	1.98	1.75
10	4.52	6.33	9.55	39.96	88.23	43.58	12.04	1.41	0.45	1.47	1.98	1.86
11	3.22	6.44	11.42	40.70	83.60	42.16	9.33	1.24	0.62	1.36	1.87	2.09
12	4.07	6.05	20.12	38.66	79.41	42.05	8.53	1.19	0.68	1.30	1.98	2.15
13	6.05	5.88	18.26	36.23	68.22	41.60	7.91	1.13	0.79	1.24	1.92	2.20
14	26.34	5.71	27.30	40.07	60.20	40.53	7.69	1.30	0.68	1.24	1.92	2.15
15	66.07	5.77	60.08	44.43	55.16	38.94	7.01	1.19	0.62	1.24	1.86	2.20
16	50.25	5.99	71.10	50.87	50.47	37.59	6.27	1.02	0.51	1.24	1.64	2.49
17	42.11	5.65	96.88	61.10	44.88	34.93	6.05	0.85	0.45	1.19	1.70	2.26
18	46.46	5.65	71.05	71.39	40.13	32.56	5.71	0.74	0.40	1.19	3.22	2.15
19	46.80	6.22	55.84	72.40	36.74	30.18	4.97	0.90	0.40	1.24	2.32	2.20
20	27.13	5.48	45.16	66.24	35.21	29.67	4.69	1.07	0.40	1.24	2.15	5.09
21	19.33	5.71	39.85	68.73	34.25	27.64	4.41	1.07	0.45	1.41	2.15	4.75
22	17.52	5.31	36.29	73.70	36.29	25.32	4.41	0.90	0.45	1.41	2.03	2.88
23	13.96	5.37	33.57	77.60	42.16	22.95	4.01	0.90	0.45	1.58	1.75	2.54
24	12.83	5.65	37.25	75.85	48.95	29.40	3.73	0.74	0.45	2.03	1.98	2.60
25	11.76	5.94	40.75	71.90	56.24	17.92	3.50	0.74	0.45	1.92	2.03	2.60
26	10.57	5.09	48.72	64.21	67.37	16.84	3.28	0.62	0.40	1.86	1.53	2.32
27	10.17	5.09	52.73	59.12	74.89	15.37	3.11	0.56	0.45	1.75	2.15	2.43
28	9.50	5.20	51.26	56.46	71.61	14.07	2.94	0.45	0.56	2.32	1.81	2.15
29	9.10	81.22	60.82	64.15	12.83	12.83	2.83	0.45	0.56	4.86	1.53	2.32
30	8.76	93.54	70.65	60.54	11.70	11.70	2.83	0.45	0.62	2.54	1.86	2.32
31	9.33	65.79	57.93	57.93			2.60	0.45		2.03		2.09
MEAN	15.627	6.209	37.078	55.881	66.507	36.954	7.063	1.149	0.482	1.481	1.974	2.343
INCHES	0.857	0.308	2.034	2.966	3.648	1.961	0.387	0.063	0.026	0.081	0.105	0.128
STA AV	0.884	0.553	1.298	1.894	3.465	1.578	0.259	0.048	0.037	0.086	0.162	0.233

NOTES: To convert CFS to IN/DAY, multiply by 0.001769. STA AV amounts based on 8 yr (1967-74) record period.

1974 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHRD (116083)							
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 28 - 31, 1974										
RG 145X37			RG 145X37							
3-29	0.09		3-29	418	0.0	0.0	3-28	1956	46.431	0.0
3-28		0.077		536	0.0154	0.02		2400	44.148	0.0136
				712	0.0250	0.06	3-29	536	42.486	0.0315
				823	0.0254	0.09		716	43.589	0.0368
				935	0.0500	0.15		838	43.035	0.0411
WATERSHRD CONDITIONS: The event is combined rain and snowmelt.										
				1124	0.0165	0.18		1146	47.014	0.0515
				1142	0.0667	0.20		1226	50.614	0.0539
				1223	0.1463	0.30		1322	63.215	0.0578
				1329	0.0636	0.37		1422	72.944	0.0628
				1627	0.0	0.37		1618	76.936	0.0735
				1658	0.2129	0.48		1722	84.485	0.0799
				1716	0.1667	0.53		1758	97.184	0.0839
				1805	0.0857	0.60		1834	125.146	0.0888
				1813	0.2250	0.63		1932	152.821	0.0987
				1838	0.1200	0.68		2026	179.970	0.1097
				1940	0.1065	0.79		2118	194.675	0.1217
				2025	0.0933	0.86		2244	178.542	0.1414
				2114	0.0245	0.88		2300	172.905	0.1449
				2227	0.0164	0.90		2324	177.122	0.1501
			3-30	726	0.0	0.90		2338	159.332	0.1529
				819	0.0113	0.91		2400	159.332	0.1573
				900	0.0293	0.93	3-30	132	128.549	0.1735
				909	0.8000	1.05		334	109.031	0.1913
				934	0.0240	1.06		600	96.237	0.2097
				1117	0.0	1.06		758	89.782	0.2232
				1140	0.1043	1.10		910	88.885	0.2311
				1222	0.0143	1.11		1004	90.686	0.2371
				1304	0.0	1.11		1408	86.227	0.2636
				1350	0.0652	1.16		1624	86.227	0.2780
				1405	0.1600	1.20		2400	73.731	0.3228
							3-31	714	63.215	0.3593

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



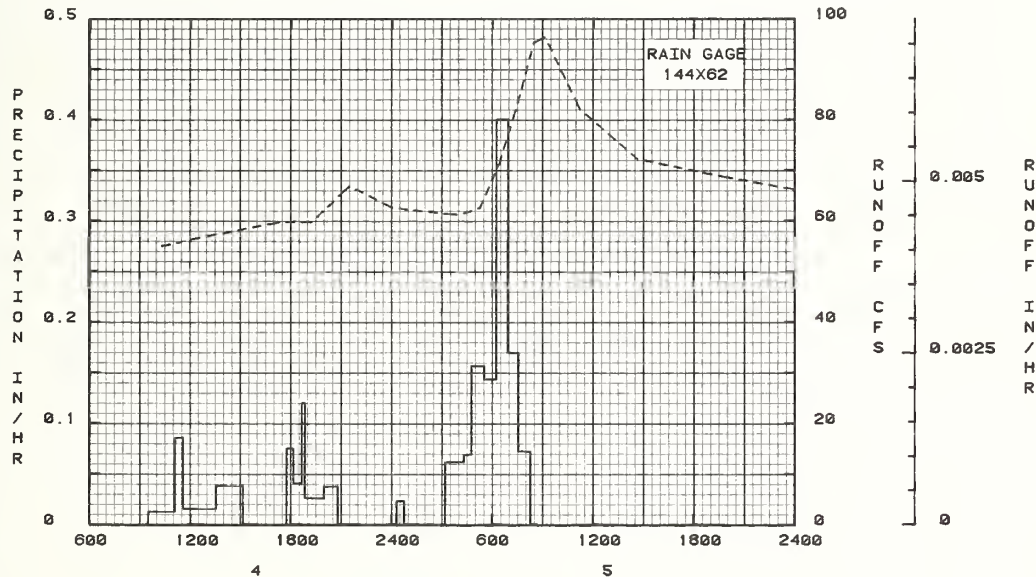
1974 SELECTED RUNOFF EVENT

RHYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

ANTHEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 4 - 6, 1974										
6-4	HG 144X62 0.0	0.043	6-4	HG 144X62 929	0.0	0.0	6-4	1018	55.040	0.0
				1105	0.0125	0.02		1304	57.013	0.0114
				1133	0.0857	0.06		1716	59.717	0.0295
				1333	0.0150	0.09		1912	59.717	0.0380
				1507	0.0383	0.15		2126	66.848	0.0484
				1745	0.0	0.15		2400	62.505	0.0606
				1809	0.0750	0.18	6-5	352	61.101	0.0782
				1839	0.0400	0.20		514	62.505	0.0845
				1849	0.1200	0.22		624	71.387	0.0902
				1959	0.0257	0.25		722	81.917	0.0957
			6-5	2047	0.0375	0.28		828	95.297	0.1029
				19	0.0	0.28		906	96.237	0.1073
				45	0.0231	0.29		1112	81.917	0.1211
				311	0.0	0.29		1438	72.163	0.1406
				419	0.0618	0.36		2016	68.339	0.1698
				445	0.0692	0.39		2400	66.110	0.1883
				531	0.1565	0.51	6-6	916	61.101	0.2318
				613	0.1429	0.61				
				655	0.4000	0.89				
				734	0.1692	1.00				
				816	0.0714	1.05				
				840	0.0	1.05				

WATERSHED CONDITIONS:
The event is combined
rain and snowmelt at the
upper elevations.

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



EVENT OF JUNE 4 - 6, 1974
RHYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River. Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 49 min. 1 sec. W.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974 P	2.01	0.92	4.06	0.97	0.44	1.02	0.55	0.28	0.0	2.23	1.22	3.13	16.83
1974 Q	1.418	0.596	3.346	2.257	0.903	0.208	0.035	0.0	0.0	0.006	0.089	0.178	9.038
STA AV P	3.36	1.37	2.32	1.92	1.01	2.34	0.31	0.62	1.20	1.70	2.69	2.81	21.66
STA AV Q	1.681	0.818	1.790	1.731	0.872	0.287	0.053	0.003	0.003	0.032	0.140	0.392	7.802

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days			
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	3-14	0.016	3-14	0.016	3-14	0.030	3-14	0.078	3-14	0.128	3-14	0.228	3-14	0.424	3-12	1.384

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1-27 1970	0.060	1-21 1969	0.050	1-20 1969	0.096	1-20 1969	0.261	1-20 1969	0.445	1-20 1969	0.720	1-20 1969	1.050	3-1 1972	1.931

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.11-6. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gages. Station average precipitation amounts based on 1968-74 record period. Station average runoff amounts based on 1967-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles E.E. of watershed.

1974	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 T	0.04	0.76	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
2	0.0	0.0	0.16	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
3	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.15	0.13	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.23
5	0.04	0.0	0.05	0.12	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.01
6	0.0	0.0	0.62	0.0	0.0	0.0	0.03	0.23	0.0	0.0	0.0	0.0	0.16
7	0.02	0.0	0.47	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.60	0.0
8	0.0	0.0	0.03	0.0	0.0	0.0	0.17	0.0	0.0	0.01	0.02	0.0	0.0
9	0.0	0.0	0.0	0.07	0.0	0.0	0.24	0.0	0.0	0.56	0.0	0.0	0.0
10	0.0	0.0	0.0	0.03	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0 T	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27
12	0.12	0.0	0.22	0.01	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36
13	0.09	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
14	0.0	0.02	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39
15	0.0	0.0	0.05	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29
16	0.28	0.12	0.01	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.12	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.14
18	0.24	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0
19	0.0	0.28	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.0	0.01	0.18	0.0
20	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.04	0.0	0.55	0.0
21	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.03	0.0
22	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	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	0.17	0.0	0.0	0.0
25	0.09	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0
26	0.14	0.03	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.54	0.0	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.32	0.0
28	0.0	0.0 T	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0
29	0.0	0.0	0.24	0.0	0.02	0.0	0.01	0.0	0.0	0.41	0.0	0.02	0.0
30	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0
31	0.33	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
TOTAL	2.01	0.92	4.06	0.97	0.44	1.02	0.55	0.28	0.0	2.23	1.22	3.13	16.83
STA AV	3.36	1.37	2.32	1.92	1.01	2.34	0.31	0.62	1.20	1.70	2.69	2.81	21.66

NOTES: Values are Thiessen weighted average 'Actual' amounts from 3 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WHO-IDRS 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 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1974 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO BURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0 T	0.02	0.55	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0													
2	0.0	0.0	0.12	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0													
3	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.09	0.06	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.14													
5	0.04	0.0	0.02	0.07	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.01													
6	0.0	0.0	0.27	0.0	0.0	0.0	0.02	0.15	0.0	0.0	0.0	0.13													
7	0.02	0.0	0.22	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.58	0.0													
8	0.0	0.0	0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.01	0.02	0.0													
9	0.0	0.0	0.0	0.03	0.0	0.0	0.17	0.0	0.0	0.52	0.0	0.0													
10	0.0	0.0	0.0	0.01	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0													
11	0.0 T	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19													
12	0.11	0.0	0.11	0.0 T	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.25													
13	0.08	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
14	0.0	0.02	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15													
15	0.0	0.0	0.04	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.11													
16	0.26	0.07	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.09	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.11	0.05													
18	0.20	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0													
19	0.0	0.16	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.0	0.01	0.11													
20	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.02	0.0	0.37													
21	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.02													
22	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0													
25	0.03	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0													
26	0.05	0.03	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.20	0.0	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.17													
28	0.0	0.0 T	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0													
29	0.0	0.0	0.21	0.0	0.02	0.0	0.01	0.0	0.0	0.35	0.0	0.01													
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09													
31	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
TOTAL	1.24	0.57	2.65	0.48	0.32	0.89	0.40	0.20	0.0	1.76	1.12	1.81													
STA AV																									

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1974 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO BURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0 T	0.03	0.65	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0													
2	0.0	0.0	0.13	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0													
3	0.0	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.12	0.09	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.19													
5	0.04	0.0	0.04	0.10	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.01													
6	0.0	0.0	0.42	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.15													
7	0.02	0.0	0.34	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.59	0.0													
8	0.0	0.0	0.01	0.0	0.0	0.0	0.16	0.0	0.0	0.01	0.02	0.0													
9	0.0	0.0	0.0	0.05	0.0	0.0	0.22	0.0	0.0	0.55	0.0	0.0													
10	0.0	0.0	0.0	0.02	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0													
11	0.0 T	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23													
12	0.12	0.0	0.17	0.01	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.32													
13	0.08	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T													
14	0.0	0.02	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26													
15	0.0	0.0	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.19													
16	0.28	0.09	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.11	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.11	0.09													
18	0.22	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0													
19	0.0	0.22	0.0	0.0	0.0	0.0	0.01	0.03	0.0	0.0	0.01	0.15													
20	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.46													
21	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.02													
22	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01													
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0													
25	0.06	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0													
26	0.09	0.03	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.34	0.0	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.24													
28	0.0	0.0 T	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0													
29	0.0	0.0	0.23	0.0	0.02	0.0	0.01	0.0	0.0	0.38	0.0	0.01													
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12													
31	0.23	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0													
TOTAL	1.59	0.74	3.32	0.72	0.37	0.96	0.51	0.24	0.0	2.02	1.17	2.45													
STA AV																									

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.305	0.388	0.986	1.530	0.527	0.174	0.018	0.0	0.0	0.0	0.031	0.040
2	0.244	0.346	0.579	1.512	0.535	0.159	0.019	0.0	0.0	0.0	0.039	0.039
3	0.190	0.327	0.417	1.432	0.522	0.150	0.021	0.0	0.0	0.0	0.039	0.042
4	0.158	0.288	0.395	1.250	0.522	0.180	0.015	0.0	0.0	0.0	0.032	0.046
5	0.147	0.287	0.703	1.248	0.522	0.235	0.014	0.0	0.0	0.0	0.026	0.048
6	0.139	0.265	0.892	1.129	0.522	0.171	0.014	0.0	0.0	0.0	0.024	0.045
7	0.140	0.226	0.685	1.026	0.528	0.222	0.018	0.0	0.0	0.0	0.033	0.046
8	0.132	0.231	0.584	0.968	0.558	0.139	0.028	0.0	0.0	0.0	0.046	0.041
9	0.127	0.253	0.594	0.939	0.597	0.132	0.041	0.0	0.0	0.0	0.040	0.039
10	0.220	0.247	0.792	0.939	0.543	0.120	0.050	0.0	0.0	0.0	0.036	0.040
11	0.264	0.266	1.300	0.980	0.472	0.107	0.050	0.0	0.0	0.0	0.035	0.050
12	0.264	0.265	1.986	0.967	0.472	0.091	0.042	0.0	0.0	0.0	0.035	0.058
13	0.471	0.242	1.306	0.939	0.543	0.082	0.035	0.0	0.0	0.0	0.033	0.057
14	1.009	0.233	2.255	0.912	0.459	0.071	0.023	0.0	0.0	0.0	0.035	0.059
15	2.620	0.257	2.728	0.883	0.437	0.063	0.019	0.0	0.0	0.0	0.035	0.068
16	1.464	0.302	2.321	0.858	0.409	0.058	0.014	0.0	0.0	0.001	0.033	0.111
17	1.365	0.264	2.930	0.894	0.339	0.050	0.008	0.0	0.0	0.0	0.035	0.086
18	1.247	0.275	2.300	0.998	0.305	0.042	0.004	0.0	0.0	0.0	0.057	0.063
19	1.100	0.368	1.949	1.014	0.287	0.037	0.003	0.0	0.0	0.001	0.048	0.059
20	0.859	0.288	1.679	0.968	0.256	0.046	0.001	0.0	0.0	0.0	0.044	0.276
21	0.732	0.274	1.544	0.939	0.234	0.048	0.003	0.0	0.0	0.001	0.044	0.195
22	0.685	0.257	1.428	0.870	0.217	0.045	0.001	0.0	0.0	0.001	0.039	0.090
23	0.662	0.247	1.320	0.869	0.208	0.045	0.001	0.0	0.0	0.004	0.040	0.086
24	0.629	0.243	1.250	0.886	0.202	0.037	0.001	0.0	0.0	0.004	0.039	0.086
25	0.541	0.243	1.327	0.859	0.198	0.031	0.0	0.0	0.0	0.003	0.040	0.086
26	0.489	0.247	1.449	0.743	0.202	0.031	0.001	0.0	0.0	0.004	0.039	0.085
27	0.481	0.233	1.408	0.707	0.190	0.032	0.0	0.0	0.0	0.003	0.042	0.078
28	0.404	0.309	1.469	0.662	0.198	0.028	0.001	0.0	0.0	0.005	0.044	0.069
29	0.372		1.493	0.576	0.204	0.024	0.0	0.0	0.0	0.009	0.042	0.071
30	0.355		1.522	0.527	0.210	0.024	0.0	0.0	0.0	0.019	0.039	0.069
31	0.419		1.427		0.198		0.0	0.0		0.027		0.066
MEAN	0.5882	0.2739	1.3876	0.9673	0.3747	0.0892	0.0144	0.0	0.0	0.0027	0.0380	0.0740
INCHES	1.418	0.596	3.346	2.257	0.903	0.208	0.035	0.0	0.0	0.006	0.089	0.178
STA AV	1.681	0.818	1.790	1.731	0.872	0.287	0.053	0.003	0.003	0.032	0.140	0.392

NOTES: To convert CFS to IN/DAY, multiply by 0.077783. STA AV based on 7 yr (1968-74) record period.

REYNOLDS, IDAHO SUMMIT WATERSHED (048077)

LOCATION: Owyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SUMMIT WATERSHED (048077)														
		Jau	Feb	Mar	Apr	May	Juu	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1974	P	0.48	0.20	1.93	0.14	0.14	0.15	0.36	0.11	0.0	1.76	0.30	0.94	6.51														
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
STA AV	P	1.43	0.43	0.94	0.76	0.53	1.32	0.12	0.71	0.61	0.92	1.10	1.09	9.96														
	Q	0.002	0.0	0.0	0.002	0.0	0.009	0.0	0.010	0.0	0.0	0.0	0.0	0.023														

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.
1974		1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0
MAXIMUMS FOR PERIOD OF RECORD																	
		6-19	0.258	6-19	0.059	6-19	0.059	6-19	0.070	6-20	0.070	6-20	0.070	6-19	0.070	8- 9	0.083
		1969		1969		1969		1969		1969		1969		1969		1968	

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barre ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: 'Computed Actual' amounts from 1 rain gage. Station average precipitation amounts are based on 1968-74 period of record. Station average runoff amounts are based on 1967-74 period of record. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1974 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO SUMMIT WATERSHED (048077)													
Day	Jau	Feb	Mar	Apr	May	Juu	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.41	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
2	0.0	0.0	0.18	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0														
3	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														
4	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.12														
5	0.09	0.0	0.04	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
6	0.0	0.0	0.49	0.0	0.0	0.0	0.03	0.10	0.0	0.0	0.0	0.0	0.03														
7	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0														
8	0.0	0.0	0.04	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.0														
9	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.36	0.01	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	0.0														
11	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05														
12	0.02	0.0	0.01	0.04	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15														
13	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														
14	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														
15	0.0	0.0	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09														
16	0.06	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
17	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02														
18	0.14	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0														
19	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														
20	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.04														
21	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
22	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	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	0.09	0.0	0.0	0.0														
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0														
26	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
27	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.36														
28	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0														
29	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.32	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	0.08														
31	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														
TOTAL	0.48	0.20	1.93	0.14	0.14	0.15	0.36	0.11	0.0	1.76	0.30	0.94	6.51														
STA AV	1.43	0.43	0.94	0.76	0.53	1.32	0.12	0.71	0.61	0.92	1.10	1.09	9.96														

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049X61. 'Actual' amounts were computed as per relationship developed by E. R. Hamou, "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 7 yr (1968-74) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.23	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.09	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
3	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.12
5	0.09	0.0	0.01	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.27	0.0	0.0	0.0	0.03	0.10	0.0	0.0	0.0	0.03
7	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0
8	0.0	0.0	0.02	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.34	0.01	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
11	0.0	0.0	0.01	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04
12	0.02	0.0	0.01	0.04	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.13
13	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
14	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07
16	0.06	0.0	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	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
18	0.14	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0
19	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.04
21	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.01	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	0.32	0.0	0.0
24	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
26	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.14
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0
29	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.31	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	0.03
31	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL STA AV	0.48	0.18	1.15	0.14	0.14	0.15	0.34	0.11	0.0	1.65	0.30	0.62

NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.35	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.15	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
3	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.05	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.12
5	0.09	0.0	0.03	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.40	0.0	0.0	0.0	0.03	0.10	0.0	0.0	0.0	0.03
7	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0
8	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.36	0.01	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
11	0.0	0.0	0.01	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
12	0.02	0.0	0.02	0.04	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.14
13	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
14	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08
16	0.06	0.0	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	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
18	0.14	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0
19	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.04
21	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.01	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	0.33	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	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	0.01	0.0
26	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.24
28	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0
29	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.32	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	0.05
31	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL STA AV	0.48	0.19	1.62	0.14	0.14	0.15	0.35	0.11	0.0	1.72	0.30	0.77

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

1974		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO SUMMIT WATERSHED (048077)					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.002	0.0	0.0	0.002	0.0	0.009	0.0	0.010	0.0	0.0	0.0	0.0

NOTES: To convert CPS to IN/DAY, multiply by 0.1161056. STA AV values are based on 8 yr (1967-74) record period.

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
1974	P	6.69	3.75	8.27	3.29	0.73	1.14	1.16	0.21	0.0	2.66	2.63	6.93	37.46
	Q	0.534	0.263	0.816	3.484	12.371	7.774	0.706	0.089	0.044	0.116	0.152	0.171	26.518
STA AV	P	7.75	3.66	4.10	3.06	1.55	2.04	0.59	1.07	1.25	2.77	4.95	6.84	39.63
	Q	0.422	0.325	0.701	2.639	10.556	4.615	0.462	0.084	0.061	0.128	0.236	0.193	20.426

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		8 Days				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1974	5-7	0.043	5-8	0.042	5-8	0.083	5-8	0.234	5-8	0.418	5-8	0.711	5-7	1.377	5-4	4.535

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
6-6	0.062	5-7	0.055	5-7	0.109	5-7	0.308	5-7	0.540	5-7	0.893	5-6	1.741	5-4	6.698
1972		1971		1971		1971		1971		1971		1971			

NOTES: Watershed conditions: Bungalow 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. Pnb. 1226, p. 68.13-4. Records started: Precipitation-1963; Runoff-1966. Precipitation: 'Computed Actual' amounts from one rain gage. Station average precipitation values based on 1968-74 record period. Station average runoff values based on 1966-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1974 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	9	2	25	17	38	22	32	22	52	29	61	41	69	47	79	58	69	52	67	49	29	26	38	28
2	6	2	24	16	22	17	25	20	42	22	66	49	59	40	69	55	65	45	67	43	31	26	42	30
3	8	0	36	22	16	11	26	17	45	31	61	46	71	46	74	52	73	50	51	37	32	24	37	29
4	13	0	29	15	24	11	35	15	51	33	51	42	75	56	76	58	72	53	45	28	36	24	37	25
5	10	1	16	13	30	24	41	26	68	42	49	37	68	49	76	56	67	46	39	22	39	27	28	22
6	19	9	19	9	24	14	31	22	59	44	52	34	60	46	56	51	74	51	51	26	43	28	30	24
7	15	3	24	14	29	14	42	20	61	39	39	26	67	46	65	48	73	58	54	40	44	29	29	20
8	10	0	33	21	27	5	42	32	61	47	55	30	56	40	62	41	70	53	56	43	30	19	36	22
9	16	2	39	21	33	7	38	22	49	33	65	44	49	36	61	41	65	52	45	36	29	20	34	25
10	11	1	45	24	38	22	41	28	78	49	45	34	69	47	59	39	51	35	30	25	34	25	34	23
11	24	6	36	26	39	26	44	23	52	30	73	58	53	33	71	51	51	33	47	33	44	28	31	24
12	29	23	31	24	37	25	24	12	42	22	77	59	62	42	71	53	49	32	53	38	47	40	30	21
13	30	28	31	20	25	16	35	17	34	18	75	56	71	43	60	43	53	35	56	41	47	38	20	17
14	37	29	28	23	34	25	44	22	41	27	79	61	75	60	59	36	61	43	56	39	47	37	28	20
15	41	37	36	24	45	34	49	33	33	18	75	56	74	53	67	47	66	48	62	43	43	31	33	23
16	42	33	33	19	45	38	43	29	29	22	81	56	72	51	73	53	68	49	66	48	45	31	34	31
17	34	24	24	18	38	23	46	33	32	20	81	63	75	54	74	55	60	56	63	48	46	30	31	17
18	36	28	30	18	34	19	48	31	37	20	80	63	77	59	75	56	70	52	62	46	30	25	26	16
19	33	25	29	16	35	14	38	24	38	22	75	44	79	62	50	37	68	51	65	52	29	23	28	21
20	25	12	23	14	33	8	38	22	43	26	61	40	77	59	57	33	68	50	56	26	42	29	34	28
21	20	10	28	17	35	16	47	27	48	29	67	46	80	59	67	47	66	50	27	22	43	32	35	13
22	25	14	17	10	33	21	53	40	54	38	72	53	77	57	69	55	66	51	31	21	31	15	14	11
23	28	22	27	7	34	15	51	31	58	42	79	58	72	53	72	56	66	51	32	25	32	21	14	8
24	34	23	34	14	42	24	40	25	58	42	74	56	75	51	73	56	66	47	37	26	44	30	19	10
25	29	19	38	30	40	30	38	21	64	44	70	51	75	54	77	56	71	54	52	37	41	21	24	14
26	20	15	32	16	43	31	35	19	67	49	63	36	79	58	64	56	61	31	51	43	36	19	27	12
27	27	17	30	16	39	30	31	21	60	40	69	48	78	63	77	59	50	28	47	37	35	20	31	14
28	24	21	38	30	33	26	37	25	52	33	68	49	80	60	76	58	60	40	39	30	30	17	14	7
29	28	22			36	27	50	29	50	36	69	48	77	62	74	56	64	48	39	31	35	22	22	5
30	30	24			37	22	59	37	49	29	79	54	77	53	74	59	65	49	34	30	36	26	18	11
31	29	26			35	18			60	36			78	59	72	56			32	28			23	7
AV.	24	15	30	18	34	20	40	25	49	32	68	48	70	51	69	51	65	47	49	36	38	26	28	19
MEAN	19.7		24.1		27.3		32.2		40.7		58.3		60.8		60.1		55.6		42.6		31.9		23.6	
STA AV	28	19	32	21	33	22	38	23	53	36	63	44	73	54	73	54	61	43	46	32	36	26	28	18

NOTES: Temperature data are taken from hygrothermograph record at station 176K14. STA AV based on 1966-74 record period.

1974 DAILY PRECIPITATION (iuches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.10	1.04	1.73	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0
2	0.0	0.0	0.70	0.16	0.0	0.0	0.0	0.02	0.0	0.0	0.16	0.0
3	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.39	0.66	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.05
5	0.13	0.0	0.30	0.27	0.0	0.76	0.0	0.01	0.0	0.0	0.0	0.0
6	0.31	0.0	1.14	0.18	0.0	0.0	0.09	0.18	0.0	0.0	0.0	0.06
7	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0
8	0.0	0.0	0.09	0.0	0.0	0.0	0.34	0.0	0.0	0.07	0.08	0.0
9	0.0	0.0	0.0	0.08	0.0	0.0	0.62	0.0	0.0	0.64	0.0	0.0
10	0.0	0.0	0.0	0.04	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.20	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94
12	0.97	0.0	0.06	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.70
13	0.78	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
14	0.0	0.02	0.95	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	1.04
15	0.0	0.05	0.11	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.21
16	0.23	0.80	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.10	0.03	0.21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.08	0.39
18	0.54	0.99	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.01
19	0.12	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.38
20	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.04	0.0	1.55
21	0.01	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.26
22	0.12	0.16	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.03	0.08
23	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0
24	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0
25	0.16	0.0	0.20	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.04
26	0.58	0.10	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
27	1.08	0.02	0.17	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.70
28	0.0	0.0	0.08	0.13	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0
29	0.0	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0
30	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43
31	1.47	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.69	3.75	8.27	3.29	0.73	1.14	1.16	0.21	0.0	2.66	2.63	6.93
STA AV	7.75	3.66	4.10	3.06	1.55	2.04	0.59	1.07	1.25	2.77	4.95	6.84

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 176X07. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "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 7 yr (1968-74) record period.

1974 DAILY PRECIPITATION (iuches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.05	0.52	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
2	0.0	0.0	0.34	0.07	0.0	0.0	0.0	0.02	0.0	0.0	0.10	0.0
3	0.0	0.0	0.01	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.23	0.26	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.05
5	0.03	0.0	0.12	0.12	0.0	0.70	0.0	0.01	0.0	0.0	0.0	0.0
6	0.07	0.0	0.62	0.07	0.0	0.0	0.09	0.18	0.0	0.0	0.0	0.06
7	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0
8	0.0	0.0	0.05	0.0	0.0	0.0	0.33	0.0	0.0	0.07	0.05	0.0
9	0.0	0.0	0.0	0.04	0.0	0.0	0.60	0.0	0.0	0.62	0.0	0.0
10	0.0	0.0	0.0	0.04	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.11	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53
12	0.47	0.0	0.03	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.40
13	0.38	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
14	0.0	0.01	0.50	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.59
15	0.0	0.02	0.05	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.12
16	0.16	0.33	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.07	0.01	0.11	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.05	0.22
18	0.40	0.43	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.01
19	0.08	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.26
20	0.03	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.04	0.0	1.08
21	0.01	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.13
22	0.02	0.07	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.02	0.04
23	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0
24	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0
25	0.03	0.0	0.13	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.02
26	0.15	0.05	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
27	0.30	0.01	0.11	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.35
28	0.0	0.0	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0
29	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0
30	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14
31	0.71	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.93	1.68	4.48	1.40	0.56	1.06	1.13	0.21	0.0	2.45	1.66	4.04
STA AV												

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

1974 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.07	0.77	1.16	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0
2	0.0	0.0	0.50	0.11	0.0	0.0	0.0	0.02	0.0	0.0	0.13	0.0
3	0.0	0.0	0.02	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.31	0.44	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.05
5	0.07	0.0	0.20	0.19	0.0	0.73	0.0	0.01	0.0	0.0	0.0	0.0
6	0.16	0.0	0.88	0.12	0.0	0.0	0.09	0.18	0.0	0.0	0.0	0.06
7	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0
8	0.0	0.0	0.07	0.0	0.0	0.0	0.33	0.0	0.0	0.07	0.07	0.0
9	0.0	0.0	0.0	0.06	0.0	0.0	0.62	0.0	0.0	0.63	0.0	0.0
10	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.15	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.73
12	0.70	0.0	0.05	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.55
13	0.57	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
14	0.0	0.01	0.72	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.81
15	0.0	0.04	0.08	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.16
16	0.20	0.54	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.08	0.01	0.16	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.06	0.30
18	0.48	0.69	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.01
19	0.10	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.33
20	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.04	0.0	1.32
21	0.01	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.19
22	0.07	0.12	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.03	0.06
23	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0
24	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0
25	0.09	0.0	0.17	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.03
26	0.35	0.07	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
27	0.65	0.01	0.14	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.52
28	0.0	0.0	0.07	0.08	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0
29	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.45	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	0.26
31	1.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.67	2.61	6.32	2.29	0.65	1.10	1.15	0.21	0.0	2.57	2.16	5.44
STA AV												

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

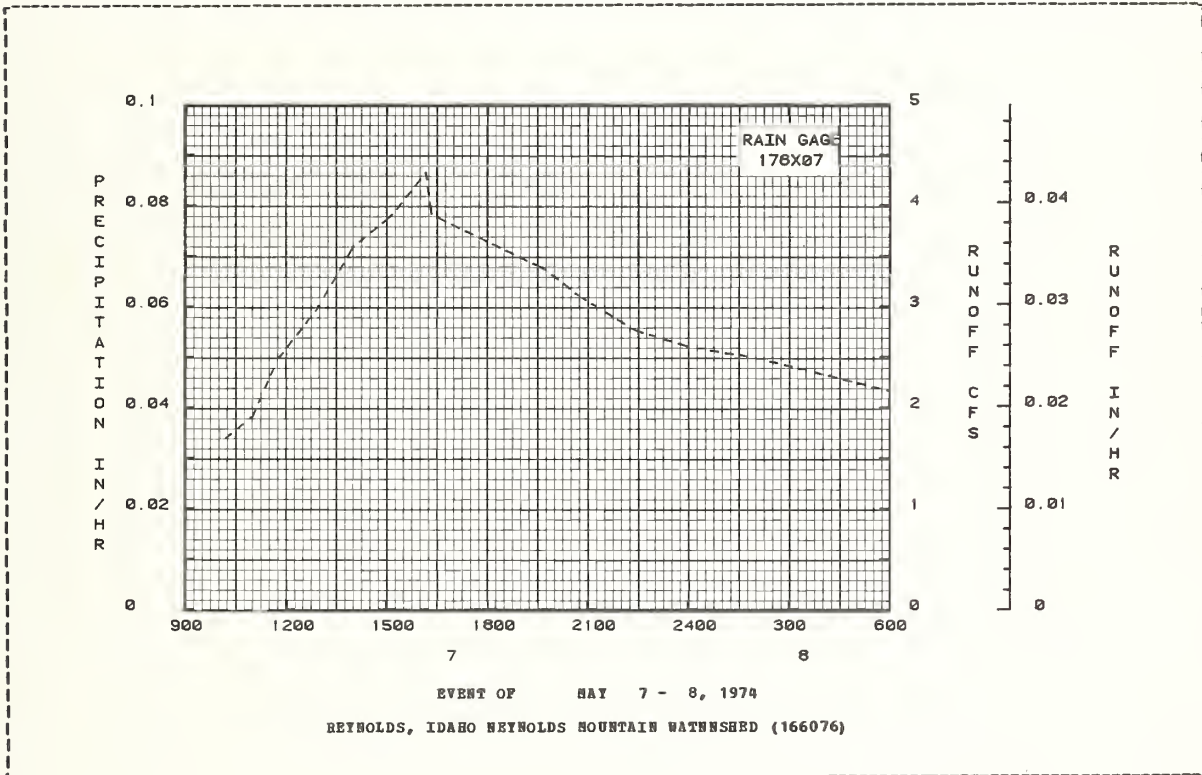
1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.026	0.053	0.033	0.218	1.702	1.684	0.273	0.017	0.006	0.006	0.024	0.019
2	0.026	0.051	0.038	0.195	1.530	1.746	0.235	0.020	0.007	0.006	0.022	0.018
3	0.026	0.051	0.034	0.175	1.612	1.780	0.207	0.017	0.006	0.006	0.022	0.024
4	0.026	0.048	0.034	0.158	1.846	1.797	0.174	0.016	0.006	0.008	0.020	0.026
5	0.026	0.046	0.033	0.142	2.152	2.501	0.158	0.016	0.006	0.009	0.018	0.023
6	0.026	0.046	0.033	0.133	2.173	1.718	0.164	0.026	0.005	0.009	0.018	0.022
7	0.026	0.046	0.032	0.127	2.630	1.383	0.141	0.022	0.006	0.011	0.022	0.022
8	0.026	0.046	0.032	0.127	2.896	1.150	0.171	0.017	0.005	0.010	0.020	0.020
9	0.026	0.045	0.032	0.137	2.699	1.178	0.228	0.016	0.005	0.025	0.019	0.017
10	0.026	0.044	0.032	0.131	2.225	1.202	0.205	0.016	0.007	0.012	0.019	0.016
11	0.026	0.041	0.030	0.124	2.220	1.262	0.145	0.014	0.008	0.012	0.021	0.019
12	0.026	0.038	0.029	0.119	1.844	1.333	0.108	0.013	0.008	0.012	0.027	0.021
13	0.026	0.038	0.029	0.116	1.497	1.245	0.087	0.013	0.009	0.012	0.026	0.023
14	0.026	0.038	0.030	0.123	1.309	1.235	0.073	0.014	0.008	0.011	0.026	0.023
15	0.068	0.037	0.083	0.158	1.163	1.170	0.065	0.013	0.007	0.011	0.024	0.024
16	0.281	0.036	0.147	0.258	1.019	1.136	0.057	0.011	0.006	0.011	0.021	0.024
17	0.261	0.035	0.271	0.508	0.879	1.040	0.050	0.010	0.005	0.012	0.021	0.023
18	0.181	0.035	0.308	0.884	0.758	0.980	0.050	0.010	0.005	0.012	0.013	0.023
19	0.185	0.035	0.210	0.864	0.700	0.899	0.045	0.010	0.005	0.012	0.018	0.022
20	0.139	0.035	0.162	0.694	0.683	0.863	0.040	0.010	0.005	0.013	0.023	0.025
21	0.107	0.034	0.138	0.826	0.746	0.800	0.037	0.009	0.006	0.013	0.029	0.027
22	0.089	0.034	0.120	1.048	0.967	0.767	0.034	0.008	0.006	0.013	0.023	0.026
23	0.078	0.033	0.110	1.292	1.364	0.716	0.032	0.008	0.006	0.013	0.017	0.026
24	0.072	0.033	0.099	1.039	1.561	0.634	0.029	0.007	0.005	0.015	0.020	0.026
25	0.068	0.032	0.097	0.808	1.815	0.529	0.028	0.006	0.005	0.028	0.021	0.026
26	0.062	0.033	0.099	0.646	2.264	0.466	0.025	0.006	0.004	0.021	0.020	0.026
27	0.058	0.032	0.124	0.558	2.341	0.421	0.024	0.006	0.006	0.020	0.019	0.026
28	0.057	0.032	0.141	0.601	2.048	0.379	0.022	0.006	0.007	0.031	0.021	0.025
29	0.057	0.032	0.175	0.952	1.925	0.346	0.022	0.006	0.006	0.062	0.021	0.026
30	0.056	0.032	0.416	1.480	1.721	0.303	0.021	0.006	0.006	0.029	0.020	0.026
31	0.054	0.032	0.276	0.0	1.686	0.0	0.018	0.006	0.006	0.025	0.0	0.025
MEAN	0.0723	0.0395	0.1105	0.4880	1.6766	1.0887	0.0956	0.0120	0.0061	0.0157	0.0212	0.0231
INCBSES	0.534	0.263	0.816	3.484	12.371	7.774	0.706	0.089	0.044	0.116	0.152	0.171
STA AV	0.422	0.325	0.701	2.639	10.556	4.615	0.462	0.084	0.061	0.128	0.236	0.198

NOTES: To convert CPS to IN/DAY, multiply by 0.238017. STA AV based on 9 yr (1966-74) record period.

1974 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)								
ANTICIPATED CONDITIONS			RAINFALL				RUNOFF				
Date	Mainfall	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 MAY 7 - 8, 1974											
5- 7	RG 176X07 0.0	0.191	5- 7	RG 176X07 900	0.0	0.0	5- 7	10 10	1.703	0.0	
								1100	1.917	0.0149	
								1145	2.490	0.0313	
								1255	2.979	0.0630	
								1400	3.598	0.0983	
								1510	3.913	0.1418	
								1610	4.330	0.1826	
								1620	3.913	0.1894	
								1945	3.357	0.3126	
								2045	3.097	0.3446	
								2225	2.764	0.3931	
								2400	2.596	0.4352	
							5- 8	200	2.490	0.4856	
								600	2.158	0.5778	

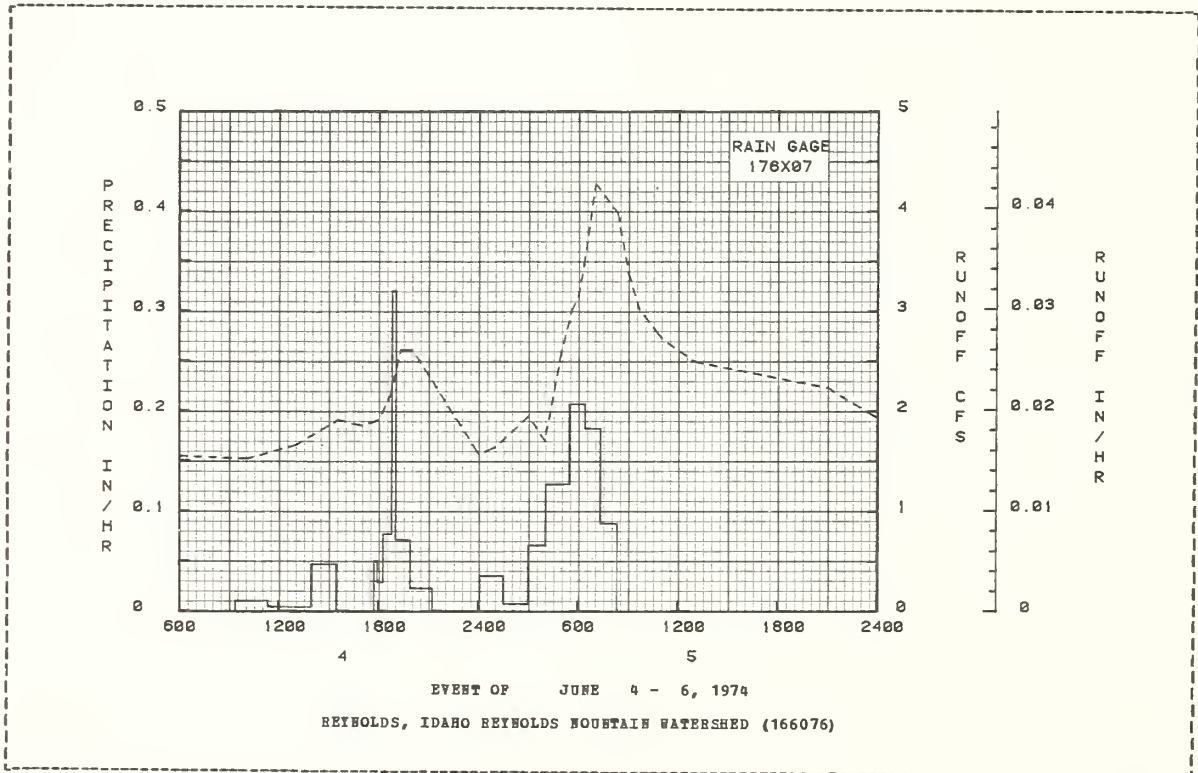
WATERSHED CONDITIONS:
The event is strictly
snowmelt.

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



ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 4 - 6, 1974										
5-4	RG 176X07 0.0	0.099	6-4	RG 176X07 925	0.0	0.0	6-4	600	1.545	0.0
				1122	0.0103	0.02		1000	1.522	0.0609
				1359	0.0038	0.03		1300	1.664	0.1082
				1529	0.0467	0.10		1532	1.907	0.1531
				1745	0.0	0.10		1700	1.849	0.1804
				1757	0.0500	0.11		1800	1.907	0.1990
				1818	0.0286	0.12		1840	2.136	0.2124
				1849	0.0774	0.16		1920	2.615	0.2281
				1904	0.3200	0.24		2000	2.615	0.2454
				1955	0.0706	0.30		2400	1.569	0.3283
			6-5	2115	0.0225	0.33	6-5	100	1.640	0.3442
				6	0.0	0.33		300	1.949	0.3798
				131	0.0353	0.38		400	1.698	0.3979
				300	0.0067	0.39		500	2.615	0.4193
				404	0.0656	0.46		536	3.014	0.4360
				529	0.1271	0.64		600	3.154	0.4482
				624	0.2073	0.83		620	3.469	0.4592
				720	0.1821	1.00		700	4.271	0.4848
				822	0.0871	1.09		820	3.978	0.5393
								900	3.372	0.5636
								940	3.014	0.5847
								1100	2.718	0.6226
								1300	2.490	0.6742
								2100	2.233	0.8616
								2400	1.933	0.9235
							6-6	600	1.679	1.0310

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



EETWOLDS, IDARO LOWER SHEEP CREEK WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles south of Hampa, Idaho; a tributary to Reynolds Creek, a tributary to the Snake River. Lat. 43 deg. 8 miu. 53 sec. N.; Long. 116 deg. 44 miu. 14 sec. W.

AREA: 33.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														EETWOLDS, IDARO LOWER SHEEP CREEK WATERSHED (117066)															
		Jau	Feb	Mar	Apr	May	Juu	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jau	Feb	Mar	Apr	May	Juu	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	1.22	0.19	3.05	0.23	0.25	0.30	0.52	0.15	0.0	2.19	0.82	1.47	10.39															
	Q	0.063	0.001	0.188	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.258															
STA AV	P	2.29	0.82	1.69	1.14	0.75	1.52	0.31	0.72	0.93	1.48	1.62	2.00	15.27															
	Q	0.143	0.035	0.115	0.006	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001	0.303															

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1974		3-15	0.012	3-15	0.011	3-15	0.020	3-15	0.046	3-15	0.056	3-14	0.072	3-14	0.092	3-11	0.162
MAXIMUMS FOR PERIOD OF RECORD																	
		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. 1262, p. 68.014-6. Records began: Precipitation-1963; Runoff-1967. Precipitation: 'Computed Actual' amounts from one rain gage. Station average precipitation amounts are based on 1968-74 record period. Station average runoff amounts are based on 1967-74 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1974 DAILY AIE TEMPERATURE (degrees F)														EETWOLDS, IDARO LOWER SHEEP CREEK WATERSHED (117066)													
Day	Jau		Feb		Mar		Apr		May		Juu		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	13	5	33	25	45	28	43	26	59	35	69	47	74	56	87	66	76	58	68	53	34	30	36	25			
2	10	5	34	24	28	23	38	32	49	29	75	55	78	44	77	61	72	50	71	49	37	30	39	29			
3	12	3	44	35	23	19	39	28	57	35	70	50	78	50	80	57	80	56	59	42	38	28	42	34			
4	11	1	39	21	32	19	46	25	63	40	57	47	83	60	85	62	80	58	51	33	40	29	44	33			
5	9	2	25	16	40	31	51	33	67	47	57	43	74	55	86	67	74	54	45	28	43	33	38	29			
6	16	2	30	13	33	20	42	30	66	51	60	41	67	51	67	57	80	55	55	31	49	36	39	31			
7	21	8	30	21	26	19	49	28	72	51	49	32	72	50	74	53	77	61	63	44	50	34	38	27			
8	11	2	39	24	25	17	54	36	69	55	63	35	63	49	68	46	78	61	62	44	36	26	37	26			
9	13	4	38	27	36	5	48	29	58	41	73	47	58	45	69	47	77	55	51	40	38	27	39	28			
10	15	8	36	26	40	24	44	31	51	35	73	51	54	44	77	52	65	44	55	40	40	31	40	28			
11	19	10	43	22	41	33	50	36	63	35	81	57	63	41	81	55	57	38	53	39	46	32	39	33			
12	36	11	41	28	43	28	34	30	50	29	87	67	71	47	79	58	55	37	58	42	57	46	39	30			
13	37	32	36	27	31	23	44	26	44	25	82	64	78	57	71	50	59	40	62	45	55	41	29	26			
14	45	38	35	25	40	25	53	25	52	35	87	65	84	65	63	44	68	48	59	44	51	41	36	29			
15	49	44	43	31	47	40	55	38	41	27	84	65	85	59	73	49	73	54	63	48	45	34	40	30			
16	50	35	38	27	56	39	54	35	38	27	90	61	82	53	80	55	75	55	67	53	44	33	45	37			
17	39	31	31	25	47	30	59	30	43	27	90	70	79	60	82	58	76	58	69	53	54	30	38	28			
18	44	31	37	26	42	25	59	39	47	29	91	73	85	63	83	57	75	55	68	50	38	30	35	26			
19	39	29	36	23	41	22	49	30	49	27	87	55	85	65	57	45	74	56	65	51	39	30	35	28			
20	29	18	31	22	34	16	50	30	52	33	70	49	85	63	61	41	74	54	63	31	51	31	41	33			
21	24	16	33	23	46	25	58	34	57	35	73	53	84	66	74	50	73	54	33	28	50	39	44	20			
22	32	22	27	16	44	29	64	50	62	45	82	57	83	64	73	60	73	54	38	28	38	23	23	18			
23	35	29	29	15	41	23	62	41	63	47	82	64	78	61	76	59	73	58	38	26	41	30	22	15			
24	39	33	33	21	54	33	50	32	63	47	83	65	82	59	76	60	74	52	42	30	47	36	29	18			
25	37	24	46	25	49	37	41	31	72	50	80	52	80	59	81	60	76	58	57	42	47	28	30	21			
26	27	20	43	34	48	38	45	27	75	53	67	43	84	56	83	62	70	41	55	42	35	24	36	14			
27	31	23	38	29	47	37	41	28	64	47	77	52	85	63	84	65	58	35	53	44	38	25	41	21			
28	31	25	50	40	43	36	51	33	61	39	75	53	87	62	83	64	68	47	44	37	30	23	21	13			
29	38	30			45	33	57	34	60	43	78	51	83	61	81	62	70	54	44	37	33	23	25	10			
30	40	35			46	30	69	44	55	35	86	62	81	55	81	65	69	56	45	36	35	25	26	17			
31	37	31			43	33			61	41			85	65	79	62			39	35			27	13			
AV.	29	20	36	25	41	27	50	32	58	39	76	54	78	56	76	56	72	52	55	40	43	31	35	25			
HEAR	24.2		30.6		33.9		41.2		48.1		65.1		67.1		66.5		61.8		47.5		36.8		30.1				
STA AV	33	23	39	27	43	29	47	31	61	41	69	50	81	60	79	58	67	49	53	37	41	29	33	22			

NOTES: Temperature data taken from hygrothermograph record at Station 127X07. STA AV based on 8 yr (1967-74) record period.

1974 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	0.61	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0
2	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	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	0.08	0.0	0.0	0.0	0.0	0.0	0.0
5	0.05	0.0	0.0	0.09	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0
6	0.01	0.0	0.76	0.0	0.0	0.0	0.15	0.15	0.0	0.0	0.0	0.02
7	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0
8	0.0	0.0	0.07	0.0	0.0	0.0	0.12	0.0	0.0	0.03	0.01	0.0
9	0.0	0.0	0.0	0.01	0.0	0.0	0.21	0.0	0.0	0.45	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	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
12	0.18	0.0	0.13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.23
13	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
15	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02
16	0.06	0.02	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02	0.05
18	0.40	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0
19	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.35
21	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.07
22	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0
25	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.05
26	0.09	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
27	0.03	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.43
28	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.05
29	0.0	0.0	0.26	0.0	0.02	0.0	0.0	0.0	0.0	0.57	0.0	0.0
30	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
31	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.22	0.19	3.05	0.23	0.25	0.30	0.52	0.15	0.0	2.19	0.82	1.47
STA AV	2.29	0.82	1.69	1.14	0.75	1.52	0.31	0.72	0.93	1.48	1.62	2.00

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. R. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IDBS 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 7 yr (1968-74) record period.

1974 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	0.45	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
2	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	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	0.08	0.0	0.0	0.0	0.0	0.0	0.0
5	0.05	0.0	0.0	0.09	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0
6	0.01	0.0	0.52	0.0	0.0	0.0	0.13	0.15	0.0	0.0	0.0	0.02
7	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0
8	0.0	0.0	0.04	0.0	0.0	0.0	0.11	0.0	0.0	0.03	0.01	0.0
9	0.0	0.0	0.0	0.01	0.0	0.0	0.20	0.0	0.0	0.39	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
12	0.10	0.0	0.07	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.14
13	0.03	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
15	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.01
16	0.02	0.02	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.03
18	0.40	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0
19	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.18
21	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.04
22	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0
25	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02
26	0.03	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
27	0.01	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.18
28	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.02
29	0.0	0.0	0.16	0.0	0.02	0.0	0.0	0.0	0.0	0.52	0.0	0.0
30	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03
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
TOTAL	0.83	0.15	2.11	0.23	0.25	0.30	0.47	0.15	0.0	1.94	0.66	0.74
STA AV												

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

1974 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	0.53	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0
2	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	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	0.08	0.0	0.0	0.0	0.0	0.0	0.0
5	0.05	0.0	0.0	0.09	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0
6	0.01	0.0	0.64	0.0	0.0	0.0	0.14	0.15	0.0	0.0	0.0	0.02
7	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0
8	0.0	0.0	0.05	0.0	0.0	0.0	0.12	0.0	0.0	0.03	0.01	0.0
9	0.0	0.0	0.0	0.01	0.0	0.0	0.21	0.0	0.0	0.43	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
12	0.15	0.0	0.10	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.19
13	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
15	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02
16	0.05	0.02	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02	0.04
18	0.40	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0
19	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.26
21	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.05
22	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0
25	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.04
26	0.06	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
27	0.02	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.29
28	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.03
29	0.0	0.0	0.21	0.0	0.02	0.0	0.0	0.0	0.0	0.55	0.0	0.0
30	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05
31	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.04	0.17	2.59	0.23	0.25	0.30	0.50	0.15	0.0	2.09	0.78	1.07
STA AV												

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

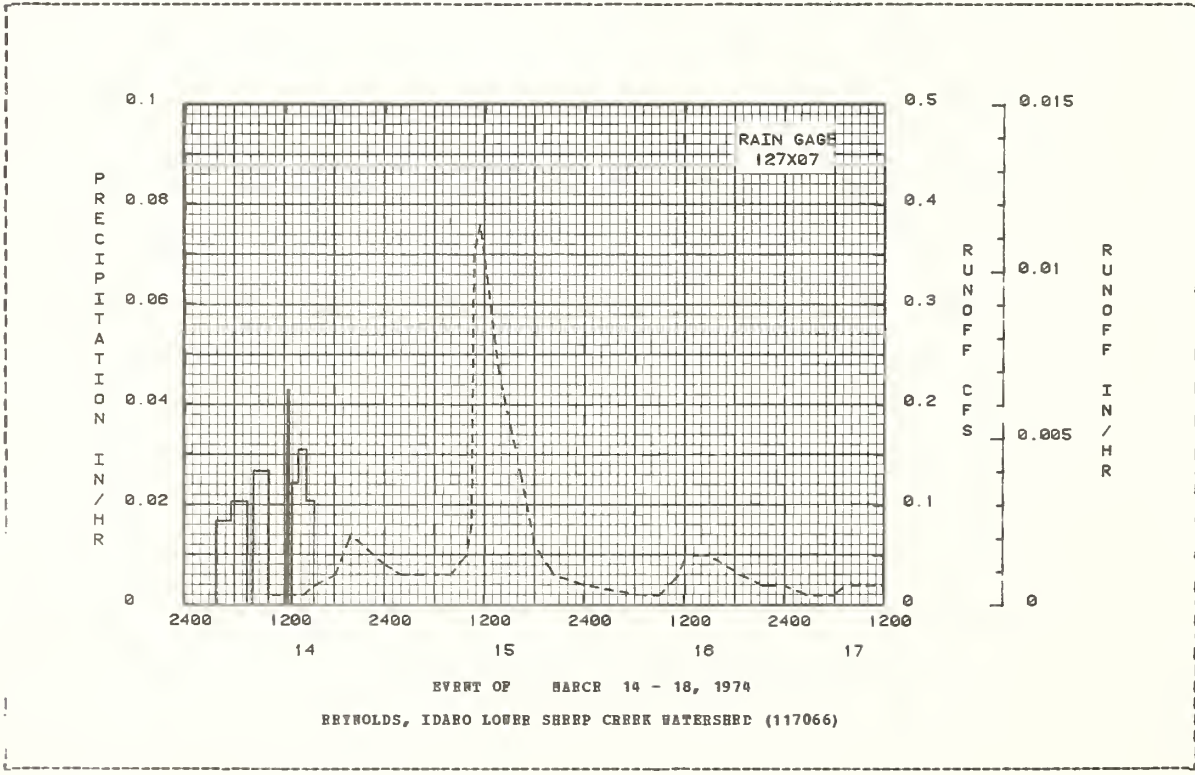
1974 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.001	0.005	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.006	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.002	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	0.001	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	0.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.002	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.040	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.021	0.0	0.095	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.003	0.0	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.002	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.010	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.005	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.001	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 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	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 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0 T	0.001	0.0	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 T	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0028	0.0	0.0084	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.063	0.001	0.188	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.143	0.035	0.115	0.006	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001

NOTES: To convert CFS to IN/DAY, multiply by 0.721262. STA AV based on 8 yr (1967-74) record period.

1974 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 14 - 18, 1974											
3-14	RG 127X07 0.0	0.002	3-14	348	0.0	0.0	3-14	1040	0.006	0.0	
				535	0.0168	0.03		1420	0.013	0.0010	
				731	0.0207	0.07		1550	0.023	0.0018	
				815	0.0	0.07		1810	0.032	0.0037	
				1007	0.0268	0.12		2000	0.068	0.0065	
				1217	0.0	0.12		2400	0.042	0.0132	
				1231	0.0429	0.13	3-15	200	0.034	0.0155	
				1251	0.0	0.13		800	0.032	0.0215	
				1340	0.0245	0.15		955	0.045	0.0237	
				1438	0.0310	0.18		1030	0.084	0.0248	
				1536	0.0207	0.20		1040	0.351	0.0259	
								1125	0.382	0.0342	
								1345	0.233	0.0557	
								1625	0.129	0.0702	
								1805	0.064	0.0751	
								2025	0.032	0.0785	
								2400	0.021	0.0814	
							3-16	635	0.012	0.0847	
								905	0.013	0.0856	
								1120	0.027	0.0870	
								1220	0.054	0.0882	
								1455	0.050	0.0922	
								1900	0.028	0.0970	
								2125	0.021	0.0988	
								2305	0.022	0.0999	
							3-17	2400	0.020	0.1004	
								250	0.014	0.1019	
								600	0.014	0.1032	
								720	0.015	0.1038	
								1210	0.016	0.1061	
								1540	0.025	0.1082	
								1940	0.014	0.1105	
								2400	0.007	0.1119	
							3-18	640	0.004	0.1131	

WATERSHED CONDITIONS:
The event is combined rain and snowmelt.

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, Conster, Beckham, and Roger 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 Sngar 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
1974	Q	0.039	0.038	0.079	0.050	0.189	0.052	0.008	0.126	0.137	0.053	0.268	0.068	1.107
STA AV	Q	0.045	0.037	0.058	0.082	0.130	0.123	0.048	0.044	0.109	0.081	0.093	0.048	0.898

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1974	Maximum Discharge Date	Rate	1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
			Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
11-6	0.001	11-5	0.001	11-5	0.003	11-5	0.008	11-5	0.016	11-5	0.031	11-4	0.059	11-1	0.137			

MAXIMUMS FOR PERIOD OF RECORD																		
9-23	0.004	9-23	0.004	9-23	0.009	9-23	0.026	9-23	0.052	9-23	0.100	9-23	0.188	9-23	0.384			
1965		1965		1965		1965		1965		1965		1965		1965				

NOTES: Watershed conditions not applicable. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Since this is the inflow station to a study reach, precipitation data are not applicable. Runoff records began Oct. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974 MEAN DAILY DISCHARGE (cfs)													CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	130.1	119.8	106.9	140.8	714.5	232.9	58.1	23.9	508.2	294.9	668.4	243.5		
2	123.0	119.4	110.6	139.7	1611.0	188.1	53.7	26.6	377.6	226.8	896.7	233.3		
3	117.4	117.7	109.6	136.7	2554.1	178.4	48.6	31.7	321.8	196.2	859.7	228.5		
4	114.6	119.4	111.6	131.2	2710.5	174.2	44.8	36.5	305.5	176.3	2398.0	225.2		
5	114.3	119.4	113.9	126.2	1502.6	165.9	41.6	41.0	837.7	165.9	2972.0	225.2		
6	113.9	117.0	113.9	125.1	856.0	164.3	39.3	42.9	533.6	162.3	2783.4	228.5		
7	113.6	114.6	113.3	123.3	634.6	174.6	35.3	43.3	391.9	161.9	1549.5	231.4		
8	122.6	113.9	123.4	124.7	511.8	164.8	33.4	44.2	324.2	161.5	1139.9	229.0		
9	117.4	111.9	131.4	123.0	409.0	150.5	31.4	49.8	292.7	157.5	924.9	228.1		
10	112.2	111.6	205.2	125.2	344.5	284.6	28.7	119.9	286.8	147.3	756.4	225.7		
11	111.6	111.9	397.5	140.9	326.1	691.0	25.2	1255.7	272.7	142.7	662.9	228.1		
12	111.6	113.9	805.3	146.2	301.8	391.0	26.0	1154.5	259.9	137.1	604.8	229.0		
13	115.9	114.3	1069.9	157.0	275.9	245.8	25.9	341.7	247.9	131.9	564.7	232.8		
14	141.1	115.0	673.4	336.8	249.0	193.8	23.6	159.3	237.7	131.2	518.2	239.1		
15	139.4	119.5	458.7	354.2	229.1	177.2	21.2	109.6	235.7	132.3	488.3	239.1		
16	129.8	122.6	334.4	242.9	214.1	160.3	19.9	83.8	232.8	143.3	770.1	232.4		
17	128.7	126.2	255.7	202.1	203.2	151.6	18.8	62.9	232.4	171.1	1040.0	225.7		
18	131.2	133.8	222.1	181.8	194.3	140.1	18.7	49.8	233.3	174.7	1020.5	224.3		
19	133.8	139.0	219.2	166.4	178.9	128.4	18.4	48.7	243.1	154.1	1002.0	220.1		
20	134.1	146.9	210.4	164.5	167.2	117.7	16.7	58.9	281.0	140.9	996.5	211.3		
21	133.8	302.8	202.3	190.6	167.6	111.6	16.3	54.2	735.2	133.8	993.0	209.9		
22	131.2	253.4	193.0	179.4	164.7	106.6	15.4	49.1	1352.4	126.2	584.6	209.5		
23	128.3	154.5	187.8	197.6	182.0	103.3	14.4	48.4	928.4	124.0	320.6	206.3		
24	125.1	132.4	178.8	172.8	358.6	97.0	12.6	48.4	619.4	130.5	289.0	202.7		
25	120.5	120.2	172.1	147.8	231.6	82.7	11.5	48.4	505.8	135.3	283.6	199.6		
26	119.8	112.3	168.4	134.9	865.2	74.9	10.6	86.4	547.2	146.2	276.3	198.7		
27	119.8	108.9	165.1	128.3	1038.4	70.5	10.9	205.3	780.6	160.0	267.5	195.6		
28	119.8	106.6	161.9	125.1	488.5	67.8	13.7	2203.1	542.7	176.8	256.9	192.5		
29	119.8		158.3	136.8	351.8	64.4	17.3	2307.2	438.7	179.5	252.4	192.5		
30	119.8		152.4	156.7	287.2	63.1	18.2	2304.8	376.3	255.8	250.9	195.6		
31	119.8		146.2		262.5		21.1	1241.3		295.4		99.1		
MEAN	123.02	132.10	250.72	165.29	599.56	170.57	25.46	399.39	449.44	166.88	879.71	215.57		
INCHES	0.039	0.038	0.079	0.050	0.189	0.052	0.008	0.126	0.137	0.053	0.268	0.068		
STA AV	0.045	0.037	0.058	0.082	0.130	0.123	0.048	0.044	0.109	0.081	0.093	0.048		

NOTES: For daily air temperatures in the vicinity, see table for Watershed #700, (69.007) of this publication. To convert discharge in CFS to IHD/DAI, multiply by 0.0001017. To convert discharge in inches to AC-FT, multiply by 194,983. STA AV based on 14 yr (1961-74) record period.

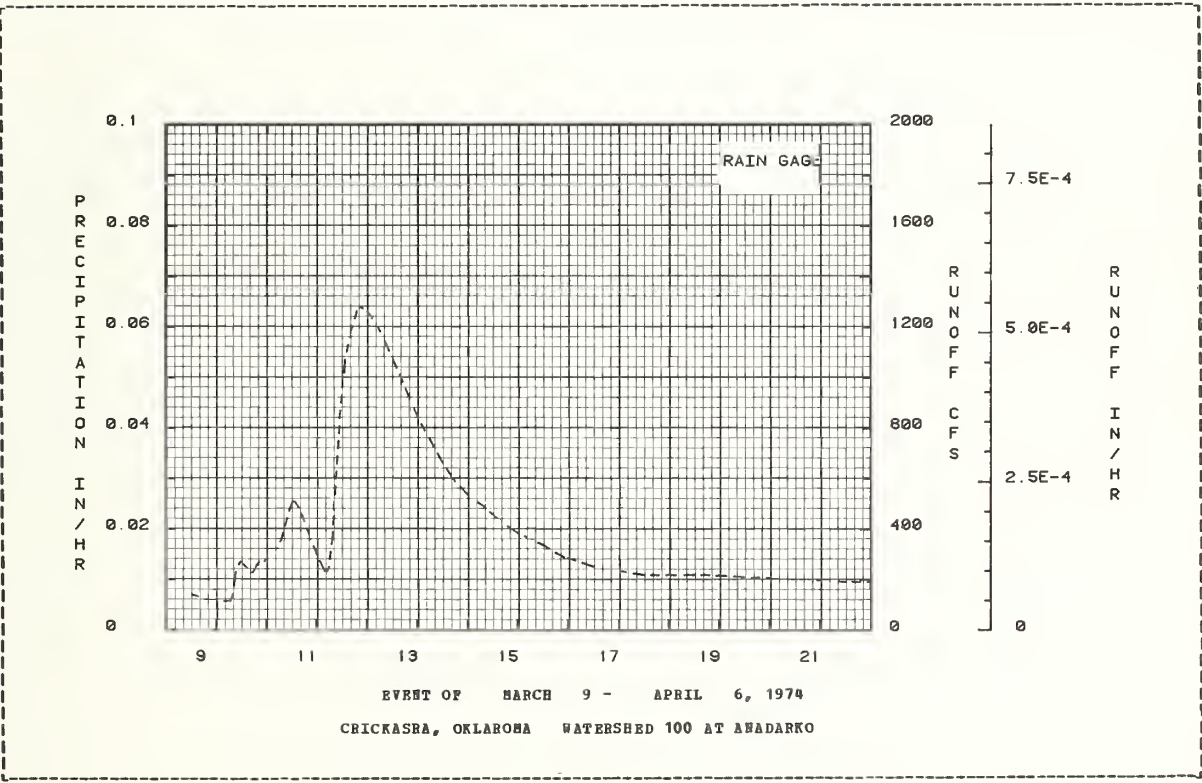
1974 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED 100 AT ABADARKO							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			MARCH 9 - APRIL 6, 1974							
3- 9		0.001					3- 9	1200	140.080	0.0
								2400	114.270	0.0007
							3-10	641	114.450	0.0010
								800	145.320	0.0010
								930	231.760	0.0012
WATERSHED CONDITIONS: Not applicable.								1100	265.490	0.0013
								1148	271.938	0.0014
								1300	259.110	0.0015
								1630	228.040	0.0019
								1730	229.330	0.0020
								2030	272.790	0.0023
								2300	272.600	0.0026
								2400	294.729	0.0027
							3-11	141	324.310	0.0030
								500	324.280	0.0034
								700	358.128	0.0037
								1100	480.000	0.0044
								1230	511.138	0.0047
								1330	508.760	0.0050
								1530	485.438	0.0054
								2000	387.178	0.0062
								2400	300.010	0.0068
							3-12	400	231.310	0.0072
								500	229.120	0.0073
								600	251.470	0.0074
								730	360.260	0.0076
								900	570.860	0.0079
								1100	841.908	0.0085
								1330	1073.280	0.0095
								1600	1177.148	0.0107
								1900	1264.758	0.0123
								2100	1278.658	0.0134
								2200	1274.398	0.0139
								2400	1260.348	0.0150
							3-13	430	1210.749	0.0173
								900	1133.529	0.0196
								1400	1038.369	0.0219
								1900	942.599	0.0240
								2400	842.090	0.0259
							3-14	600	752.958	0.0279
								1200	662.158	0.0297
								1800	589.020	0.0313
								2400	536.918	0.0327
							3-15	800	486.830	0.0344
								1600	428.770	0.0360
								2400	384.030	0.0374
							3-16	1200	336.918	0.0392
								2200	288.490	0.0405
								2400	284.500	0.0408
							3-17	1200	251.860	0.0421
								2400	234.575	0.0434
							3-18	1200	217.290	0.0445
								2400	219.150	0.0456
							3-19	1200	221.010	0.0468
								2400	215.475	0.0479
							3-20	1200	209.940	0.0489
								2400	206.325	0.0500
							3-21	1200	202.710	0.0510
								2400	197.400	0.0521
							3-22	1200	192.090	0.0531
								2400	190.350	0.0540
							3-23	1200	188.610	0.0550
								2400	183.485	0.0559
							3-24	1200	178.360	0.0569
								2400	175.015	0.0578
							3-25	1200	171.670	0.0586
								2400	170.025	0.0595
							3-26	1200	168.380	0.0604
								2400	166.745	0.0612
							3-27	1200	165.110	0.0621
								2400	163.490	0.0629
							3-28	1200	161.870	0.0637
								2400	160.270	0.0645
							3-29	1200	158.670	0.0654
								2400	155.510	0.0662

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.

1974 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED 100 AT ANADARKO

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 9 - APRIL 6, 1974 (CONTINUED)										
							3-30	1200	152.350	0.0669
								2400	149.250	0.0677
							3-31	1200	146.150	0.0685
								2400	143.115	0.0692
							4- 1	1200	140.080	0.0699
								2400	140.080	0.0706
							4- 2	1200	140.080	0.0713
								2400	138.585	0.0720
							4- 3	1200	137.090	0.0727
								2400	134.145	0.0734
							4- 4	1200	131.200	0.0741
								2400	128.315	0.0748
							4- 5	1200	125.430	0.0754
								2400	125.430	0.0761
							4- 6	1200	125.430	0.0767
								2400	124.015	0.0773

NOTES: To convert rnoff in CFS to IN/RR, multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.



CRICKASRA, OKLAHOMA WATERSHED 200 AT VERDEN

LOCATION: Washita River above Verden, Okla.; Southwest Central Okla. and Texas Panhandle; in Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Hills Counties, Okla.; and Bempfill, Wheeler, and Gray Counties, Tex.; Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 7, T. 7 N., R. 8 W., lat. 35 deg. 05 min. N., long. 98 deg. 05 min. W.; North edge of Verden, Okla. at county road bridge over Washita River; at river mile 283.4, approximately 8.4 miles upstream from confluence with Ionine Creek.

AREA: 2612500.00 acres 4082.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CRICKASRA, OKLAHOMA WATERSHED 200 AT VERDEN	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1974	P 0.15	2.26	2.39	3.14	4.63	1.75	1.29	5.32	3.34	3.86	2.62	1.33	32.08	
	Q 0.041	0.042	0.086	0.050	0.185	0.053	0.009	0.118	0.133	0.052	0.262	0.069	1.099	
STA AV	P 0.73	0.99	1.77	2.68	3.79	3.25	1.90	2.76	4.50	2.21	1.73	1.02	27.33	
	Q 0.047	0.038	0.056	0.080	0.126	0.123	0.045	0.040	0.101	0.079	0.091	0.050	0.877	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1974	11-6	0.001	11-6	0.001	11-6	0.002	11-6	0.007	11-6	0.015	11-5	0.029	11-5	0.055	11-2	0.132
MAXIMUMS FOR PERIOD OF RECORD																
	5-6	0.002	5-7	0.002	9-24	0.005	9-24	0.019	9-24	0.038	9-24	0.075	9-24	0.141	9-21	0.344
	1969		1969		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: For area between stations 100 and 200 and not included above subwatersheds as determined from a revised 1974 survey; Sowed crop - 32%; row crop - 4%; alfalfa - 6%; pasture and range - 46%; and miscellaneous - 12%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 65 rain gages for the reach between stations at Anadarko and Verden. Precipitation records began Oct. 1961; Runoff records began Sept. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, OK.

1974 DAILY PRECIPITATION (inches)													CRICKASRA, OKLAHOMA WATERSHED 200 AT VERDEN	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.02	0.0	0.0	0.0	1.45	0.0	0.0	0.09	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	0.32	0.0	1.57	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.48	0.02	0.07	0.0	0.0	0.46	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.01	0.49	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	0.28	0.0	0.0	0.0	0.02		
6	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.02	0.0	0.19	0.0	0.05		
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02	0.10	0.0		
8	0.0	0.0	0.83	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.08	0.0	0.04	0.0	0.0	0.0	0.0	2.04	0.0	0.0	0.33	0.0		
10	0.0	0.0	1.25	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.09	0.63		
11	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21		
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	0.33	0.0	0.0		
14	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0		
15	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.0		
20	0.0	1.73	0.27	0.31	0.01	0.0	0.0	0.0	0.27	0.0	0.0	0.0		
21	0.0	0.31	0.0	0.0	1.00	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	0.16	0.0	0.04	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.15	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.04	1.11	0.86	0.0	0.0		
25	0.0	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.03	0.18	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.01	0.0	0.0		
27	0.04	0.0	0.0	0.06	0.0	0.0	0.0	1.08	0.0	0.01	0.0	0.0		
28	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.68	0.0	0.0		
29	0.0	0.0	0.0	1.66	0.0	0.0	0.78	0.0	0.0	0.0	0.07	0.0		
30	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.16	0.0	0.28		
31	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0	0.0	0.16	0.0	0.14		
TOTAL	0.15	2.26	2.39	3.14	4.63	1.75	1.29	5.32	3.34	3.86	2.62	1.33		
STA AV	0.73	0.99	1.77	2.68	3.79	3.25	1.90	2.76	4.50	2.21	1.73	1.02		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 65 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	149.3	133.1	135.7	156.9	496.2	287.6	65.3	21.4	736.9	354.3	458.6	285.4
2	141.4	130.7	133.7	152.0	1805.7	221.8	60.0	24.2	477.3	267.8	1140.4	274.0
3	135.2	129.2	135.2	148.9	2260.0	195.4	55.8	24.8	360.0	245.4	1065.3	264.0
4	134.4	127.7	134.6	145.2	2844.6	190.9	55.3	26.4	319.2	222.9	2158.7	257.1
5	134.4	125.3	134.7	142.1	1984.4	176.6	51.4	30.8	597.2	202.3	2902.4	251.9
6	134.4	123.1	136.2	138.5	1112.6	181.2	46.8	37.4	703.0	189.8	3158.9	248.0
7	134.4	122.5	132.9	135.5	760.3	175.1	41.8	39.2	488.4	183.5	2046.6	249.4
8	134.4	120.4	157.0	132.4	600.5	240.3	38.0	40.9	409.1	180.0	1242.6	247.0
9	134.4	119.2	293.9	132.6	480.1	293.8	37.1	44.3	364.4	175.1	963.3	244.3
10	134.4	118.9	295.7	130.8	417.8	232.8	34.3	487.5	345.9	166.0	827.5	247.8
11	134.4	117.9	641.3	176.6	380.5	577.9	31.5	696.3	334.3	157.4	770.2	264.7
12	134.4	117.8	650.6	172.6	350.4	521.8	31.4	1368.7	313.5	149.3	726.7	268.9
13	136.6	117.8	1158.7	158.4	311.3	327.4	33.2	614.7	288.7	143.0	693.3	263.4
14	149.6	117.6	832.4	199.3	285.3	235.7	33.4	266.6	271.5	141.5	641.4	265.1
15	154.3	117.1	584.4	458.6	258.7	196.7	32.6	165.5	263.2	143.0	594.0	266.3
16	168.5	120.3	441.9	340.6	233.6	180.6	31.1	105.5	263.2	143.0	639.4	263.2
17	167.6	123.8	332.5	244.6	217.1	169.0	28.9	78.7	261.7	156.3	1032.1	257.3
18	165.8	125.8	268.6	197.9	205.1	166.2	26.7	63.0	260.2	176.6	1074.3	253.6
19	164.4	131.1	246.9	173.4	190.4	150.4	24.5	55.7	270.4	168.5	1066.9	249.4
20	162.7	139.3	245.7	165.6	175.7	133.2	21.9	54.9	294.2	155.0	1041.5	241.3
21	160.1	604.3	248.0	184.3	172.1	124.3	19.8	61.9	484.6	144.4	1034.2	236.8
22	157.4	399.1	246.0	195.2	186.3	118.0	17.6	54.3	1151.9	138.5	856.6	231.5
23	154.4	267.9	237.8	175.0	180.2	112.7	16.3	51.1	1199.4	135.2	439.7	230.1
24	150.7	201.0	231.1	209.8	301.1	104.7	12.8	53.1	779.8	138.7	358.6	226.2
25	147.9	169.0	218.9	162.6	422.2	87.1	12.1	79.0	616.2	150.5	325.4	222.8
26	146.1	153.8	209.9	147.3	589.9	81.6	11.6	79.4	529.2	150.1	312.5	220.4
27	142.5	144.2	199.7	140.0	1242.7	78.9	11.2	129.7	748.3	163.1	312.9	222.0
28	139.7	138.6	190.9	135.9	729.3	74.4	11.5	1473.0	639.5	184.8	308.3	219.6
29	137.2		184.2	171.6	447.9	71.6	14.2	2374.1	477.1	188.1	300.3	216.9
30	135.9		175.8	267.1	341.1	68.1	18.6	2536.9	406.1	207.9	294.1	218.5
31	135.4		166.9		339.2		19.5	1814.6		393.4		114.2
MEAN	145.55	162.74	303.29	183.05	655.54	192.53	30.51	417.85	488.47	184.37	959.55	242.62
INCHES	0.041	0.042	0.086	0.050	0.185	0.053	0.009	0.118	0.133	0.052	0.262	0.069
STA AV	0.047	0.038	0.056	0.080	0.126	0.123	0.045	0.040	0.101	0.079	0.091	0.050

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000009111. To convert discharge in inches to AC-FT, multiply by 217,708. STA AV based on 14 yr (1961-74) record period.

1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN												
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 8 - APRIL 5, 1974												
3- 8		0.001					3- 8	1100	127.900	0.0		
								1611	130.700	0.0003		
								1630	138.300	0.0003		
								1723	144.700	0.0003		
								1811	178.200	0.0004		
WATERSHED CONDITIONS:									1841	250.500	0.0004	
For area not included above									1900	253.700	0.0004	
subwatersheds as determined									1918	247.400	0.0005	
from a revised 1974 survey;									1930	241.700	0.0005	
sowed crop - 32%; row crop -									2030	223.100	0.0006	
4%; alfalfa - 6%; pasture									2053	222.300	0.0006	
and range - 46%; and mis-									2141	223.800	0.0007	
cellaneous - 12%.									2230	236.000	0.0007	
							2400	276.198	0.0009			
							3- 9	130	327.500	0.0011		
								300	358.000	0.0013		
								430	366.600	0.0015		
								630	365.198	0.0018		
								730	355.600	0.0019		
								1030	318.500	0.0023		
								1500	265.000	0.0028		
								1900	236.100	0.0032		
								2400	214.200	0.0036		
								630	190.100	0.0041		
								900	190.700	0.0043		
								1130	196.900	0.0044		
								1330	202.400	0.0046		
								1430	228.500	0.0047		
								1500	278.600	0.0047		
								1523	286.198	0.0048		

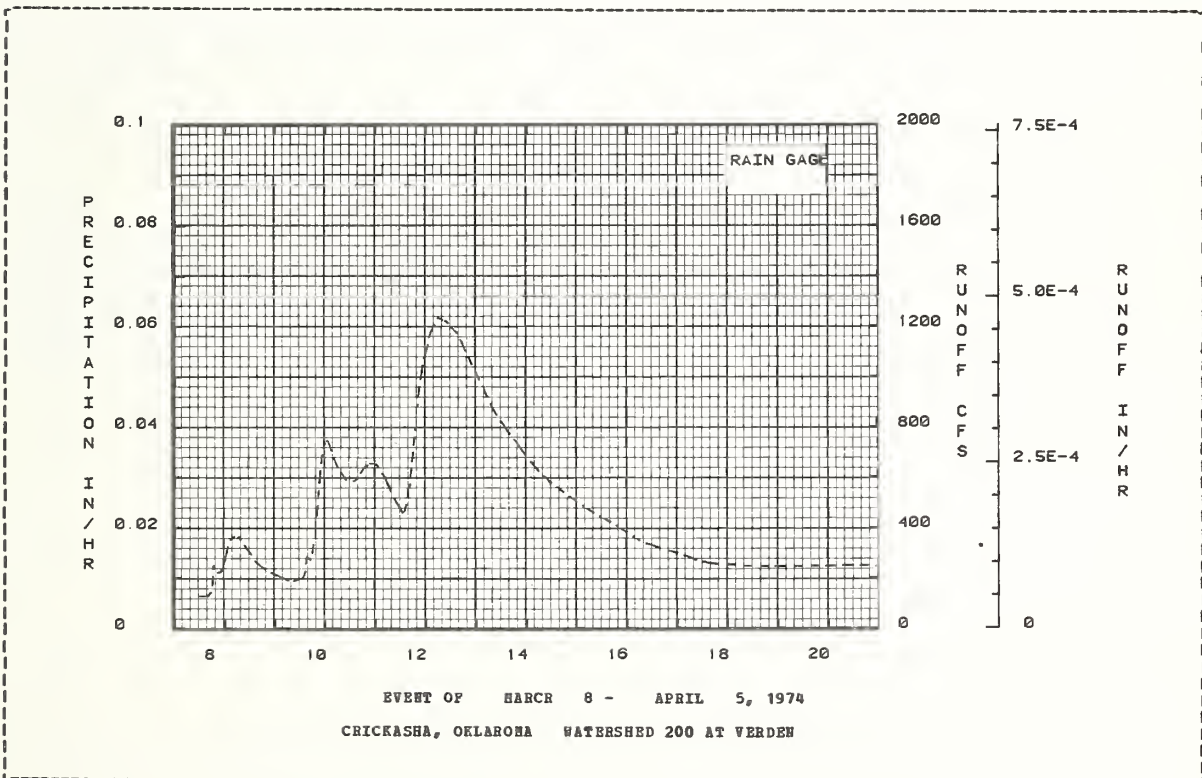
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN							
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 8 - APRIL 5, 1974 (CONTINUED)										
							3-10	1553	281.000	0.0048
								1700	273.398	0.0049
								1800	304.600	0.0050
								1930	391.600	0.0052
								2030	491.698	0.0054
								2130	599.800	0.0056
								2230	690.198	0.0059
								2318	722.999	0.0061
								2400	739.198	0.0063
							3-11	100	746.600	0.0065
								130	742.598	0.0067
								200	734.198	0.0068
								300	707.898	0.0071
								600	643.298	0.0079
								1000	591.300	0.0088
								1400	586.898	0.0097
								1500	595.000	0.0099
								1900	643.599	0.0109
								2030	651.698	0.0112
								2130	656.898	0.0115
								2400	653.799	0.0121
							3-12	30	651.898	0.0122
								130	640.398	0.0125
								430	600.198	0.0132
								730	547.698	0.0138
								1000	500.600	0.0143
								1300	460.398	0.0149
								1400	465.898	0.0151
								1500	492.398	0.0152
								1630	575.000	0.0155
								1800	701.100	0.0159
								1930	831.599	0.0163
								2100	961.300	0.0168
								2230	1045.498	0.0174
								2400	1098.498	0.0180
								230	1180.198	0.0191
							3-13	600	1235.499	0.0207
								800	1225.998	0.0216
								930	1222.099	0.0223
								1030	1213.698	0.0228
								1200	1198.798	0.0235
								1500	1173.099	0.0248
								1900	1104.299	0.0266
								2400	1014.198	0.0286
							3-14	400	945.698	0.0301
								800	872.198	0.0314
								1200	821.698	0.0327
								1600	773.998	0.0339
								2000	731.799	0.0351
								2400	683.498	0.0362
								600	625.300	0.0376
							3-15	1200	578.000	0.0390
								1800	540.500	0.0403
								2400	503.800	0.0415
								800	459.800	0.0429
								1600	423.198	0.0443
								2400	381.800	0.0455
								600	347.898	0.0463
							3-17	1600	317.100	0.0476
								2400	299.198	0.0485
								900	271.500	0.0495
								1500	258.198	0.0501
								2000	253.400	0.0506
								2400	251.900	0.0510
								1200	245.300	0.0521
								2400	245.300	0.0532
							3-20	1200	245.300	0.0543
								2400	246.950	0.0555
								1200	248.600	0.0566
								2400	247.800	0.0577
								1200	247.000	0.0588
								2400	242.100	0.0600
								1200	237.200	0.0610
								2400	234.750	0.0621
								1200	232.300	0.0632

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

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 8 - APRIL 5, 1974 (CONTINUED)										
							3-24	2400	225.200	0.0642
							3-25	1200	218.100	0.0652
								2400	214.200	0.0662
							3-26	1200	210.300	0.0672
								2400	204.900	0.0681
							3-27	1200	199.500	0.0690
								2400	195.000	0.0699
							3-28	1200	190.500	0.0708
								2400	187.550	0.0717
							3-29	1200	184.600	0.0725
								2400	180.200	0.0734
							3-30	1200	175.800	0.0742
								2400	171.500	0.0750
							3-31	1200	167.200	0.0757
								2400	161.600	0.0765
							4- 1	1200	156.000	0.0772
								2400	153.900	0.0779
							4- 2	1200	151.800	0.0786
								2400	150.450	0.0793
							4- 3	1200	149.100	0.0800
								2400	147.050	0.0807
							4- 4	1200	145.000	0.0813
								2400	143.650	0.0820
							4- 5	1200	142.300	0.0826
								2400	140.300	0.0833

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



CRICKASRA, OKLAHOMA WATERSRD 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 Hills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--SR1/4 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 H. R. Bailey Turnpike bridge over Washita River at river mile 256.5, approximately 1.3 miles downstream from confluence of Line Creek.

AREA: 2768000.00 acres 4325.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSRD 500 NEAR CHICKASHA							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974 P	0.10	1.80	3.50	3.48	4.57	1.46	1.83	4.19	2.98	4.22	1.92	1.43	31.48
Q	0.042	0.048	0.122	0.056	0.201	0.064	0.012	0.106	0.132	0.057	0.255	0.076	1.170
STA AV P	0.79	1.07	1.78	2.86	3.79	3.09	1.84	2.81	3.86	2.41	1.92	0.95	27.17
Q	0.040	0.033	0.058	0.089	0.136	0.099	0.039	0.039	0.090	0.073	0.081	0.046	0.825

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval													
		1 Hour		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.
1974	3-11 0.001	3-10 0.001	3-10 0.002	3-10 0.007	3-10 0.013	11- 6 0.025	11- 5 0.049	11- 2 0.132							

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
4-12 1967	0.003	5-29 1970	0.002	4-12 1967	0.005	4-12 1967	0.015	5- 7 1969	0.029	5- 6 1969	0.055	5- 6 1969	0.102	5- 5 1969	0.329

NOTES: Watershed conditions: For area between stations 200 and 500 and not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 35%; row crop - 4%; alfalfa - 5%; pasture and range - 48%; and miscellaneous - 8%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 1216, p. 69.7-21, (Composite). The station at Chickasha (4th St.) watershed 400 was discontinued in 1967, therefore, causing a new Thiessen weighted average for this watershed. Precipitation data obtained from a Thiessen weighted average of 40 gages for the reach between Verden (200) and Chickasha (500). Precipitation records began Oct. 1961; runoff records began Jan. 1964. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	1.36	0.0	0.0	0.21	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	0.50	0.0	0.90	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.07	0.0	0.0	0.40	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.03	0.61	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	0.01	0.0	0.0	0.0	0.07	
6	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.01	0.0	0.14	0.0	0.02	
7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.05	0.07	0.0	
8	0.0	0.0	1.83	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.07	0.0	0.02	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.31	0.0	
10	0.0	0.0	1.39	0.0	0.0	0.0	0.0	1.44	0.0	0.0	0.17	0.71	
11	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.09	0.0	0.0	
14	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.15	0.0	0.0	
15	0.0	0.06	0.0	0.0	0.0	0.0	0.03	0.0	0.51	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.01	0.0	0.0	0.0	
18	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	
20	0.0	1.10	0.24	0.32	0.01	0.0	0.0	0.0	0.22	0.0	0.0	0.0	
21	0.0	0.56	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.02	0.0	0.0	0.02	0.0	0.01	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.20	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.07	1.14	0.90	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.06	0.65	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.02	0.0	0.0	
27	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.46	0.0	0.06	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.68	0.0	0.0	
29	0.0	0.0	0.0	1.93	0.0	0.0	1.19	0.0	0.0	0.0	0.07	0.0	
30	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.25	0.0	0.24	
31	0.0	0.0	0.0	0.0	1.88	0.0	0.0	0.0	0.0	0.23	0.0	0.19	
TOTAL	0.10	1.80	3.50	3.48	4.57	1.46	1.83	4.19	2.98	4.22	1.92	1.43	
STA AV	0.79	1.07	1.78	2.86	3.79	3.09	1.84	2.81	3.86	2.41	1.92	0.95	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 40 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

1974		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 500 NEAR CHICKASHA			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	146.5	145.6	152.6	187.6	768.7	804.7	73.8	31.7	1179.8	426.1	459.8	333.0	
2	144.2	145.4	147.2	177.7	2282.4	406.2	70.5	28.4	638.8	340.5	1180.1	328.5	
3	142.8	145.4	144.4	171.4	1985.3	310.8	66.1	30.5	463.0	280.8	1807.8	322.2	
4	142.6	145.2	143.7	166.8	2578.9	281.7	70.4	30.5	372.9	257.5	1718.1	320.0	
5	142.6	143.8	141.6	162.3	2500.2	232.6	66.3	31.9	344.2	233.1	2471.5	319.7	
6	142.8	141.6	141.2	156.6	1442.0	221.4	59.5	34.4	769.5	210.4	2923.0	319.5	
7	144.2	141.2	140.9	150.7	934.8	362.7	50.7	41.2	541.8	196.0	2618.7	318.0	
8	146.8	141.1	228.3	150.7	725.0	240.3	47.3	44.4	413.0	188.2	1556.1	315.7	
9	148.9	140.0	1749.2	149.6	585.4	441.2	43.4	59.5	356.5	184.0	1121.6	312.4	
10	146.8	139.9	1137.6	149.5	479.6	293.9	42.8	720.8	321.8	176.6	935.0	318.4	
11	144.4	139.7	2068.6	224.3	410.8	321.7	42.5	718.6	311.3	165.4	828.3	329.6	
12	144.0	138.7	751.3	243.4	379.7	712.7	40.4	1224.1	296.9	154.8	720.8	343.9	
13	146.1	138.5	990.1	185.6	363.2	465.5	39.9	979.8	281.1	150.2	662.8	340.0	
14	161.1	138.7	1001.0	164.5	334.9	300.8	39.3	425.3	265.2	149.6	622.1	326.7	
15	179.2	139.7	706.0	255.7	309.4	228.4	39.7	246.7	257.0	150.2	573.9	321.3	
16	195.3	140.6	537.3	389.6	285.5	198.5	37.8	170.2	263.3	153.3	538.9	315.3	
17	177.6	145.2	434.0	293.0	258.5	182.4	33.9	122.6	256.8	155.7	796.8	304.5	
18	166.6	148.9	362.5	241.2	245.6	173.2	30.9	97.8	253.0	168.0	992.1	295.7	
19	165.4	149.1	307.6	212.0	232.0	170.9	27.4	81.7	254.3	176.8	997.3	282.8	
20	165.9	157.5	289.9	192.2	212.9	138.4	23.1	70.8	267.7	165.8	995.4	276.6	
21	168.6	683.3	282.1	280.6	198.1	131.0	20.5	68.1	290.7	154.6	995.7	264.9	
22	165.7	602.0	276.0	232.2	193.7	125.0	19.1	73.1	851.5	148.2	978.9	255.7	
23	164.1	409.9	259.5	214.3	198.5	118.8	18.6	60.9	1374.7	144.6	624.1	246.6	
24	163.7	273.4	244.6	209.7	200.6	115.1	17.0	57.1	948.9	151.9	427.6	240.9	
25	162.5	214.9	240.1	206.1	411.5	116.6	16.1	60.6	674.1	159.6	383.9	235.4	
26	161.0	188.4	231.8	178.9	526.8	70.4	12.3	85.3	544.2	259.8	367.2	234.2	
27	159.4	170.7	225.1	166.7	1029.6	73.5	9.3	105.8	629.0	170.6	351.9	231.8	
28	156.7	160.0	219.4	156.6	939.7	77.4	6.0	408.0	845.4	215.9	344.3	231.2	
29	153.7	209.7	190.1	523.2	75.5	11.3	1981.8	600.3	260.1	335.0	230.0	230.0	
30	149.8	203.1	702.3	408.8	74.4	206.9	2160.0	489.2	209.9	331.4	230.6	230.6	
31	147.0	197.5	1395.5	1395.5	1395.5	62.9	2109.0	62.9	2109.0	652.1	117.3	117.3	
MEAN	156.33	198.87	456.89	218.72	752.91	248.86	43.41	398.73	511.85	213.23	988.67	285.88	
INCHES	0.042	0.048	0.122	0.056	0.201	0.064	0.012	0.106	0.132	0.057	0.255	0.076	
STA AV	0.040	0.033	0.058	0.089	0.136	0.099	0.039	0.039	0.090	0.073	0.081	0.046	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000008599. To convert discharge in inches to AC-FT, multiply by 230,667. STA AV based on 11 yr (1964-74) record period.

1974		SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA			WATERSHED 500 NEAR CHICKASHA		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 8 - APRIL 5, 1974												
3- 8		0.001					3- 8	1630	137.140	0.0		
								1800	146.040	0.0001		
								1848	183.070	0.0001		
								1930	254.220	0.0002		
								2000	281.030	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 - 48%; and miscellaneous - 8%.												
								2048	319.760	0.0003		
								2130	405.458	0.0004		
								2200	534.010	0.0005		
								2218	634.800	0.0005		
								2241	769.458	0.0006		
								2300	905.178	0.0007		
								2318	1031.578	0.0008		
								2341	1201.638	0.0010		
								2400	1355.969	0.0011		
							3- 9	18	1502.368	0.0013		
								30	1614.478	0.0014		
								48	1734.878	0.0016		
								106	1883.369	0.0018		
								130	2063.638	0.0020		
								153	2222.539	0.0023		
								218	2338.908	0.0027		
								253	2503.568	0.0032		
								330	2648.479	0.0037		
								411	2764.148	0.0044		
								500	2862.239	0.0052		
								530	2881.218	0.0057		
								600	2872.999	0.0063		
								630	2848.769	0.0068		
								700	2816.860	0.0073		
								730	2750.578	0.0078		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00000038583. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

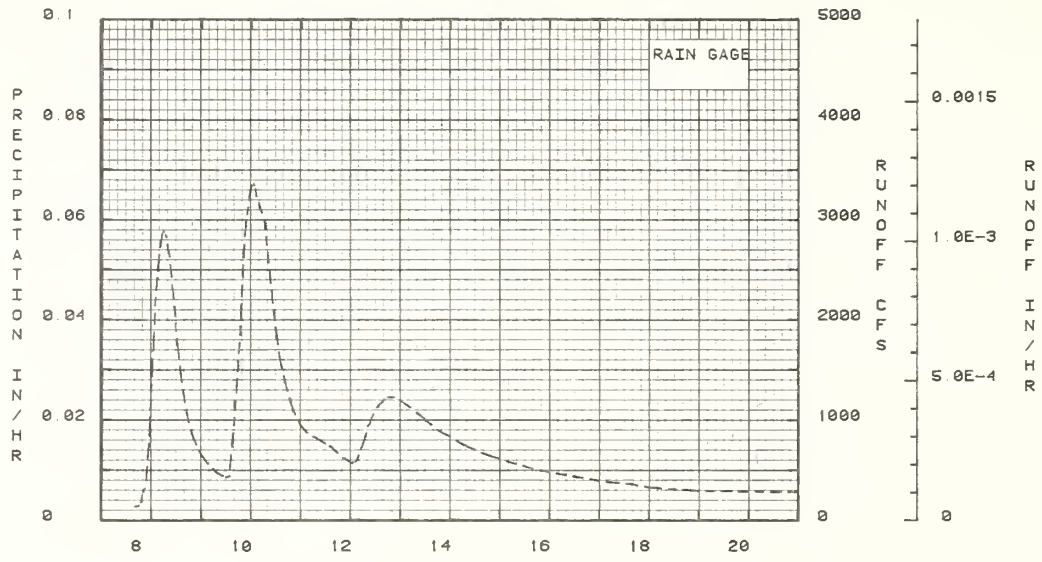
1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 500 NEAR CHICKASHA				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 8 - APRIL 5, 1974 (CONTINUED)										
							3- 9	830	2623.339	0.0087
								930	2421.378	0.0096
								1030	2199.628	0.0105
								1111	2034.269	0.0110
								1148	1879.818	0.0114
								1230	1747.349	0.0119
								1311	1608.579	0.0123
								1400	1484.638	0.0127
								1441	1372.340	0.0131
								1530	1241.398	0.0135
								1600	1173.288	0.0137
								1700	1065.508	0.0141
								1800	969.279	0.0144
								1930	860.628	0.0149
								2130	751.799	0.0155
							3-10	2400	649.448	0.0161
								300	562.708	0.0168
								700	478.790	0.0175
								1030	438.790	0.0181
								1200	427.300	0.0183
								1336	440.360	0.0186
								1400	539.240	0.0187
								1430	655.330	0.0188
								1500	771.398	0.0189
								1530	867.568	0.0190
								1611	1025.728	0.0193
								1641	1195.039	0.0195
								1711	1337.438	0.0197
								1741	1514.548	0.0200
								1811	1695.318	0.0203
								1841	1858.869	0.0206
								1906	2078.808	0.0209
								1930	2268.469	0.0212
								2000	2467.048	0.0216
								2030	2677.928	0.0221
								2100	2859.158	0.0226
								2130	2987.678	0.0231
								2200	3048.600	0.0236
								2300	3241.478	0.0247
								2400	3342.238	0.0259
							3-11	100	3364.308	0.0271
								130	3338.309	0.0277
								200	3304.378	0.0283
								230	3231.789	0.0289
								400	3133.898	0.0306
								630	2973.239	0.0333
								730	2745.408	0.0344
								830	2562.520	0.0353
								930	2360.908	0.0362
								1030	2163.928	0.0370
								1118	1990.979	0.0376
								1200	1889.599	0.0381
								1300	1745.968	0.0387
								1400	1605.268	0.0393
								1500	1499.208	0.0399
								1618	1398.008	0.0406
								1730	1283.638	0.0412
								1900	1180.188	0.0418
								2130	1047.778	0.0428
								2400	940.678	0.0437
							3-12	300	871.658	0.0447
								600	829.158	0.0456
								1200	759.109	0.0473
								1400	736.628	0.0478
								1800	665.490	0.0488
								2100	613.340	0.0495
								2400	572.990	0.0502
							3-13	30	566.350	0.0503
								100	570.979	0.0504
								230	586.388	0.0507
								400	643.398	0.0510
								600	762.079	0.0515
								730	867.208	0.0519
								900	956.349	0.0524
								1100	1060.809	0.0532

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.

1974 SELECTED RUHOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA

ANTECEDENT CONDITIONS			RAINFALL			RUHOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	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 8 - APRIL 5, 1974 (CONTINUED)										
							3-13	1330	1142.618	0.0541
								1630	1208.118	0.0554
								1800	1228.388	0.0561
								1830	1224.509	0.0563
								1930	1222.878	0.0567
								2100	1217.728	0.0574
								2400	1192.458	0.0587
							3-14	500	1116.239	0.0607
								1000	1032.768	0.0627
								1500	946.958	0.0644
								1900	882.028	0.0657
								2400	827.428	0.0673
							3-15	600	757.069	0.0690
								1200	700.259	0.0705
								1800	649.148	0.0720
								2400	607.878	0.0733
							3-16	800	558.678	0.0750
								1600	510.938	0.0765
								2400	476.658	0.0779
							3-17	800	448.780	0.0793
								1600	419.388	0.0805
								2400	390.770	0.0817
							3-18	600	375.938	0.0825
								1500	359.060	0.0837
								2400	328.040	0.0848
								600	315.810	0.0855
								1700	300.000	0.0867
								2400	289.820	0.0874
							3-20	1200	291.610	0.0887
								2400	286.438	0.0899
								1200	281.270	0.0911
								2400	279.560	0.0923
							3-22	1200	277.850	0.0935
								2400	268.560	0.0947
							3-23	1200	259.270	0.0958
								2400	251.000	0.0969
								1200	242.730	0.0980
								2400	241.915	0.0990
							3-25	1200	241.100	0.1001
								2400	236.230	0.1011
								1200	231.360	0.1021
								2400	228.145	0.1031
							3-27	1200	224.930	0.1041
								2400	222.540	0.1050
							3-28	1200	220.150	0.1060
								2400	214.635	0.1069
								1200	209.120	0.1078
								2400	206.010	0.1087
							3-30	1200	202.900	0.1096
								2400	200.585	0.1105
								1200	198.270	0.1113
								2400	192.935	0.1122
							4- 1	1200	187.600	0.1130
								2400	182.360	0.1138
							4- 2	1200	177.120	0.1145
								2400	174.165	0.1153
								1200	171.210	0.1160
								2400	169.015	0.1168
							4- 4	1200	166.820	0.1175
								2400	164.645	0.1182
								1200	162.470	0.1189
							4- 5	2400	159.595	0.1196

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.



EVENT OF MARCH 8 - APRIL 5, 1974
 CHICKASHA, OKLAHOMA WATERSHED 500 NEAR CHICKASHA

CHICKASBA, OKLAHOMA WATERSHED 700 NEAR ALEX

LOCATION: Washita River Watershed above Alex, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Conster, Beckham and Roger Mills Counties, Okla.; and Remphill, 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)													CHICKASBA, OKLAHOMA WATERSHED 700 NEAR ALEX													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual												
1974	P	0.14	1.68	2.16	3.77	3.54	2.02	0.85	5.20	3.90	5.05	1.39	1.46	31.16												
	Q	0.055	0.060	0.146	0.081	0.216	0.079	0.013	0.104	0.123	0.076	0.248	0.079	1.281												
STA AV	P	1.21	1.30	1.86	2.89	4.24	2.46	2.21	2.95	4.29	2.82	1.87	0.99	29.10												
	Q	0.050	0.043	0.068	0.096	0.140	0.145	0.047	0.041	0.097	0.084	0.097	0.054	0.963												
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			Date			Date			Date			Date									
1974		3-11	0.002	3-11	0.002	3-11	0.003	3-11	0.009	3-11	0.017	3-10	0.029	11-5	0.044	4-30	0.132									
MAXIMUMS FOR PERIOD OF RECORD																										
		5-7	0.003	5-7	0.003	5-7	0.006	9-20	0.019	9-20	0.035	5-7	0.064	5-6	0.114	5-5	0.336									
		1969		1969		1969		1962		1962		1969		1969		1969										

NOTES: Watershed conditions: For area between stations 500 and 700 and not included above subwatersheds as determined from a revised 1974 survey; sowed crop - 23%; row crop - 6%; alfalfa - 4%; pasture and range - 56%; and miscellaneous - 11%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 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., and for 77 gages for 1971-74 on the reach from Chickasha to Alex., Okla., for a total period of record (1963-74). For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974 DAILY AIR TEMPERATURE (degrees F)													CHICKASBA, 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	20	12	74	30	79	41	80	49	64	59	76	55	96	66	90	65	90	68	78	46	74	50	38	21	
2	20	12	56	25	80	36	85	47	83	53	83	58	94	72	87	64	69	49	79	47	75	59	51	18	
3	27	13	56	24	79	57	62	36	68	59	86	61	95	74	78	61	68	47	77	54	67	46	54	20	
4	34	11	66	21	72	42	56	33	74	55	87	62	84	66	88	63	71	45	78	62	54	37	58	27	
5	45	16	70	34	74	35	66	27	70	50	89	67	91	61	83	67	76	47	80	62	64	36	55	42	
6	32	15	34	22	83	45	76	38	77	47	87	66	98	65	76	65	78	51	66	49	57	36	52	44	
7	40	16	30	18	80	60	76	45	78	53	78	62	94	66	82	66	82	50	55	49	50	46	53	36	
8	55	19	43	16	74	61	60	36	83	58	96	67	93	66	88	65	82	55	78	50	58	46	38	15	
9	21	14	47	24	75	53	72	30	87	61	81	56	94	68	92	65	84	60	80	50	52	48	52	14	
10	21	14	59	21	56	48	64	51	79	62	86	54	96	73	80	64	85	68	80	48	57	42	42	32	
11	25	11	62	18	67	46	69	53	78	54	90	63	94	70	84	68	92	68	80	60	62	38	41	30	
12	31	9	72	32	55	40	73	42	82	48	81	60	92	69	88	70	74	54	78	60	58	33	56	28	
13	48	22	74	33	55	42	81	45	88	69	86	58	94	68	91	68	68	51	72	56	58	38	55	28	
14	39	32	66	39	69	43	60	39	77	53	96	66	97	67	89	68	74	48	59	46	49	31	53	30	
15	62	27	42	35	60	39	69	35	89	52	94	66	96	68	92	70	73	54	62	38	52	30	44	24	
16	70	30	60	35	58	34	61	39	92	74	84	62	94	64	93	73	66	64	77	38	54	38	44	24	
17	65	34	68	30	72	36	72	37	92	73	78	56	92	70	94	70	71	64	86	42	48	39	56	21	
18	41	35	69	42	82	48	76	55	89	70	97	68	93	68	94	68	72	63	81	48	56	45	48	25	
19	38	32	60	28	53	38	78	62	87	68	95	70	96	67	95	70	73	66	72	45	64	40	54	24	
20	63	30	72	41	42	27	76	62	84	68	96	72	100	71	94	74	70	64	71	43	66	36	53	28	
21	67	28	46	33	42	20	76	52	82	64	98	74	103	71	93	70	70	51	71	46	69	39	57	26	
22	56	30	50	31	66	28	71	47	86	64	91	72	107	74	94	68	70	48	66	51	74	47	68	40	
23	46	29	56	31	33	24	76	42	91	63	80	61	102	72	84	67	61	55	74	50	72	40	59	40	
24	54	21	35	21	40	25	80	41	77	66	80	56	97	73	90	66	55	48	64	59	48	30	40	22	
25	54	20	51	18	48	26	78	53	74	61	79	50	95	72	90	65	70	50	66	59	57	26	36	20	
26	59	30	60	32	65	45	83	60	79	60	80	50	98	68	84	66	76	47	68	53	60	38	35	30	
27	60	25	68	40	77	44	75	64	84	58	81	52	96	62	80	69	83	58	72	53	56	28	47	28	
28	55	32	67	37	85	49	80	64	93	68	90	56	95	63	78	68	68	44	70	58	62	33	54	29	
29	57	24			74	40	71	58	96	72	93	66	97	63	80	64	78	40	79	56	33	18	49	33	
30	69	22			82	36	66	58	90	74	97	68	86	66	85	63	80	44	75	55	34	18	40	31	
31	65	29			94	53			76	60			89	63	90	68			68	54				43	34
AV.	46	22	58	29	67	41	72	47	82	61	87	62	95	68	87	67	74	54	73	51	58	38	49	28	
MEAN	34.5		43.3		53.8		59.5		71.7		74.5		81.6		77.2		64.2		62.1		47.9		38.6		
STA AV	46	25	53	28	61	38	72	49	80	57	88	67	94	71	91	68	82	60	73	49	63	37	52	30	

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 based on records from Sept. 1962 through Dec. 1973. For Chickasha Experiment Station Evaporation Data, see National Weather Service Climatological Data for Oklahoma.

1974 DAILY PRECIPITATION (inches)												
CHICKASHA, OKLAHOMA						WATERSHED 700 NEAR ALEX						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.0	0.0	0.0	0.91	0.0	0.0	0.63	0.01	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.17	0.0
3	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.03	0.0	0.0	0.58	0.0
4	0.0	0.0	0.0	0.0	0.0	0.02	0.30	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	0.07	0.0	0.0	0.0	0.08
6	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.06	0.0	0.16	0.0	0.04
7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.08	0.04	0.0
8	0.0	0.0	0.63	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
9	0.10	0.0	0.01	0.0	0.0	0.0	0.0	1.84	0.0	0.0	0.32	0.0
10	0.0	0.0	1.19	0.0	0.0	0.0	0.0	1.39	0.0	0.0	0.22	0.73
11	0.0	0.0	0.0	1.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22
12	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.01	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.11	0.0	0.0
14	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.18	0.0	0.0
15	0.0	0.05	0.0	0.0	0.0	0.0	0.02	0.0	1.02	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.01	0.0	0.0	0.0
18	0.0	0.12	0.0	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	0.04	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0
20	0.0	0.87	0.32	0.02	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0
21	0.0	0.63	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.01	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	0.12	0.0	0.0	0.16	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	1.49	1.14	0.0	0.0
25	0.0	0.0	0.0	0.0	1.68	0.0	0.0	0.0	0.15	0.36	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.05	0.0	0.0
27	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.76	0.0	0.07	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0.0
29	0.0	0.0	0.0	2.30	0.0	0.0	0.53	0.0	0.0	0.0	0.06	0.0
30	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	1.67	0.0	0.17
31	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.22
TOTAL	0.14	1.68	2.16	3.77	3.54	2.02	0.85	5.20	3.90	5.05	1.39	1.46
STA AV	1.21	1.30	1.86	2.89	4.24	2.46	2.21	2.95	4.29	2.82	1.87	0.99

NOTES: STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-70 and for 77 gages for 1971-74. STA AV based on 12 yr for total period of record (1963-74).

1974 MEAN DAILY DISCHARGE (cfs)												
CHICKASHA, OKLAHOMA						WATERSHED 700 NEAR ALEX						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	211.3	212.3	252.5	254.6	1016.8	1330.0	99.6	90.9	1441.5	462.6	899.2	336.7
2	203.9	209.2	248.1	241.8	3051.1	582.2	93.3	81.5	700.2	410.5	740.4	333.7
3	201.3	208.0	244.3	228.8	2267.7	414.6	87.4	59.6	529.4	345.6	2230.0	329.3
4	201.1	203.7	241.2	220.4	2486.7	370.4	85.5	47.1	437.7	293.0	1630.4	325.0
5	201.1	202.3	234.7	214.2	2749.7	329.1	88.8	42.9	384.8	258.1	2338.8	322.9
6	202.3	197.9	231.7	206.8	1949.5	295.2	82.3	41.9	575.9	237.7	2784.2	324.1
7	214.4	195.6	228.2	199.1	1282.5	535.3	75.2	44.7	683.3	230.2	2917.7	322.3
8	244.0	194.2	226.2	191.2	989.0	415.7	64.9	50.3	495.0	226.0	1983.0	320.0
9	240.0	195.4	1796.6	190.1	822.3	385.2	57.3	53.5	416.9	221.9	1356.7	317.4
10	230.0	195.6	1184.7	191.9	665.4	428.0	52.8	1296.8	368.4	215.6	1129.2	326.1
11	220.5	195.4	3622.2	510.3	557.9	310.8	54.0	1359.6	336.7	205.2	955.0	400.2
12	213.5	194.0	1217.8	457.3	484.5	555.4	56.1	925.1	322.0	195.9	825.1	398.7
13	214.9	193.6	949.2	337.3	440.8	637.9	52.9	1259.9	309.5	188.8	750.2	384.2
14	232.0	191.9	1224.1	265.9	407.5	423.7	49.1	630.1	301.0	185.4	699.9	366.8
15	250.4	190.6	881.3	244.3	373.1	292.9	46.1	362.0	295.3	186.3	649.8	358.8
16	260.1	191.7	678.2	430.2	340.7	237.5	43.2	258.4	322.2	186.3	605.7	356.7
17	271.8	193.3	560.7	420.4	307.6	415.9	39.7	192.2	312.9	184.5	662.9	348.9
18	252.9	201.6	483.2	345.5	283.1	370.5	36.3	143.6	296.5	184.8	1017.9	342.9
19	245.0	202.8	415.3	304.0	266.9	239.5	33.0	116.1	290.4	204.1	1046.2	334.9
20	245.3	206.1	384.8	277.9	252.0	212.7	29.7	95.4	298.7	208.0	1022.4	331.7
21	242.5	656.1	384.2	288.2	237.2	181.6	26.1	81.8	316.9	194.5	996.4	328.7
22	241.2	982.4	368.4	332.2	231.5	172.0	22.7	77.1	452.5	183.6	992.5	322.3
23	235.9	569.5	352.5	300.2	234.4	163.8	20.4	79.1	1017.4	177.0	829.9	315.7
24	230.2	408.4	334.9	275.3	230.7	155.9	20.6	72.6	973.4	191.7	529.8	310.9
25	226.3	317.0	323.5	278.5	900.9	150.5	18.4	66.0	822.5	264.5	441.0	306.6
26	223.9	291.8	318.9	254.5	986.2	141.1	17.1	67.6	646.6	256.2	404.0	304.1
27	220.7	273.6	309.5	228.8	813.0	110.1	14.2	113.2	570.3	320.2	377.0	301.8
28	219.7	259.6	303.3	220.4	1184.6	109.6	12.2	144.5	745.1	433.1	362.5	299.6
29	216.8	292.1	240.3	734.3	107.0	15.0	1377.7	663.5	475.4	349.2	297.3	
30	216.1	276.8	2296.3	526.6	103.8	101.5	2048.4	524.4	632.7	341.4	296.8	
31	214.4	268.0			745.9		218.7	2149.9		1780.8		151.7
MEAN	227.2	276.2	607.6	348.2	897.4	339.3	55.3	433.2	528.4	314.2	1062.4	326.3
INCHES	0.055	0.060	0.146	0.081	0.216	0.079	0.013	0.104	0.123	0.076	0.248	0.079
STA AV	0.050	0.043	0.068	0.096	0.140	0.145	0.047	0.041	0.097	0.084	0.097	0.054

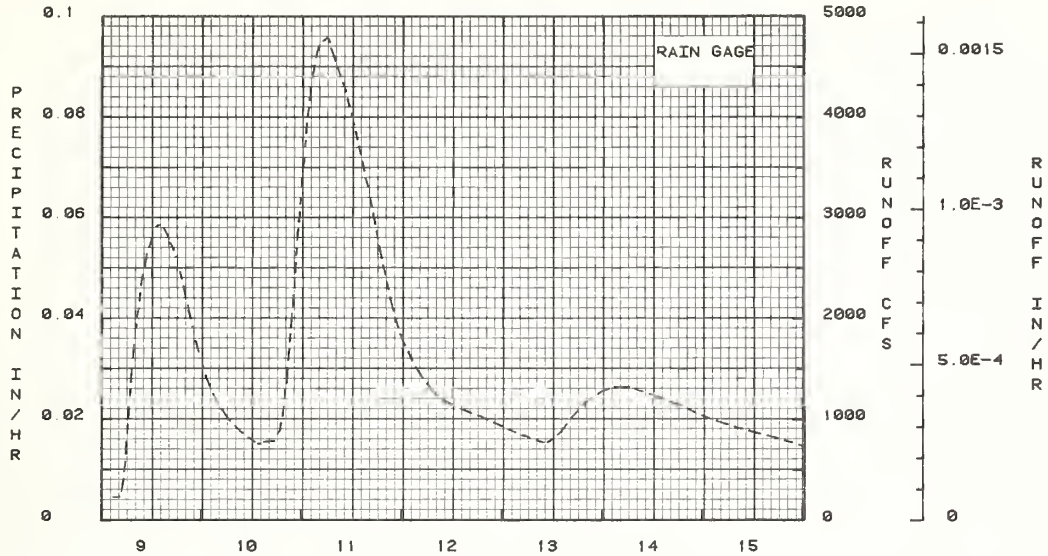
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000007776. To convert discharge in inches to AC-FR, multiply by 255,093. STA AV based on 14 yr (1961-74) record period.

1974 SELECTED RUEOFF EVENT			CHICKASEA, OKLAHOMA WATERSHED 700 NEAR ALEX							
ANTECEDENT CONDITIONS			RAINFALL			RUEOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	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 9 - APRIL 6, 1974										
3- 9		0.000					3- 9	253	226.100	0.0
								430	232.500	0.0001
								500	286.000	0.0002
								523	413.198	0.0002
								548	585.698	0.0003
WATERSHED CONDITIONS: The land use of this 4,783 sq. mi. watershed is not monitored seasonally. From a revised 1974 survey for un-gaged area between stations 500 and 700: sowed crop - 23%; row crop - 6%; alfalfa - 4%; pasture and range - 56%; miscellaneous - 11%.										
								606	780.398	0.0003
								623	952.298	0.0004
								641	1126.598	0.0005
								700	1295.398	0.0006
								723	1517.299	0.0008
								753	1741.098	0.0011
								823	1941.398	0.0014
								853	2104.698	0.0017
								953	2431.698	0.0024
								1053	2640.998	0.0032
								1223	2843.398	0.0046
								1323	2929.599	0.0055
								1411	2932.498	0.0063
								1453	2894.600	0.0069
								1553	2817.198	0.0079
								1753	2605.698	0.0096
								1953	2276.098	0.0112
								2123	1991.799	0.0122
								2253	1734.898	0.0132
								2400	1575.198	0.0138
							3-10	123	1388.398	0.0144
								353	1159.098	0.0154
								653	982.999	0.0165
								953	860.299	0.0174
								1253	773.698	0.0182
								1341	756.499	0.0184
								1411	763.598	0.0185
								1506	776.398	0.0187
								1736	787.599	0.0194
								1853	890.298	0.0197
								1953	1141.698	0.0200
								2036	1434.398	0.0203
								2106	1696.499	0.0206
								2136	1972.398	0.0209
								2206	2234.398	0.0212
								2236	2551.298	0.0216
								2306	2889.198	0.0221
								2330	3063.498	0.0224
								2400	3344.698	0.0230
							3-11	30	3619.099	0.0235
								106	3946.599	0.0243
								153	4244.586	0.0253
								253	4514.281	0.0267
								353	4708.582	0.0282
								453	4756.586	0.0297
								553	4789.484	0.0313
								611	4773.086	0.0318
								636	4739.586	0.0324
								653	4679.586	0.0328
								753	4551.484	0.0343
								1023	4253.184	0.0379
								1223	3927.599	0.0405
								1430	3539.099	0.0431
								1600	3261.600	0.0448
								1730	2938.898	0.0463
								1841	2671.998	0.0473
								2000	2427.799	0.0484
								2130	2146.198	0.0495
								2300	1916.198	0.0505
								2400	1797.799	0.0511
							3-12	230	1580.398	0.0525
								500	1406.299	0.0537
								830	1236.198	0.0552
								1100	1170.098	0.0562
								1500	1089.398	0.0576
								2030	998.098	0.0595
								2400	932.398	0.0606
							3-13	500	840.599	0.0620
								900	781.198	0.0631
								1000	773.299	0.0633

NOTES: To convert runoff in CFS to IE/HE, multiply by 0.000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1974			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 700 BEAR 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 MARCH 9 - APRIL 6, 1974 (CONTINUED)											
							3-13	1100	777.598	0.0636	
								1200	804.198	0.0638	
								1430	895.198	0.0645	
								1700	1035.498	0.0653	
								2000	1170.299	0.0664	
							3-14	2400	1286.898	0.0680	
								130	1304.698	0.0686	
								300	1323.398	0.0692	
								630	1324.500	0.0707	
								800	1298.398	0.0714	
								1300	1228.698	0.0734	
								1900	1138.998	0.0757	
								2400	1037.499	0.0775	
							3-15	600	949.198	0.0794	
								1200	874.999	0.0812	
								1800	813.598	0.0828	
								2400	737.100	0.0843	
							3-16	200	719.100	0.0848	
								530	718.898	0.0856	
								1200	675.600	0.0871	
								1800	649.898	0.0884	
								2400	614.898	0.0896	
							3-17	600	578.300	0.0908	
								1200	557.500	0.0919	
								1430	548.698	0.0923	
								2400	522.398	0.0940	
							3-18	600	499.398	0.0950	
								1430	474.698	0.0963	
								1730	474.300	0.0968	
								2400	444.500	0.0977	
							3-19	1200	410.600	0.0994	
								2400	395.350	0.1010	
							3-20	1200	380.100	0.1025	
								2400	383.850	0.1040	
							3-21	1200	387.600	0.1055	
								2400	377.648	0.1070	
							3-22	1200	367.698	0.1084	
								2400	360.398	0.1098	
							3-23	1200	353.100	0.1112	
								2400	343.550	0.1126	
							3-24	1200	334.000	0.1139	
								2400	328.148	0.1152	
							3-25	1200	322.300	0.1164	
								2400	321.148	0.1177	
							3-26	1200	320.000	0.1189	
								2400	314.300	0.1202	
							3-27	1200	308.600	0.1214	
								2400	306.350	0.1226	
							3-28	1200	304.100	0.1238	
								2400	298.500	0.1249	
							3-29	1200	292.898	0.1261	
								2400	284.148	0.1272	
							3-30	1200	275.398	0.1283	
								2400	272.198	0.1294	
							3-31	1200	268.999	0.1304	
								2400	261.648	0.1314	
							4- 1	1200	254.300	0.1324	
								2400	248.150	0.1334	
							4- 2	1200	242.000	0.1344	
								2400	235.000	0.1353	
							4- 3	1200	228.000	0.1362	
								2400	224.100	0.1371	
							4- 4	1200	220.200	0.1379	
								2400	217.300	0.1388	
							4- 5	1200	214.400	0.1396	
								2400	210.600	0.1405	
							4- 6	1200	206.800	0.1413	
								2400	203.050	0.1421	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



EVENT OF MARCH 9 - APRIL 6, 1974
 CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

CHICKASAW, OKLAHOMA WATERSEED 611 NEAR ALEX

LOCATION: Big Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Washita River; Bed River Basin. Lat. 35 deg. 57 min. N.; Long. 97 deg. 51 min. W.

AREA: 4845.00 acres 7.57 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA WATERSEED 611 NEAR ALEX								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.16	1.81	1.58	3.80	3.93	1.61	0.50	4.91	4.65	5.68	1.51	1.65	31.79
	Q	0.270	0.279	0.353	0.467	0.781	0.204	0.031	0.090	0.075	0.465	0.598	0.280	3.893
STA AV	P	1.08	1.22	1.69	2.60	3.80	2.79	1.84	2.73	4.56	2.86	2.10	1.08	28.36
	Q	0.127	0.117	0.165	0.209	0.307	0.303	0.073	0.049	0.227	0.218	0.289	0.131	2.214

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1974	5-25	0.075	5-25	0.067	5-25	0.113	5-25	0.172	5-25	0.205	5-25	0.254	5-25	0.309	10-28	0.605

MAXIMUMS FOR PERIOD OF RECORD																
Date	Maximum Discharge	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1964	5-9	0.501	1964	5-9	0.423	1964	5-9	0.557	1964	5-9	0.649	10-30	0.673	1972	10-30	1.605

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 3%; alfalfa - 2%; pasture and range - 95%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, pp. 69.8-5 (Topography), 69.7-9 (Geologic) and 1965, p. 69.7-21 (Composite). Precipitation data obtained from Thiessen weighted average of 7 gages. Precipitation records began Oct. 1961; runoff records began Dec. 1961. For long-time precipitation records, see National Weather Service at Chickasha, Okla.

1974	Day	DAILY PRECIPITATION (inches)											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.01	0.0	0.0	0.0	0.61	0.0	0.0	0.38	0.07	0.0	0.0	0.0
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.88	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.01	0.46	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	0.01	0.0	0.0	0.0	0.12
	6	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.01	0.0	0.11	0.0	0.07
	7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.25	0.02	0.0
	8	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	9	0.12	0.0	0.0	0.0	0.0	0.0	0.0	1.93	0.0	0.0	0.27	0.0
	10	0.0	0.0	1.13	0.0	0.0	0.0	0.0	1.07	0.0	0.0	0.25	0.81
	11	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.14	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0
	15	0.0	0.05	0.0	0.0	0.0	0.0	0.01	0.0	0.99	0.0	0.0	0.0
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.01	0.0	0.0	0.0
	18	0.0	0.34	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	0.0	0.0	0.0	0.12	0.0	0.0	0.0
	20	0.0	0.68	0.39	0.02	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0
	21	0.0	0.74	0.0	0.0	0.09	0.0	0.0	0.0	0.01	0.0	0.0	0.0
	22	0.0	0.0	0.01	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	0.14	0.0	0.0	0.53	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	1.80	1.20	0.0	0.0
	25	0.0	0.0	0.0	0.0	2.48	0.0	0.0	0.0	0.19	0.56	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	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	1.10	0.0	0.0
	29	0.0	0.0	0.0	2.40	0.0	0.0	0.03	0.0	0.0	0.0	0.09	0.0
	30	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	1.84	0.0	0.13
	31	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.29	0.0	0.27	0.0
TOTAL		0.16	1.81	1.58	3.80	3.93	1.61	0.50	4.91	4.65	5.68	1.51	1.65
STA AV		1.08	1.22	1.69	2.60	3.80	2.79	1.84	2.73	4.56	2.86	2.10	1.08

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 7 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASRA, OKLAHOMA WATERSHED 611 NEAR ALEX												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.800	1.590	1.774	1.604	15.367	2.831	0.430	0.121	0.316	0.345	11.737	1.700
2	1.800	1.590	1.787	1.590	9.355	2.389	0.381	0.146	0.561	0.375	9.015	1.700
3	1.814	1.590	1.712	1.566	6.885	2.572	0.375	0.150	0.407	0.380	15.781	1.700
4	1.896	1.590	1.686	1.424	5.281	2.120	0.537	0.152	0.345	0.380	10.682	1.700
5	1.910	1.577	1.604	1.411	4.024	1.887	0.480	0.171	0.335	0.375	7.597	1.726
6	1.910	1.502	1.577	1.479	3.389	3.616	0.387	0.196	0.305	0.345	6.144	1.857
7	1.870	1.490	1.502	1.479	2.714	2.803	0.380	0.196	0.300	0.340	4.871	1.712
8	1.617	1.490	1.502	1.411	2.290	2.124	0.301	0.161	0.296	0.340	3.866	1.604
9	1.502	1.490	1.577	1.424	2.045	1.730	0.269	1.048	0.277	0.340	3.665	1.590
10	1.490	1.490	8.810	1.594	1.911	1.492	0.231	10.317	0.292	0.345	2.942	2.301
11	1.479	1.490	6.599	6.302	1.801	1.324	0.200	0.404	0.269	0.375	3.464	3.702
12	1.422	1.479	4.372	2.305	1.699	1.290	0.174	0.279	0.240	0.386	3.104	2.832
13	1.531	1.411	3.064	2.031	1.580	1.219	0.167	0.235	0.265	0.424	2.795	2.200
14	1.872	1.400	2.550	1.842	1.411	1.141	0.155	0.226	0.279	0.436	2.451	2.030
15	2.015	1.387	2.272	1.870	1.302	1.120	0.167	0.200	0.401	0.480	2.400	1.925
16	2.030	1.312	2.060	1.700	1.219	1.091	0.167	0.174	0.771	0.517	2.400	1.896
17	2.030	1.362	2.015	1.516	1.141	1.247	0.149	0.170	0.482	0.492	2.400	1.814
18	2.015	1.699	1.925	1.490	1.130	1.131	0.124	0.167	0.392	0.530	2.400	1.787
19	1.925	1.529	1.925	1.490	1.120	0.972	0.120	0.159	0.436	0.581	2.369	1.712
20	1.910	1.527	2.015	1.479	1.070	0.847	0.117	0.197	0.531	0.647	2.166	1.700
21	1.896	10.847	2.015	1.399	1.120	0.821	0.102	0.222	0.594	0.754	2.045	1.700
22	1.814	4.014	1.911	1.312	1.120	0.769	0.100	0.200	0.412	0.821	2.030	1.700
23	1.787	2.836	1.801	1.300	1.070	0.752	0.100	0.212	0.380	0.830	2.001	1.686
24	1.712	2.009	1.725	1.300	1.100	0.707	0.100	0.406	2.754	2.547	1.829	1.604
25	1.712	1.814	1.775	1.290	48.888	0.700	0.100	0.239	1.521	2.555	1.800	1.604
26	1.775	1.800	1.712	1.230	12.561	0.692	0.097	0.301	0.535	2.067	1.800	1.686
27	1.712	1.774	1.700	1.220	8.710	0.640	0.082	0.689	0.430	1.130	1.800	1.700
28	1.700	1.642	1.700	1.220	6.184	0.581	0.080	0.366	0.386	16.632	1.774	1.700
29	1.700		1.700	16.258	4.220	0.530	0.082	0.300	0.375	4.337	1.630	1.700
30	1.686		1.700	31.577	3.151	0.480	0.097	0.296	0.345	35.755	1.686	1.741
31	1.604		1.686		4.131		0.102	0.274		18.885		0.974
MEAN	1.7722	2.0262	2.3148	3.1704	5.1287	1.3874	0.2038	0.5928	0.5079	3.0564	4.0548	1.8382
INCRS	0.270	0.279	0.353	0.467	0.781	0.204	0.031	0.090	0.075	0.465	0.598	0.280
STA AV	0.127	0.117	0.165	0.209	0.307	0.303	0.073	0.049	0.227	0.218	0.289	0.131

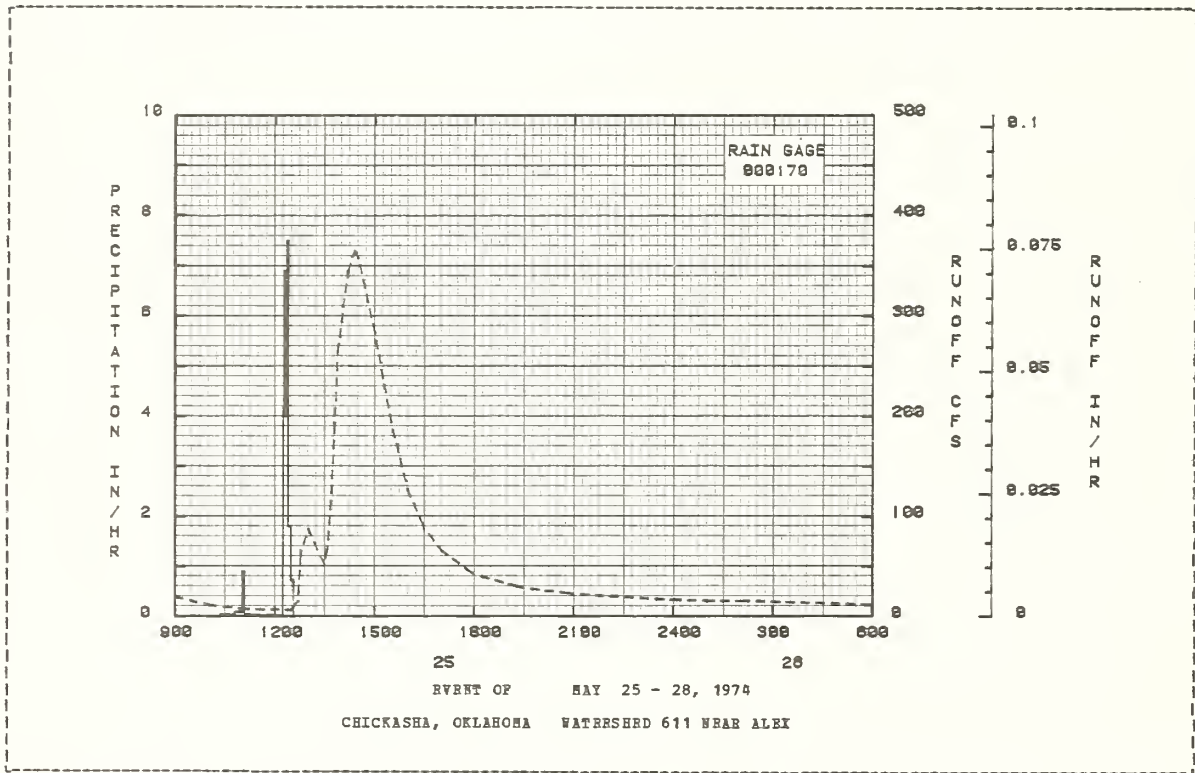
NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.004913. To convert discharge in inches to AC/FT, multiply by 403.75. STA AV based on 14 yr (1961-1974) record period.

1974 SELECTED RUNOFF EVENT CHICKASRA, OKLAHOMA WATERSHED 611 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 MAY 25 - 28, 1974												
5-25	RG 000170 1.32	0.035	5-25	RG 000170 900	0.0	0.0	5-25	900	19.650	0.0		
				928	0.0214	0.01		1000	11.400	0.0032		
				957	0.0207	0.02		1100	7.840	0.0051		
				1022	0.0	0.02		1230	6.590	0.0074		
				1049	0.0444	0.04		1241	15.790	0.0078		
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 3%; alfalfa - 2%; pasture and range - 95%.				1101	0.1000	0.06		1248	65.930	0.0088		
				1105	0.9000	0.12		1300	87.560	0.0119		
				1122	0.0353	0.13		1330	51.040	0.0190		
				1149	0.0222	0.14		1336	69.770	0.0202		
				1214	0.0240	0.15		1341	115.580	0.0218		
				1216	4.2000	0.29		1348	193.270	0.0255		
				1218	6.9000	0.52		1353	264.520	0.0294		
				1221	4.0000	0.72		1411	344.438	0.0481		
				1223	7.5000	0.97		1423	365.100	0.0626		
				1229	1.8000	1.15		1430	357.259	0.0713		
				1234	0.7200	1.21		1500	282.198	0.1040		
								1530	193.270	0.1283		
								1600	126.430	0.1447		
								1630	87.560	0.1556		
								1700	65.930	0.1635		
								1800	41.870	0.1745		
								1930	28.360	0.1853		
								2100	22.500	0.1931		
								2400	16.600	0.2051		
								5-26	100	15.790	0.2084	
								218	15.790	0.2126		
								1200	11.740	0.2399		
								2400	10.130	0.2668		
								5-27	1200	8.660	0.2899	
								2400	7.390	0.3096		

NOTES: To convert runoff in CFS to IN/HH, multiply by 0.0002047.

1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 611 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 MAY 25 - 28, 1974 (CONTINUED)										
							5-28	1200	6.120	0.3262
								2400	5.105	0.3400

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047.



CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX

LOCATION: Little Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Big Dry Creek, Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 33, T. 6 N., R. 6 W., lat. 35 deg. 57 min. N.; long. 97 deg. 51 min. W.; 5 miles Northwest of Alex, Okla.; on state road 19 bridge over little Dry Creek.

AREA: 563.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.17	1.67	1.40	3.66	3.63	1.45	0.43	4.45	4.38	5.36	1.12	1.62	29.34
	Q	0.082	0.105	0.098	0.216	0.418	0.040	0.006	0.100	0.012	0.218	0.076	0.055	1.425
STA AV	P	1.03	1.16	1.63	2.82	3.72	2.79	1.91	2.80	4.45	2.83	2.00	1.06	28.20
	Q	0.084	0.058	0.062	0.169	0.139	0.275	0.066	0.054	0.165	0.134	0.085	0.105	1.397

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		8 Days				
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1974	5-25	0.305	5-25	0.178	5-25	0.196	5-25	0.211	5-25	0.228	5-25	0.262	5-25	0.309	5-24	0.347

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	10-30	0.571	10-30	0.416	10-30	0.591	6-23	0.733	6-23	0.756	10-30	0.837	10-30	0.905	5-31	1.148
	1972		1972		1972		1963		1963		1972		1972		1973	

NOTES: Watershed conditions: From a revised 1971 survey; alfalfa - 3%; pasture and range - 97%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.8-5 (Topography) and p. 69.7-9 (Geologic); 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 2 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Nov. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	0.51	0.0	0.0	0.35	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	0.61	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.52	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.02	0.35	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	0.12	
6	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.03	0.0	0.10	0.0	0.03	
7	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.12	0.02	0.0	
8	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.13	0.0	0.0	0.0	0.0	0.0	0.0	1.93	0.0	0.0	0.27	0.0	
10	0.0	0.0	0.97	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.24	0.82	
11	0.0	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	
12	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.01	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.11	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	
15	0.0	0.05	0.0	0.0	0.0	0.0	0.08	0.0	1.04	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.03	0.0	0.0	0.0	
18	0.0	0.35	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	0.0	0.0	0.0	0.13	0.0	0.0	0.0	
20	0.0	0.62	0.35	0.01	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	
21	0.0	0.65	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.01	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	0.16	0.0	0.0	0.15	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	1.67	1.04	0.0	0.0	
25	0.0	0.0	0.0	0.0	2.46	0.0	0.0	0.0	0.16	0.46	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.06	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0.0	
29	0.0	0.0	0.0	2.32	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	
30	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	2.08	0.0	0.13	
31	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.31	0.0	0.26	
TOTAL	0.17	1.67	1.40	3.66	3.63	1.45	0.43	4.45	4.38	5.36	1.12	1.62	
STA AV	1.03	1.16	1.63	2.82	3.72	2.79	1.91	2.80	4.45	2.83	2.00	1.06	

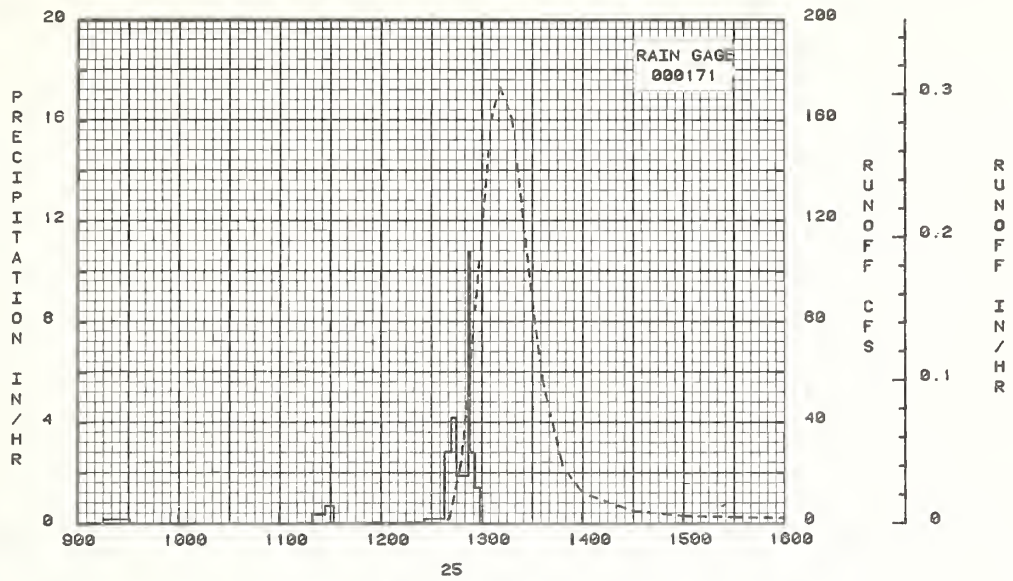
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 2 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.050	0.070	0.059	0.030	0.616	0.032	0.012	0.0	0.0	0.010	0.116	0.040
2	0.047	0.070	0.060	0.029	0.319	0.024	0.010	0.0	0.0	0.009	0.097	0.040
3	0.032	0.069	0.061	0.021	0.136	0.037	0.011	0.0	0.0	0.002	0.129	0.040
4	0.030	0.061	0.067	0.020	0.074	0.039	0.019	0.0	0.0	0.007	0.101	0.040
5	0.030	0.059	0.060	0.020	0.051	0.031	0.020	0.0	0.0	0.001	0.072	0.040
6	0.030	0.051	0.051	0.020	0.039	0.109	0.019	0.0	0.0	0.001	0.061	0.040
7	0.030	0.050	0.050	0.020	0.022	0.072	0.010	0.0	0.0	0.009	0.060	0.039
8	0.029	0.051	0.050	0.020	0.020	0.050	0.001	0.0	0.0	0.010	0.061	0.031
9	0.021	0.057	0.050	0.021	0.020	0.031	0.0	1.880	0.0	0.010	0.071	0.034
10	0.020	0.051	0.463	0.029	0.020	0.021	0.0	0.427	0.0	0.009	0.084	0.057
11	0.021	0.050	0.240	0.258	0.020	0.020	0.0	0.032	0.0	0.002	0.064	0.067
12	0.029	0.050	0.129	0.060	0.022	0.022	0.0	0.012	0.0	0.009	0.060	0.060
13	0.037	0.050	0.075	0.040	0.037	0.036	0.0	0.009	0.0	0.010	0.059	0.051
14	0.082	0.050	0.061	0.022	0.039	0.031	0.001	0.001	0.0	0.010	0.051	0.049
15	0.091	0.050	0.059	0.020	0.031	0.030	0.009	0.0	0.001	0.009	0.050	0.041
16	0.099	0.050	0.051	0.020	0.030	0.034	0.010	0.0	0.007	0.001	0.050	0.040
17	0.100	0.055	0.050	0.020	0.030	0.052	0.009	0.0	0.001	0.0	0.050	0.040
18	0.100	0.081	0.050	0.020	0.030	0.031	0.001	0.0	0.0	0.0	0.050	0.040
19	0.100	0.061	0.052	0.021	0.030	0.014	0.0	0.0	0.0	0.0	0.050	0.040
20	0.099	0.070	0.067	0.029	0.027	0.019	0.0	0.0	0.0	0.0	0.050	0.040
21	0.091	0.762	0.069	0.029	0.012	0.020	0.0	0.0	0.0	0.0	0.050	0.040
22	0.087	0.185	0.061	0.021	0.010	0.020	0.0	0.0	0.0	0.0	0.049	0.040
23	0.072	0.105	0.057	0.020	0.014	0.020	0.0	0.0	0.015	0.002	0.041	0.040
24	0.070	0.064	0.042	0.020	0.036	0.020	0.0	0.0	0.099	0.019	0.040	0.039
25	0.070	0.051	0.040	0.020	5.962	0.020	0.0	0.0	0.071	0.027	0.040	0.032
26	0.072	0.050	0.041	0.020	1.231	0.020	0.0	0.0	0.034	0.021	0.040	0.039
27	0.087	0.050	0.049	0.020	0.645	0.020	0.0	0.0	0.020	0.020	0.040	0.040
28	0.087	0.051	0.050	0.020	0.206	0.020	0.0	0.0	0.011	0.519	0.040	0.041
29	0.072		0.047	3.093	0.067	0.021	0.0	0.0	0.010	0.050	0.040	0.049
30	0.070		0.032	1.110	0.030	0.026	0.0	0.0	0.010	4.134	0.040	0.051
31	0.070		0.030		0.051		0.0	0.0		0.245		0.029
MEAN	0.0623	0.0884	0.0750	0.1705	0.3187	0.0315	0.0043	0.0762	0.0093	0.1661	0.0602	0.0423
INCHES	0.082	0.105	0.098	0.216	0.418	0.040	0.006	0.100	0.012	0.218	0.076	0.055
STA AV	0.084	0.058	0.062	0.169	0.139	0.275	0.066	0.054	0.165	0.134	0.085	0.105

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.04228. To convert discharge in inches to AC-FT, multiply by 46.92. STA AV based on 14 yr (1961-74) record period.

1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 612 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 MAY 25, 1974												
5-25	EG 000171		5-25	EG 000171			5-25					
	1.15	0.025		915	0.0	0.0		1118	0.050	0.0		
				931	0.1875	0.05		1123	0.100	0.0000		
				952	0.0286	0.06		1130	0.360	0.0001		
				1024	0.0187	0.07		1223	0.180	0.0005		
				1052	0.0214	0.08		1236	0.180	0.0005		
WATERSHED CONDITIONS: From a revised 1971 survey; alfalfa - 3%; pasture and range - 97%.												
				1119	0.0222	0.09		1241	2.070	0.0007		
				1127	0.3750	0.14		1248	24.770	0.0035		
				1132	0.7200	0.20		1253	59.730	0.0097		
				1156	0.0250	0.21		1300	115.810	0.0277		
				1226	0.0600	0.24		1306	162.520	0.0522		
				1238	0.2000	0.28		1311	173.120	0.0769		
				1242	2.8500	0.47		1318	160.450	0.1111		
				1245	4.2000	0.68		1330	88.310	0.1550		
				1252	1.8857	0.90		1336	57.260	0.1678		
				1253	10.8000	1.08		1348	22.810	0.1819		
				1256	2.8000	1.22		1400	11.960	0.1880		
				1259	1.4000	1.29		1430	4.910	0.1954		
								1500	2.800	0.1988		
								1530	2.300	0.2011		
								1700	1.850	0.2066		
								2400	1.560	0.2276		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0017615.



25
 EVENT OF MAY 25, 1974
 CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX

CHICKASAW, 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--RW1/4 sec. 34, T. 7 R., 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)						CHICKASAW, OKLAHOMA WATERSHED 111 NEAR ANADARKO								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.10	2.16	3.11	3.37	4.60	1.67	0.15	5.46	2.71	4.41	2.17	1.25	31.16
	Q	0.103	0.160	0.336	0.121	0.230	0.051	0.002	0.020	0.021	0.094	0.214	0.131	1.485
STA AV	P	0.77	1.04	1.85	2.71	3.86	2.78	1.84	2.73	4.07	2.41	1.84	0.89	26.79
	Q	0.072	0.080	0.133	0.148	0.166	0.090	0.028	0.015	0.044	0.039	0.075	0.068	0.957

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	Maximum Volume for Selected Time Interval														
		1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.	
1974	3- 8	0.013	3- 8	0.012	3- 8	0.022	3- 8	0.042	5- 1	0.055	5- 1	0.071	3- 8	0.110	3- 8	0.217

MAXIMUMS FOR PERIOD OF RECORD														
	5-10 Date	5-10 Vol.	5-10 Date	5-10 Vol.	5-10 Date	5-10 Vol.	5-10 Date	5-10 Vol.	5-9 Date	5-9 Vol.	5-9 Date	5-9 Vol.	5-31 Date	5-31 Vol.
	1964	0.046	1964	0.044	1964	0.080	1964	0.135	1964	0.149	1964	0.234	1964	0.295
													1973	0.382

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. Pnb. 1216, p. 69.7-21 and 1962, USDA Misc. Pnb. 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.

1974	DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA WATERSHED 111 NEAR ANADARKO							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	1.38	0.0	0.0	0.30	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	0.06	0.0	1.24	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.03	0.0	0.0	0.25	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.02	0.07	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.01	
6	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.05	0.0	0.08	0.0	0.08	
7	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.02	0.06	0.0	
8	0.0	0.0	1.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.91	0.0	0.0	0.40	0.0	
10	0.0	0.0	1.05	0.0	0.0	0.0	0.0	0.85	0.0	0.0	0.17	0.61	
11	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	
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	0.13	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	
15	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.01	0.0	0.0	0.0	
18	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	
20	0.0	1.65	0.25	0.03	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	
21	0.0	0.40	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	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	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.09	1.21	1.17	0.0	0.0	
25	0.0	0.0	0.0	0.0	1.54	0.0	0.0	0.0	0.08	0.06	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.92	0.0	0.01	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.91	0.0	0.0	
29	0.0	0.0	0.0	1.99	0.0	0.0	0.08	0.0	0.0	0.0	0.05	0.0	
30	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	1.46	0.0	0.20	
31	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.0	0.27	0.0	0.23	
TOTAL	0.10	2.16	3.11	3.37	4.60	1.67	0.15	5.46	2.71	4.41	2.17	1.25	
STA AV	0.77	1.04	1.85	2.71	3.86	2.78	1.84	2.73	4.07	2.41	1.84	0.89	

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 based on 14 yr (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED 111 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.867	2.190	3.606	2.401	41.045	3.799	0.181	0.0	0.257	1.749	4.067	2.510
2	1.732	2.190	3.387	2.191	19.742	3.120	0.129	0.0	0.276	3.196	25.487	2.510
3	1.710	2.190	3.240	1.991	11.981	2.599	0.125	0.0	0.276	3.606	15.084	2.510
4	1.710	2.190	3.095	1.812	8.627	2.579	0.155	0.0	0.246	3.606	11.314	2.510
5	1.710	2.177	2.876	1.756	6.576	2.427	0.152	0.0	0.194	3.340	8.360	2.510
6	1.782	2.090	2.740	1.942	5.105	2.442	0.102	0.0	0.161	2.852	6.419	2.510
7	2.259	2.002	2.635	1.869	4.111	2.616	0.065	0.0	0.142	2.311	5.246	2.510
8	2.512	2.002	30.172	1.654	3.410	2.091	0.104	0.0	0.142	1.896	4.574	2.524
9	2.131	2.077	24.423	1.642	2.984	1.501	0.332	0.818	0.157	1.544	5.025	2.887
10	1.892	2.090	34.846	1.850	2.624	1.232	0.161	4.189	0.157	1.244	5.375	4.529
11	1.732	2.090	22.278	8.393	2.294	1.084	0.050	0.720	0.145	1.084	4.575	4.392
12	1.732	2.102	13.827	4.257	2.004	0.922	0.022	0.257	0.169	0.971	3.865	3.951
13	1.959	2.177	9.942	3.267	1.801	0.822	0.020	0.132	0.247	1.221	3.609	3.660
14	2.544	2.202	8.022	2.670	1.611	0.691	0.020	0.112	0.306	1.444	3.257	3.492
15	2.740	2.305	6.586	2.401	1.392	0.570	0.022	0.062	0.320	1.146	2.982	3.257
16	2.892	2.469	5.622	2.204	1.290	0.516	0.035	0.025	0.519	1.067	2.770	3.126
17	3.176	2.414	5.065	2.102	1.150	1.595	0.020	0.017	0.504	0.932	2.755	3.110
18	3.095	2.374	4.691	2.090	1.019	1.114	0.002	0.002	0.485	0.900	2.876	3.079
19	2.891	2.216	4.271	2.129	1.000	0.607	0.0	0.0	0.870	0.831	3.032	2.891
20	2.845	2.872	4.177	2.347	1.056	0.422	0.0	0.0	1.026	0.760	2.786	2.845
21	2.755	26.323	4.591	2.291	1.375	0.366	0.0	0.0	0.776	0.699	2.740	2.755
22	2.725	10.570	4.372	2.177	1.292	0.360	0.0	0.0	0.566	0.690	2.755	2.740
23	2.635	7.841	3.951	1.991	1.124	0.355	0.0	0.0	0.549	0.840	2.815	2.725
24	2.620	6.035	3.660	1.824	1.160	0.330	0.0	0.0	1.292	1.846	2.636	2.635
25	2.606	4.924	3.542	1.789	7.377	0.355	0.0	0.0	1.590	2.552	2.524	2.620
26	2.510	4.255	3.624	1.710	6.346	0.355	0.0	0.0	1.135	2.124	2.510	2.635
27	2.414	3.826	3.640	1.631	5.976	0.316	0.0	5.658	0.836	1.757	2.510	2.740
28	2.386	3.659	3.590	1.600	4.704	0.251	0.0	0.724	0.626	3.870	2.510	2.860
29	2.291		3.227	10.212	3.332	0.197	0.0	0.505	0.467	2.377	2.510	2.965
30	2.202		2.787	8.542	2.855	0.190	0.0	0.369	0.541	5.760	2.510	3.196
31	2.190		2.607		4.192		0.0	0.286		7.725		2.139
MEAN	2.3306	3.9948	7.5838	2.8246	5.1792	1.1943	0.0548	0.4477	0.4994	2.1272	4.9826	2.9459
INCHES	0.103	0.160	0.336	0.121	0.230	0.051	0.002	0.020	0.021	0.094	0.214	0.131
STA AV	0.072	0.080	0.133	0.148	0.166	0.090	0.028	0.015	0.044	0.039	0.075	0.068

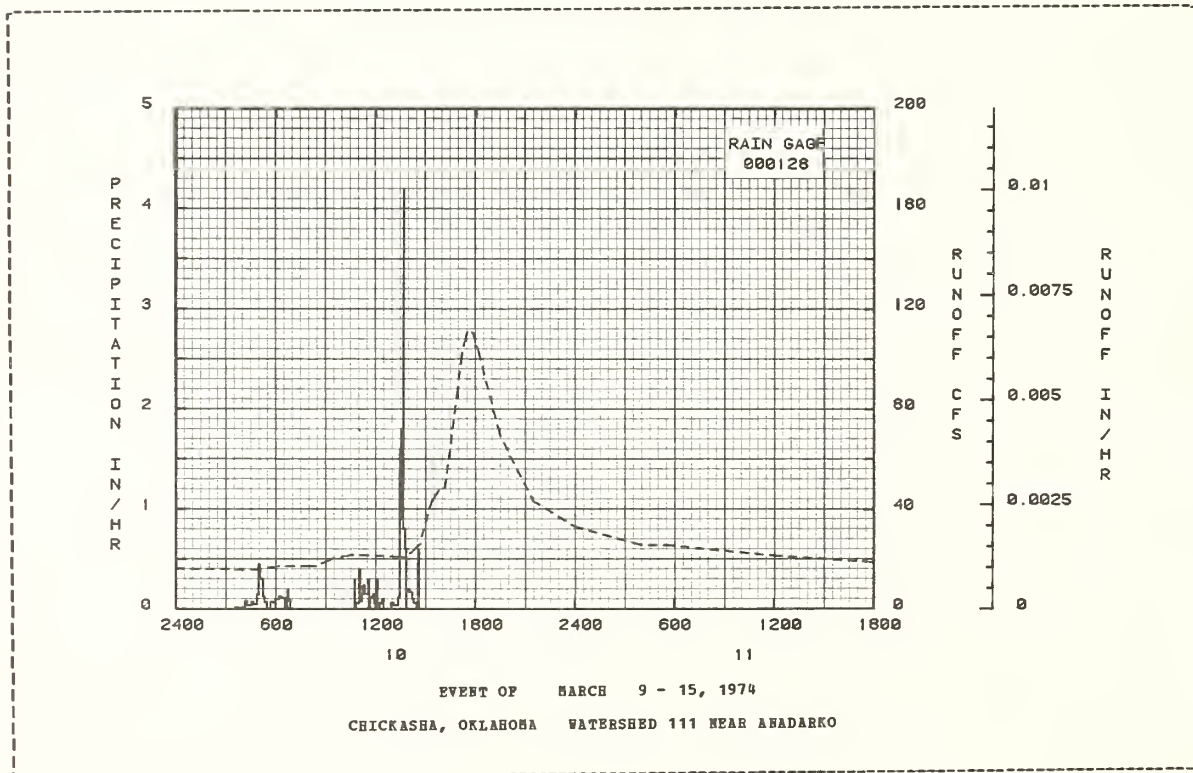
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-FT, multiply by 1,386. STA AV based on 13 yr (1962-74) record period.

1974 SELECTED RUNOFF EVENT CRICKASRA, OKLAHOMA WATERSHED 111 NEAR ANADARKO												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 9 - 15, 1974												
RG 000128												
3-10	0.0		3-10	335	0.0	0.0	3-9	2400	16.180	0.0		
3-9		0.035		409	0.0176	0.01	3-10	481	15.840	0.0045		
				416	0.0857	0.02		611	17.230	0.0059		
				432	0.0375	0.03		823	17.230	0.0082		
				440	0.0750	0.04		930	20.620	0.0095		
WATERSHED CONDITIONS: From a revised 1974 survey; sowed crop - 16%; row crop - 1%; alfalfa - 2%; pasture and range - 72%; and miscel- laneous - 9%.												
				453	0.0462	0.05		1041	21.830	0.0110		
				457	0.1500	0.06		1348	20.620	0.0149		
				501	0.4500	0.09		1441	26.270	0.0161		
				504	0.4000	0.11		1523	43.240	0.0176		
				514	0.3000	0.16		1548	47.740	0.0187		
				519	0.1200	0.17		1611	48.680	0.0198		
				528	0.0667	0.18		1653	86.040	0.0226		
				542	0.0	0.18		1711	102.510	0.0243		
				550	0.0750	0.19		1730	110.680	0.0263		
				559	0.0667	0.20		1748	110.680	0.0283		
				611	0.1000	0.22		1811	102.510	0.0307		
				620	0.1333	0.24		1930	69.070	0.0375		
				636	0.1125	0.27		2130	43.240	0.0442		
				643	0.0	0.27		2400	32.930	0.0499		
				646	0.2000	0.28	3-11	400	25.660	0.0568		
				653	0.0857	0.29		530	25.660	0.0591		
				656	0.0	0.29		1200	21.420	0.0683		
				1040	0.0	0.29		1800	18.690	0.0754		
				1045	0.0	0.29		2400	16.530	0.0817		
				1047	0.3000	0.30	3-12	1200	13.580	0.0925		
				1052	0.0	0.30		2400	11.620	0.1015		
				1102	0.0600	0.31	3-13	1200	9.660	0.1091		
				1105	0.4000	0.33		2400	8.830	0.1157		
				1113	0.0750	0.34	3-14	1200	8.000	0.1217		
				1117	0.1500	0.35		2400	7.260	0.1272		

NOTES: To convert runoff in CFS to IN/H8, multiply by 0.00005962.

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 9 - 15, 1974 (CONTINUED)										
			3-10	1122	0.2400	0.37	3-15	1200	6.520	0.1321
				1134	0.1500	0.40		2400	6.045	0.1366
				1138	0.3000	0.42				
				1142	0.0	0.42				
				1152	0.1200	0.44				
				1156	0.1500	0.45				
				1207	0.0545	0.46				
				1209	0.3000	0.47				
				1215	0.0	0.47				
				1225	0.0600	0.48				
				1231	0.1000	0.49				
				1258	0.0	0.49				
				1307	0.0667	0.50				
				1323	0.0375	0.51				
				1328	0.1200	0.52				
				1331	1.6000	0.60				
				1333	1.2000	0.64				
				1334	1.8000	0.67				
				1338	0.9000	0.73				
				1340	1.2000	0.77				
				1341	4.2000	0.84				
				1347	0.8000	0.92				
				1351	0.6000	0.96				
				1353	0.0	0.96				
				1406	0.1846	1.00				
				1413	0.1714	1.02				
				1419	0.1000	1.03				
				1429	0.0600	1.04				
				1435	0.0	1.04				
				1438	0.6000	1.07				

NOTES: To convert runoff in CFS to IH/HR, multiply by 0.00005962.



CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Hed River Basin. GAGING STATION--HW1/4 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			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.13	2.26	3.09	3.21	4.91	1.70	0.93	5.26	2.86	3.70	2.19	1.37	31.61	STA AV	P	0.87	1.15	1.83	2.84	4.04	2.69	2.07	2.63	4.12	2.60	2.00	0.95	27.79
	Q	0.095	0.166	0.319	0.141	0.253	0.060	0.003	0.016	0.007	0.024	0.136	0.101	1.321		Q	0.056	0.067	0.111	0.114	0.148	0.077	0.015	0.007	0.021	0.033	0.043	0.051	0.743

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	
1974	3-10 0.011	3-10 0.010	3-10 0.020	3-10 0.052	3-10 0.075	3-10 0.091	3-8 0.108	3-8 0.210				

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
6-2 1973	0.042	6-2 1973	0.041	6-2 1973	0.079	6-2 1973	0.193	6-2 1973	0.273	6-2 1973	0.315	6-1 1973	0.372
5-31 1973	0.461												

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. Pnb. 1070, p. 69.11-4 (Topography) and 1965, USDA Misc. Pnb. 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.

1974 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 131 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	0.01	0.0	0.0	0.0	1.33	0.0	0.0	0.43	0.0	0.0	0.0	0.0	1	0.01	0.0	0.0	0.0	1.33	0.0	0.0	0.43	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	1.01	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	1.01	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.02	0.0	0.45	0.0	3	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.02	0.0	0.45	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.86	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.02	0.86	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.02	5	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.02			
6	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.13	0.0	0.09	6	0.0	0.0	0.0	0.0	0.56	0.0	0.04	0.0	0.13	0.0	0.09			
7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.05	0.0	7	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.01	0.05	0.0			
8	0.0	0.0	1.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	1.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.79	0.0	0.0	0.41	0.0	9	0.06	0.0	0.0	0.0	0.0	0.0	1.79	0.0	0.0	0.41	0.0			
10	0.0	0.0	1.19	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.20	0.68	10	0.0	0.0	1.19	0.0	0.0	0.0	0.92	0.0	0.0	0.20	0.68			
11	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	11	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.16			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0			
15	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	15	0.0	0.07	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	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.01	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.01	0.0	0.0			
18	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.03	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	0.11	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	19	0.02	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.25	0.0	0.0			
20	0.0	1.65	0.31	0.02	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	20	0.0	1.65	0.31	0.02	0.0	0.0	0.0	0.32	0.0	0.0	0.0			
21	0.0	0.51	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.51	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.04	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.04	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	1.20	0.85	0.0	0.0	24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.05	1.20	0.85	0.0			
25	0.0	0.0	0.0	0.0	1.67	0.0	0.0	0.0	0.09	0.09	0.0	0.0	25	0.0	0.0	0.0	0.0	1.67	0.0	0.0	0.0	0.09	0.09	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0			
27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.79	0.0	0.06	0.0	0.0	27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.79	0.0	0.06	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0			
29	0.0	0.0	0.0	1.79	0.0	0.07	0.0	0.0	0.0	0.0	0.07	0.0	29	0.0	0.0	0.0	1.79	0.0	0.0	0.0	0.0	0.0	0.0	0.07			
30	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.22	30	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.30	0.0	0.22			
31	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.20	31	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.0	0.0	0.23	0.20			
TOTAL	0.13	2.26	3.09	3.21	4.91	1.70	0.93	5.26	2.86	3.70	2.19	1.37	TOTAL	0.13	2.26	3.09	3.21	4.91	1.70	0.93	5.26	2.86	3.70	2.19	1.37		
STA AV	0.87	1.15	1.83	2.84	4.04	2.69	2.07	2.63	4.12	2.60	2.00	0.95	STA AV	0.87	1.15	1.83	2.84	4.04	2.69	2.07	2.63	4.12	2.60	2.00	0.95		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CRICKASEA, OKLAHOMA WATERSHED 131 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.974	3.112	4.339	3.600	62.733	7.551	0.199	0.010	0.022	0.211	2.687	2.511
2	2.860	2.991	4.211	3.411	34.991	3.717	0.142	0.019	0.041	0.192	47.022	2.699
3	2.746	2.876	4.190	3.270	9.191	3.315	0.079	0.020	0.065	0.186	7.674	2.730
4	2.730	2.860	4.130	3.165	6.414	3.771	2.053	0.020	0.060	0.164	10.882	2.730
5	2.730	2.827	3.790	3.235	5.152	2.911	0.534	0.020	0.050	0.164	4.222	2.730
6	2.730	2.617	3.870	3.114	4.515	4.269	0.219	0.021	0.039	0.200	3.422	2.730
7	2.762	2.452	4.010	2.877	3.914	9.496	0.080	0.027	0.021	0.290	2.831	2.730
8	2.925	2.256	36.823	2.730	3.562	3.732	0.034	0.016	0.010	0.322	3.031	2.730
9	2.762	2.640	39.057	2.616	3.289	2.392	0.021	0.119	0.002	0.300	4.494	2.815
10	2.730	2.616	77.144	2.632	3.114	1.957	0.019	7.725	0.010	0.270	6.287	3.944
11	2.730	2.632	35.747	21.666	2.861	1.817	0.010	0.457	0.017	0.240	4.510	7.562
12	2.762	2.827	12.250	7.066	2.602	1.655	0.001	0.069	0.010	0.225	3.196	6.831
13	3.047	2.860	9.144	4.326	2.362	1.567	0.0	0.012	0.001	0.319	3.184	4.902
14	3.640	2.860	8.086	3.140	2.167	1.212	0.0	0.001	0.001	0.521	2.895	4.056
15	3.911	2.876	7.186	2.974	2.114	1.250	0.001	0.0	0.059	0.607	2.746	3.600
16	4.365	2.991	6.537	2.860	1.944	1.115	0.007	0.0	0.339	0.540	2.746	3.429
17	4.757	3.130	6.296	2.746	1.817	3.214	0.001	0.0	0.257	0.456	2.844	3.410
18	4.385	3.235	6.167	2.762	1.632	2.105	0.001	0.0	0.234	0.410	2.876	3.375
19	4.071	3.112	5.629	3.010	1.472	1.272	0.009	0.0	0.365	0.375	2.910	3.165
20	4.010	10.730	6.179	3.357	1.536	1.001	0.010	0.0	0.475	0.370	2.559	3.130
21	3.851	72.424	7.366	3.357	2.027	0.861	0.010	0.0	0.459	0.370	2.570	3.130
22	3.562	11.254	7.046	2.994	1.896	0.762	0.009	0.0	0.271	0.380	2.510	3.130
23	3.306	7.114	5.939	2.634	1.532	0.771	0.001	0.0	0.296	0.491	2.527	3.130
24	3.270	5.257	5.334	2.466	1.607	0.645	0.0	0.0	0.776	0.930	2.197	3.112
25	3.287	4.732	5.260	2.265	40.625	0.581	0.0	0.0	1.545	1.604	2.167	3.060
26	3.375	4.531	5.260	2.127	19.310	0.539	0.0	0.0	0.807	1.079	2.319	3.357
27	3.305	4.381	5.236	1.982	4.651	0.486	0.0	7.751	0.495	0.876	2.277	3.429
28	3.375	4.360	5.026	2.061	2.992	0.406	0.0	0.294	0.342	2.230	2.361	3.560
29	3.287		4.555	7.573	2.286	0.300	0.001	0.087	0.274	1.417	2.465	3.672
30	3.252		4.212	39.690	1.945	0.206	0.007	0.041	0.240	2.425	2.480	4.086
31	3.147		3.991		36.493		0.002	0.022		7.796		3.302
MEAN	3.311	6.377	11.097	5.057	8.798	2.163	0.111	0.540	0.253	0.837	4.896	3.509
INCBES	0.095	0.166	0.319	0.141	0.253	0.060	0.003	0.016	0.007	0.024	0.136	0.101
STA AV	0.056	0.067	0.111	0.114	0.148	0.077	0.015	0.007	0.021	0.033	0.043	0.051

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 based on 13 yr (1962-74) record period.

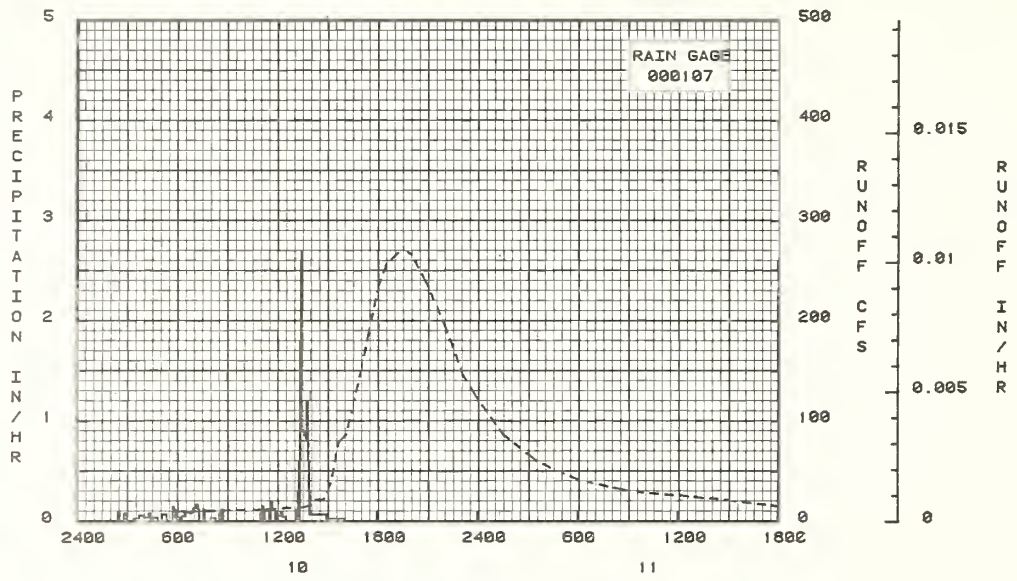
1974 SELECTED RUNOFF EVENT CRICKASEA, OKLAHOMA WATERSHED 131 NEAR ANADARKO												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 10 - 16, 1974												
3-10	RG 000107	0.003	3-10	RG 000107	229	0.0	0.0	3-10	600	10.260	0.0	
					234	0.1200	0.01		1100	12.080	0.0022	
					250	0.0	0.01		1336	14.440	0.0035	
					257	0.0857	0.02		1400	17.060	0.0037	
					323	0.0	0.02		1418	21.740	0.0039	
					343	0.0300	0.03		1430	21.740	0.0041	
					352	0.0667	0.04		1441	21.290	0.0043	
					402	0.0600	0.05		1448	22.670	0.0044	
					418	0.0375	0.06		1511	38.270	0.0048	
					425	0.0857	0.07		1541	79.720	0.0060	
					434	0.0	0.07		1606	87.060	0.0073	
					450	0.0375	0.08		1630	115.320	0.0089	
					506	0.0	0.08		1700	151.340	0.0114	
					522	0.0750	0.10		1730	192.690	0.0148	
					529	0.0	0.10		1800	234.360	0.0189	
					540	0.0	0.10		1830	256.750	0.0236	
					544	0.0	0.10		1911	268.208	0.0306	
					548	0.1500	0.11		1930	272.418	0.0339	
					553	0.1200	0.12		2000	266.110	0.0391	
					608	0.0400	0.13		2100	234.360	0.0487	
					616	0.0	0.13		2200	195.500	0.0571	
					627	0.0545	0.14		2230	173.390	0.0606	
					646	0.0947	0.17		2306	146.210	0.0643	
					653	0.0857	0.18		2400	121.840	0.0690	
					659	0.1000	0.19	3-11	130	87.060	0.0750	
					708	0.1333	0.21		330	60.040	0.0807	
					715	0.1714	0.23		600	41.600	0.0856	
					720	0.1200	0.24		900	30.400	0.0898	
					732	0.0	0.24		1500	21.290	0.0958	
					735	0.0	0.24		2400	15.160	0.1021	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865.

1974 SELECTED RUNOFF EVENT CRICKASBA, OKLAHOMA WATERSHED 131 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 MARCR 10 - 16, 1974 (CONTINUED)										
3-10				740	0.1200	0.25	3-12	1200	11.760	0.1084
				802	0.0	0.25		2400	10.320	0.1135
				820	0.0333	0.26	3-13	1200	8.880	0.1180
				831	0.0	0.26		2400	8.495	0.1220
				838	0.0857	0.27	3-14	1200	8.110	0.1258
				841	0.0	0.27		2400	7.630	0.1295
				846	0.1200	0.28	3-15	1200	7.150	0.1329
				854	0.0	0.28		2400	6.815	0.1362
				1100	0.0	0.28	3-16	1200	6.480	0.1392
				1107	0.0857	0.29		2400	6.375	0.1422
				1111	0.1500	0.30				
				1116	0.0	0.30				
				1121	0.1200	0.31				
				1132	0.1091	0.33				
				1137	0.0	0.33				
				1143	0.2000	0.35				
				1153	0.1200	0.37				
				1203	0.0	0.37				
				1213	0.0600	0.38				
				1219	0.1000	0.39				
				1232	0.0462	0.40				
				1308	0.0	0.40				
				1313	0.1200	0.41				
				1314	0.0	0.41				
				1316	0.3000	0.42				
				1319	0.0	0.42				
				1320	0.6000	0.43				
				1321	0.0	0.43				
				1322	1.8000	0.46				
				1323	0.6000	0.47				
				1325	2.7000	0.56				
				1326	1.8000	0.59				
				1330	0.9000	0.65				
				1332	0.9000	0.68				
				1336	0.9000	0.74				
				1343	0.8571	0.84				
				1346	0.8000	0.88				
				1348	1.2000	0.92				
				1350	0.9000	0.95				
				1352	0.6000	0.97				
				1354	0.6000	0.99				
				1356	0.3000	1.00				
				1458	0.0677	1.07				
				1607	0.0261	1.10				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865.



EVENT OF MARCH 10 - 16, 1974
CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA

LOCATION: Line Creek watershed above U.S. Highway 81 bridge at Chickasha, Grady and Caddo Counties, Okla.; tributary to Washita River; Hed River Basin. GAGING STATION--NE1/4 sec. 29, T. 7 N., R. 7 W., lat. 35 deg. 03 min. N., long. 97 deg. 58 min. W., Northwest edge of Chickasha, Okla., at U.S. Highway 81 bridge.

AREA: 33300.00 acres 52.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.12	1.71	3.45	3.66	4.83	0.90	0.91	4.78	2.95	3.97	1.31	1.37	29.96															
	Q	0.010	0.057	0.456	0.208	0.391	0.156	0.009	0.022	0.014																			
STA AV	P	0.78	1.06	1.73	2.83	3.76	2.65	1.89	2.64	3.97	2.48	1.90	0.94	26.63															
	Q	0.005	0.008	0.062	0.073	0.117	0.099	0.012	0.035	0.031	0.081	0.038	0.007	0.568															

ANNUAL MAXIMUM DISCHARGE (cu/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	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.	Date	Date	Vol.											
1974	4-30	0.022	4-30	0.022	4-30	0.041	4-30	0.088	3-10	0.128	3-10	0.215	3-10	0.275	4-29	0.460													

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
8-28 1965	0.060	8-28 1965	0.053	8-28 1965	0.096	8-28 1965	0.204	10-3 1971	0.301	10-3 1971	0.463	10-2 1971	0.552	5-31 1973	0.669

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 34%; row crop - 1%; alfalfa - 5%; pasture and range - 51% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.12-4 (Topography) and 1965, OSDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 13 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Sept. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, OK. Runoff records for this station were discontinued as of October 1, 1974.

1974 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA															
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	0.01	0.0	0.0	0.0	1.44	0.0	0.0	0.25	0.0	0.0	0.0	0.0	1	0.01	0.0	0.0	0.0	0.0	0.25	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	0.47	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0						
3	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
4	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.50	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.03	0.50	0.0	0.0	0.0						
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0						
6	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.03	0.0	0.19	0.0	0.03	6	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.03	0.0	0.03						
7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.05	0.0	7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.03	0.05	0.0						
8	0.0	0.0	1.67	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	1.67	0.0	0.0	0.02	0.0	0.0	0.0	0.0						
9	0.07	0.0	0.02	0.0	0.0	0.0	0.0	1.85	0.0	0.0	0.31	0.0	9	0.07	0.0	0.02	0.0	0.0	0.0	1.85	0.0	0.0	0.31						
10	0.0	0.0	1.46	0.0	0.0	0.0	0.0	1.19	0.0	0.0	0.18	0.68	10	0.0	0.0	1.46	0.0	0.0	0.0	1.19	0.0	0.0	0.18						
11	0.0	0.0	0.0	1.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	11	0.0	0.0	0.0	1.36	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	0.01	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.01	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	0.08	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0						
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0						
15	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.64	0.0	0.0	15	0.0	0.05	0.0	0.0	0.0	0.0	0.12	0.0	0.64	0.0						
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0						
17	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.01	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.01	0.0	0.0						
18	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.16	0.0	0.0						
20	0.0	0.96	0.29	0.01	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	20	0.0	0.96	0.29	0.01	0.0	0.0	0.0	0.23	0.0	0.0						
21	0.0	0.65	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.65	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0						
22	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	0.01	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	0.0	0.0	0.48	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.48	0.0	0.0						
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	1.12	0.95	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.11	1.12	0.95							
25	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.11	0.16	0.0	0.0	25	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.11	0.16							
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0							
27	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.10	0.0	0.0	27	0.03	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.10							
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60							
29	0.0	0.0	0.0	2.20	0.0	0.0	0.29	0.0	0.0	0.0	0.07	0.0	29	0.0	0.0	0.0	2.20	0.0	0.0	0.29	0.0	0.0	0.07						
30	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.23	30	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	1.35	0.0						
31	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0	0.26	0.0	0.21	0.0	31	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0	0.26	0.21						
TOTAL	0.12	1.71	3.45	3.66	4.83	0.90	0.91	4.78	2.95	3.97	1.31	1.37																	
STA AV	0.78	1.06	1.73	2.83	3.76	2.65	1.89	2.64	3.97	2.48	1.90	0.94																	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 13 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSHED 411 AT CRICKASHA												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.27	0.42	1.33	1.47	162.92	140.21	0.50	0.42	0.53	NR	NR	NR
2	0.24	0.42	1.26	1.10	161.70	39.36	0.50	0.19	2.47	NR	NR	NR
3	0.20	0.42	1.19	0.88	63.45	11.10	0.50	0.17	0.57	NR	NR	NR
4	0.20	0.41	1.12	0.77	22.14	3.67	1.33	0.17	0.54	NR	NR	NR
5	0.23	0.33	1.02	0.76	8.17	2.15	0.46	0.17	0.50	NR	NR	NR
6	0.24	0.28	0.90	0.76	5.16	2.09	0.46	0.17	0.43	NR	NR	NR
7	0.24	0.27	0.76	0.75	3.78	1.94	0.46	0.17	0.39	NR	NR	NR
8	0.24	0.27	11.23	0.72	3.16	1.77	0.46	0.15	0.39	NR	NR	NR
9	0.24	0.27	111.10	0.71	2.84	1.40	0.46	6.11	0.39	NR	NR	NR
10	0.24	0.25	154.21	0.67	2.54	1.10	0.46	8.69	0.39	NR	NR	NR
11	0.24	0.27	224.88	25.93	2.15	0.97	0.46	0.82	0.39	NR	NR	NR
12	0.24	0.30	41.73	15.65	1.95	0.90	0.45	0.76	0.39	NR	NR	NR
13	0.26	0.30	15.70	4.82	1.73	0.82	0.43	0.71	0.36	NR	NR	NR
14	0.40	0.30	9.44	1.92	1.53	0.82	0.42	0.68	0.36	NR	NR	NR
15	0.43	0.30	6.98	1.70	1.38	0.87	0.39	0.67	1.25	NR	NR	NR
16	0.52	0.28	5.17	1.35	1.27	0.96	0.39	0.67	1.11	NR	NR	NR
17	0.71	0.30	4.03	1.15	1.24	1.08	0.36	0.67	0.51	NR	NR	NR
18	0.88	0.33	3.82	1.08	1.11	0.75	0.31	0.67	0.69	NR	NR	NR
19	0.90	0.38	3.37	1.02	0.84	0.72	0.30	0.67	0.51	NR	NR	NR
20	0.86	1.97	3.86	0.95	0.77	0.70	0.30	0.67	0.52	NR	NR	NR
21	0.81	41.15	4.32	0.87	0.76	0.63	0.30	0.66	0.49	NR	NR	NR
22	0.75	16.93	4.40	0.82	0.77	0.62	0.30	0.64	0.40	NR	NR	NR
23	0.67	4.00	4.04	0.80	0.80	0.62	0.30	0.70	0.36	NR	NR	NR
24	0.59	2.69	3.28	0.77	0.75	0.58	0.27	0.44	3.31	NR	NR	NR
25	0.54	2.13	2.81	0.75	4.94	0.55	0.27	0.42	0.74	NR	NR	NR
26	0.47	1.65	2.84	0.71	8.17	0.54	0.27	0.50	0.36	NR	NR	NR
27	0.46	1.52	2.92	0.67	3.49	0.54	0.27	1.63	0.33	NR	NR	NR
28	0.45	1.44	2.90	0.63	1.99	0.50	0.24	0.61	0.33	NR	NR	NR
29	0.43		2.64	10.83	1.47	0.46	0.59	0.58	0.33	NR	NR	NR
30	0.42		2.29	209.92	1.19	0.46	0.33	0.57	0.17	NR	NR	NR
31	0.42		1.94		73.06		0.20	0.55		NR	NR	NR
MEAN	0.445	2.842	20.564	9.697	17.653	7.296	0.410	0.990	0.650			
INCRS	0.010	0.057	0.456	0.208	0.391	0.156	0.009	0.022	0.014			
STA AV	0.005	0.008	0.062	0.073	0.117	0.099	0.012	0.035	0.031	0.081	0.038	0.007

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0007148. To convert discharge in inches to AC-FT, multiply by 2,775. STA AV based on 13 yr (1962-74) record period. This station was discontinued as of October 1, 1974.

1974 SELECTED RUNOFF EVENT CRICKASHA, OKLAHOMA WATERSHED 411 AT CRICKASHA											
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 29 - MAY 1, 1974											
4-29	RG 000109	0.000	4-29	RG 000109			4-29				
	0.86			2050	0.0	0.0	423		0.620	0.0	
				2051	0.6000	0.01	436		0.960	0.0000	
				2053	0.6000	0.03	448		3.230	0.0000	
				2056	0.4000	0.05	506		7.700	0.0001	
				2105	0.2667	0.09	518		13.760	0.0001	
				2109	0.3000	0.11	530	15.560	0.0002		
				2138	0.0	0.11	606	11.470	0.0005		
				2147	0.0667	0.12	648	5.090	0.0006		
				2202	0.0400	0.13	718	2.650	0.0007		
				2207	0.1200	0.14	741	2.380	0.0007		
				2213	0.1000	0.15	806	3.330	0.0008		
				2214	0.6000	0.16	836	7.070	0.0008		
				2215	1.7988	0.19	848	7.860	0.0009		
				2218	1.4000	0.26	936	8.360	0.0011		
				2220	1.5000	0.31	1036	5.220	0.0013		
				2225	0.9600	0.39	1123	2.210	0.0014		
				2226	4.2010	0.46	1206	1.260	0.0014		
				2228	2.4000	0.54	1506	0.710	0.0015		
				2230	3.0000	0.64	1948	0.620	0.0016		
				2232	0.9000	0.67	2000	1.260	0.0016		
				2233	1.2000	0.69	2006	6.620	0.0016		
				2237	0.6000	0.73	2011	17.720	0.0016		
				2238	1.2000	0.75	2018	28.170	0.0017		
				2241	0.8000	0.79	2036	39.630	0.0020		
				2243	0.9000	0.82	2048	38.880	0.0022		
				2244	1.8000	0.85	2100	34.870	0.0025		
				2246	3.3000	0.96	2123	24.210	0.0028		
				2248	1.2000	1.00	2136	27.230	0.0030		
				2249	1.2000	1.02	2141	39.630	0.0030		
				2256	0.4286	1.07	2148	50.100	0.0032		

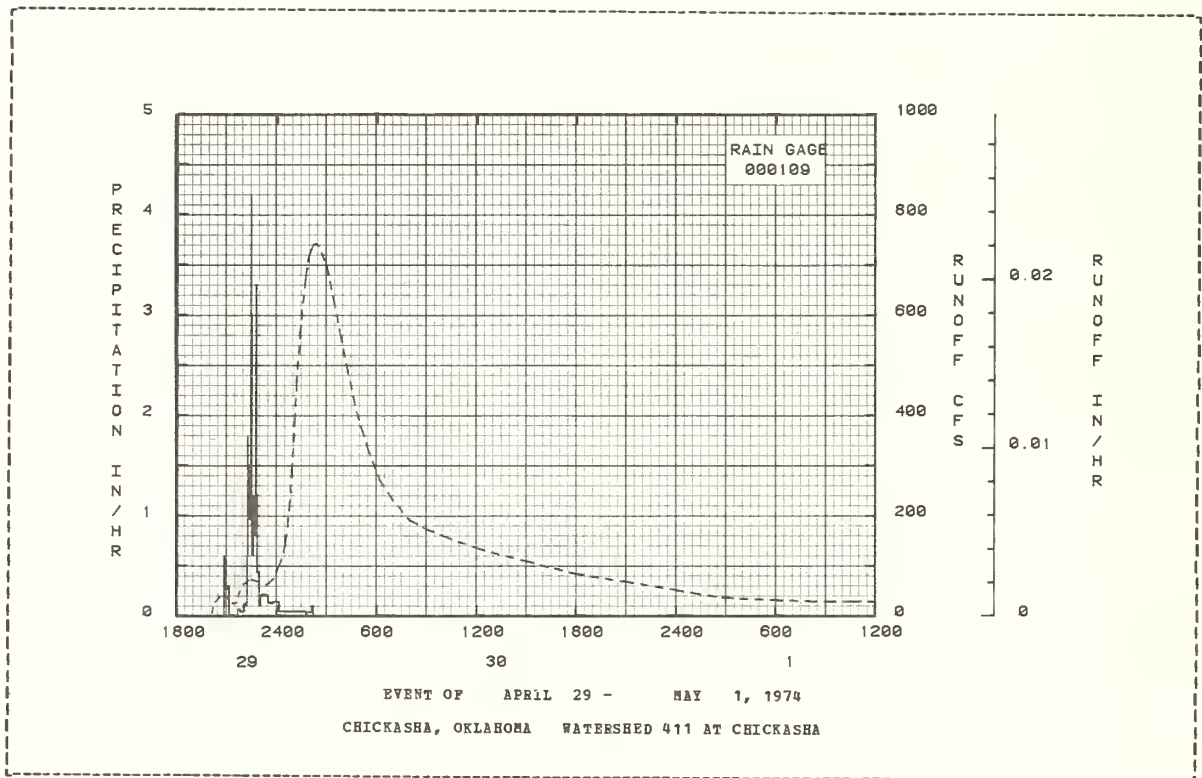
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002978.

1974 SELECTED RUNOFF EVENT			CRICKASRA, OKLAHOMA WATERSHED 411 AT CRICKASRA								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Rnnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF			APRIL	29 -	MAY	1, 1974	(CONTINUED)				
4-29				2302	0.1000	1.08	4-29	2200	63.300	0.0035	
				2308	0.2000	1.10		2218	71.270	0.0041	
				2322	0.2143	1.15		2230	71.780	0.0046	
				2328	0.2000	1.17		2323	61.860	0.0063	
				2337	0.1333	1.19		2348	74.910	0.0072	
				2347	0.1200	1.21		2400	89.270	0.0077	
4-30				8	0.1429	1.26	4-30	18	113.290	0.0086	
				146	0.0429	1.33		30	141.770	0.0093	
				151	0.0	1.33		36	163.140	0.0098	
				207	0.0375	1.34		41	195.510	0.0102	
				213	0.1000	1.35		48	231.910	0.0110	
				219	0.0	1.35		53	288.319	0.0116	
								100	348.810	0.0127	
								106	403.820	0.0139	
								111	478.158	0.0149	
								118	523.590	0.0167	
								123	562.090	0.0180	
								130	609.850	0.0201	
								141	664.580	0.0236	
								148	692.860	0.0259	
								153	714.908	0.0277	
								211	740.790	0.0342	
								218	740.790	0.0367	
								230	737.310	0.0411	
								300	694.540	0.0518	
								330	614.580	0.0615	
								353	545.628	0.0682	
								418	480.938	0.0745	
								441	420.490	0.0797	
								506	371.520	0.0846	
								536	321.178	0.0898	
								611	270.520	0.0949	
								700	230.010	0.1010	
								800	189.480	0.1072	
								900	171.960	0.1126	
								1030	152.260	0.1199	
								1230	129.560	0.1282	
								1500	108.760	0.1371	
								1800	83.040	0.1457	
								2100	67.720	0.1524	
							5- 1	2400	50.960	0.1577	
								130	42.720	0.1598	
								300	35.940	0.1616	
								600	31.090	0.1646	
								830	28.170	0.1668	
								941	28.810	0.1678	
								1030	28.170	0.1685	
								1111	29.130	0.1690	
								1206	27.540	0.1698	
								1241	34.520	0.1703	
								1330	37.390	0.1712	
								1430	33.470	0.1723	
								1448	42.320	0.1726	
								1500	61.860	0.1729	
								1511	83.590	0.1733	
								1530	102.450	0.1742	
								1600	120.600	0.1759	
								1630	154.550	0.1779	
								1641	186.920	0.1788	
								1653	227.180	0.1801	
								1706	274.648	0.1817	
								1711	311.128	0.1824	
								1723	369.100	0.1845	
								1736	427.000	0.1870	
								1748	483.719	0.1897	
								1800	526.500	0.1927	
								1830	598.888	0.2011	
								1900	617.740	0.2102	
								1930	602.010	0.2193	
								2011	550.090	0.2310	
								2048	482.330	0.2405	
								2118	437.520	0.2473	
								2200	373.958	0.2558	
								2241	320.060	0.2628	
								2330	280.918	0.2701	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0002978.

1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
			EVENT OF APRIL 29 - MAY 1, 1974 (CONTINUED)									
									5- 1	2400	258.310	0.2742

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002978.



CRICKASRA, 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., R. 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)														CRICKASRA, OKLAHOMA WATERSHED 511 NEAR TABLER															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.11	1.75	3.09	3.78	2.96	1.30	2.04	4.97	2.99	5.61	1.44	1.63	31.67	P	0.11	1.75	3.09	3.78	2.96	1.30	2.04	4.97	2.99	5.61	1.44	1.63	31.67	
	Q	0.171	0.202	0.964	0.441	0.479	0.138	0.093	0.456	0.073	0.381	0.319	0.170	3.886	Q	0.171	0.202	0.964	0.441	0.479	0.138	0.093	0.456	0.073	0.381	0.319	0.170	3.886	
STA AV	P	0.83	1.12	2.01	2.93	3.46	3.07	2.02	3.21	3.94	2.68	1.96	1.02	28.25	P	0.83	1.12	2.01	2.93	3.46	3.07	2.02	3.21	3.94	2.68	1.96	1.02	28.25	
	Q	0.064	0.064	0.237	0.314	0.314	0.348	0.040	0.169	0.213	0.193	0.140	0.077	2.172	Q	0.064	0.064	0.237	0.314	0.314	0.348	0.040	0.169	0.213	0.193	0.140	0.077	2.172	

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1974		3-10	0.051	3-10	0.050	3-10	0.098	3-10	0.231	3-10	0.305	3-10	0.374	3-10	0.459	3-8	0.757		
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.

1974 DAILY PRECIPITATION (inches)														CRICKASRA, OKLAHOMA WATERSHED 511 NEAR TABLER													
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	0.01	0.0	0.0	0.0	1.18	0.0	0.0	0.42	0.03	0.0	0.0	0.0	1	0.01	0.0	0.0	0.0	1.18	0.0	0.0	0.42	0.03	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.10	0.0	0.0	0.0	0.35	3	0.0	0.0	0.0	0.0	0.22	0.0	0.10	0.0	0.0	0.0	0.35			
4	0.0	0.0	0.0	0.0	0.0	0.03	0.33	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.03	0.33	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	0.10	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10			
6	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.08	0.0	0.01	6	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.08	0.0	0.01			
7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.07	0.05	0.0	7	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.07	0.05	0.0			
8	0.0	0.0	1.30	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	1.30	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.08	0.0	0.02	0.0	0.0	0.0	0.0	1.67	0.0	0.0	0.34	0.0	9	0.08	0.0	0.02	0.0	0.0	0.0	0.0	1.67	0.0	0.0	0.34			
10	0.0	0.0	1.47	0.01	0.0	0.0	0.0	2.03	0.0	0.0	0.18	0.81	10	0.0	0.0	1.47	0.01	0.0	0.0	0.0	2.03	0.0	0.0	0.18			
11	0.0	0.0	0.0	1.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	11	0.0	0.0	0.0	1.34	0.0	0.0	0.0	0.0	0.0	0.0	0.27			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	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	0.13	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0			
14	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.15	0.0	0.0	14	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.15	0.0			
15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	19	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.18	0.0	0.0			
20	0.0	0.89	0.27	0.07	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	20	0.0	0.89	0.27	0.07	0.0	0.0	0.0	0.0	0.19	0.0	0.0			
21	0.0	0.60	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.60	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	1.13	1.19	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.01	0.0	1.13	1.19	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.09	0.55	0.0	0.0	25	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.09	0.55	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.21	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.21	0.0	0.0			
27	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.47	0.0	0.07	0.0	0.0	27	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.47	0.0	0.07	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.93	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.93	0.0			
29	0.0	0.0	0.0	2.27	0.0	0.0	1.70	0.0	0.0	0.0	0.07	0.0	29	0.0	0.0	0.0	2.27	0.0	0.0	0.0	0.0	0.0	0.0	0.07			
30	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	1.93	0.0	0.25	30	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	1.93	0.0	0.25			
31	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.19	31	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.30	0.0	0.19			
TOTAL	0.11	1.75	3.09	3.78	2.96	1.30	2.04	4.97	2.99	5.61	1.44	1.63	TOTAL	0.11	1.75	3.09	3.78	2.96	1.30	2.04	4.97	2.99	5.61	1.44	1.63		
STA AV	0.83	1.12	2.01	2.93	3.46	3.07	2.02	3.21	3.94	2.68	1.96	1.02	STA AV	0.83	1.12	2.01	2.93	3.46	3.07	2.02	3.21	3.94	2.68	1.96	1.02		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 15 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TAHLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.35	7.91	9.55	12.99	179.70	13.53	2.07	5.99	2.70	2.82	64.79	9.64
2	7.95	8.12	9.55	12.10	171.41	9.05	1.89	9.19	4.05	2.80	83.46	10.02
3	7.88	8.09	9.51	11.27	57.44	8.59	1.85	3.72	3.71	2.70	57.13	10.30
4	7.88	7.66	9.23	10.90	32.99	8.98	1.81	2.61	3.13	2.68	35.91	10.33
5	7.88	7.40	8.69	10.65	24.95	7.99	2.00	2.15	2.91	2.68	21.57	10.26
6	7.88	7.34	8.22	10.61	20.57	13.14	1.78	2.22	3.24	2.75	15.10	9.75
7	7.88	7.13	8.22	10.57	17.47	35.06	1.58	2.51	3.73	3.17	12.31	8.94
8	7.88	7.01	40.33	10.40	15.91	12.94	1.46	2.52	4.44	3.28	11.34	7.89
9	7.79	7.50	213.00	10.57	15.32	14.20	1.25	11.49	5.40	3.50	11.80	7.23
10	7.22	7.40	517.41	15.14	14.41	11.36	1.12	483.22	5.49	3.50	13.79	9.63
11	7.13	7.40	213.49	99.25	13.65	8.84	0.84	80.83	5.10	3.28	12.69	16.27
12	7.29	7.60	91.20	24.64	12.68	7.42	0.70	41.04	4.31	3.22	11.06	13.67
13	8.57	7.63	54.75	15.95	11.60	6.51	0.74	18.88	3.14	3.15	10.27	11.22
14	10.59	7.60	39.29	13.02	11.12	6.19	1.02	8.98	2.27	3.41	9.36	9.47
15	10.90	7.40	28.60	12.06	10.40	5.89	1.07	6.23	2.30	3.78	9.01	8.87
16	10.97	7.37	23.09	11.27	10.02	5.24	1.08	4.77	4.06	3.70	8.97	8.05
17	11.37	7.40	21.11	10.90	9.54	5.11	1.13	3.77	4.12	3.54	8.97	8.12
18	11.12	7.73	20.68	10.68	8.97	4.83	1.07	3.24	3.47	3.37	8.97	8.05
19	10.44	8.46	19.38	10.90	8.42	3.98	1.02	2.82	3.32	3.11	8.90	7.53
20	10.26	8.18	19.02	11.15	7.92	3.70	1.06	2.46	3.66	2.97	8.45	7.78
21	9.82	80.04	19.64	11.23	7.54	3.54	1.06	2.31	3.76	2.97	8.18	7.66
22	9.51	24.41	18.23	11.27	6.72	3.34	1.00	2.20	3.27	3.07	8.22	7.60
23	9.01	14.94	17.45	10.19	6.31	2.87	0.95	2.19	3.05	3.13	8.52	7.37
24	8.73	11.70	15.96	9.78	6.59	2.72	1.01	2.20	4.62	7.46	7.98	7.13
25	8.69	10.19	15.45	9.54	12.37	2.80	1.13	2.31	7.92	11.14	7.88	6.91
26	8.69	9.78	15.41	9.26	13.58	2.82	1.14	2.59	5.67	20.15	7.95	6.91
27	8.69	9.58	15.41	9.04	9.31	2.80	1.09	3.68	4.38	9.34	8.39	7.10
28	8.66	9.55	15.32	9.30	7.62	2.68	1.14	3.73	3.44	59.41	8.76	7.19
29	8.42		14.75	32.46	6.29	2.52	6.32	2.93	2.89	23.38	9.47	7.57
30	8.15		14.32	257.18	5.57	2.22	97.02	2.70	2.82	193.07	9.72	7.87
31	7.91		13.69		28.29		9.45	2.65		212.72		4.53
MEAN	8.823	11.519	49.676	23.475	24.666	7.362	4.769	23.489	3.879	19.653	16.964	8.738
INCHES	0.171	0.202	0.964	0.441	0.479	0.138	0.093	0.456	0.073	0.381	0.319	0.170
STA AV	0.064	0.064	0.237	0.314	0.314	0.348	0.040	0.169	0.213	0.193	0.140	0.077

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 based on 13 yr (1962-74) record period.

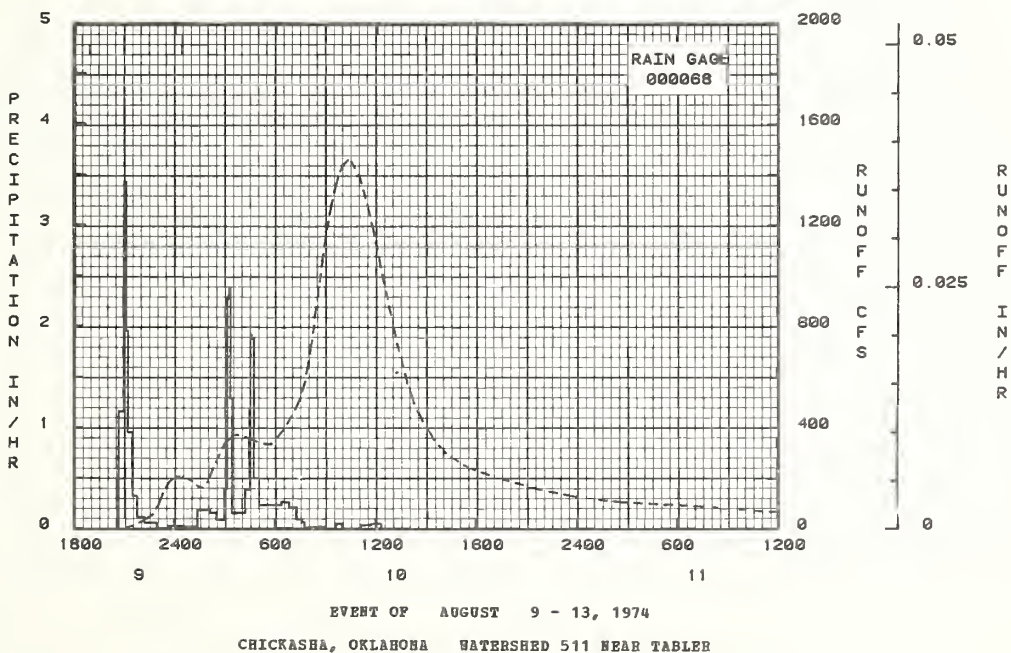
1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TAHLER												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 9 - 13, 1974												
8-9	RG 000068	0.001	8-9	2040	0.0	0.0	8-9	2100	2.430	0.0		
				2057	1.1647	0.33		2130	10.330	0.0001		
				2104	3.4286	0.73		2200	28.950	0.0003		
				2112	1.9500	0.99		2241	56.860	0.0011		
				2129	0.9529	1.26		2300	90.430	0.0017		
				2146	0.3176	1.35		2318	139.110	0.0026		
				2213	0.1111	1.40		2341	187.760	0.0042		
				2257	0.0545	1.44		2400	204.120	0.0059		
				2337	0.0	1.44	8-10	6	207.460	0.0064		
			8-10	24	0.0255	1.46		18	207.460	0.0075		
				123	0.0203	1.48		30	205.230	0.0086		
				208	0.1867	1.62		100	192.070	0.0111		
				231	0.1565	1.68		130	161.610	0.0135		
				300	0.0828	1.72		141	161.610	0.0142		
				309	0.4000	1.78		200	187.760	0.0157		
				314	2.2800	1.97		218	238.490	0.0173		
				320	2.4000	2.21		241	294.070	0.0200		
				327	1.2857	2.36		300	339.168	0.0226		
				343	0.1500	2.40		330	368.320	0.0272		
				414	0.1548	2.48		341	372.560	0.0290		
				431	0.3882	2.59		348	372.560	0.0301		
				436	1.9200	2.75		430	354.310	0.0368		
				444	1.8750	3.00		530	333.719	0.0457		
				502	0.5000	3.15		548	336.438	0.0484		
				528	0.2308	3.25		630	392.628	0.0550		
				601	0.2364	3.38		700	446.188	0.0605		
				624	0.2348	3.47		730	517.020	0.0668		
				651	0.2667	3.59		748	585.208	0.0711		
				717	0.2077	3.68		800	665.780	0.0743		
				737	0.0900	3.71		811	746.770	0.0777		

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.0002608.

1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 511 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 AUGUST 9 - 13, 1974 (CONTINUED)										
			8-10	747	0.0600	3.72	8-10	823	849.310	0.0819
				752	0.0	3.72		836	950.918	0.0870
				755	0.0	3.72		848	1057.168	0.0922
				829	0.0176	3.73		900	1156.698	0.0980
				904	0.0171	3.74		918	1273.870	0.1075
				938	0.0	3.74		941	1388.330	0.1208
				1002	0.0500	3.76		1000	1439.658	0.1325
				1037	0.0	3.76		1018	1459.418	0.1438
				1109	0.0	3.76		1030	1451.990	0.1514
				1144	0.0343	3.78		1100	1395.610	0.1700
				1220	0.0500	3.81		1130	1269.178	0.1874
								1153	1163.458	0.1995
								1211	1063.688	0.2082
								1230	967.610	0.2166
								1248	875.270	0.2238
								1311	761.898	0.2320
								1330	671.178	0.2379
								1353	578.408	0.2442
								1418	496.120	0.2500
								1448	426.530	0.2560
								1530	351.540	0.2631
								1611	300.540	0.2690
								1730	243.240	0.2783
								1930	196.420	0.2898
								2130	160.140	0.2991
								2400	124.800	0.3084
			8-11	300				300	104.510	0.3173
								730	88.380	0.3286
								1800	65.870	0.3498
								2400	51.540	0.3590
			8-12	600				600	43.800	0.3664
								1200	41.170	0.3731
								2130	35.030	0.3825
								2400	30.540	0.3846
			8-13	600				600	22.650	0.3888
								1300	17.640	0.3925
								1930	14.360	0.3952
								2130	9.780	0.3958
								2400	9.780	0.3965

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.



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		
1974	P 0.11	2.11	2.99	3.30	4.40	1.67	0.22	5.74	2.77	4.28	2.07	1.27	30.93		
	Q 0.046	0.096	0.257	0.065	0.176	0.029	0.0	0.0	0.0	0.004	0.151	0.090	0.914		
STA AV	P 0.77	1.04	1.85	2.76	3.78	2.80	1.84	2.75	4.01	2.39	1.81	0.89	26.67		
	Q 0.004	0.011	0.033	0.033	0.062	0.023	0.0	0.001	0.0	0.000	0.016	0.011	0.195		

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge	Maximum Volume for Selected Time Interval														
	Date	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days	Date	Date	Date	Date				
	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date			
1974	3-11	0.001	3-11	0.001	3-11	0.003	3-11	0.008	3-11	0.016	3-10	0.032	3-10	0.061	3-9	0.159

MAXIMUMS FOR PERIOD OF RECORD															
Date	Maximum Discharge	Date	Maximum Volume	Date	Maximum Discharge	Date	Maximum Volume	Date	Maximum Discharge	Date	Maximum Volume	Date	Maximum Discharge		
5-11	0.004	5-11	0.004	5-11	0.007	5-11	0.021	5-11	0.038	5-6	0.070	5-6	0.127	5-4	0.278
1964		1964		1964		1964		1964		1969		1969		1969	

NOTES: Watershed conditions: For area between stations 110 and 111 as determined 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.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.38	0.0	0.0	0.22	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	0.09	0.0	0.0	1.17		
3	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.03	0.0	0.0	0.25	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.02	0.14	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	0.18	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.05	0.0	0.08	0.0	0.07		
7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.04	0.05	0.0		
8	0.0	0.0	1.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.05	0.0	0.0	0.0	0.0	0.0	0.0	2.16	0.0	0.0	0.39	0.0		
10	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.87	0.0	0.0	0.16	0.63		
11	0.0	0.0	0.0	1.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13		
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	0.12	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0		
15	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0		
20	0.0	1.62	0.25	0.05	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0		
21	0.0	0.38	0.0	0.0	0.50	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	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.07	1.18	1.21	0.0	0.0		
25	0.0	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.08	0.06	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
27	0.04	0.0	0.0	0.0	0.0	0.0	0.0	2.06	0.0	0.01	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0		
29	0.0	0.0	0.0	1.96	0.0	0.0	0.08	0.0	0.0	0.0	0.05	0.0		
30	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	1.36	0.0	0.20		
31	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.26	0.0	0.23	0.0		
TOTAL	0.11	2.11	2.99	3.30	4.40	1.67	0.22	5.74	2.77	4.28	2.07	1.27		
STA AV	0.77	1.04	1.85	2.76	3.78	2.80	1.84	2.75	4.01	2.39	1.81	0.89		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED 110 NEAN ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.990	1.647	3.180	2.669	5.812	3.531	0.0	0.0	0.0	0.0	4.861	1.816
2	0.990	1.565	3.130	2.457	25.123	3.261	0.0	0.0	0.0	0.0	6.772	1.734
3	0.990	1.736	3.114	2.057	22.352	2.985	0.0	0.0	0.0	0.0	12.504	1.746
4	0.990	1.986	2.954	1.760	15.816	2.624	0.0	0.0	0.0	0.0	15.147	1.931
5	0.990	1.894	2.547	1.734	12.356	2.299	0.0	0.0	0.0	0.0	13.454	2.122
6	1.000	1.580	2.395	1.802	10.724	2.165	0.0	0.0	0.0	0.0	10.825	2.179
7	1.071	1.517	2.410	1.721	9.335	2.179	0.0	0.0	0.0	0.0	8.756	2.351
8	1.127	1.442	3.403	1.632	8.396	2.337	0.0	0.0	0.0	0.0	7.570	2.380
9	1.011	1.430	10.530	1.620	7.184	2.241	0.0	0.0	0.0	0.0	7.100	2.366
10	0.990	1.419	26.055	1.701	5.472	1.910	0.0	0.0	0.0	0.0	6.776	2.359
11	0.980	1.317	33.815	2.280	4.427	1.437	0.0	0.0	0.0	0.0	6.685	2.861
12	0.920	1.104	30.281	2.992	3.694	0.990	0.0	0.0	0.0	0.0	6.307	3.367
13	0.975	1.081	23.605	3.604	3.150	0.614	0.0	0.0	0.0	0.0	5.537	3.636
14	1.415	1.160	16.837	3.792	2.781	0.575	0.0	0.0	0.0	0.0	4.930	3.670
15	1.780	1.239	13.311	3.759	2.636	0.354	0.0	0.0	0.0	0.0	4.691	3.670
16	1.842	1.239	10.655	3.417	2.620	0.221	0.0	0.0	0.0	0.0	4.347	3.652
17	1.917	1.160	8.926	3.116	2.605	0.081	0.0	0.0	0.0	0.0	3.630	3.531
18	1.930	1.081	7.880	2.737	2.486	0.066	0.0	0.0	0.0	0.0	2.736	3.432
19	1.944	1.070	7.147	2.301	2.244	0.104	0.0	0.0	0.0	0.0	2.530	3.531
20	2.012	2.360	6.666	2.069	1.871	0.106	0.0	0.0	0.0	0.0	2.605	3.652
21	1.944	5.346	5.960	2.026	1.734	0.081	0.0	0.0	0.0	0.0	2.605	3.670
22	1.930	14.542	5.746	1.917	1.720	0.055	0.0	0.0	0.0	0.0	2.500	3.670
23	1.930	15.084	5.124	1.746	1.696	0.007	0.0	0.0	0.0	0.0	2.395	3.652
24	1.944	12.222	5.020	1.707	1.617	0.0	0.0	0.0	0.0	0.0	2.380	3.565
25	2.012	9.606	4.981	1.632	2.129	0.0	0.0	0.0	0.0	0.0	2.311	3.652
26	1.957	6.884	4.769	1.620	3.289	0.0	0.0	0.0	0.0	0.0	1.872	3.652
27	2.040	5.047	4.830	1.620	4.529	0.0	0.0	0.0	0.0	0.0	1.646	3.547
28	2.151	3.666	4.636	1.672	4.690	0.0	0.0	0.0	0.0	0.0	1.620	3.547
29	2.255		4.000	2.091	4.496	0.0	0.0	0.0	0.0	0.145	1.646	3.670
30	2.227		3.534	2.931	4.015	0.0	0.0	0.0	0.0	1.214	1.804	3.811
31	1.934		3.116		3.794		0.0			2.835		1.961
MEAN	1.5546	3.6224	8.7277	2.2730	5.9610	1.0075	0.0	0.0	0.0	0.1353	5.2848	3.0448
INCHES	0.046	0.096	0.257	0.065	0.176	0.029	0.0	0.0	0.0	0.004	0.151	0.090
STA AV	0.004	0.011	0.033	0.033	0.062	0.023	0.0	0.001	0.0	0.000	0.016	0.011

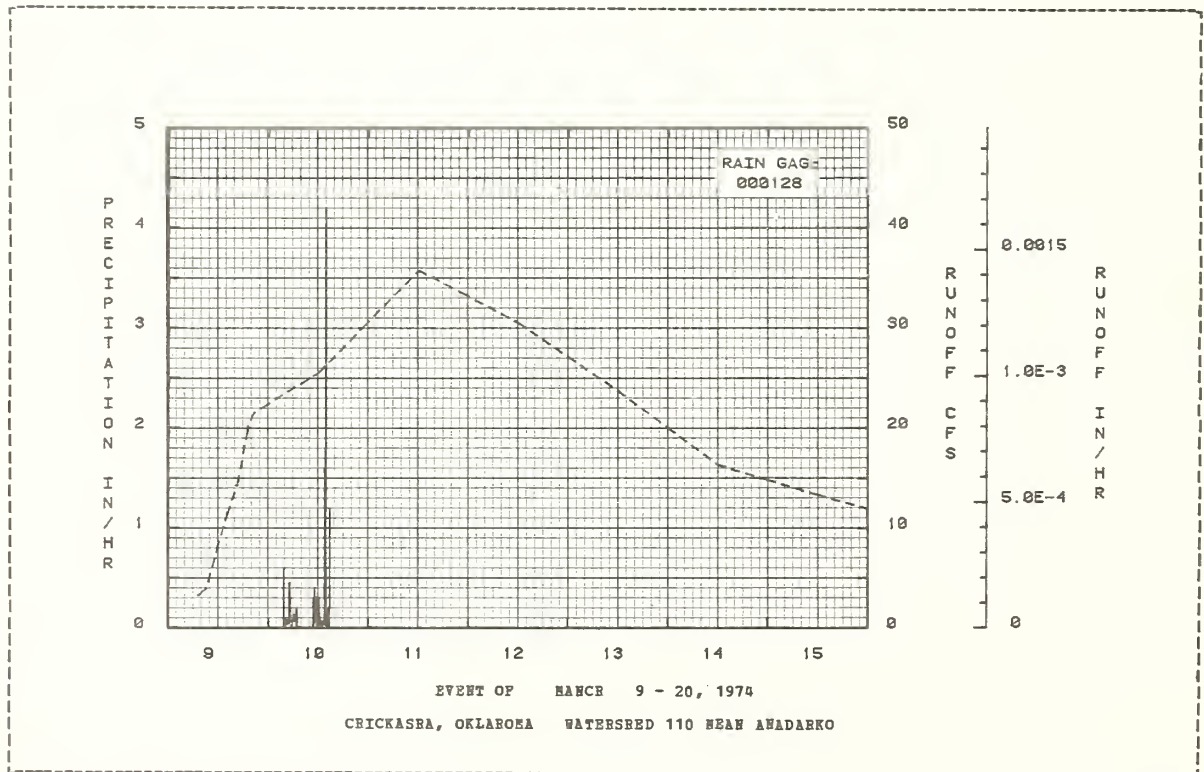
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .0009513. To convert discharge in inches to AC-FT, multiply by 2,085. STA AV based on 12 yr (1963-74) record period.

1974 SELECTED NUHOFF EVENT CHICKASAW, OKLAHOMA WATERSHED 110 NEAN ANADARKO												
ANTECEDENT CONDITIONS			RAINFALL				NUHOFF					
Date	Mainfall (inches)	Runoff (inches)	Date	Time of Day	Intensity (in/hr)	Acc. (inches)	Date	Time of Day	Rate (cfs)	Acc. (inches)		
Mo-Day			Mo-Day				Mo-Day					
EVENT OF HANCR 9 - 20, 1974												
RG 000128			RG 000128									
3-10	0.0		3-10	335	0.0	0.0	3-9	700	3.260	0.0		
3-9		0.001		336	0.6000	0.01		900	3.960	0.0003		
				409	0.0	0.01		1200	8.650	0.0010		
				416	0.0857	0.02		1400	11.420	0.0018		
				432	0.0375	0.03		1630	14.520	0.0031		
WATERSHED CONDITIONS:				440	0.0750	0.04		1900	20.150	0.0049		
From a revised survey;				453	0.0462	0.05		2030	21.580	0.0061		
sowed crop - 28%; row crop -				457	0.1500	0.06		2400	22.470	0.0091		
6%; alfalfa - 6%; pasture				501	0.4500	0.09	3-10	1200	25.550	0.0206		
and range - 34%; and miscel-				504	0.4000	0.11		2400	30.650	0.0339		
laneous - 26%.				514	0.3000	0.16	3-11	1200	35.750	0.0497		
				519	0.1200	0.17		2400	33.110	0.0661		
				528	0.0667	0.18	3-12	1200	30.470	0.0812		
				542	0.0	0.18		2400	27.075	0.0949		
				550	0.0750	0.19	3-13	1200	23.680	0.1070		
				559	0.0667	0.20		2400	19.985	0.1174		
				611	0.1000	0.22	3-14	1200	16.290	0.1260		
				620	0.1333	0.24		2400	14.785	0.1334		
				636	0.1125	0.27	3-15	1200	13.280	0.1401		
				643	0.0	0.27		2400	11.900	0.1460		
				646	0.2000	0.28	3-16	1200	10.520	0.1514		
				653	0.0857	0.29		2400	9.680	0.1562		
				656	0.0	0.29	3-17	1200	8.840	0.1606		
				1040	0.0	0.29		2400	8.345	0.1647		
				1045	0.0	0.29	3-18	1200	7.850	0.1685		
				1047	0.3000	0.30		2400	7.475	0.1722		
				1052	0.0	0.30	3-19	1200	7.100	0.1756		
				1102	0.0600	0.31		2400	6.915	0.1790		
				1105	0.4000	0.33	3-20	1200	6.730	0.1822		
				1113	0.0750	0.34		2400	6.290	0.1853		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00039638.

1974 SELECTED HUHOPF EVENT			CHICKASBA, OKLAHOMA WATERSHED 110 NEAR AWADARKO							
ANTECEDENT CONDITIONS			RAINFALL			HUHOPF				
Date	Rainfall	Runoff	Date	Time	Intensity	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	9 - 20, 1974 (CONTINUED)					
			3-10	1117	0.1500	0.35				
				1122	0.2400	0.37				
				1134	0.1500	0.40				
				1138	0.3000	0.42				
				1142	0.0	0.42				
				1152	0.1200	0.44				
				1156	0.1500	0.45				
				1207	0.0545	0.46				
				1209	0.3000	0.47				
				1215	0.0	0.47				
				1225	0.0600	0.48				
				1231	0.1000	0.49				
				1258	0.0	0.49				
				1307	0.0667	0.50				
				1323	0.0375	0.51				
				1328	0.1200	0.52				
				1331	1.6000	0.60				
				1333	1.2000	0.64				
				1334	1.8000	0.67				
				1338	0.9000	0.73				
				1340	1.2000	0.77				
				1341	4.2000	0.84				
				1347	0.8000	0.92				
				1351	0.6000	0.96				
				1353	0.0	0.96				
				1406	0.1846	1.00				
				1413	0.1714	1.02				
				1419	0.1000	1.03				
				1429	0.0600	1.04				
				1435	0.0	1.04				
				1438	0.2000	1.05				
				1439	1.2000	1.07				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00039638.



CRICKASRA, OKLAHOMA WATERSHED 522 NEAR MINNEKAR

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--SR1/4 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: 132990.00 acres 207.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)		CRICKASRA, OKLAHOMA WATERSHED 522 NEAR MINNEKAR												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.14	1.69	2.28	3.71	3.69	2.92	0.33	5.67	3.95	4.67	1.31	1.33	31.69
	Q	0.165	0.192	0.385	0.337	0.397	0.241	0.038	0.132	0.101	0.185	0.203	0.161	2.538
STA AV	P	1.07	1.11	2.05	2.89	3.89	3.05	2.63	2.49	4.57	2.89	1.94	0.91	29.49
	Q	0.093	0.090	0.166	0.188	0.245	0.247	0.185	0.071	0.125	0.142	0.128	0.095	1.769

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 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.	
1974	4-30	0.012	4-30	0.012	4-30	0.023	3-10	0.055	4-29	0.088	4-29	0.117	4-29	0.146	4-29	0.241

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	Date	Maximum Discharge								
1964	5-10	0.056	1964	5-10	0.055	1964	5-10	0.108	1973	7-23	0.261	1973	7-23	0.438	1973	7-22	0.529	1973	7-22	0.595	1973	7-21	0.796

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.

1974	DAILY PRECIPITATION (inches)					CRICKASRA, OKLAHOMA WATERSHED 522 NEAR MINNEKAR							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	0.83	0.0	0.0	0.87	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	0.28	0.0	0.16	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.52	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.01	0.23	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	0.14	0.0	0.0	0.0	0.05	
6	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.11	0.0	0.23	0.0	0.07	
7	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.05	0.03	0.0	
8	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.09	0.0	0.0	0.0	0.0	0.0	0.0	2.00	0.0	0.0	0.33	0.0	
10	0.0	0.0	1.12	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.21	0.64	
11	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	
12	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.12	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	
15	0.0	0.05	0.0	0.0	0.0	0.0	0.02	0.0	1.16	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	1.37	0.0	0.0	0.02	0.0	0.0	0.0	
18	0.0	0.04	0.0	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	0.07	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	
20	0.0	1.01	0.32	0.02	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	
21	0.0	0.59	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.01	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	0.15	0.0	0.0	0.22	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.03	1.65	1.14	0.0	0.0	
25	0.0	0.0	0.0	0.0	1.74	0.0	0.0	0.0	0.15	0.16	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	
27	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.68	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	
29	0.0	0.0	0.0	2.16	0.0	0.0	0.08	0.0	0.0	0.0	0.06	0.0	
30	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.16	
31	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.27	0.0	0.22	0.0	
TOTAL	0.14	1.69	2.28	3.71	3.69	2.92	0.33	5.67	3.95	4.67	1.31	1.33	
STA AV	1.07	1.11	2.05	2.89	3.89	3.05	2.63	2.49	4.57	2.89	1.94	0.91	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 522 NEAR HINNEKAR												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	30.50	25.60	30.79	34.50	177.65	46.93	10.81	5.19	10.38	13.23	66.06	24.20
2	29.81	25.51	32.10	34.00	250.99	36.85	10.21	33.29	10.75	13.10	52.90	24.20
3	29.19	24.99	33.61	36.01	80.31	38.85	9.96	8.99	11.38	13.10	92.34	24.20
4	29.10	24.99	35.31	37.98	54.77	34.55	10.76	6.40	10.75	13.04	71.14	24.29
5	29.10	25.69	37.39	36.91	44.65	30.38	11.80	6.48	10.26	12.66	38.75	25.07
6	29.10	26.82	37.29	35.80	42.19	77.85	11.01	9.56	10.20	12.99	37.59	26.91
7	29.29	26.91	33.31	34.10	38.32	125.86	9.45	9.19	10.15	15.31	36.81	28.05
8	30.31	26.56	44.75	35.20	37.49	53.75	8.26	7.04	9.80	15.50	36.51	26.91
9	29.73	27.61	181.56	36.71	36.01	30.63	8.10	15.03	9.50	14.30	40.11	25.60
10	28.57	28.31	337.83	36.56	34.50	26.21	8.00	343.24	9.91	14.10	47.07	30.20
11	28.40	28.76	340.65	206.55	33.51	26.21	7.35	55.16	10.89	14.04	43.07	43.84
12	28.68	31.32	95.39	69.74	32.29	26.30	6.95	20.61	10.75	13.66	39.52	43.88
13	31.41	33.73	76.36	41.26	32.20	26.39	6.95	16.81	10.64	13.80	37.69	38.04
14	37.60	32.57	66.80	34.00	32.99	26.56	7.16	14.63	10.38	15.35	36.01	34.02
15	34.91	33.32	63.61	34.11	34.02	24.30	6.69	12.55	13.71	17.36	34.41	32.89
16	33.41	32.79	58.71	33.70	32.99	22.15	6.64	10.40	29.89	15.85	33.18	31.65
17	31.69	31.41	52.93	33.51	31.91	396.51	6.86	9.44	30.18	14.55	33.51	28.34
18	31.90	30.77	47.35	33.07	30.09	82.18	6.95	8.81	25.36	13.23	33.41	28.31
19	31.40	30.94	43.71	33.91	29.80	31.19	7.07	7.75	23.40	12.66	31.91	28.40
20	30.94	29.93	46.68	36.40	29.99	24.05	5.88	6.96	24.91	12.60	29.56	28.40
21	28.76	207.88	51.14	36.60	31.70	21.52	4.50	6.64	26.06	12.66	29.36	28.40
22	28.40	75.61	46.34	35.11	34.93	19.27	4.30	6.74	22.04	13.10	27.44	28.31
23	28.31	42.85	45.06	33.09	32.69	17.99	4.30	7.88	19.94	13.79	27.61	27.70
24	27.88	36.43	42.61	32.01	32.98	16.88	4.34	9.68	32.35	32.49	27.52	27.09
25	28.49	34.31	39.84	30.79	440.07	16.21	4.56	8.66	72.17	39.69	26.39	27.00
26	29.63	32.39	40.09	30.69	256.52	15.70	4.52	8.48	27.68	31.40	25.60	27.26
27	29.71	31.91	39.77	31.21	85.27	15.06	4.07	23.61	22.49	29.46	24.90	28.93
28	28.93	30.79	37.34	31.13	50.76	13.68	4.00	17.80	19.65	135.89	24.29	29.71
29	27.09		37.48	91.26	37.81	12.66	4.04	14.64	16.82	48.76	24.20	29.90
30	25.77		36.81	615.71	34.00	11.99	4.30	12.29	14.31	87.80	24.20	31.70
31	25.60		35.90		66.91		4.60	11.11		310.64		18.90
MEAN	29.793	38.240	69.306	62.720	71.623	44.955	6.917	23.710	18.889	33.422	37.769	29.106
INCHES	0.165	0.192	0.385	0.337	0.397	0.241	0.038	0.132	0.101	0.185	0.203	0.161
STA AV	0.093	0.090	0.166	0.184	0.245	0.247	0.185	0.071	0.125	0.142	0.128	0.095

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,083. STA AV based on 12 yr (1963-74) record period.

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; Red 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	
1974 P	0.12	1.84	1.96	4.39	2.98	1.11	0.97	5.23	3.75	5.30	1.58	1.59	30.82	
1974 Q	0.251	0.260	0.429	0.608	0.573	0.167	0.053	0.285	0.089	0.313	0.247	0.195	3.470	
STA AV P	0.92	1.23	1.91	2.91	3.82	3.22	2.23	3.29	4.29	2.88	2.09	1.07	29.88	
STA AV Q	0.130	0.128	0.268	0.349	0.486	0.418	0.101	0.177	0.212	0.220	0.219	0.134	2.841	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1974	4-30	0.058	4-30	0.055	4-30	0.102	4-29	0.218	4-29	0.272	4-29	0.308	4-29	0.423	4-29	0.636

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
5-24 1973	0.203	5-24 1973	0.200	5-24 1973	0.392	5-24 1973	0.888	5-24 1973	1.013	5-24 1973	1.090	5-24 1973	1.147	5-31 1973	2.221

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 7%; row crop - 1%; alfalfa - 2%; pasture and range - 82% miscellaneous - 8%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watershed 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 and 31 gages for 1967-74 on the watershed. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.20	0.0	0.0	0.35	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	0.79	0.0	0.22	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.05	0.0	0.0	0.65	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.04	0.30	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	0.11		
6	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.04	0.0	0.10	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.09	0.04	0.0		
8	0.0	0.0	0.30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.10	0.0	0.03	0.0	0.0	0.0	0.0	1.77	0.0	0.0	0.35	0.0		
10	0.0	0.0	1.19	0.0	0.0	0.0	0.0	2.17	0.0	0.0	0.25	0.83		
11	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.09	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.06	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.16	0.0	0.0		
15	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.01	0.0	0.0	0.0		
18	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0		
20	0.0	0.80	0.35	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0		
21	0.0	0.70	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	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	1.23	0.94	0.0	0.0		
25	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.17	0.43	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.08	0.0	0.0		
27	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.62	0.0	0.11	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.0		
29	0.0	0.0	0.0	2.91	0.0	0.0	0.67	0.0	0.0	0.0	0.07	0.0		
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	2.00	0.0	0.18		
31	0.0	0.0	0.0	0.53	0.53	0.0	0.0	0.0	0.0	0.29	0.0	0.23		
TOTAL	0.12	1.84	1.96	4.39	2.98	1.11	0.97	5.23	3.75	5.30	1.58	1.59		
STA AV	0.92	1.23	1.91	2.91	3.82	3.22	2.23	3.29	4.29	2.88	2.09	1.07		

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 and 31 gages for 1967-74 on the watershed. STA AV based on 14 yr for total period of record (1961-74).

1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED 512 AT TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.10	6.98	7.66	8.10	127.55	7.76	2.51	2.52	1.26	2.32	14.17	5.36
2	7.10	7.37	7.81	7.72	86.96	6.73	3.02	1.72	2.30	2.31	14.25	5.34
3	7.10	7.10	7.52	7.52	27.08	6.86	2.41	1.28	2.72	2.30	27.44	5.34
4	7.10	6.74	7.29	7.49	20.17	6.84	3.01	1.19	2.43	2.22	15.73	5.34
5	7.10	6.56	7.17	7.47	17.09	6.26	2.89	1.12	2.15	2.12	9.40	5.40
6	7.05	6.54	7.42	7.31	15.49	10.06	2.43	1.22	2.05	1.99	8.01	5.73
7	6.86	6.54	7.34	7.29	14.91	15.61	2.06	1.34	2.04	2.14	7.29	5.48
8	7.35	6.56	7.89	7.31	13.91	6.94	1.80	1.04	2.04	2.38	6.84	5.07
9	7.10	6.70	12.23	7.47	13.15	6.04	1.65	13.63	2.04	2.41	7.43	5.05
10	6.72	6.72	84.76	7.54	12.02	5.42	1.60	192.29	2.03	2.41	9.48	6.86
11	6.50	6.72	39.38	48.29	11.52	5.30	1.45	11.33	1.94	2.42	8.13	11.56
12	7.24	6.72	14.88	14.69	10.67	5.07	1.47	4.69	1.81	2.54	6.58	8.90
13	8.73	6.72	12.57	10.61	10.11	5.05	1.49	3.41	1.79	2.79	6.30	7.23
14	8.96	6.72	11.65	9.08	9.61	5.12	1.55	2.68	1.82	2.95	5.88	6.72
15	8.96	6.72	11.07	8.57	8.99	4.84	1.57	2.39	2.64	3.18	5.69	6.36
16	8.99	6.70	10.39	8.47	8.50	4.44	1.60	2.06	7.07	2.96	5.67	6.01
17	9.18	6.66	9.94	8.13	7.94	4.80	1.48	1.81	3.43	2.92	5.67	5.73
18	9.32	7.15	9.85	7.94	7.66	4.76	1.35	1.71	2.88	2.92	5.67	5.82
19	8.96	6.87	9.76	8.07	7.32	4.09	1.29	1.63	2.82	2.92	5.63	5.84
20	8.52	6.65	10.59	8.13	7.15	3.76	1.26	1.55	2.83	2.91	5.38	5.84
21	8.13	49.91	12.47	8.26	7.29	3.54	1.16	1.42	2.88	2.82	5.36	5.84
22	7.89	13.15	11.79	8.07	7.37	3.51	1.08	1.34	2.70	2.72	5.48	5.82
23	7.69	9.77	11.46	7.69	6.82	3.49	0.98	1.35	2.45	2.69	5.44	5.67
24	7.52	8.25	10.42	7.34	6.81	3.40	0.88	1.75	5.59	4.52	5.09	5.50
25	7.47	7.54	9.64	7.29	23.18	3.38	0.86	2.00	7.08	7.41	5.05	5.36
26	7.31	7.31	9.05	7.31	11.91	3.37	0.82	2.49	3.61	5.47	5.16	5.34
27	7.27	7.29	8.96	7.47	9.02	3.26	0.76	2.74	2.76	4.47	5.18	5.34
28	7.12	7.34	8.96	7.39	8.13	3.04	0.67	1.98	2.52	29.73	5.20	5.36
29	7.08		8.90	43.01	7.54	2.81	2.19	1.69	2.42	6.81	5.34	5.52
30	6.93		8.57	264.82	7.58	2.55	1.96	1.41	2.40	100.89	5.46	6.03
31	6.91		8.47		8.93		1.23	1.13		77.99		3.61
MEAN	7.653	8.786	13.093	19.195	17.497	5.270	1.629	8.707	2.816	9.569	7.780	5.948
INCRS	0.251	0.260	0.429	0.608	0.573	0.167	0.053	0.285	0.089	0.313	0.247	0.195
STA AV	0.130	0.128	0.268	0.349	0.486	0.418	0.101	0.177	0.212	0.220	0.219	0.134

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 based on 12 yr (1963-74) record period.

1974 SELECTED RUNOFF EVENT CRICKASRA, OKLAHOMA WATERSHED 512 AT 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 AUGUST 9 - 13, 1974												
8-9	RG 000090 0.0	0.001	8-9	RG 000090 2100	0.0	0.0	8-9	2106	0.820	0.0		
				2101	1.2000	0.02		2123	6.180	0.0000		
				2102	1.2000	0.04		2130	18.300	0.0001		
				2104	0.3000	0.05		2153	40.170	0.0006		
				2107	0.0	0.05		2200	70.490	0.0009		
WATERSHED CONDITIONS: From a revised 1974 survey; sowed crop - 7%; row crop 1%; alfalfa - 2%; pasture and range - 82%; and mis- cellaneous - 8%.				2111	0.1500	0.06		2206	105.830	0.0013		
				2114	0.2000	0.07		2230	154.610	0.0035		
				2116	0.0	0.07		2241	154.610	0.0048		
				2119	0.2000	0.08		2311	140.370	0.0080		
				2122	1.4000	0.15		2341	161.370	0.0114		
				2123	1.7988	0.18		2400	158.640	0.0136		
				2124	3.6000	0.24		8-10 100	120.040	0.0197		
				2125	1.2000	0.26		200	79.800	0.0241		
				2126	2.4000	0.30		300	58.220	0.0272		
				2128	5.6988	0.49		430	71.310	0.0314		
				2129	11.4028	0.68		530	96.640	0.0351		
				2130	2.3984	0.72		611	153.280	0.0389		
				2131	6.0015	0.82		636	227.260	0.0424		
				2132	3.6000	0.88		700	318.350	0.0472		
				2134	1.8000	0.94		730	424.510	0.0554		
				2138	1.5000	1.04		741	530.050	0.0592		
				2140	0.9000	1.07		753	654.060	0.0644		
				2141	1.7988	1.10		811	780.050	0.0739		
				2143	1.2000	1.14		841	934.070	0.0928		
				2151	1.5000	1.34		900	918.820	0.1057		
				2152	3.6000	1.40		930	783.750	0.1244		
				2153	2.3984	1.44		1000	615.128	0.1398		
				2154	4.2011	1.51		1030	463.360	0.1517		
				2156	1.2000	1.55		1100	359.878	0.1607		
				2157	2.4000	1.59		1130	299.790	0.1680		

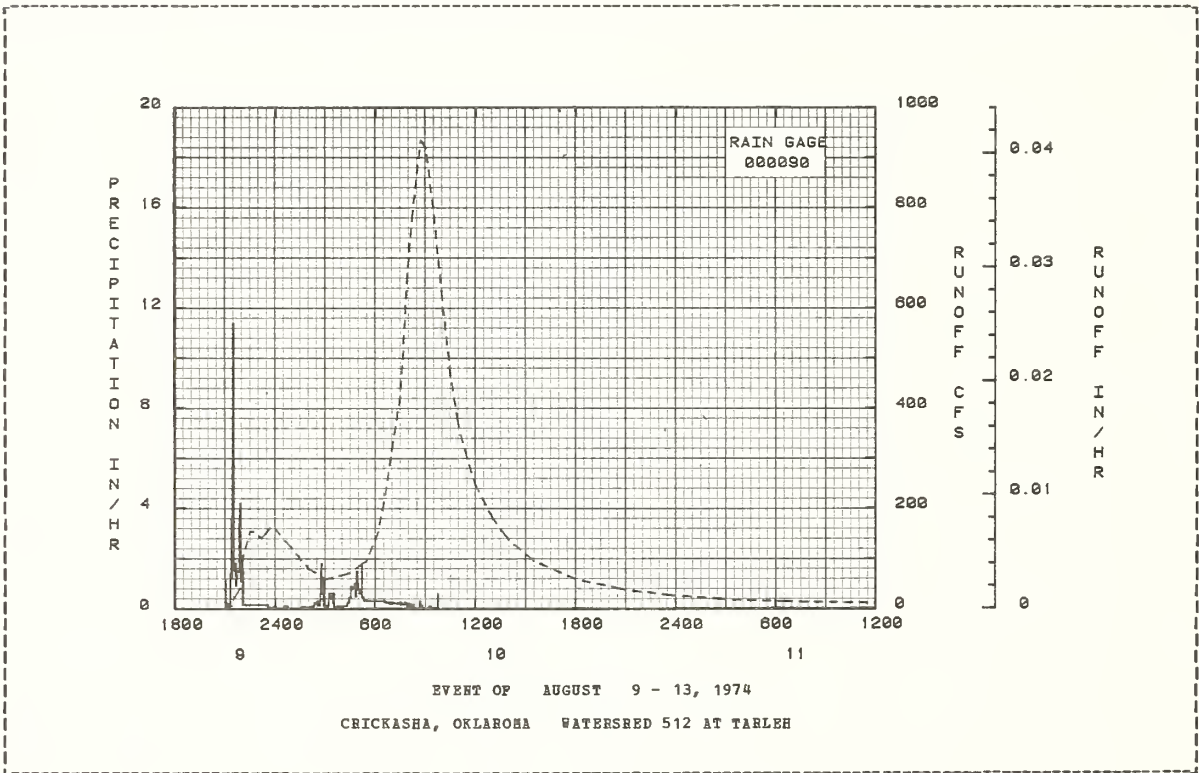
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0004402.

1974 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA				WATERSEED 512 AT 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 AUGUST 9 - 13, 1974 (CONTINUED)										
			8-9	2201	1.6500	1.70	8-10	1200	246.450	0.1740
				2205	1.5000	1.80		1300	181.270	0.1834
				2335	0.1400	2.01		1400	136.640	0.1904
				2341	0.0	2.01		1530	94.660	0.1980
				2355	0.0429	2.02		1800	58.220	0.2065
			8-10	2	0.0857	2.03		2100	36.300	0.2127
				32	0.0	2.03		2400	24.830	0.2167
				39	0.0857	2.04	8-11	300	17.610	0.2195
				46	0.0857	2.05		700	12.690	0.2222
				130	0.0	2.05		1200	9.640	0.2247
				138	0.0	2.05		1800	7.490	0.2269
				147	0.0667	2.06		2400	6.010	0.2287
				206	0.0316	2.07	8-12	1200	4.430	0.2315
				214	0.0750	2.08		2400	3.905	0.2337
				221	0.0857	2.09	8-13	1200	3.380	0.2356
				229	0.2250	2.12		2400	2.995	0.2373
				232	0.2000	2.13				
				236	0.3000	2.15				
				241	0.1200	2.16				
				243	0.3000	2.17				
				245	0.6000	2.19				
				247	1.5000	2.24				
				248	1.8000	2.27				
				249	1.8000	2.30				
				252	0.8000	2.34				
				253	1.2000	2.36				
				255	0.3000	2.37				
				304	0.0667	2.38				
				309	0.0	2.38				
				314	0.1200	2.39				
				318	0.6000	2.43				
				320	0.6000	2.45				
				323	0.4000	2.47				
				328	0.6000	2.52				
				331	0.2000	2.53				
				334	0.6000	2.56				
				344	0.0	2.56				
				350	0.1000	2.57				
				358	0.0750	2.58				
				406	0.0750	2.59				
				420	0.0857	2.61				
				425	0.2400	2.63				
				432	0.4286	2.68				
				434	0.9000	2.71				
				438	0.7500	2.76				
				446	0.8250	2.87				
				449	1.0000	2.92				
				453	0.4500	2.95				
				457	1.5000	3.05				
				500	1.0000	3.10				
				504	0.7500	3.15				
				510	0.6000	3.21				
				512	0.6000	3.23				
				513	1.8000	3.26				
				520	0.4286	3.31				
				636	0.2842	3.67				
				651	0.2400	3.73				
				658	0.1714	3.75				
				706	0.2250	3.78				
				722	0.1875	3.83				
				729	0.1714	3.85				
				734	0.2400	3.87				
				746	0.1500	3.90				
				751	0.2400	3.92				
				754	0.2000	3.93				
				802	0.0750	3.94				
				805	0.0	3.94				
				808	0.2000	3.95				
				815	0.0	3.95				
				819	0.1500	3.96				
				827	0.0	3.96				
				834	0.0	3.96				
				839	0.0	3.96				
				843	0.3000	3.98				
				850	0.0857	3.99				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004402.

1974 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED 512 AT TABLE							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
			EVENT OF AUGUST 9 - 13, 1974 (CONTINUED)							
			8-10	913	0.0	3.99				
				921	0.0750	4.00				
				945	0.0	4.00				
				946	0.6000	4.01				

NOTES: To convert runoff in CFS to IH/HR, multiply by 0.00004402.



CRICKASRA, OKLAHOMA WATERSHED 621 NEAR TABLER

LOCATION: Winter Creek Watershed above county farm to market road bridge North of Alex in Grady County, Okla., tributary to Washita River; Red River Basin. GAGING STATION--RR1/4 sec. 18, T. 6 E., R. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., about 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CRICKASRA, OKLAHOMA WATERSHED 621 NEAR TABLER	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.18	1.61	1.33	4.01	3.44	1.05	0.89	4.69	4.17	5.15	1.49	1.44	29.45
	Q	0.289	0.294	0.322	0.499	0.722	0.186	0.054	0.192	0.122	0.400	0.468	0.325	3.873
STA AV	P	1.08	1.20	1.70	2.88	4.05	2.94	2.22	2.89	4.50	2.89	2.09	1.12	29.59
	Q	0.173	0.174	0.239	0.302	0.584	0.331	0.128	0.126	0.299	0.276	0.324	0.207	3.163

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 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.	
1974	4-29	0.042	4-29	0.039	4-29	0.071	4-29	0.148	4-29	0.200	4-29	0.257	4-29	0.358	4-29	0.641

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		
5-10 1964	0.207	5-24 1973	0.188	5-24 1973	0.322	5-24 1973	0.486	9-22 1970	0.649	9-22 1970	0.791	9-22 1970	0.957	5-24 1973	1.603

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.

1974	DAILY PRECIPITATION (inches)												CRICKASRA, OKLAHOMA WATERSHED 621 NEAR TABLER	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	0.84	0.0	0.0	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	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.03	0.0	0.0	0.82	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.04	0.35	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	0.01	0.0	0.0	0.0	0.0	0.0	0.08
6	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.02	0.0	0.08	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.08	0.05	0.0	0.0	0.0
8	0.0	0.0	0.02	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.15	0.0	0.0	0.0	0.0	0.0	0.0	1.77	0.0	0.0	0.31	0.0	0.0	0.0
10	0.0	0.0	0.98	0.01	0.0	0.0	0.0	1.56	0.0	0.0	0.26	0.0	0.0	0.78
11	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.13	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	0.15	0.0	0.0	0.0	0.0
15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.02	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	0.34	0.0	0.0	0.0	0.0	0.0
17	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
18	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
19	0.02	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
20	0.0	0.70	0.33	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0
21	0.0	0.65	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.12	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	1.33	0.84	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	1.82	0.0	0.0	0.0	0.17	0.42	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.10	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.05	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	0.74	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	2.76	0.0	0.0	0.54	0.0	0.0	0.0	0.05	0.0	0.0	0.0
30	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	2.27	0.0	0.0	0.13	0.0
31	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.26
TOTAL	0.18	1.61	1.33	4.01	3.44	1.05	0.89	4.69	4.17	5.15	1.49	1.44	1.44	29.45
STA AV	1.08	1.20	1.70	2.88	4.05	2.94	2.22	2.89	4.50	2.89	2.09	1.12	1.12	29.59

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 14 yr (1961-74) record period.

1974		MEAN DAILY DISCHARGE (cfs)					CHICKASBA, OKLAHOMA WATERSHED 621 NEAR TABLEE					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.52	8.34	8.45	6.54	94.30	10.20	2.23	3.12	2.10	3.23	55.28	6.83
2	7.13	8.20	8.41	6.23	84.20	8.87	2.12	2.73	5.78	3.09	36.94	6.80
3	7.06	8.16	8.20	5.64	55.59	8.56	2.28	1.84	3.23	2.93	42.49	6.80
4	7.16	8.16	8.12	5.39	40.48	8.86	3.28	1.83	2.52	2.78	30.98	6.80
5	7.67	8.16	7.84	5.36	30.65	8.27	2.72	1.78	2.12	2.66	20.84	6.86
6	7.26	8.09	7.39	5.33	21.32	8.43	2.36	1.79	1.86	2.76	16.69	7.26
7	8.03	7.66	7.32	5.17	15.31	10.02	2.10	1.42	1.68	3.46	14.16	7.29
8	9.37	7.59	7.35	5.14	12.93	9.81	1.88	0.94	1.71	3.56	12.97	7.00
9	7.43	7.59	7.56	5.17	11.76	8.22	1.75	9.88	1.52	3.41	13.02	6.62
10	7.06	7.59	23.02	5.45	10.93	6.91	1.63	55.42	1.26	3.25	13.91	8.56
11	7.06	7.59	19.00	21.32	9.66	6.30	1.47	17.95	1.07	3.11	12.24	12.30
12	7.23	7.59	13.56	12.38	8.39	5.85	1.51	12.78	0.96	3.11	11.02	11.16
13	8.43	7.59	11.46	10.36	8.38	5.56	1.43	9.70	1.22	3.32	10.01	10.05
14	9.53	7.59	10.34	8.61	8.16	5.14	1.34	7.15	1.82	3.85	9.09	9.36
15	9.64	7.59	9.40	7.87	7.81	4.72	1.25	5.25	2.79	3.92	8.45	8.75
16	9.40	7.59	8.79	7.32	7.06	4.45	1.23	4.17	6.11	3.76	7.91	8.20
17	9.36	7.77	8.49	6.83	6.33	4.80	1.16	3.42	4.59	3.58	7.63	7.94
18	9.40	8.83	8.38	6.57	5.85	4.50	1.07	2.77	3.85	3.41	7.59	8.35
19	9.64	8.64	8.09	6.60	5.56	3.99	0.99	2.10	4.02	3.27	7.59	10.22
20	9.64	8.22	8.98	6.99	5.22	3.74	0.94	1.48	4.62	3.23	7.59	13.35
21	9.40	31.31	9.48	7.03	5.33	3.48	1.01	1.19	4.56	3.11	7.59	15.08
22	9.32	15.32	8.83	6.77	5.36	3.54	0.75	1.16	3.55	3.07	7.59	15.55
23	9.09	12.57	8.38	6.30	5.39	3.39	0.67	1.18	3.27	3.23	7.59	15.28
24	9.01	10.76	7.70	5.85	5.55	3.09	0.66	1.32	8.30	5.35	7.52	15.23
25	8.75	9.69	7.63	5.61	72.34	2.84	0.65	1.35	11.41	8.45	7.13	14.79
26	8.45	8.79	7.84	5.61	37.02	2.97	0.62	1.65	6.87	8.07	7.06	11.57
27	8.16	8.27	7.91	5.79	19.90	3.23	0.61	5.81	5.38	6.68	7.06	7.64
28	7.91	8.41	8.12	5.76	13.62	2.57	0.57	3.41	4.38	19.30	7.06	7.06
29	7.87		8.02	55.37	10.45	2.28	2.80	2.80	3.77	10.19	7.06	7.03
30	7.87		7.16	191.98	9.23	2.33	3.44	2.51	3.31	130.27	7.03	7.04
31	7.94		6.80		11.92		1.52	2.34		94.55		4.02
MEAN	8.348	9.417	9.291	14.878	20.838	5.564	1.549	5.557	3.654	11.547	13.969	9.380
INCHES	0.289	0.294	0.322	0.499	0.722	0.186	0.054	0.192	0.122	0.400	0.468	0.325
STA AV	0.173	0.174	0.239	0.302	0.584	0.331	0.128	0.126	0.299	0.276	0.324	0.207

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1,776. STA AV based on 12 yr (1963-74) record period.

CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT

LOCATION: Sugar Creek Watershed above Gracemont in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 9, T. 8N., E. 10 W., lat. 35 deg. 10 min. 30 sec. N., long. 98 deg. 15 min. 30 sec. W., one mile south of Gracemont, Okla., on downstream side of county road bridge.

AREA: 131780.00 acres 205.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA		WATERSHED 121 AT GRACEMONT	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1974	P	0.18	2.14	1.92	2.75	4.89	2.05	1.41	5.51	3.74	3.65	3.13	1.31	32.68			
	Q	0.058	0.154	0.147	0.078	0.242	0.111	0.003	0.093	0.034							
STA AV	P	0.74	0.91	1.74	2.48	3.73	3.43	1.89	2.77	4.95	2.06	1.66	1.07	27.43			
	Q	0.047	0.229	0.105	0.123	0.198	0.111	0.015	0.029	0.167	0.034	0.037	0.051	1.146			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1974	2-21	0.006	2-21	0.006	2-21	0.012	2-20	0.033	2-20	0.047	2-20	0.062	5-1	0.087	4-29	0.144
MAXIMUMS FOR PERIOD OF RECORD																
	9-21	0.064	9-21	0.062	9-21	0.122	9-21	0.318	9-21	0.497	9-21	0.653	9-21	0.815	9-21	1.238
	1965		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 11%; row crop - 12%; alfalfa - 3%; pasture and range - 57% and miscellaneous - 17%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.18-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). The stream gaging station was maintained from Oct. 1955 to Oct. 1963 by the U.S. Geological Survey. Precipitation data obtained from a Thiessen weighted average of 32 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, OK. Runoff records were discontinued October 1, 1974.

1974	DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA		WATERSHED 121 AT GRACEMONT	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.02	0.0	0.0	0.0	1.69	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	1.91	0.0	0.0	0.0			
3	0.0	0.0	0.01	0.0	0.0	0.53	0.04	0.08	0.0	0.0	0.66	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.01	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.02			
6	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.20	0.0	0.0	0.04	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0			
8	0.0	0.0	0.21	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.10	0.0	0.07	0.0	0.0	0.0	0.0	2.12	0.0	0.0	0.31	0.0	0.0	0.0			
10	0.0	0.0	1.33	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.03	0.59	0.0	0.0			
11	0.0	0.0	0.0	0.93	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.25	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			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0			
14	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0			
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.67	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	0.05	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0			
18	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			
19	0.01	0.0	0.0	0.06	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.0	0.0			
20	0.0	1.54	0.30	0.23	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.22	0.0	0.0	1.32	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	0.27	0.0	0.05	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.08	0.01	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	1.05	0.69	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	1.33	0.0	0.0	0.0	0.01	0.19	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.02	0.0	0.0	0.0	0.0			
27	0.05	0.0	0.0	0.10	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.02	0.0	0.63	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	1.40	0.0	0.0	0.98	0.0	0.0	0.0	0.07	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	1.10	0.0	0.32	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.09			
TOTAL	0.18	2.14	1.92	2.75	4.89	2.05	1.41	5.51	3.74	3.65	3.13	1.31					
STA AV	0.74	0.91	1.74	2.48	3.73	3.43	1.89	2.77	4.95	2.06	1.66	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 32 rain gages on the watershed. STA AV based on 14 yr. (1961-74) record period.

1974												
MEAN DAILY DISCHARGE (cfs)					CHICKASAW, OKLAHOMA				WATERSHED 121 AT GRACEMONT			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.07	10.91	17.61	10.48	228.00	14.60	0.43	0.49	6.20	NR	NR	NR
2	5.52	10.46	16.99	9.48	210.26	12.90	0.30	0.31	6.68	NR	NR	NR
3	5.19	10.27	16.82	8.89	116.81	18.48	0.23	0.71	5.68	NR	NR	NR
4	5.71	9.52	16.29	7.76	75.40	16.95	0.27	0.88	3.90	NR	NR	NR
5	5.80	9.35	15.69	7.15	49.63	14.20	0.21	1.79	3.24	NR	NR	NR
6	5.80	9.05	15.29	8.06	34.56	11.40	0.20	1.02	3.02	NR	NR	NR
7	5.89	8.89	13.89	8.68	26.93	11.02	0.20	0.80	2.95	NR	NR	NR
8	6.32	8.38	17.41	7.51	22.36	164.59	0.19	0.71	2.57	NR	NR	NR
9	5.80	9.13	23.16	7.25	18.98	85.24	0.11	1.02	2.07	NR	NR	NR
10	5.19	8.61	103.56	7.15	15.27	56.49	0.10	205.69	2.05	NR	NR	NR
11	5.19	8.61	109.66	42.84	13.00	42.56	0.10	80.13	2.23	NR	NR	NR
12	5.85	9.35	60.48	27.60	10.61	29.14	0.10	44.36	1.44	NR	NR	NR
13	7.48	9.84	41.89	20.65	9.31	20.09	0.10	31.20	0.79	NR	NR	NR
14	12.26	10.02	33.82	15.32	7.68	17.38	0.10	23.99	0.70	NR	NR	NR
15	15.15	11.05	28.56	12.24	5.95	14.43	0.11	13.19	0.99	NR	NR	NR
16	15.07	12.82	24.16	10.91	5.15	12.01	0.18	5.80	2.84	NR	NR	NR
17	15.07	13.10	21.43	9.96	4.74	16.67	0.11	3.29	3.75	NR	NR	NR
18	15.36	13.41	19.30	9.41	4.00	15.39	0.10	2.11	3.07	NR	NR	NR
19	14.46	15.14	18.30	11.02	3.25	10.55	0.10	1.70	22.95	NR	NR	NR
20	14.39	47.46	17.86	12.81	2.80	7.85	0.10	1.38	25.89	NR	NR	NR
21	14.75	322.23	22.11	19.60	36.82	6.15	0.10	0.94	9.68	NR	NR	NR
22	13.86	90.10	21.43	13.96	34.46	4.44	0.10	0.74	6.64	NR	NR	NR
23	13.56	60.45	19.80	12.01	30.50	3.38	0.10	0.85	9.16	NR	NR	NR
24	12.66	39.54	17.64	10.36	21.91	1.82	0.10	1.26	21.64	NR	NR	NR
25	12.15	28.45	15.85	8.54	162.81	0.99	0.10	1.56	13.07	NR	NR	NR
26	12.45	24.15	15.69	7.05	66.01	0.80	0.11	2.76	7.40	NR	NR	NR
27	12.15	21.94	16.21	6.80	42.48	0.71	0.19	45.76	5.77	NR	NR	NR
28	12.45	18.77	16.05	8.25	26.80	0.68	0.20	21.73	4.54	NR	NR	NR
29	12.07		14.34	37.23	18.80	0.55	7.66	9.13	3.59	NR	NR	NR
30	11.94		12.74	50.82	14.24	0.64	2.61	6.63	1.64	NR	NR	NR
31	11.49		11.88		21.95		0.84	5.71		NR	NR	NR
MEAN	10.294	30.393	26.319	14.327	43.273	20.402	0.498	16.694	6.205			
INCHES	0.058	0.154	0.147	0.078	0.242	0.111	0.003	0.093	0.034			
STA AV	0.047	0.229	0.105	0.123	0.198	0.111	0.015	0.029	0.167	0.034	0.037	0.051

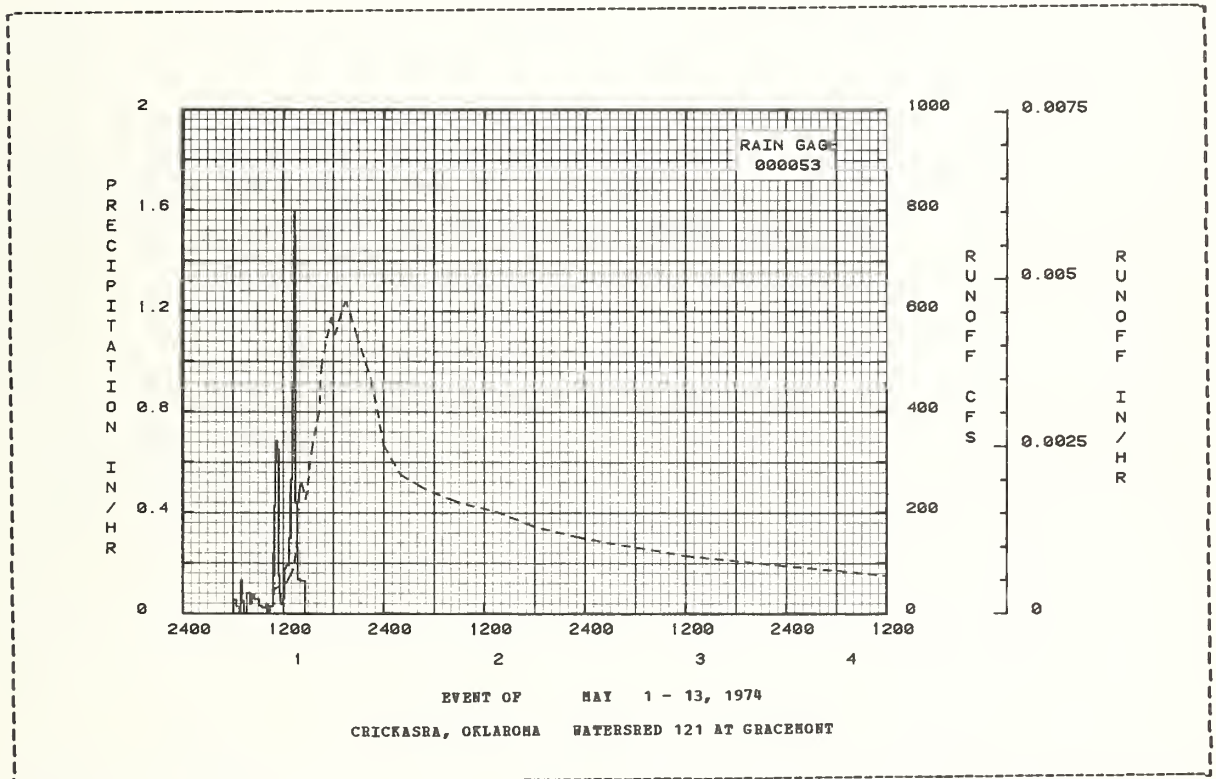
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001806. To convert discharge in inches to AC-FT, multiply by 10,982. STA AV based on 12 yr (1963-74) record period. The station was discontinued October 1, 1974.

1974												
SELECTED RUNOFF EVENT					CHICKASAW, OKLAHOMA				WATERSHED 121 AT GRACEMONT			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Mainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 1 - 13, 1974												
RG 000053			RG 000053									
5- 1	0.0	0.004	5- 1	600	0.0	0.0	5- 1	1041	46.900	0.0		
				622	0.0545	0.02		1223	61.800	0.0007		
				645	0.0261	0.03		1311	87.400	0.0011		
				653	0.0	0.03		1336	132.900	0.0015		
				655	0.0	0.03		1348	226.400	0.0018		
WATERSHED CONDITIONS: From a revised 1974 survey; sowed crop - 11%; row crop 12% alfalfa - 3%; pasture and range - 57%; and miscel- laneous - 17%.												
				704	0.1333	0.05		1400	254.400	0.0021		
				716	0.0500	0.06		1411	256.900	0.0025		
				738	0.0	0.06		1441	226.600	0.0034		
				800	0.0818	0.09		1530	339.600	0.0051		
				816	0.0375	0.10		1618	402.198	0.0074		
				832	0.0750	0.12		1630	489.500	0.0080		
				905	0.0545	0.15		1741	587.098	0.0128		
				925	0.0300	0.16		1806	552.398	0.0146		
				954	0.0207	0.17		1923	621.998	0.0203		
				1010	0.0375	0.18		2100	537.898	0.0273		
				1023	0.0	0.18		2230	461.898	0.0330		
				1044	0.0286	0.19		2400	332.500	0.0375		
				1049	0.2400	0.21	5- 2	200	273.800	0.0420		
				1053	0.1500	0.22		500	245.200	0.0479		
				1100	0.4286	0.27		900	218.500	0.0549		
				1106	0.6000	0.33		1330	200.700	0.0620		
				1113	0.6857	0.41		1800	171.000	0.0682		
				1125	0.6500	0.54		2400	147.200	0.0754		
				1133	0.1500	0.56	5- 3	1200	113.300	0.0872		
				1141	0.0750	0.57		2400	93.450	0.0965		
				1158	0.0353	0.58	5- 4	1200	73.600	0.1041		
				1208	0.0600	0.59		2400	60.950	0.1101		
				1218	0.1800	0.62	5- 5	1200	48.300	0.1151		
				1240	0.1909	0.69		2400	40.950	0.1191		
				1248	0.3000	0.73	5- 6	1200	33.600	0.1225		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00007526.

1974 SELECTED RUNOFF EVENT			CHICKASRA, OKLAHOMA WATERSRCD 121 AT GRACEMONT							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
			EVENT OF MAY 1 - 13, 1974 (CONTINUED)							
			5- 1	1253	0.4800	0.77	5- 6	2400	30.100	0.1254
				1302	0.5333	0.85	5- 7	1200	26.600	0.1279
				1306	0.6000	0.89		2400	24.400	0.1302
				1314	0.9000	1.01	5- 8	1200	22.200	0.1323
				1317	1.6000	1.09		2400	20.650	0.1342
				1321	1.5000	1.19	5- 9	1200	19.100	0.1360
				1323	1.2000	1.23		2400	17.050	0.1377
				1326	0.8000	1.27	5-10	1200	15.000	0.1391
				1337	0.4364	1.35		2400	14.050	0.1404
				1344	0.2571	1.38	5-11	1200	13.100	0.1417
				1353	0.1333	1.40		2400	11.750	0.1428
				1402	0.1333	1.42	5-12	1200	10.400	0.1438
				1435	0.1273	1.49		2400	9.900	0.1447
							5-13	1200	9.400	0.1456
								2400	8.550	0.1464

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007526.



CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE

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--SH1/4 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 TABLE	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1974 P	0.11	1.91	2.30	4.40	2.81	1.17	0.94	5.26	3.42	5.38	1.56	1.59	30.85			
1974 Q	0.260	0.285	0.500	0.748	0.708	0.194	0.043	0.368	0.084	0.364	0.236	0.210	4.000			
STA AV P	0.99	1.22	2.10	3.13	3.82	2.84	2.34	3.52	4.44	3.38	1.51	1.11	30.40			
STA AV Q	0.144	0.136	0.334	0.440	0.501	0.513	0.108	0.198	0.252	0.262	0.198	0.143	3.230			

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval			1 Day		2 Days		8 Days				
	Date	Vol.	Date	Vol.	6 Hours Date	12 Hours Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.			
1974	4-30	0.090	4-30	0.086	4-30	0.159	4-29	0.302	4-29	0.369	4-29	0.417	4-29	0.576	4-29	0.835

MAXIMUMS FOR PERIOD OF RECORD															
Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
6-5	0.281	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. 69.16-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 18 gages on the watershed. Precipitation and runoff records began Jan. 1965. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA		WATERSHED 513 NEAR TABLE	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.01	0.0	0.0	0.0	1.18	0.0	0.0	0.21	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	0.67	0.0	0.30	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.07	0.0	0.0	0.56	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.05	0.27	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	0.10				
6	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.03	0.0	0.10	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.09	0.04	0.0				
8	0.0	0.0	0.45	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.09	0.0	0.04	0.0	0.0	0.0	0.0	1.70	0.0	0.0	0.35	0.0				
10	0.0	0.0	1.33	0.0	0.0	0.0	0.0	2.49	0.0	0.0	0.24	0.81				
11	0.0	0.0	0.0	1.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24				
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.04	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.06	0.0	0.0				
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0				
15	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.34	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.0				
18	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
19	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0				
20	0.0	0.84	0.35	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0				
21	0.0	0.71	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.13	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	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	1.21	0.97	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.15	0.43	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.08	0.0	0.0				
27	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.52	0.0	0.11	0.0	0.0				
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0				
29	0.0	0.0	0.0	2.91	0.0	0.0	0.67	0.0	0.0	0.0	0.07	0.0				
30	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	2.04	0.0	0.21				
31	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.23				
TOTAL	0.11	1.91	2.30	4.40	2.81	1.17	0.94	5.26	3.42	5.38	1.56	1.59				
STA AV	0.99	1.22	2.10	3.13	3.82	2.84	2.34	3.52	4.44	3.38	1.51	1.11				

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 on the watershed. STA AV based on 10 yr (1965-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED 513 NEAR TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.06	4.20	4.40	4.66	93.63	4.90	1.32	0.68	1.14	1.38	7.08	2.87
2	4.06	4.18	4.44	4.62	56.76	4.40	1.19	0.77	1.69	1.34	10.19	2.97
3	4.06	4.06	4.22	4.58	19.01	4.35	1.10	0.63	1.53	1.33	10.47	3.07
4	4.06	3.95	4.05	4.37	14.02	4.42	1.41	0.63	1.23	1.33	7.33	3.07
5	4.06	3.93	3.86	4.33	12.03	4.13	1.43	0.61	1.14	1.31	4.54	3.04
6	4.06	3.91	3.99	4.31	10.92	8.45	1.20	0.65	1.08	1.26	3.92	3.34
7	4.06	3.80	3.86	4.22	9.97	9.81	0.99	0.70	1.03	1.49	3.48	3.18
8	4.06	3.72	4.49	4.22	9.30	4.98	0.88	0.61	0.96	1.53	3.39	2.88
9	4.06	3.90	6.68	4.35	8.96	4.32	0.82	3.04	0.88	1.53	3.92	2.79
10	4.06	3.93	75.49	4.62	8.36	3.62	0.76	151.85	0.88	1.52	4.93	4.15
11	4.06	3.93	24.02	31.80	7.73	3.31	0.65	6.81	0.93	1.47	4.34	8.15
12	4.13	3.93	9.09	8.69	7.17	3.11	0.61	2.81	0.80	1.47	3.65	6.45
13	4.55	3.93	7.13	6.06	6.78	3.09	0.61	1.90	0.77	1.54	3.49	5.10
14	4.64	3.91	6.58	5.17	6.58	3.16	0.63	1.49	0.79	1.67	3.13	4.26
15	4.74	3.82	6.20	5.05	6.44	3.05	0.64	1.33	1.08	1.74	3.01	3.82
16	4.78	3.78	5.77	4.91	6.47	2.82	0.63	1.20	2.10	1.69	3.18	3.55
17	4.89	3.77	5.73	4.78	5.93	2.94	0.57	1.08	1.76	1.67	3.30	3.34
18	4.89	4.23	5.80	4.78	5.54	2.90	0.53	0.97	1.61	1.61	3.31	3.31
19	4.78	4.17	5.51	4.91	5.22	2.48	0.52	0.87	1.63	1.60	3.28	3.31
20	4.74	4.41	6.00	5.05	4.95	2.18	0.49	0.77	1.80	1.59	3.11	3.31
21	4.62	33.56	7.02	5.05	4.91	2.02	0.46	0.69	1.78	1.54	3.09	3.31
22	4.47	8.49	6.36	4.88	4.87	2.00	0.41	0.68	1.49	1.54	3.16	3.31
23	4.35	5.55	6.11	4.52	4.66	1.98	0.40	0.65	1.46	1.73	3.05	3.28
24	4.31	4.31	5.48	4.45	4.65	1.84	0.40	0.68	2.31	2.79	2.79	3.10
25	4.23	3.96	5.38	4.35	9.95	1.78	0.40	0.72	3.21	3.88	2.78	2.97
26	4.31	3.93	5.38	4.33	7.86	1.81	0.41	0.87	2.23	3.13	2.94	2.87
27	4.33	3.93	5.38	4.33	5.51	1.76	0.44	1.65	1.76	2.40	2.94	2.86
28	4.31	4.00	5.36	4.26	4.66	1.68	0.39	1.48	1.48	19.90	2.78	2.87
29	4.22		5.20	22.70	4.22	1.58	0.51	1.27	1.35	4.42	2.76	3.00
30	4.20		4.95	202.73	4.15	1.41	0.98	1.15	1.38	69.85	2.85	3.38
31	4.20		4.87		5.14		0.63	1.08		46.88		1.99
MEAN	4.334	5.257	8.349	12.903	11.818	3.343	0.723	6.139	1.443	6.069	4.073	3.513
INCHES	0.260	0.285	0.500	0.748	0.708	0.194	0.043	0.368	0.084	0.364	0.236	0.210
STA AV	0.144	0.136	0.334	0.440	0.501	0.513	0.108	0.198	0.252	0.262	0.198	0.143

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1,026. STA AV based on 10 yr (1965-74) record period.

1974 SELECTED RUNOFF EVENT CRICKASRA, OKLAHOMA WATERSHED 513 NEAR TABLER												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 9 - 13, 1974												
8-9	RG 000090 0.0	0.001	8-9	RG 000090 2100	0.0	0.0	8-9	2106	0.490	0.0		
				2101	1.2000	0.02		2118	2.860	0.0000		
				2102	1.2000	0.04		2141	10.910	0.0002		
				2104	0.3000	0.05		2148	20.670	0.0004		
				2107	0.0	0.05		2200	30.180	0.0008		
				2111	0.1500	0.06		2218	31.160	0.0015		
				2114	0.2000	0.07		2241	24.280	0.0024		
				2116	0.0	0.07		2311	18.820	0.0033		
				2119	0.2000	0.08		2400	33.700	0.0050		
				2122	1.4000	0.15	8-10	23	35.830	0.0061		
				2123	1.7988	0.18		41	35.290	0.0069		
				2124	3.6000	0.24		141	28.750	0.0095		
				2125	1.2000	0.26		200	33.190	0.0103		
				2126	2.4000	0.30		311	52.470	0.0144		
				2128	5.6988	0.49		400	59.700	0.0181		
				2129	11.4028	0.68		500	58.210	0.0228		
				2130	2.3984	0.72		541	73.400	0.0264		
				2131	6.0015	0.82		611	117.810	0.0303		
				2132	3.6000	0.88		641	172.070	0.0361		
				2134	1.8000	0.94		648	203.490	0.0379		
				2138	1.5000	1.04		653	257.170	0.0394		
				2140	0.9000	1.07		700	337.198	0.0422		
				2141	1.7988	1.10		706	418.398	0.0453		
				2143	1.2000	1.14		711	532.418	0.0485		
				2151	1.5000	1.34		718	614.979	0.0538		
				2152	3.6000	1.40		730	738.678	0.0647		
				2153	2.3984	1.44		741	824.029	0.0763		
				2154	4.2011	1.51		753	872.648	0.0899		
				2156	1.2000	1.55		811	891.809	0.1113		
				2157	2.4000	1.59		823	861.280	0.1254		

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.00008054.

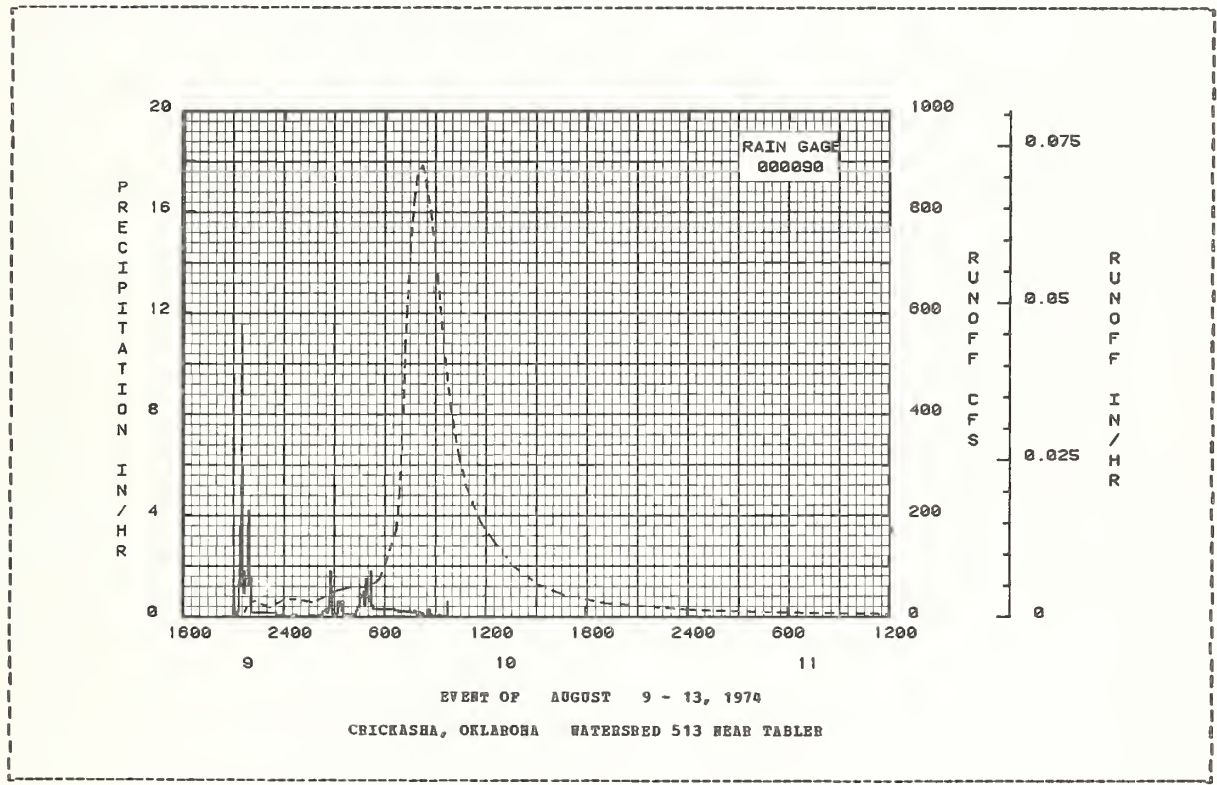
1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLEE

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 9 - 13, 1974 (CONTINUED)										
			8- 9	2201	1.6500	1.70	8-10	841	798.548	0.1454
				2205	1.5000	1.80		906	671.849	0.1701
				2335	0.1400	2.01		930	526.300	0.1894
				2341	0.0	2.01		953	418.398	0.2040
				2355	0.0429	2.02		1023	319.188	0.2188
			8-10	2	0.0857	2.03		1053	253.340	0.2304
				32	0.0	2.03		1141	187.360	0.2446
				39	0.0857	2.04		1241	140.010	0.2577
				46	0.0857	2.05		1341	99.050	0.2674
				130	0.0	2.05		1511	62.760	0.2771
				138	0.0	2.05		1641	42.730	0.2835
				147	0.0667	2.06		1911	26.900	0.2905
				206	0.0316	2.07		2400	14.220	0.2985
				214	0.0750	2.08	8-11	600	8.360	0.3040
				221	0.0857	2.09		1200	5.710	0.3074
				229	0.2250	2.12		1800	4.330	0.3098
				232	0.2000	2.13		2400	3.430	0.3117
				236	0.3000	2.15	8-12	1200	2.750	0.3147
				241	0.1200	2.16		2400	2.290	0.3171
				243	0.3000	2.17	8-13	1200	1.830	0.3191
				245	0.6000	2.19		2400	1.645	0.3208
				247	1.5000	2.24				
				248	1.8000	2.27				
				249	1.8000	2.30				
				252	0.8000	2.34				
				253	1.2000	2.36				
				255	0.3000	2.37				
				304	0.0667	2.38				
				309	0.0	2.38				
				314	0.1200	2.39				
				318	0.6000	2.43				
				320	0.6000	2.45				
				323	0.4000	2.47				
				328	0.6000	2.52				
				331	0.2000	2.53				
				334	0.6000	2.56				
				344	0.0	2.56				
				350	0.1000	2.57				
				358	0.0750	2.58				
				406	0.0750	2.59				
				420	0.0857	2.61				
				425	0.2400	2.63				
				432	0.4286	2.68				
				434	0.9000	2.71				
				438	0.7500	2.76				
				446	0.8250	2.87				
				449	1.0000	2.92				
				453	0.4500	2.95				
				457	1.5000	3.05				
				500	1.0000	3.10				
				504	0.7500	3.15				
				510	0.6000	3.21				
				512	0.6000	3.23				
				513	1.8000	3.26				
				520	0.4286	3.31				
				636	0.2842	3.67				
				651	0.2400	3.73				
				658	0.1714	3.75				
				706	0.2250	3.78				
				722	0.1875	3.83				
				729	0.1714	3.85				
				734	0.2400	3.87				
				746	0.1500	3.90				
				751	0.2400	3.92				
				754	0.2000	3.93				
				802	0.0750	3.94				
				805	0.0	3.94				
				808	0.2000	3.95				
				815	0.0	3.95				
				819	0.1500	3.96				
				827	0.0	3.96				
				834	0.0	3.96				
				839	0.0	3.96				
				843	0.3000	3.98				
				850	0.0857	3.99				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008054.

1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 9 - 13, 1974 (CONTINUED)										
			8-10	913	0.0	3.99				
				921	0.0750	4.00				
				945	0.0	4.00				
				946	0.6000	4.01				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008054.



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--WW1/4 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: 15206.00 acres 23.76 sq. miles

		MONTHLY PRECIPITATION AND RUNOFF (inches)					CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.10	1.81	3.23	3.40	5.46	1.55	2.24	4.15	2.96	3.95	2.57	1.36	32.78
	Q	0.025	0.146	0.847	0.144	0.944	0.219	0.005	0.161	0.004	0.182	0.559	0.064	3.300
STA AV	P	0.91	0.93	2.08	3.25	4.46	3.30	1.93	2.37	3.80	3.21	1.56	0.96	28.73
	Q	0.041	0.028	0.218	0.428	0.528	0.426	0.005	0.027	0.071	0.157	0.098	0.025	2.051

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.
	5-31	0.075	5-31	0.074	5-31	0.147	5-31	0.375	5-31	0.468	5-31	0.503	5-31	0.533	3- 8	0.778
MAXIMUMS FOR PERIOD OF RECORD																
	4-12	0.320	4-12	0.314	4-12	0.600	4-12	1.201	4-12	1.310	4-12	1.338	4-12	1.424	4- 9	1.720
	1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: From a revised 1974 survey; sowed crop - 37%; row crop - 2%; alfalfa - 2%; pasture and range - 52%; 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.

1974	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01	0.0	0.0	0.0	1.49	0.0	0.0	0.24	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	0.56	0.0	1.56	0.0
3	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.10	0.0	0.0	0.40	0.0
4	0.0	0.0	0.0	0.0	0.0	0.01	0.70	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	0.01	0.0	0.0	0.0	0.06
6	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.13	0.0	0.02
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.05	0.08	0.0
8	0.0	0.0	1.79	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0
9	0.06	0.0	0.02	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.28	0.0
10	0.0	0.0	1.22	0.0	0.0	0.0	0.0	1.49	0.0	0.0	0.18	0.69
11	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
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	0.09	0.0	0.0
14	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.09	0.0	0.0
15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0
20	0.0	1.16	0.20	0.62	0.02	0.0	0.0	0.0	0.21	0.0	0.0	0.0
21	0.0	0.44	0.0	0.0	0.35	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	0.01	0.0	0.0
23	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.16	1.16	0.68	0.0	0.0
25	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.03	0.83	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.02	0.0	0.0
27	0.02	0.0	0.0	0.05	0.0	0.0	0.0	0.42	0.0	0.06	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.61	0.0	0.0
29	0.0	0.0	0.0	1.74	0.0	0.0	1.54	0.0	0.0	0.0	0.07	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.22	0.0	0.21
31	0.0	0.0	0.0	0.0	2.61	0.0	0.0	0.0	0.0	0.16	0.0	0.18
TOTAL	0.10	1.81	3.23	3.40	5.46	1.55	2.24	4.15	2.96	3.95	2.57	1.36
STA AV	0.91	0.93	2.08	3.25	4.46	3.30	1.93	2.37	3.80	3.21	1.56	0.96

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 based on 8 yr (1967-74) record period.

1974		MEAN DAILY DISCHARGE (cfs)					CHICKASEA, OKLAHOMA			WATERSEED 311 NEAR POCASSET			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.47	0.44	0.98	1.38	159.38	23.61	0.02	0.46	0.09	0.02	7.06	0.79	
2	0.40	0.44	0.97	1.21	62.66	10.19	0.02	0.15	0.06	0.01	214.63	0.79	
3	0.33	0.44	0.92	1.19	16.05	16.38	0.04	0.06	0.16	0.01	43.46	0.80	
4	0.36	0.40	0.90	1.18	9.03	8.00	0.13	0.03	0.46	0.01	28.20	0.85	
5	0.36	0.39	0.84	1.12	6.91	4.53	0.13	0.08	0.17	0.01	9.84	0.92	
6	0.36	0.37	0.74	1.10	5.45	15.41	0.08	0.10	0.05	0.02	5.85	1.04	
7	0.37	0.36	0.69	1.02	4.03	15.97	0.06	0.04	0.01	0.03	4.57	1.16	
8	0.38	0.36	129.94	0.81	2.93	14.66	0.03	0.01	0.01	0.06	3.47	1.09	
9	0.33	0.36	92.12	0.69	2.22	11.14	0.01	0.02	0.00	0.07	3.02	0.93	
10	0.32	0.36	185.73	4.31	1.84	4.76	0.00	66.90	0.0	0.04	4.20	1.28	
11	0.32	0.36	54.98	6.76	1.81	3.09	0.0	17.60	0.0	0.03	4.74	2.35	
12	0.32	0.36	14.83	3.92	1.43	2.30	0.0	7.14	0.0	0.02	3.06	3.55	
13	0.33	0.36	8.55	1.95	1.08	1.72	0.0	4.45	0.0	0.02	2.18	3.10	
14	0.44	0.37	5.92	1.04	0.98	1.35	0.0	3.18	0.0	0.06	2.03	2.25	
15	0.54	0.39	4.09	0.95	0.91	1.11	0.0	1.69	0.00	0.08	1.73	1.80	
16	0.76	0.40	3.08	0.85	0.85	0.92	0.0	0.72	0.01	0.08	1.60	1.52	
17	0.79	0.40	2.66	0.75	0.78	0.79	0.0	0.17	0.01	0.08	1.53	1.36	
18	0.78	0.44	2.50	0.74	0.63	0.68	0.0	0.02	0.00	0.05	1.60	1.36	
19	0.74	0.42	2.42	0.78	0.56	0.57	0.0	0.00	0.01	0.05	1.69	1.47	
20	0.74	0.78	3.15	0.81	0.50	0.45	0.0	0.0	0.01	0.08	1.70	1.34	
21	0.77	68.22	3.91	5.41	0.51	0.39	0.0	0.0	0.01	0.10	1.32	1.20	
22	0.73	7.30	3.38	4.53	0.51	0.33	0.0	0.0	0.00	0.12	1.22	1.12	
23	0.68	3.20	2.54	3.44	0.44	0.32	0.0	0.0	0.02	0.11	1.34	1.11	
24	0.62	2.05	1.96	2.59	0.36	0.29	0.0	0.0	0.12	0.17	1.45	1.09	
25	0.58	1.45	1.92	1.58	0.45	0.24	0.0	0.0	0.40	0.33	1.21	0.93	
26	0.57	1.13	2.14	1.03	2.69	0.21	0.0	0.0	0.40	39.43	1.03	0.86	
27	0.56	1.00	2.14	0.87	1.19	0.07	0.0	0.0	0.18	3.07	0.87	0.86	
28	0.53	0.98	1.92	0.85	0.75	0.06	0.0	0.0	0.10	8.09	0.84	0.92	
29	0.51		1.87	3.38	0.53	0.07	0.02	0.0	0.08	4.52	0.80	1.03	
30	0.49		1.79	36.07	0.36	0.06	0.80	0.0	0.05	8.37	0.79	1.15	
31	0.48		1.73		315.55		1.71	0.34		50.87		0.70	
MEAN	0.515	3.340	17.462	3.076	19.464	4.656	0.099	3.328	0.080	3.743	11.901	1.313	
INCHES	0.025	0.146	0.847	0.144	0.944	0.219	0.005	0.161	0.004	0.182	0.559	0.064	
STA AV	0.041	0.028	0.218	0.428	0.528	0.426	0.005	0.027	0.071	0.157	0.098	0.025	

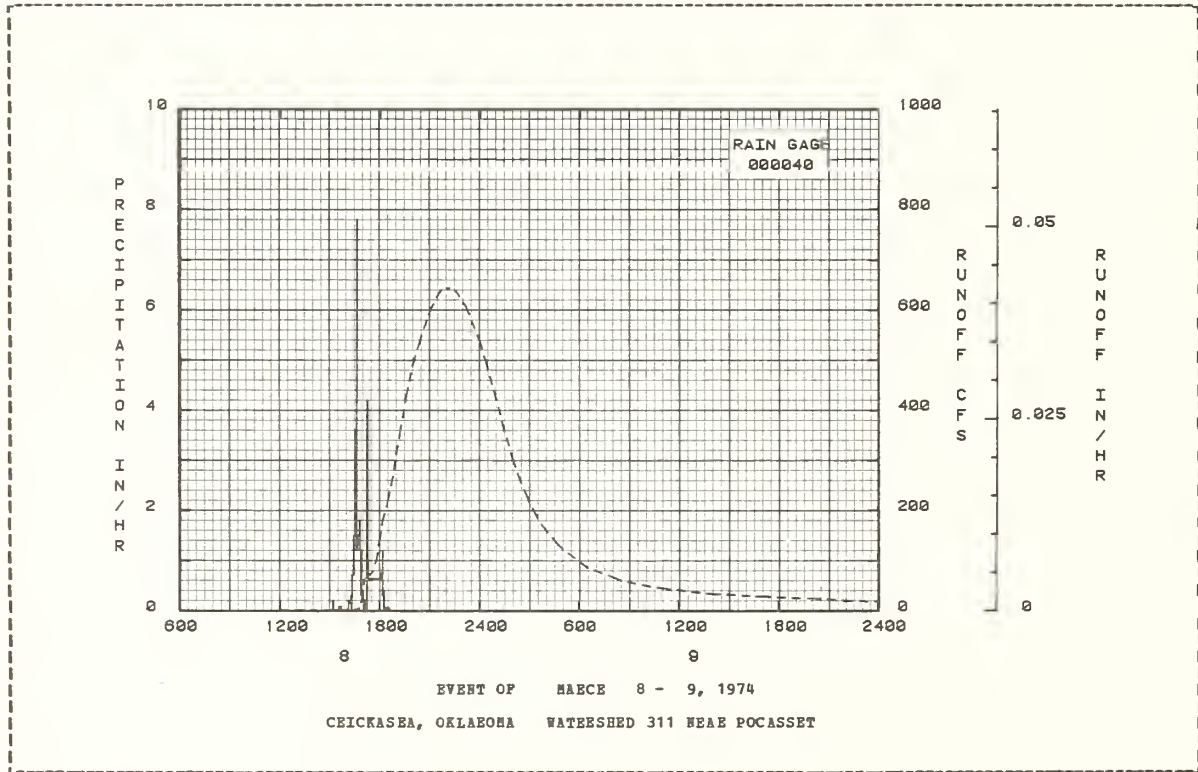
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1,267. STA AV based on 8 yr (1967-74) record period.

1974		SELECTED EUROFF EVENT			CHICKASEA, OKLAHOMA			WATERSEED 311 NEAR POCASSET				
PRECEDENT CONDITIONS		RAINFALL			RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCE 8 - 9, 1974												
3- 8	0.0	0.001	3- 8	1510	0.0	0.0	3- 8	1200	0.680	0.0		
				1513	0.2000	0.01		1630	0.570	0.0002		
				1535	0.0	0.01		1648	5.120	0.0002		
				1543	0.0750	0.02		1653	16.690	0.0003		
				1607	0.0	0.02		1700	38.870	0.0005		
WATERSEED CONDITIONS: From a revised 1974 survey; sowed crop - 37%; row crop - 2%; alfalfa - 2%; pasture and range - 52%; and miscel- laneous - 7%.												
				1613	0.2000	0.04		1706	61.650	0.0008		
				1617	0.1500	0.05		1736	78.780	0.0031		
				1619	0.3000	0.06		1748	100.410	0.0043		
				1620	0.0	0.06		1800	141.720	0.0059		
				1625	0.7200	0.12		1811	179.130	0.0078		
				1627	1.5000	0.17		1830	221.260	0.0119		
				1629	1.5000	0.22		1848	268.270	0.0167		
				1631	1.5000	0.27		1900	314.800	0.0205		
				1632	3.6000	0.33		1918	371.590	0.0272		
				1633	3.6000	0.39		1936	429.948	0.0351		
				1636	2.0000	0.49		2000	494.668	0.0471		
				1637	7.8019	0.62		2030	549.290	0.0641		
				1640	1.2000	0.68		2100	599.128	0.0829		
				1641	1.2000	0.70		2130	632.908	0.1030		
				1645	1.5000	0.80		2141	640.360	0.1106		
				1647	1.5000	0.85		2200	643.350	0.1238		
				1650	1.8000	0.94		2211	643.350	0.1315		
				1652	1.2000	0.98		2230	638.860	0.1448		
				1654	0.3000	0.99		2311	604.938	0.1725		
				1700	0.3000	1.02		2400	535.398	0.2028		
				1703	0.2000	1.03		3- 9	30	480.090	0.2194	
				1710	0.0	1.03		100	419.958	0.2341		
				1713	0.2000	1.04		130	357.580	0.2468		
				1714	0.0	1.04		200	301.780	0.2575		
				1715	0.6000	1.05		230	254.150	0.2666		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0006522.

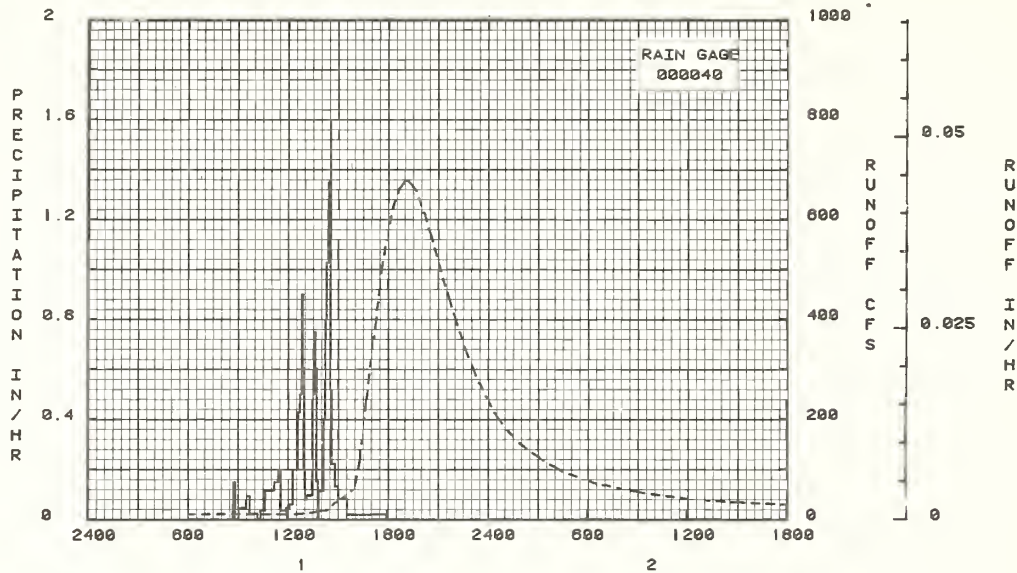
1974 SELECTED RUNOFF EVENT			CEICKASBA, OKLAHOMA WATERSHED 311 NEAR POCASSET								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 8 - 9, 1974 (CONTINUED)											
			3- 8	1716	4.2010	1.12	3- 9	300	216.600	0.2743	
				1719	1.0000	1.17		330	184.290	0.2808	
				1722	0.6000	1.20		406	155.100	0.2874	
				1806	0.6273	1.66		500	122.290	0.2956	
				1810	0.7500	1.71		630	84.980	0.3057	
				1811	1.2000	1.73		830	59.880	0.3152	
				1813	0.3000	1.74		1100	43.180	0.3236	
				1816	0.4000	1.76		1400	33.050	0.3310	
				1823	0.0	1.76		1730	26.570	0.3378	
				1834	0.0545	1.77		2030	22.540	0.3426	
				1838	0.0	1.77		2200	19.170	0.3447	
								2400	17.290	0.3470	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006522.



1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET							
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 1 - 4, 1974										
5- 1	RG 000040 0.0	0.005	5- 1	RG 000040 845	0.0	0.0	5- 1	600	10.620	0.0
				853	0.1500	0.02		1200	9.580	0.0039
				904	0.0	0.02		1230	9.830	0.0043
				931	0.0444	0.04		1330	14.100	0.0050
				944	0.0923	0.06		1423	18.850	0.0060
				1013	0.0207	0.07		1448	31.780	0.0067
				1024	0.0	0.07		1530	47.220	0.0085
				1041	0.0353	0.08		1600	61.650	0.0103
				1112	0.1161	0.14		1611	85.690	0.0111
				1128	0.1500	0.18		1618	108.230	0.0119
				1137	0.2000	0.21		1623	136.360	0.0125
				1156	0.0316	0.22		1630	169.000	0.0137
				1209	0.0462	0.23		1636	202.860	0.0149
				1219	0.0600	0.24		1641	227.870	0.0161
				1237	0.2000	0.30		1648	257.150	0.0179
				1244	0.4286	0.35		1653	290.070	0.0194
				1250	0.5000	0.40		1700	322.500	0.0218
				1254	0.9000	0.46		1706	351.810	0.0240
				1259	0.6000	0.51		1718	403.958	0.0289
				1302	0.2000	0.52		1730	461.810	0.0345
				1310	0.0750	0.53		1741	514.860	0.0404
				1329	0.0947	0.56		1800	577.540	0.0517
				1335	0.5000	0.61		1818	625.490	0.0634
				1339	0.7500	0.66		1836	658.388	0.0760
				1345	0.6000	0.72		1900	676.648	0.0934
				1349	0.1500	0.73		1911	676.648	0.1015
				1353	0.0	0.73		1941	655.370	0.1232
				1409	0.1125	0.76		2011	609.320	0.1438
				1415	0.4000	0.80		2041	554.888	0.1628
				1418	0.8000	0.84		2111	494.668	0.1799
				1425	1.0286	0.96		2141	438.770	0.1951
				1429	1.3500	1.05		2211	387.020	0.2086
				1432	1.6000	1.13		2241	337.020	0.2204
				1439	0.5143	1.19		2318	285.860	0.2329
				1450	0.2182	1.23		2400	238.430	0.2449
				1504	0.1286	1.26	5- 2	36	202.860	0.2535
				1534	0.0800	1.30		118	173.190	0.2621
				1758	0.0167	1.34		200	149.520	0.2695
								300	124.460	0.2784
								430	94.370	0.2891
								630	70.900	0.2999
								900	54.180	0.3101
								1200	39.800	0.3193
								1500	33.480	0.3265
								1900	28.120	0.3345
							5- 3	2400	23.960	0.3430
								600	19.170	0.3514
								1200	15.220	0.3582
								1800	12.510	0.3636
								2400	10.620	0.3681
							5- 4	1200	8.840	0.3757
								2400	7.835	0.3823

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006522.



EVENT OF HAY 1 - 4, 1974
 CRICKASBA, OKLAHOMA WATERSREED 311 NEAR POCASSET

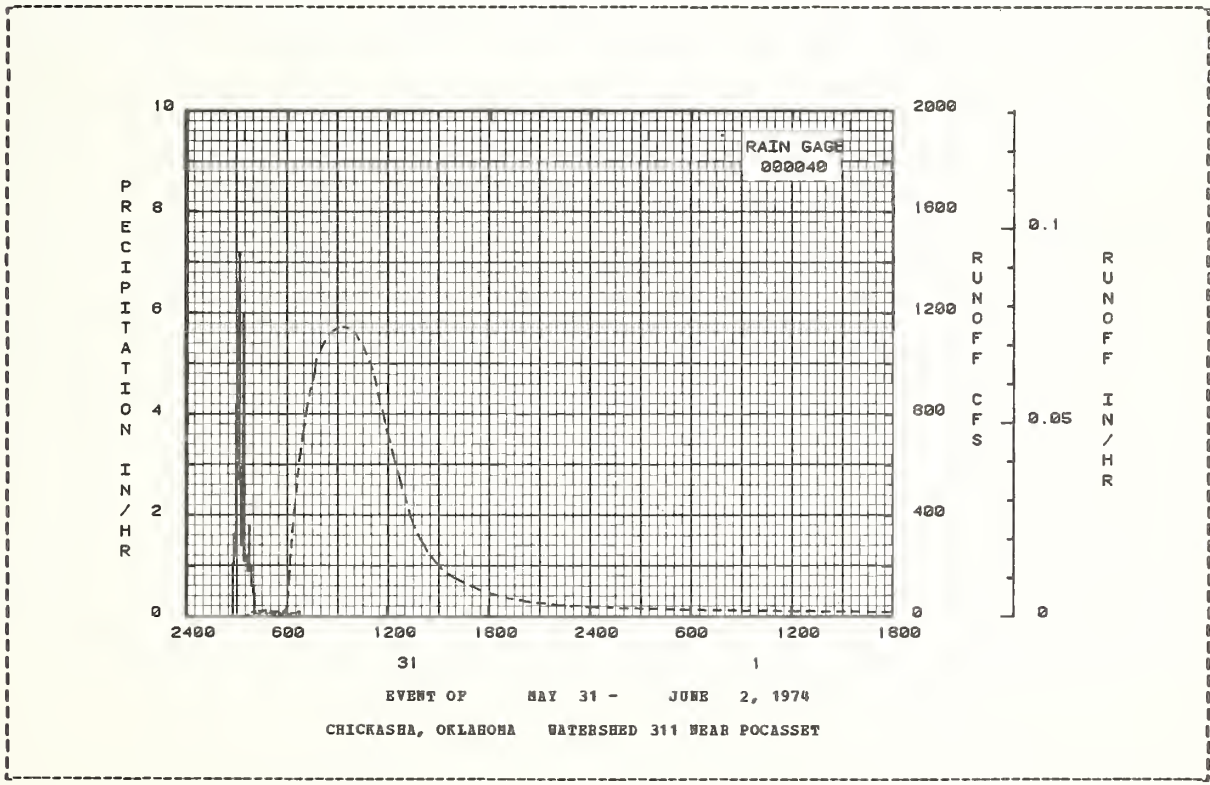
1974 SELECTED RUNOFF EVENT CRICKASBA, OKLAHOMA WATERSREED 311 NEAR POCASSET

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 HAY 31 - JUNE 2, 1974							
RG 000040			RG 000040							
5-31	0.0	0.0	5-31	284	0.0	0.0	5-31	300	0.230	0.0
				288	1.0500	0.07		318	0.360	0.0000
				252	1.6500	0.18		330	1.190	0.0000
				256	1.2000	0.26		341	8.140	0.0001
				259	4.2000	0.47		353	18.530	0.0002
WATERSHED CONDITIONS:				301	2.7000	0.56		406	23.240	0.0005
From a revised 1974 survey;				304	5.6000	0.84		418	24.320	0.0009
sowed crop - 37%; row crop				305	6.0000	0.94		436	23.240	0.0013
2%; alfalfa - 2%; pasture				306	6.6000	1.05		500	20.150	0.0019
and range - 52%; and miscel-				307	4.8000	1.13		518	19.170	0.0023
laneous - 7%.				308	7.2000	1.25		548	21.840	0.0029
				310	3.0000	1.35		553	30.120	0.0031
				313	2.6000	1.48		600	68.990	0.0035
				316	1.4000	1.55		606	151.900	0.0042
				318	2.4000	1.63		611	245.250	0.0053
				321	3.8000	1.82		618	340.408	0.0075
				322	6.0000	1.92		623	413.770	0.0095
				325	1.2000	1.98		630	464.398	0.0129
				331	1.1000	2.09		636	556.290	0.0162
				333	1.2000	2.13		641	619.590	0.0194
				336	1.2000	2.19		648	665.969	0.0243
				342	0.9000	2.28		653	723.240	0.0281
				344	1.8000	2.34		700	763.100	0.0337
				348	0.9000	2.40		706	803.898	0.0388
				351	1.0000	2.45		711	845.620	0.0433
				358	0.6000	2.52		723	905.590	0.0547
				402	0.4500	2.55		736	963.758	0.0680
				424	0.0545	2.57		741	1018.028	0.0733
				435	0.1091	2.59		800	1064.229	0.0948
				444	0.1333	2.61		830	1124.688	0.1305

NOTES: To convert runoff in CFS to IH/HR, multiply by 0.00006522.

1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET							
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.			Acc.		
					(inches)			(inches)		
EVENT OF MAY 31 - JUNE 2, 1974 (CONTINUED)										
			5-31	506	0.0545	2.63	5-31	900	1143.878	0.1675
				517	0.0545	2.64		918	1145.808	0.1899
				528	0.1091	2.66		936	1140.028	0.2123
				538	0.0600	2.67		1000	1120.868	0.2418
				600	0.0545	2.69		1030	1064.229	0.2774
				613	0.0462	2.70		1053	1005.248	0.3033
				629	0.0750	2.72		1111	942.428	0.3223
				638	0.0667	2.73		1123	872.810	0.3342
				644	0.1000	2.74		1141	798.958	0.3505
								1153	739.070	0.3605
								1206	688.938	0.3706
								1218	632.908	0.3793
								1236	563.340	0.3910
								1248	508.090	0.3979
								1306	450.229	0.4073
								1318	401.520	0.4129
								1336	351.810	0.4203
								1353	307.178	0.4263
								1418	260.158	0.4341
								1448	216.600	0.4418
								1511	187.770	0.4469
								1548	157.510	0.4538
								1630	134.100	0.4605
								1730	104.280	0.4682
								1830	82.200	0.4743
								2000	61.650	0.4814
								2200	46.190	0.4884
								2400	37.940	0.4939
			6- 1	600				600	28.120	0.5068
								1200	22.540	0.5167
								1800	17.910	0.5246
								2400	13.830	0.5308
			6- 2	1200				1200	9.830	0.5401
								2400	7.250	0.5468

NOTES: To convert runoff in CFS to I/HR, multiply by 0.00006522.



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., E. 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
1974	P 0.11	1.59	3.67	3.16	3.44	1.12	2.16	4.39	2.61	4.75	1.38	1.64	30.02
	Q 0.048	0.096	1.290	0.226	0.558	0.077	0.014	0.435	0.013	0.284	0.312	0.086	3.438
STA AV	P 1.62	1.08	4.71	2.90	4.25	3.13	2.18	3.56	4.41	3.85	1.83	0.96	34.44
	Q 0.251	0.097	1.557	0.469	0.735	1.064	0.035	0.307	0.055	0.252	0.342	0.079	5.244

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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					
	3-10	0.068	3-10	0.067	3-10	0.130	3-10	0.337	3-10	0.450	3-10	0.529	3-8	0.765	3-8	1.196

MAXIMUMS FOR PERIOD OF RECORD															
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
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
1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed Conditions: The land use in 1974 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 based on 2 yr (1973-1974) record period. For long-time precipitation records, see National Weather Service records at Chickasha, OK.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.01	0.0	0.0	0.0	1.44	0.0	0.0	0.09	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	0.38	0.0	0.44	0.0				
3	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.12	0.0	0.0	0.31	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.03	0.39	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	0.66	0.0	0.0	0.0	0.05	0.0	0.01				
7	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.05	0.05	0.0				
8	0.0	0.0	2.04	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.08	0.0	0.01	0.0	0.0	0.0	0.0	1.48	0.0	0.0	0.36	0.0				
10	0.0	0.0	1.38	0.02	0.0	0.0	0.0	1.85	0.0	0.0	0.17	0.78				
11	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23				
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0				
14	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.14	0.0	0.0				
15	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
19	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0				
20	0.0	0.90	0.23	0.01	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0				
21	0.0	0.55	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.0	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	1.10	1.27	0.0	0.0				
25	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.06	0.38	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.17	0.0	0.0				
27	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.56	0.0	0.10	0.0	0.0				
28	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.01	0.83	0.0	0.0				
29	0.0	0.0	0.0	1.76	0.0	0.0	1.76	0.0	0.0	0.0	0.05	0.0				
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.36	0.0	0.30				
31	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0	0.31	0.0	0.19				
TOTAL	0.11	1.59	3.67	3.16	3.44	1.12	2.16	4.39	2.61	4.75	1.38	1.64				
STA AV	1.62	1.08	4.71	2.90	4.25	3.13	2.18	3.56	4.41	3.85	1.83	0.96				

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 based on 2 yr (1973-1974) record period.

1974												
MEAN DAILY DISCHARGE (cfs)						CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.059	0.130	0.130	0.209	19.012	0.479	0.017	0.0	0.010	0.059	3.130	0.130
2	0.051	0.127	0.130	0.215	8.537	0.240	0.011	0.0	0.010	0.051	4.610	0.132
3	0.050	0.110	0.127	0.202	2.341	0.174	0.012	0.0	0.010	0.050	3.180	0.147
4	0.050	0.092	0.112	0.196	1.200	0.150	0.025	0.0	0.010	0.050	2.706	0.150
5	0.052	0.090	0.107	0.174	0.810	0.132	0.012	0.0	0.010	0.050	1.459	0.152
6	0.072	0.090	0.092	0.170	0.617	0.845	0.010	0.0	0.010	0.049	0.725	0.165
7	0.107	0.090	0.090	0.167	0.440	0.882	0.010	0.0	0.011	0.040	0.450	0.150
8	0.120	0.090	22.388	0.150	0.329	0.476	0.009	0.0	0.019	0.031	0.365	0.135
9	0.075	0.090	13.117	0.132	0.281	0.325	0.001	2.731	0.020	0.029	0.407	0.154
10	0.052	0.090	31.777	0.135	0.250	0.246	0.0	22.576	0.020	0.021	0.536	0.222
11	0.050	0.090	9.755	3.932	0.217	0.160	0.0	2.906	0.020	0.020	0.475	0.387
12	0.057	0.090	2.815	0.532	0.174	0.132	0.0	1.170	0.020	0.021	0.362	0.334
13	0.107	0.090	1.322	0.295	0.150	0.130	0.0	0.404	0.020	0.029	0.311	0.315
14	0.145	0.090	0.954	0.206	0.132	0.127	0.0	0.120	0.020	0.030	0.232	0.281
15	0.150	0.090	0.955	0.171	0.130	0.112	0.0	0.071	0.021	0.030	0.220	0.250
16	0.152	0.090	0.851	0.152	0.127	0.110	0.0	0.060	0.029	0.030	0.220	0.221
17	0.167	0.092	0.725	0.150	0.112	0.107	0.0	0.050	0.030	0.029	0.220	0.205
18	0.167	0.105	0.567	0.150	0.107	0.090	0.0	0.040	0.030	0.021	0.217	0.215
19	0.152	0.092	0.407	0.150	0.092	0.071	0.0	0.030	0.031	0.020	0.202	0.202
20	0.147	0.122	0.355	0.150	0.090	0.060	0.0	0.021	0.039	0.020	0.196	0.200
21	0.132	3.131	0.350	0.147	0.090	0.051	0.0	0.019	0.039	0.020	0.174	0.196
22	0.127	0.442	0.341	0.130	0.090	0.049	0.0	0.011	0.031	0.020	0.170	0.174
23	0.112	0.261	0.285	0.112	0.090	0.041	0.0	0.010	0.032	0.034	0.167	0.167
24	0.110	0.206	0.254	0.110	0.092	0.039	0.0	0.010	0.050	0.116	0.152	0.152
25	0.112	0.200	0.250	0.112	0.105	0.031	0.0	0.010	0.066	0.120	0.147	0.150
26	0.127	0.194	0.250	0.130	0.092	0.029	0.0	0.010	0.061	0.480	0.132	0.152
27	0.130	0.154	0.250	0.145	0.090	0.021	0.0	0.010	0.059	0.052	0.130	0.167
28	0.130	0.132	0.250	0.127	0.086	0.019	0.0	0.010	0.051	2.071	0.130	0.170
29	0.130		0.254	3.105	0.062	0.011	0.782	0.010	0.051	0.365	0.130	0.170
30	0.130		0.272	3.986	0.051	0.011	0.107	0.010	0.059	6.821	0.130	0.184
31	0.130		0.247		2.869		0.007	0.010		8.958		0.126
MEAN	0.1084	0.2383	2.8962	0.5249	1.2539	0.1784	0.0324	0.9774	0.0297	0.6367	0.7230	0.1923
INCHES	0.048	0.096	1.290	0.226	0.558	0.077	0.014	0.435	0.013	0.284	0.312	0.086
STA AV	0.251	0.097	1.557	0.469	0.735	1.064	0.035	0.307	0.055	0.252	0.342	0.079

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 based on 2 yr (1973-1974) 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: 17.83 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED C-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1974	P 0.12	1.67	2.85	4.15	2.81	0.66	1.60	4.17	3.42	4.90	1.27	1.59	29.21	
	Q 0.0	0.001	0.034	0.036	0.072	0.0	0.000	0.225	0.0	0.188	0.038	0.003	0.596	
STA AV	P 0.92	1.09	2.14	3.03	3.85	2.45	1.83	3.40	4.10	3.18	1.30	0.94	28.23	
	Q 0.095	0.002	0.191	0.147	0.286	0.200	0.037	0.325	0.301	0.468	0.215	0.053	2.320	

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	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1974	3-10	0.048	8-10	0.030	8-10	0.060	8-10	0.160	8-10	0.207	8-9	0.225	8-9	0.225	8-3	0.225
MAXIMUMS FOR PERIOD OF RECORD																
1973	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	10-26	2.925
			1973				1972		1971		1972		1972		1972	

NOTES: Watershed conditions: Continuous cotton - tillage during fallow period consisted of shredding stalks, disking, chiseling, spring-tooth harrowing and spike-tooth harrowing. Cotton was planted during late May. Tillage during the growing season consisted of rotary hoeing and cultivating. Cotton harvested late Nov. Principal drain with less than 0.05 ft. grade per 100 feet was maintained during the growing season by use of field cultivator. Cotton harvested last of December. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.30-1 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 based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.01	0.0	0.0	0.14	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	0.57	0.0	0.20	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.05	0.0	0.0	0.46	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.03	0.42	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	0.06	0.0	0.0	0.0	0.0	0.0	0.11
6	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
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.10	0.04	0.0	0.0	0.0
8	0.0	0.0	0.66	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.53	0.0	0.0	0.35	0.0	0.0	0.0
10	0.0	0.0	1.85	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.20	0.87	0.0	0.0
11	0.0	0.0	0.0	1.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
14	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
15	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.82	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	0.15	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
18	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0
20	0.0	0.92	0.34	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0
21	0.0	0.67	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	0.0	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	0.10	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	1.26	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.18	0.54	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.09	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	0.88	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	2.64	0.0	0.0	1.18	0.0	0.0	0.0	0.02	0.0	0.0	0.0
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.34	0.0	0.0	0.17	0.0
31	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.22	0.0
TOTAL	0.12	1.67	2.85	4.15	2.81	0.66	1.60	4.17	3.42	4.90	1.27	1.59	29.21	
STA AV	0.92	1.09	2.14	3.03	3.85	2.45	1.83	3.40	4.10	3.18	1.30	0.94	28.23	0.94

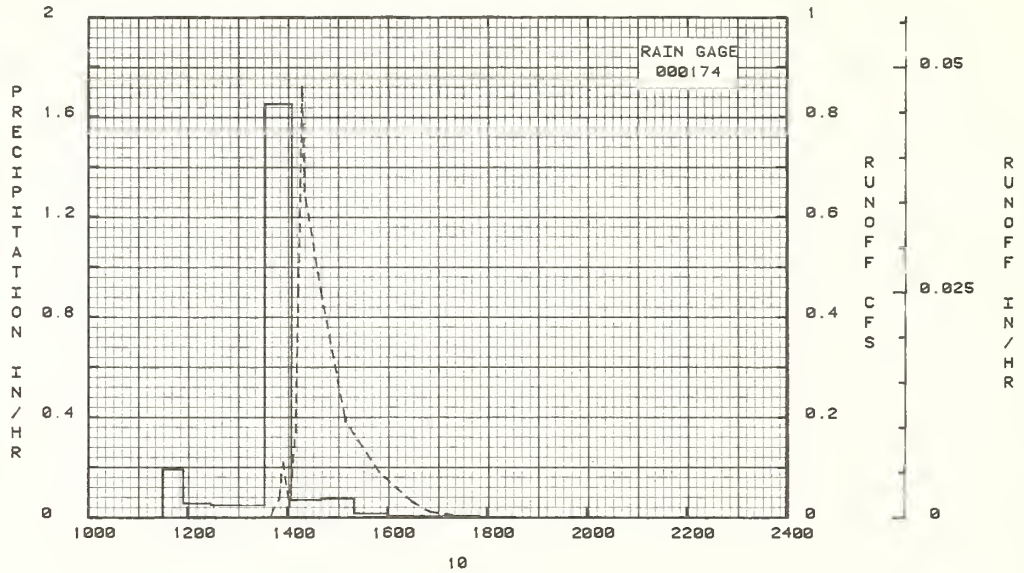
NOTES: Values obtained from one recording rain gage, No. 173. STA AV based on 10 yr (1965-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED C-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.002	0.0
2	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.003	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	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 T	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	0.005	0.0	0.0	0.0 T	0.0
10	0.0	0.0	0.026	0.0	0.0	0.0	0.0	0.163	0.0	0.0	0.004	0.001
11	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.001
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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	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 T	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.0
29	0.0	0.0	0.0	0.010	0.0	0.0	0.0 T	0.0	0.0	0.004	0.0	0.0
30	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.044	0.0	0.0 T
MEAN	0.0	0.0	0.0008	0.0009	0.0017	0.0	0.0	0.0054	0.0	0.0045	0.0009	0.0001
INCHES	0.0	0.001	0.034	0.036	0.072	0.0	0.000	0.225	0.0	0.188	0.038	0.003
STA AV	0.095	0.002	0.191	0.147	0.286	0.200	0.037	0.325	0.301	0.468	0.215	0.053

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.334922. STA AV based on 10 yr (1965-74) record period.

1974 SELECTED RUNOFF EVENT CHICKASAW, 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 MARCH 10, 1974												
3-10	RG 000174 0.53	0.0	3-10	1130	0.0	0.0	3-10	1330	0.0	0.0		
				1155	0.1920	0.08		1332	0.001	0.0		
				1228	0.0545	0.11		1340	0.002	0.0000		
				1333	0.0462	0.16		1345	0.024	0.0001		
				1405	1.6500	1.04		1351	0.041	0.0002		
WATERSHED CONDITIONS:				1440	0.0686	1.08		1355	0.109	0.0005		
100% cultivation, continuous				1520	0.0750	1.13		1403	0.016	0.0010		
dry land cotton. Chiseled				1600	0.0150	1.14		1410	0.168	0.0016		
10-14 inches deep about				1750	0.0055	1.15		1413	0.454	0.0024		
March 1.								1417	0.855	0.0049		
								1420	0.648	0.0070		
								1440	0.454	0.0172		
								1510	0.191	0.0262		
								1550	0.093	0.0314		
								1630	0.028	0.0337		
								1652	0.010	0.0341		
								1740	0.001	0.0343		
								1830	0.0	0.0343		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05562.



EVENT OF MARCH 10, 1974
 CHICKASHA, OKLAHOMA WATERSHED C-1

CHICKASHA, OKLAHOMA WATERSHED C-2

LOCATION: Grady County, Oklahoma; SR 1/4, sec. 4, R. 8 W., T. 7 N., about 6 miles West and 4 miles North of Chickasha Oklahoma; Washita River Basin. Lat. 35 deg. 06 min. 25 sec. N.; Long. 98 deg. 02 min. 34 sec. W.

AREA: 32.54 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED C-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.12	1.86	4.33	3.43	6.04	1.67							
	Q	0.0	0.016	0.735	0.003	1.005	0.001							
STA AV	P	0.77	1.01	1.86	2.83	3.69	2.91	1.81	2.49	3.57	2.28	1.64	0.83	25.68
	Q	0.0	0.001	0.066	0.019	0.184	0.066	0.0	0.004	0.006	0.020	0.0	0.015	0.340

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximm 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.
1974	5-31	0.264	5-31	0.234	5-31	0.389	5-31	0.628	5-31	0.746	5-31	0.782	5-31	0.782	5-29	0.783

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	5-31	0.264	5-31	0.234	5-31	0.389	5-31	0.628	5-31	0.746	5-31	0.782	5-31	0.782	5-29	0.783
	1974		1974		1974		1974		1974		1974		1974		1974	

NOTES: Watershed conditions: 100% cropland. Entire watershed seeded to wheat in the fall of 1973 and harvested in mid-June 1974. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.31-1 and 69.31-3. Monthly precipitation values obtained from one weighing type rain gage, No. 174. Precipitation and runoff records began May 1, 1962. Station discontinued July 1, 1974. STA AV are for 1962-1974 record period, part-year records included. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1974 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED C-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.64	0.0	0.0	NR	NR	NR	NR	NR		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR		
3	0.0	0.0	0.0	0.0	0.0	0.71	0.0	NR	NR	NR	NR	NR		
4	0.0	0.0	0.0	0.0	0.0	0.04	0.66	NR	NR	NR	NR	NR		
5	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
6	0.0	0.0	0.0	0.0	0.0	0.65	NR	NR	NR	NR	NR	NR		
7	0.0	0.0	0.0	0.0	0.0	0.05	NR	NR	NR	NR	NR	NR		
8	0.0	0.0	2.29	0.0	0.0	0.05	NR	NR	NR	NR	NR	NR		
9	0.07	0.0	0.01	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
10	0.0	0.0	1.71	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
11	0.0	0.0	0.0	1.32	0.0	0.0	NR	NR	NR	NR	NR	NR		
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
15	0.0	0.01	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
17	0.0	0.0	0.0	0.0	0.0	0.17	NR	NR	NR	NR	NR	NR		
18	0.0	0.09	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
19	0.02	0.0	0.0	0.07	0.0	0.0	NR	NR	NR	NR	NR	NR		
20	0.0	1.05	0.25	0.03	0.0	0.0	NR	NR	NR	NR	NR	NR		
21	0.0	0.71	0.0	0.0	0.41	0.0	NR	NR	NR	NR	NR	NR		
22	0.0	0.0	0.07	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
23	0.0	0.0	0.0	0.0	0.11	0.0	NR	NR	NR	NR	NR	NR		
24	0.0	0.0	0.0	0.0	0.03	0.0	NR	NR	NR	NR	NR	NR		
25	0.0	0.0	0.0	0.0	0.85	0.0	NR	NR	NR	NR	NR	NR		
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
27	0.02	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
29	0.0	0.0	0.0	1.99	0.0	0.0	NR	NR	NR	NR	NR	NR		
30	0.0	0.0	0.0	0.02	0.0	0.0	NR	NR	NR	NR	NR	NR		
31	0.0	0.0	0.0	0.0	3.00	0.0	NR	NR	NR	NR	NR	NR		
TOTAL	0.12	1.86	4.33	3.43	6.04	1.67								
STA AV	0.77	1.01	1.86	2.83	3.69	2.91	1.81	2.49	3.57	2.28	1.64	0.83		

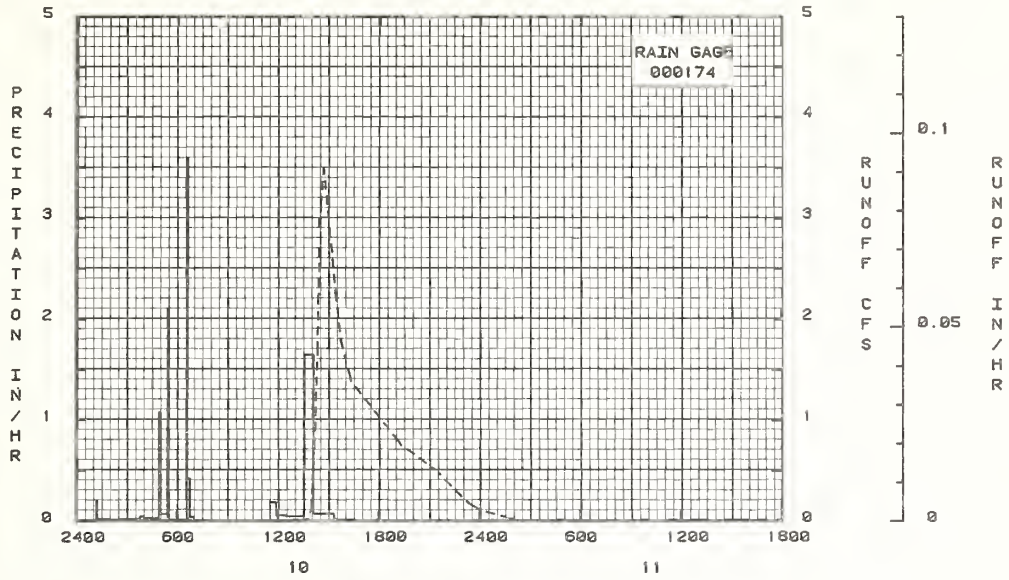
NOTES: Values obtained from one weighing type rain gage, No. 174. STA AV are for 1962-74, part-year records included. Watershed discontinued July 1, 1974.

1974												
HEAN DAILY DISCHARGE (cfs)						CRICKASRA, OKLAHOMA WATERSHED C-2						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.301	0.001	NR	NR	NR	NR	NR	NR
2	0.0	0.0	0.0	0.0	0.005	0.0	NR	NR	NR	NR	NR	NR
3	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
4	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
5	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
6	0.0	0.0	0.0	0.0	0.0	0.001	NR	NR	NR	NR	NR	NR
7	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
8	0.0	0.0	0.511	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
9	0.0	0.0	0.057	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
10	0.0	0.0	0.430	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
11	0.0	0.0	0.007	0.001	0.0	0.0	NR	NR	NR	NR	NR	NR
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
15	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
17	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
18	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
19	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
20	0.0	0.001	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
21	0.0	0.021	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
22	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
23	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
24	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
25	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
27	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
29	0.0	0.0	0.0	0.002	0.0	0.0	NR	NR	NR	NR	NR	NR
30	0.0	0.0	0.0	0.001	0.0	0.0	NR	NR	NR	NR	NR	NR
31	0.0	0.0	0.0	0.0	1.068	0.0	NR	NR	NR	NR	NR	NR
HEAN	0.0	0.0008	0.0324	0.0001	0.0443	0.0001						
INCHRS	0.0	0.016	0.735	0.003	1.005	0.001						
STA AV	0.0	0.001	0.066	0.019	0.144	0.066	0.0	0.004	0.006	0.020	0.0	0.015

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.731458. STA AV are for 1962-74, part-year records included. Watershed discontinued July 1, 1974.

1974											
SELECTED RUNOFF RVRT						CRICKASRA, OKLAHOMA WATERSHED C-2					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			Acc.		
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)	
RVRT OF MARCH 10 - 11, 1974											
3-10	RG 000174 0.0	0.0	3-10	RG 000174 110	0.0	0.0	3-10	520	0.0	0.0	
				113	0.2000	0.01		525	0.001	0.0	
				348	0.0232	0.07		529	0.007	0.0	
				400	0.0500	0.08		632	0.001	0.0002	
				455	0.0327	0.11		639	0.029	0.0002	
WATERSHED CONDITIONS: 100% cropland.											
				500	1.0800	0.20		720	0.010	0.0006	
				525	0.0720	0.23		1130	0.005	0.0016	
				527	2.1000	0.30		1200	0.010	0.0017	
				633	0.0091	0.31		1347	0.017	0.0024	
				635	3.6000	0.43		1400	0.129	0.0029	
				645	0.4200	0.50		1410	0.745	0.0051	
				700	0.0400	0.51		1420	1.700	0.0113	
				930	0.0080	0.53		1423	2.250	0.0144	
				1130	0.0	0.53		1430	3.140	0.0239	
				1155	0.1920	0.61		1440	3.510	0.0408	
				1228	0.0545	0.64		1500	2.960	0.0737	
				1333	0.0462	0.69		1524	2.250	0.1054	
				1405	1.6500	1.57		1544	1.780	0.1259	
				1440	0.0686	1.61		1620	1.380	0.1548	
				1520	0.0750	1.66		1920	0.745	0.2519	
				1600	0.0150	1.67		2120	0.509	0.2902	
				1750	0.0055	1.68		2320	0.183	0.3113	
								2400	0.110	0.3142	
								200	0.025	0.3184	
								400	0.005	0.3193	
								734	0.0	0.3195	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.030477.



EVENT OF MARCH 10 - 11, 1974
 CHICKASHA, OKLAHOMA WATERSHED C-2

CHICKASHA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. 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
1974	P	0.10	1.57	2.66	4.14	2.61	0.78	1.57	3.89	3.52	4.82	1.20	1.53	28.39
	Q	0.0	0.011	0.226	0.874	0.460	0.0	0.025	1.167	0.025	0.688	0.025	0.004	3.506
STA AV	P	0.89	1.12	2.21	3.07	3.74	2.19	2.00	2.73	4.02	3.16	1.25	0.89	27.27
	Q	0.085	0.009	0.208	0.435	0.745	0.507	0.223	0.485	0.486	0.594	0.094	0.021	3.894

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval										
		1 Hour Date 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.				
1974	4-29 0.199	4-29 0.188	4-29 0.342	4-29 0.674	8- 9 1.063	8- 9 1.167	4-29 1.214	4-24 1.243				

MAXIMUMS FOR PERIOD OF RECORD													
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
5-31 1971	0.556	5-31 1971	0.451	5-24 1973	0.729	5-24 1973	1.498	5-24 1973	1.829	10-30 1972	2.227	10-30 1972	2.585

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed disked and moldboard plowed 8-10 inches deep in early Jan. 1974. Spring preplanting tillage consisted of disking, spring-tooth harrowing, incorporating fertilizer and herbicide. Entire watershed planted to cotton during mid-May. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Area irrigated three times, commencing July 23 and ending Aug. 9 with total applied about 10 inches. Cotton harvested late Dec. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.32-1 and 69.32-3. Monthly precipitation data obtained from two recording weighing type rain gages, No. 186 and Cotton Research Station gage. Precipitation and runoff records began Sept. 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.03	0.0	0.0	0.10	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	0.67	0.0	0.16	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.04	0.0	0.0	0.43	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.03	0.43	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	0.05	0.0	0.0	0.0	0.0	0.0	0.09
6	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.10	0.04	0.0	0.0	0.0
8	0.0	0.0	0.57	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.07	0.0	0.0	0.0	0.0	0.0	0.0	1.39	0.0	0.0	0.33	0.0	0.0	0.0
10	0.0	0.0	1.80	0.0	0.0	0.0	0.0	1.43	0.0	0.0	0.18	0.82	0.0	0.0
11	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0
12	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
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
14	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
15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.94	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	0.15	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
18	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
20	0.0	0.85	0.29	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0
21	0.0	0.62	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	0.0	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	0.11	0.0	0.0	0.06	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	1.19	1.35	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.15	0.72	0.0	0.0	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	0.0	0.0	0.0	0.0
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.07	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	0.84	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	2.61	0.0	0.0	1.14	0.0	0.0	0.0	0.06	0.0	0.0	0.0
30	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.15	0.0	0.0
31	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.20	0.0	0.0
TOTAL	0.10	1.57	2.66	4.14	2.61	0.78	1.57	3.89	3.52	4.82	1.20	1.53		
STA AV	0.89	1.12	2.21	3.07	3.74	2.19	2.00	2.73	4.02	3.16	1.25	0.89		

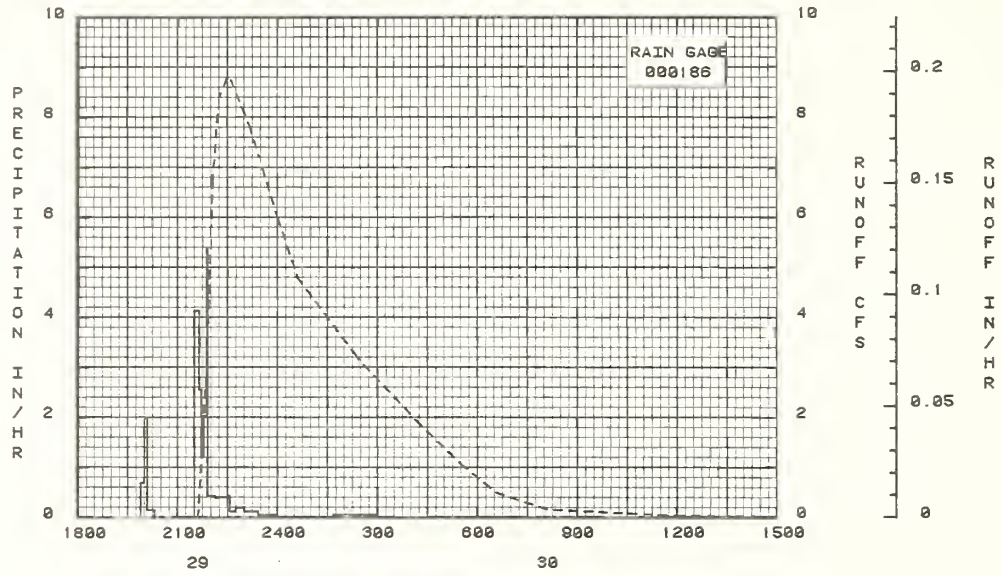
NOTES: Values obtained from two recording weighing type rain gages, No. 186 and Cotton Research Station gage. STA AV based on 10 yr (1965-74) record period.

1974 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	0.880	0.0	0.0	0.0	0.0	0.0	0.001	0.0
2	0.0	0.0	0.0	0.0	0.017	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	0.036	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	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	0.491	0.0	0.0	0.0	0.0
10	0.0	0.0	0.416	0.0	0.0	0.0	0.0	1.680	0.0	0.0	0.001	0.003
11	0.0	0.0	0.004	0.170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.002	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	0.020	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	0.039	0.052	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.023	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.092	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	0.352	0.0	0.0
29	0.0	0.0	0.0	0.680	0.0	0.0	0.044	0.0	0.0	0.001	0.0	0.0
30	0.0	0.0	0.0	0.775	0.0	0.0	0.003	0.0	0.0	0.539	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.220	0.0	0.0
MEAN	0.0	0.0007	0.0136	0.0542	0.0276	0.0	0.0015	0.0700	0.0016	0.0413	0.0016	0.0003
INCRS	0.0	0.011	0.226	0.874	0.460	0.0	0.025	1.167	0.025	0.688	0.025	0.004
STA AV	0.085	0.009	0.208	0.435	0.745	0.507	0.223	0.485	0.486	0.594	0.094	0.021

NOTES: To convert discharge in CFS to IR/DAY, multiply by 0.537769. STA AV based on 10 yr (1965-74) record period.

1974 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 APRIL 29 - 30, 1974										
4-29	RG 000186 0.70	0.0	4-29	RG 000186 1953	0.0	0.0	4-29	2136	0.0	0.0
				1959	0.7000	0.07		2138	0.155	0.0001
				2005	2.0000	0.27		2142	1.046	0.0010
				2018	0.1385	0.30		2152	3.153	0.0088
				2129	0.0	0.30		2203	6.866	0.0294
				2138	4.1333	0.92		2213	8.346	0.0578
				2142	2.5500	1.09		2230	8.879	0.1125
				2147	1.2000	1.19		2309	7.832	0.2341
				2152	2.0400	1.36		2400	5.978	0.3657
				2154	5.3988	1.54	4-30	36	4.787	0.4380
				2207	0.4154	1.63		226	3.153	0.6011
				2227	0.3900	1.76		410	1.922	0.6997
				2234	0.4286	1.81		531	1.046	0.7445
				2245	0.1091	1.83		635	0.476	0.7627
				2300	0.2000	1.88		806	0.155	0.7735
				2311	0.1091	1.90		1200	0.016	0.7809
				2326	0.1200	1.93		1916	0.001	0.7823
				2400	0.0353	1.95		2400	0.0	0.7824
			4-30	141	0.0	1.95				
				300	0.0532	2.02				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.



EVENT OF APRIL 29 - 30, 1974
CHICKASHA, OKLAHOMA WATERSHED C-3

CHICKASHA, OKLAHOMA WATERSHED C-4

LOCATION: Grady County, Oklahoma; NR 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	
1974	P 0.11	1.54	2.64	4.23	2.60	0.79	1.51	3.87	3.62	4.81	1.18	1.53	28.43	
	Q 0.0	0.006	0.061	0.828	0.522	0.0	0.039	1.093	0.011	0.746	0.030	0.003	3.339	
STA AV	P 0.89	1.10	2.23	3.06	3.75	2.25	1.98	2.76	4.02	3.14	1.23	0.90	27.30	
	Q 0.105	0.007	0.157	0.296	0.702	0.395	0.210	0.383	0.341	0.607	0.096	0.013	3.311	

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	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1974	4-29	0.343	4-29	0.301	4-29	0.552	4-29	0.791	8-9	1.021	8-9	1.092	4-29	1.318	4-24	1.331
MAXIMUMS FOR PERIOD OF RECORD																
	5-31	0.489	5-24	0.462	5-24	0.909	5-24	1.826	5-24	1.873	10-30	2.663	10-30	3.182	11-4	3.184
	1971		1973		1973		1973		1973		1972		1972		1972	

NOTES: Watershed conditions: 100% cultivation, continuous irrigated cotton. Spring pre-plant tillage consists of spring-tooth harrowing, incorporating fertilizer and herbicide - cotton planted mid-May. Irrigated 2 times. Last cultivation in July and last irrigation in August. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.33-1 and 69.33-3. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.03	0.0	0.0	0.09	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	0.70	0.0	0.16	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.04	0.0	0.0	0.43	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.02	0.43	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	0.05	0.0	0.0	0.0	0.10		
6	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.15	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.10	0.03	0.0		
8	0.0	0.0	0.59	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.08	0.0	0.0	0.0	0.0	0.0	0.0	1.39	0.0	0.0	0.32	0.0		
10	0.0	0.0	1.75	0.0	0.0	0.0	0.0	1.44	0.0	0.0	0.19	0.83		
11	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	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	0.03	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0		
15	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.02	0.0	0.0	0.0		
18	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0		
20	0.0	0.33	0.30	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
21	0.0	0.60	0.0	0.0	0.01	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	0.12	0.0	0.0	0.05	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	1.20	1.33	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.15	0.73	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0		
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.06	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0		
29	0.0	0.0	0.0	2.70	0.0	0.0	1.08	0.0	0.0	0.0	0.05	0.0		
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	1.19	0.0	0.15		
31	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.25	0.0	0.20		
TOTAL	0.11	1.54	2.64	4.23	2.60	0.79	1.51	3.87	3.62	4.81	1.18	1.53		
STA AV	0.89	1.10	2.23	3.06	3.75	2.25	1.98	2.76	4.02	3.14	1.23	0.90		

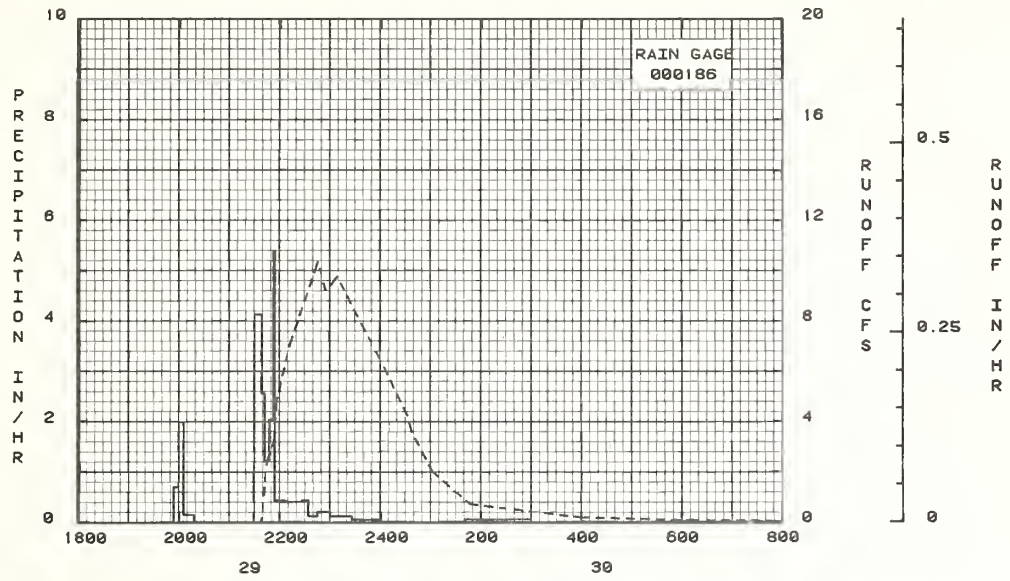
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 186 and 187. STA AV based on 10 yr (1965-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSHED C-4												
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Ang	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.650	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.006	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	0.027	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.008	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	0.290	0.0	0.0	0.0	0.0
10	0.0	0.0	0.076	0.0	0.0	0.0	0.0	1.134	0.0	0.0	0.002	0.0
11	0.0	0.0	0.001	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.001	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	0.007	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	0.011	0.012	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.014	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.068	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	0.284	0.0	0.0
29	0.0	0.0	0.0	0.740	0.0	0.0	0.035	0.0	0.0	0.001	0.0	0.0
30	0.0	0.0	0.0	0.278	0.0	0.0	0.014	0.0	0.0	0.428	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0
MEAN	0.0	0.0003	0.0025	0.0347	0.0212	0.0	0.0016	0.0443	0.0005	0.0303	0.0013	0.0001
INCRS	0.0	0.006	0.061	0.828	0.522	0.0	0.039	1.093	0.011	0.746	0.030	0.003
STA AV	0.105	0.007	0.157	0.296	0.702	0.395	0.210	0.383	0.341	0.607	0.096	0.013

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.795244. STA AV based on 10 yr (1965-74) record period.

1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-4												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 29 - 30, 1974												
4-29	RG 000186 0.70	0.0	4-29	RG 000186 1953	0.0	0.0	4-29	2137	0.0	0.0		
				1959	0.7000	0.07		2139	0.161	0.0001		
				2005	2.0000	0.27		2141	1.082	0.0008		
				2018	0.1385	0.30		2145	2.449	0.0047		
				2129	0.0	0.30		2153	3.260	0.0173		
				2138	4.1333	0.92		2157	4.949	0.0264		
				2142	2.5500	1.09		2212	7.099	0.0763		
				2147	1.2000	1.19		2245	10.350	0.2353		
				2152	2.0400	1.36		2254	9.180	0.2838		
				2154	5.3988	1.54		2308	9.754	0.3570		
				2207	0.4154	1.63		2337	7.841	0.4979		
				2227	0.3900	1.76		2400	6.403	0.5883		
				2234	0.4286	1.81	4-30	32	4.221	0.6822		
				2245	0.1091	1.83		37	3.563	0.6929		
				2300	0.2000	1.88		102	1.987	0.7313		
				2311	0.1091	1.90		147	0.693	0.7646		
				2326	0.1200	1.93		400	0.161	0.7959		
				2400	0.0353	1.95		612	0.048	0.8035		
			4-30	141	0.0	1.95		832	0.023	0.8063		
				300	0.0532	2.02		1200	0.008	0.8081		
								1737	0.002	0.8090		
								2400	0.0	0.8092		

NOTES: To convert rnnoff in CPS to IN/RR, multiply by 0.03314.



EVENT OF APRIL 29 - 30, 1974
CHICKASHA, OKLAHOMA WATERSHED C-4

CHICKASHA, OKLAHOMA WATERSHED C-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, N. 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		
1974	P	0.12	1.55	2.61	4.26	2.57	0.94	1.39	3.83	3.61	4.71	1.17	1.53	28.29		
	Q	0.0	0.139	0.737	0.440	0.425	0.0	0.0	0.028	0.0	0.718	0.103	0.0	2.590		
STA AV	P	0.88	1.09	2.19	3.05	3.64	2.26	1.82	3.30	3.95	3.09	1.20	0.89	27.37		
	Q	0.055	0.015	0.412	0.244	0.302	0.175	0.003	0.043	0.164	0.444	0.053	0.001	1.911		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	Maximum Discharge Date	Maximum Volume for Selected Time Interval														
		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		
		Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1974	3-10	0.243	3-10	0.215	3-10	0.368	3-10	0.609	3-10	0.697	3-10	0.734	3-9	0.737	10-28	0.814
MAXIMUMS FOR PERIOD OF RECORD																
	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	11-4	1.838
	1971		1971		1971		1971		1971		1971		1972		1972	

NOTES: Watershed conditions: 100% cultivation, continuous dry land wheat. Harvested June 9, disked 6-8 inches deep June 10. Spring-tooth harrowed 3 times in Sept. and Oct. Wheat planted mid-Oct. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p.69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	0.99	0.0	0.0	0.09	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	0.71	0.0	0.48	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.03	0.0	0.0	0.42	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.02	0.39	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	0.06	0.0	0.0	0.0	0.0	0.10	
6	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.09	0.03	0.0	0.0	
8	0.0	0.0	0.59	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.30	0.0	0.0	
10	0.0	0.0	1.72	0.0	0.0	0.0	0.0	1.44	0.0	0.0	0.19	0.83	0.0	
11	0.0	0.0	0.0	1.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	
14	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	
15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.01	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	0.16	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
18	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	
20	0.0	0.83	0.30	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
21	0.0	0.61	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	0.0	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	0.13	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.19	1.31	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.15	0.67	0.0	0.0	0.0	
26	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	
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.07	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	0.83	0.0	0.0	0.0	
29	0.0	0.0	0.0	2.75	0.0	0.0	1.00	0.0	0.0	0.0	0.05	0.0	0.0	
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.15	0.0	
31	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.23	0.0	0.0	0.20	0.0	
TOTAL		0.12	1.55	2.61	4.26	2.57	0.94	1.39	3.83	3.61	4.71	1.17	1.53	
STA AV		0.88	1.09	2.19	3.05	3.64	2.26	1.82	3.30	3.95	3.09	1.20	0.89	

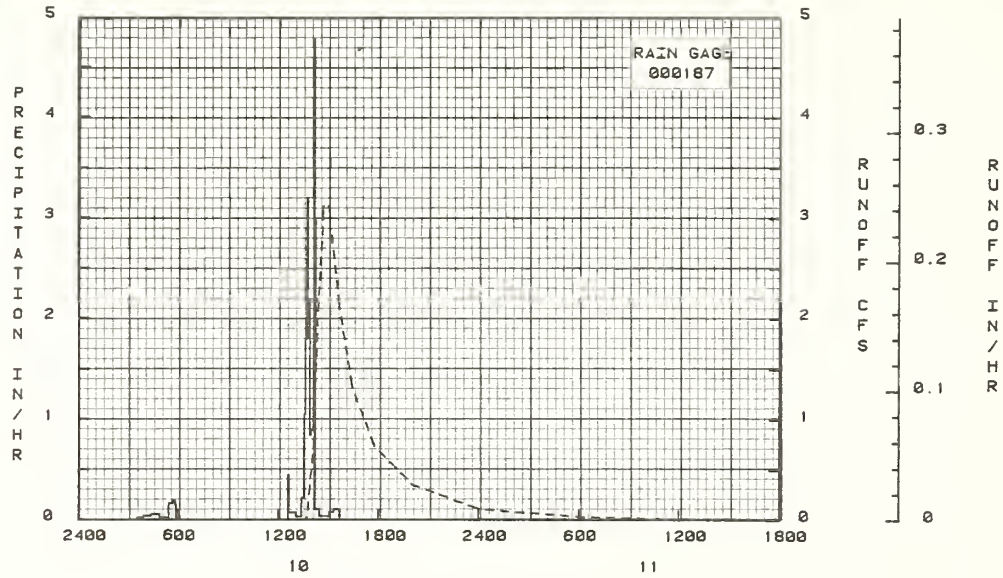
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based on 10 yr (1965-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, 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	0.194	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.001	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	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	0.002	0.0	0.0	0.0	0.0
10	0.0	0.0	0.368	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.004	0.0
11	0.0	0.0	0.026	0.031	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	0.074	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	0.001	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	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	0.104	0.0	0.0
29	0.0	0.0	0.0	0.089	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.116	0.0	0.0	0.0	0.0	0.0	0.218	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.0	0.0
MEAN	0.0	0.0027	0.0127	0.0079	0.0073	0.0	0.0	0.0005	0.0	0.0124	0.0018	0.0
INCRS	0.0	0.139	0.737	0.440	0.425	0.0	0.0	0.028	0.0	0.718	0.103	0.0
STA AV	0.055	0.015	0.412	0.244	0.302	0.175	0.003	0.043	0.164	0.444	0.053	0.001

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.866796. STA AV based on 10 yr (1965-74) record period.

1974 SELECTED RUNOFF EVENT CHICKASAW, 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 MARCH 10 - 11, 1974												
3-10	RG 000187 0.06	0.0	3-10	RG 000187 332	0.0	0.0	3-10	1341	0.0	0.0		
				355	0.0261	0.01		1344	0.033	0.0001		
				422	0.0444	0.03		1354	0.347	0.0025		
				453	0.0581	0.06		1406	0.732	0.0109		
				526	0.0182	0.07		1421	2.094	0.0384		
				540	0.1714	0.11		1439	3.121	0.0992		
				549	0.2000	0.14		1457	3.121	0.1721		
				553	0.1500	0.15		1539	2.094	0.3140		
				1234	0.0	0.15		1625	1.305	0.4154		
				1238	0.4500	0.18		1745	0.732	0.5210		
				1304	0.0692	0.21		2002	0.347	0.6168		
				1324	0.0300	0.22		2400	0.112	0.6876		
				1332	0.2250	0.25	3-11	621	0.033	0.7235		
				1336	1.0500	0.32		1200	0.011	0.7331		
				1340	1.8000	0.44		1501	0.006	0.7351		
				1343	3.2000	0.60		2230	0.0	0.7369		
				1346	2.0000	0.70						
				1350	1.8000	0.82						
				1353	2.2000	0.93						
				1358	0.8400	1.00						
				1404	0.9000	1.09						
				1406	4.8000	1.25						
				1409	2.8000	1.39						
				1412	3.0000	1.54						
				1429	0.1059	1.57						
				1504	0.0343	1.59						
				1518	0.0857	1.61						
				1540	0.1091	1.65						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07778.



EVENT OF MARCH 10 - 11, 1974
CHICKASHA, OKLAHOMA WATERSHED C-5

CHICKASHA, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, E. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. 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	
1974	P	0.12	1.54	2.61	4.26	2.58	0.96	1.39	3.82	3.62	4.70	1.17	1.53	28.30
	Q	0.0	0.081	0.593	0.473	0.248	0.0	0.0	0.005	0.0	0.749	0.088	0.006	2.243
STA AV	P	0.88	1.09	2.18	3.07	3.64	2.26	1.81	3.31	3.95	3.10	1.20	0.89	27.38
	Q	0.092	0.017	0.453	0.256	0.342	0.185	0.004	0.088	0.218	0.448	0.063	0.009	2.175

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval														
		1 Hour Date	1 Hour Vol.	2 Hours Date	2 Hours Vol.	6 Hours Date	6 Hours Vol.	12 Hours Date	12 Hours Vol.	1 Day Date	1 Day Vol.	2 Days Date	2 Days Vol.	8 Days Date	8 Days Vol.	
1974	3-10	0.238	3-10	0.199	3-10	0.328	3-10	0.527	3-10	0.582	3-10	0.593	4-30	0.698	10-27	0.821
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		1972		1973	

NOTES: Watershed conditions: 100% cropland, planted to wheat in fall of 1973 and harvested for grain in June 1974. Watershed was disked soon after harvest and remained in rough condition until about early September 1974, when watershed was spring-tooth harrowed, in preparation for seeding to wheat. Watershed was fertilized and freshly spring-tooth and spike-tooth harrowed just prior to seeding wheat in mid-Oct. 1974. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pnb. 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 record began May 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	0.99	0.0	0.0	0.09	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	0.72	0.0	0.18	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.03	0.0	0.0	0.42	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.02	0.39	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	0.06	0.0	0.0	0.0	0.10		
6	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.17	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.09	0.03	0.0		
8	0.0	0.0	0.59	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.30	0.0		
10	0.0	0.0	1.72	0.0	0.0	0.0	0.0	1.44	0.0	0.0	0.19	0.83		
11	0.0	0.0	0.0	1.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	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	0.04	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0		
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.02	0.0	0.0	0.0		
18	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0		
20	0.0	0.83	0.30	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0		
21	0.0	0.61	0.0	0.0	0.01	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	0.14	0.0	0.0	0.07	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	1.18	1.31	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.15	0.66	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0		
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.07	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0		
29	0.0	0.0	0.0	2.75	0.0	0.0	1.00	0.0	0.0	0.0	0.05	0.0		
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.15		
31	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.23	0.0	0.0	0.20		
TOTAL	0.12	1.54	2.61	4.26	2.58	0.96	1.39	3.82	3.62	4.70	1.17	1.53		
STA AV	0.88	1.09	2.18	3.07	3.64	2.26	1.81	3.31	3.95	3.10	1.20	0.89		

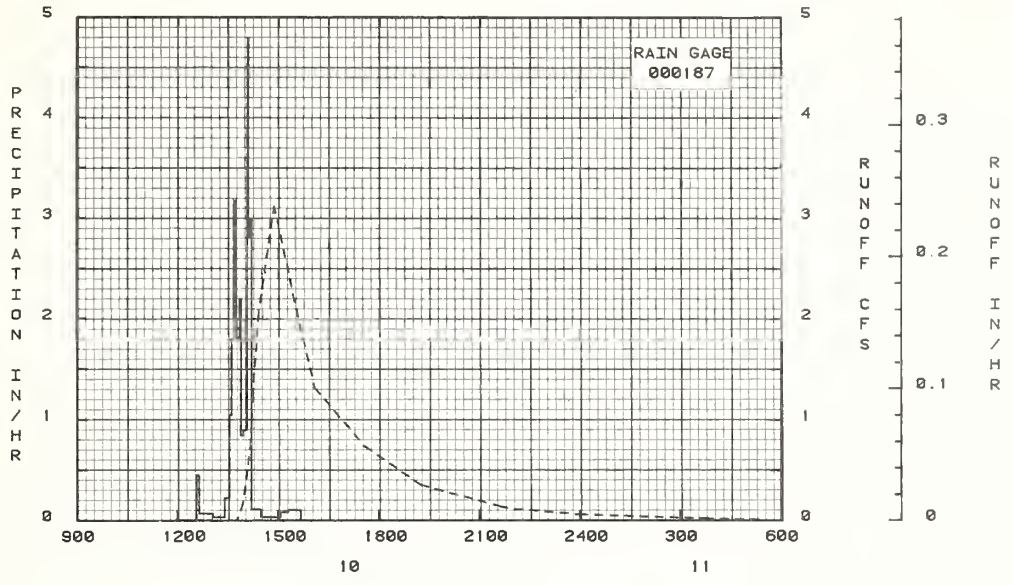
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based on 10 yr (1965-74) record period.

1974 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	0.124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.003	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.001	0.0
10	0.0	0.0	0.315	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.006	0.003
11	0.0	0.0	0.009	0.011	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	0.044	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	0.002	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	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	0.111	0.0	0.0
29	0.0	0.0	0.0	0.175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.263	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0
MEAN	0.0	0.0016	0.0104	0.0086	0.0044	0.0	0.0	0.0001	0.0	0.0132	0.0016	0.0001
INCHES	0.0	0.081	0.593	0.473	0.248	0.0	0.0	0.005	0.0	0.749	0.088	0.006
STA AV	0.092	0.017	0.453	0.256	0.342	0.185	0.004	0.088	0.218	0.448	0.063	0.009

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.830896. STA AV based on 10 yr (1965-74) record period.

1974 SELECTED EUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-6											
ANTECEDENT CONDITIONS			RAINFALL				EUNOFF				
Date	Rainfall	Eunoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 10 - 11, 1974											
3-10	EG 000187 0.21	0.0	3-10	EG 000187 1234	0.0	0.0	3-10	1345	0.0	0.0	
				1238	0.4500	0.03		1349	0.033	0.0001	
				1304	0.0692	0.06		1358	0.194	0.0014	
				1324	0.0300	0.07		1410	0.732	0.0084	
				1332	0.2250	0.10		1415	1.305	0.0149	
				1336	1.0500	0.17		1425	2.094	0.0365	
				1340	1.8000	0.29		1452	3.121	0.1260	
				1343	3.2000	0.45		1532	2.094	0.2586	
				1346	2.0000	0.55		1605	1.305	0.3299	
				1350	1.8000	0.67		1735	0.732	0.4465	
				1353	2.2000	0.78		1915	0.347	0.5151	
				1358	0.8400	0.85		2150	0.121	0.5612	
				1404	0.9000	0.94		2400	0.062	0.5763	
				1406	4.8000	1.10	3-11	345	0.018	0.5878	
				1409	2.8000	1.24		905	0.004	0.5922	
				1412	3.0000	1.39		950	0.002	0.5924	
				1429	0.1059	1.42		1240	0.0	0.5926	
				1504	0.0343	1.44					
				1518	0.0857	1.46					
				1540	0.1091	1.50					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07629.



EVENT OF MARCH 10 - 11, 1974
 CHICKASHA, OKLAHOMA WATERSHED C-6

CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. 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	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec	Annual
1974	P 0.11	1.54	2.60	4.28	2.57	1.03	1.38	3.83	3.65	4.72	1.19	1.54	28.44
	Q 0.0	0.004	0.171	0.220	0.023	0.0	0.0	0.116	0.0	0.052	0.0	0.0	0.586
STA AV	P 0.88	1.09	2.17	3.05	3.62	2.27	1.80	3.29	3.95	3.09	1.20	0.89	27.31
	Q 0.004	0.011	0.116	0.279	0.288	0.240	0.092	0.274	0.271	0.448	0.030	0.004	2.057

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.					
1974	3-10 0.100	3-10 0.081	3-10 0.127	4-29 0.205	4-29 0.215	4-30 0.215	4-30 0.238	4-24 0.238					
MAXIMUMS FOR PERIOD OF RECORD													
	4-12 1967 0.957	4-12 1967 0.637	4-12 1967 0.824	10- 2 1971 1.379	10- 2 1971 1.596	10-30 1972 1.891	10-30 1972 2.220	11- 4 1972 2.220					

NOTES: Watershed conditions: 100% cropland. North portion was planted to alfalfa in fall of 1968. South portion of watershed was planted to grain and forage sorghams and cotton mid-May. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.36-1 and 69.36-3. Monthly precipitation data from Thiessen weighted rainfall value from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED C-7	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jnl	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	0.98	0.0	0.0	0.10	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	0.73	0.0	0.19	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.03	0.0	0.0	0.42	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.03	0.38	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	0.06	0.0	0.0	0.0	0.0	0.0	0.10
6	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.09	0.04	0.0	0.0	0.0
8	0.0	0.0	0.58	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.08	0.0	0.0	0.0	0.0	0.0	0.0	1.34	0.0	0.0	0.30	0.0	0.0	0.0
10	0.0	0.0	1.71	0.0	0.0	0.0	0.0	1.45	0.0	0.0	0.18	0.83	0.0	0.0
11	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	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	0.13	0.0	0.0	0.0	0.0
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.03	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	0.15	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
18	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
20	0.0	0.83	0.31	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0
21	0.0	0.61	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	0.0	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	0.14	0.0	0.0	0.08	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	1.18	1.30	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.16	0.65	0.0	0.0	0.0	0.0
26	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
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.08	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	2.75	0.0	0.0	1.00	0.0	0.0	0.0	0.06	0.0	0.0	0.0
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.15	0.0	0.0
31	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.24	0.0	0.20	0.0	0.0
TOTAL	0.11	1.54	2.60	4.28	2.57	1.03	1.38	3.83	3.65	4.72	1.19	1.54		
STA AV	0.88	1.09	2.17	3.05	3.62	2.27	1.80	3.29	3.95	3.09	1.20	0.89		

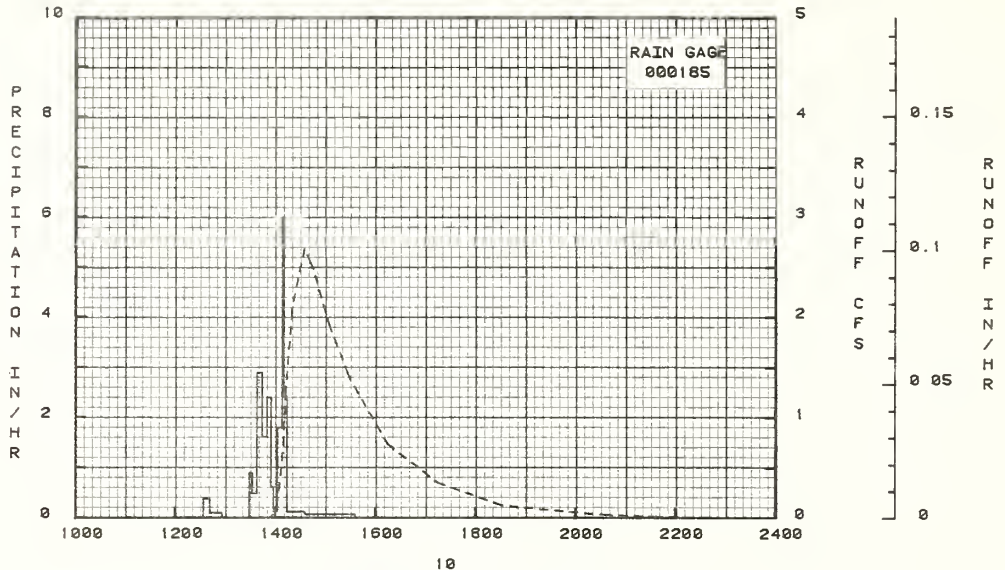
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based on 10 yr (1965-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSRED C-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.001	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	0.024	0.0	0.0	0.0	0.0
10	0.0	0.0	0.190	0.0	0.0	0.0	0.0	0.106	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.006	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	0.004	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	0.004	0.0	0.0
29	0.0	0.0	0.0	0.147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.093	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0
MEAN	0.0	0.0001	0.0061	0.0082	0.0008	0.0	0.0	0.0042	0.0	0.0019	0.0	0.0
INCRS	0.0	0.004	0.171	0.220	0.023	0.0	0.0	0.116	0.0	0.052	0.0	0.0
STA AV	0.004	0.011	0.116	0.279	0.288	0.240	0.092	0.274	0.271	0.448	0.030	0.004

NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.897498. STA AV based on 10 yr (1965-74) record period.

1974 SELECTED RUNOFF EVENT CRICKASHA, OKLAHOMA WATERSRED 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 MARCH 10, 1974											
3-10	RG 000185 0.24	0.0	3-10	RG 000185 1100	0.0	0.0	3-10	1355	0.0	0.0	
				1234	0.0	0.0		1357	0.033	0.0000	
				1242	0.3750	0.05		1402	0.121	0.0003	
				1256	0.0857	0.07		1406	0.347	0.0008	
				1329	0.0	0.07		1410	0.732	0.0022	
WATERSRED CONDITIONS:											
North portion of field in alfalfa. South portion of field in grain sorghum in 1974.											
				1333	0.9000	0.13		1413	1.305	0.0041	
				1338	0.4800	0.17		1420	2.094	0.0115	
				1344	2.9000	0.46		1434	2.680	0.0323	
				1350	1.6000	0.62		1445	2.475	0.0500	
				1355	2.4000	0.82		1504	1.917	0.0760	
				1358	0.6000	0.85		1530	1.374	0.1027	
				1403	0.1200	0.86		1615	0.732	0.1322	
				1408	1.8000	1.01		1715	0.347	0.1524	
				1410	6.0000	1.21		1833	0.121	0.1637	
				1414	2.4000	1.37		2035	0.033	0.1696	
				1436	0.1091	1.41		2145	0.011	0.1705	
				1506	0.0600	1.44		2255	0.004	0.1709	
				1536	0.0600	1.47		2339	0.0	0.1709	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.03740.



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EVENT OF MARCH 10, 1974
CHICKASHA, OKLAHOMA WATERSHED C-7

CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 01 min. 55 sec. N.; Long. 97 deg. 54 min. 25 sec. W.

AHHA: 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
1974	P	0.12	1.58	2.70	4.39	2.66	1.31	1.39	3.96	3.90	5.14	1.32	1.63	30.10	P	0.12	1.58	2.70	4.39	2.66	1.31	1.39	3.96	3.90	5.14	1.32	1.63	30.10	
	Q	0.0	0.059	0.560	0.430	0.305	0.0	0.0	0.097	0.001	0.299	0.004	0.0	1.756	Q	0.0	0.059	0.560	0.430	0.305	0.0	0.0	0.097	0.001	0.299	0.004	0.0	1.756	
STA AV	P	0.90	1.12	2.26	3.00	3.71	2.32	1.87	3.34	3.98	3.27	1.25	0.91	27.92	P	0.90	1.12	2.26	3.00	3.71	2.32	1.87	3.34	3.98	3.27	1.25	0.91	27.92	
	Q	0.004	0.007	0.228	0.102	0.130	0.106	0.048	0.141	0.159	0.264	0.012	0.0	1.202	Q	0.004	0.007	0.228	0.102	0.130	0.106	0.048	0.141	0.159	0.264	0.012	0.0	1.202	

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	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days
3-10	0.145	3-10	0.130	3-10	0.252	3-10	0.483	3-10	0.553	3-10	0.560	4-30	0.720	4-24	0.723

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	Date	Maximum Discharge
10-2	0.858	10-2	0.693	10-2	0.998	10-2	1.405	10-2	1.458	10-2	1.458	10-1	1.458	9-25	1.458
1971		1971		1971		1971		1971		1971		1971		1971	

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 based on 10 yr (1965-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-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	0.01	0.0	0.0	0.0	1.03	0.0	0.0	0.10	0.0	0.0	0.0	0.0	1	0.01	0.0	0.0	0.0	1.03	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	0.79	0.0	0.19	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.19	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.04	0.0	0.0	0.48	0.0	3	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.04	0.0	0.48	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.10	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.10			
6	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.20	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.20	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.09	0.04	0.0	7	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.09	0.04	0.0			
8	0.0	0.0	0.62	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	0.62	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0			
9	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.36	0.0	0.0	0.37	0.0	9	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.36	0.0	0.37	0.0			
10	0.0	0.0	1.77	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.19	0.89	10	0.0	0.0	1.77	0.0	0.0	0.0	0.0	1.50	0.0	0.19	0.89			
11	0.0	0.0	0.0	1.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	11	0.0	0.0	0.0	1.53	0.0	0.0	0.0	0.0	0.0	0.0	0.25			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	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	0.04	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0			
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.02	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0			
18	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	19	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0		
20	0.0	0.84	0.31	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	20	0.0	0.84	0.31	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
21	0.0	0.63	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.63	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.10	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.10	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	1.26	1.47	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.26	1.47	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.16	0.73	0.0	0.0	25	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.16	0.73	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0			
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.10	0.0	0.0	27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.10	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0			
29	0.0	0.0	0.0	2.75	0.0	0.0	1.01	0.0	0.0	0.0	0.05	0.0	29	0.0	0.0	0.0	2.75	0.0	0.0	0.0	0.0	0.0	0.05	0.0			
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.17	30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	1.20	0.17			
31	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.22	31	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.29	0.0	0.22			
TOTAL	0.12	1.58	2.70	4.39	2.66	1.31	1.39	3.96	3.90	5.14	1.32	1.63	TOTAL	0.12	1.58	2.70	4.39	2.66	1.31	1.39	3.96	3.90	5.14	1.32	1.63		
STA AV	0.90	1.12	2.26	3.00	3.71	2.32	1.87	3.34	3.98	3.27	1.25	0.91	STA AV	0.90	1.12	2.26	3.00	3.71	2.32	1.87	3.34	3.98	3.27	1.25	0.91		

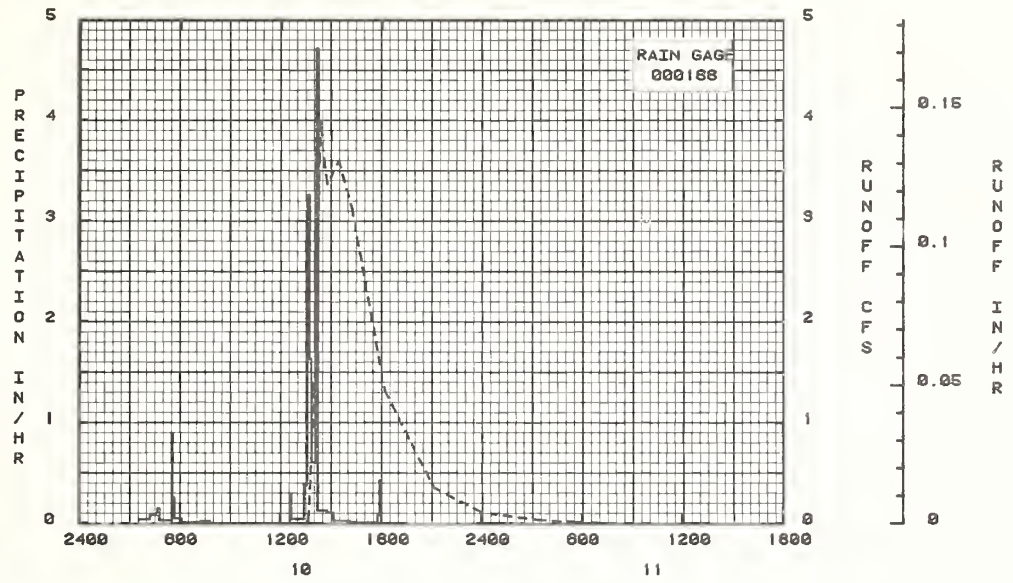
NOTES: Precipitation values obtained from two recording type rain gages, Nos. 185 and 188. STA AV based on 10 yr (1965-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CRICKASBA, 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	0.328	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.022	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	0.004	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.018	0.0	0.0	0.0	0.0
10	0.0	0.0	0.628	0.0	0.0	0.0	0.0	0.093	0.0	0.0	0.0	0.0
11	0.0	0.0	0.013	0.014	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	0.001	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	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.067	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	0.001	0.004	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	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	0.096	0.0	0.0
29	0.0	0.0	0.0	0.078	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.401	0.0	0.0	0.0	0.0	0.0	0.165	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.076	0.0	0.0
MEAN	0.0	0.0024	0.0207	0.0164	0.0113	0.0	0.0	0.0036	0.0	0.0110	0.0002	0.0
INCRS	0.0	0.059	0.560	0.430	0.305	0.0	0.0	0.097	0.001	0.299	0.004	0.0
STA AV	0.004	0.007	0.228	0.102	0.130	0.106	0.048	0.141	0.159	0.264	0.012	0.0

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.872495. STA AV based on 10 yr (1965-74) record period.

1974 SELECTED RUNOFF EVENT CRICKASBA, OKLAHOMA WATERSHED C-8												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 10 - 11, 1974												
3-10	RG 000188 0.0	0.0	3-10	RG 000188 330	0.0	0.0	3-10	1338	0.0	0.0		
				411	0.0439	0.03		1342	0.121	0.0002		
				439	0.0857	0.07		1352	0.732	0.0027		
				447	0.1500	0.09		1359	1.305	0.0070		
				531	0.0273	0.11		1409	1.917	0.0168		
WATERSHED CONDITIONS: Alfalfa planted 9-26-73.				533	0.9000	0.14		1416	3.604	0.0285		
				540	0.2571	0.17		1422	3.994	0.0423		
				605	0.0480	0.19		1433	3.604	0.0676		
				715	0.0086	0.20		1445	3.357	0.0930		
				745	0.0200	0.21		1525	3.604	0.1773		
				1233	0.0	0.21		1613	3.121	0.2751		
				1239	0.3000	0.24		1813	1.305	0.4360		
				1324	0.0400	0.27		2110	0.347	0.5246		
				1335	0.3818	0.34		2400	0.112	0.5482		
				1342	3.2571	0.72	3-11	321	0.033	0.5570		
				1349	1.6286	0.91		558	0.011	0.5591		
				1352	1.4000	0.98		803	0.004	0.5597		
				1405	0.6000	1.11		956	0.0	0.5598		
				1412	4.7143	1.66						
				1447	0.1200	1.73						
				1511	0.1000	1.77						
				1609	0.0207	1.79						
				1748	0.0061	1.80						
				1755	0.0857	1.81						
				1802	0.4286	1.86						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.



EVENT OF MARCH 10 - 11, 1974
CHICKASHA, OKLAHOMA WATERSHED C-8

CRICKASHA, OKLAHOMA WATERSHED R-1

LOCATION: Caddo County, Oklahoma; NE 1/4, sec. 21, T. 8 N., R. 9 W., about 4-3/4 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 25 sec. N.; Long. 98 deg. 08 min. 43 sec. W.

AREA: 17.76 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)		CHICKASHA, OKLAHOMA WATERSHED R-1												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.12	2.49	2.82	4.06	3.61	1.16							
	Q	0.0	0.009	0.010	0.006	0.002	0.0							
STA AV	P	0.77	1.03	1.94	3.05	3.63	3.55	1.71	2.90	4.19	2.50	1.64	0.90	27.81
	Q	0.0	0.001	0.003	0.013	0.011	0.027	0.0	0.004	0.005	0.001	0.003	0.0	0.068

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-2, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was fertilized and sprig-sodded to bermuda in 20-inch rows in spring of 1972. Because of unfavorable weather conditions, a poor stand resulted. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.38-1 and 69.38-2. Precipitation data obtained from recording rain gage No. 189. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Station was discontinued July 1, 1974. STA AV are for 1962-1974 record period, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see Rational Weather Service records at Chickasha, Okla.

1974 DAILY PRECIPITATION (inches)		CRICKASHA, OKLAHOMA WATERSHED R-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03	0.0	0.0	0.0	1.05	0.0	0.0	RR	RR	RR	RR	RR	RR
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR
3	0.0	0.0	0.0	0.0	0.0	0.51	0.0	RR	RR	RR	RR	RR	RR
4	0.0	0.0	0.0	0.0	0.0	0.02	0.35	RR	RR	RR	RR	RR	RR
5	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
6	0.0	0.0	0.0	0.0	0.0	0.33	RR	RR	RR	RR	RR	RR	RR
7	0.0	0.0	0.0	0.0	0.0	0.02	RR	RR	RR	RR	RR	RR	RR
8	0.0	0.0	1.38	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
9	0.06	0.0	0.02	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
10	0.0	0.0	1.18	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
11	0.0	0.0	0.0	1.09	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
12	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
13	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
14	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
15	0.0	0.03	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
16	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
17	0.0	0.0	0.0	0.0	0.0	0.28	RR	RR	RR	RR	RR	RR	RR
18	0.0	0.06	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
19	0.02	0.0	0.0	0.03	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
20	0.0	1.89	0.24	0.64	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
21	0.0	0.51	0.0	0.0	0.66	0.0	RR	RR	RR	RR	RR	RR	RR
22	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
23	0.0	0.0	0.0	0.0	0.11	0.0	RR	RR	RR	RR	RR	RR	RR
24	0.0	0.0	0.0	0.0	0.05	0.0	RR	RR	RR	RR	RR	RR	RR
25	0.0	0.0	0.0	0.0	0.84	0.0	RR	RR	RR	RR	RR	RR	RR
26	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
27	0.01	0.0	0.0	0.07	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
28	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
29	0.0	0.0	0.0	2.23	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
30	0.0	0.0	0.0	0.0	0.0	0.0	RR	RR	RR	RR	RR	RR	RR
31	0.0	0.0	0.0	0.0	0.90	0.0	RR	RR	RR	RR	RR	RR	RR
TOTAL	0.12	2.49	2.82	4.06	3.61	1.16							
STA AV	0.77	1.03	1.94	3.05	3.63	3.55	1.71	2.90	4.19	2.50	1.64	0.90	

NOTES: Precipitation values obtained from one recording rain gage, No. 189. STA AV are for 1962-74, part-year records included. Watershed was discontinued JULY 1, 1974.

1974		MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED R-1					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.001	0.0	NR	NR	NR	NR	NR	NR
2	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
3	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
4	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
5	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
6	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
7	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
8	0.0	0.0	0.004	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
9	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
10	0.0	0.0	0.004	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
11	0.0	0.0	0.0	0.001	0.0	0.0	NR	NR	NR	NR	NR	NR
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
15	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
17	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
18	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
19	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
20	0.0	0.007	0.0	0.001	0.0	0.0	NR	NR	NR	NR	NR	NR
21	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
22	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
23	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
24	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
25	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
27	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
29	0.0		0.0	0.003	0.0	0.0	NR	NR	NR	NR	NR	NR
30	0.0		0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
31	0.0		0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
MEAN	0.0	0.0002	0.0002	0.0001	0.0	0.0						
INCHES	0.0	0.009	0.010	0.006	0.002	0.0						
STA AV	0.0	0.001	0.003	0.013	0.011	0.027	0.0	0.004	0.005	0.001	0.003	0.0

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.340183. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

CHICKASHA, OKLAHOMA WATERSHED R-2

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N., R. 9 W., about 4-1/2 miles North and 2-3/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 16 sec. N.; Long. 98 deg. 08 min. 34 sec. W.

AREA: 24.08 acres

		MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED R-2						
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.09	2.24	2.57	3.43	3.10	1.10							
	Q	0.0	0.025	0.015	0.006	0.007	0.0							
STA AV	P	0.71	0.97	1.77	2.91	3.44	3.43	1.63	2.74	3.96	2.35	1.58	0.85	26.33
	Q	0.002	0.002	0.007	0.037	0.025	0.035	0.001	0.023	0.026	0.007	0.008	0.004	0.177

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 190. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Station was discontinued July 1, 1974. STA AV are for 1962-74, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation see National Weather Service records at Chickasha, Okla.

1974		DAILY PRECIPITATION (inches)						CHICKASHA, OKLAHOMA WATERSHED R-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	1.10	0.0	0.0	NR	NR	NR	NR	NR	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	
3	0.0	0.0	0.0	0.0	0.0	0.50	0.0	NR	NR	NR	NR	NR	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.25	NR	NR	NR	NR	NR	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	
6	0.0	0.0	0.0	0.0	0.0	0.33	NR	NR	NR	NR	NR	NR	
7	0.0	0.0	0.0	0.0	0.0	0.02	NR	NR	NR	NR	NR	NR	
8	0.0	0.0	1.40	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
9	0.06	0.0	0.02	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
10	0.0	0.0	0.95	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
11	0.0	0.0	0.0	0.93	0.0	0.0	NR	NR	NR	NR	NR	NR	
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
15	0.0	0.01	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
17	0.0	0.0	0.0	0.0	0.0	0.25	NR	NR	NR	NR	NR	NR	
18	0.0	0.06	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
19	0.01	0.0	0.0	0.03	0.0	0.0	NR	NR	NR	NR	NR	NR	
20	0.0	1.75	0.20	0.53	0.0	0.0	NR	NR	NR	NR	NR	NR	
21	0.0	0.42	0.0	0.0	0.52	0.0	NR	NR	NR	NR	NR	NR	
22	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
23	0.0	0.0	0.0	0.0	0.10	0.0	NR	NR	NR	NR	NR	NR	
24	0.0	0.0	0.0	0.0	0.04	0.0	NR	NR	NR	NR	NR	NR	
25	0.0	0.0	0.0	0.0	0.61	0.0	NR	NR	NR	NR	NR	NR	
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
27	0.01	0.0	0.0	0.06	0.0	0.0	NR	NR	NR	NR	NR	NR	
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
29	0.0	0.0	0.0	1.88	0.0	0.0	NR	NR	NR	NR	NR	NR	
30	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
31	0.0	0.0	0.0	0.0	0.73	0.0	NR	NR	NR	NR	NR	NR	
TOTAL	0.09	2.24	2.57	3.43	3.10	1.10							
STA AV	0.71	0.97	1.77	2.91	3.44	3.43	1.63	2.74	3.96	2.35	1.58	0.85	

NOTES: Precipitation values obtained from one recording rain gage, No. 190. STA AV are for 1962-74, part-year records included. Station was discontinued July 1, 1974.

1974		MEAN DAILY DISCHARGE (cfs)						CRICKASBA, OKLAHOMA WATERSHED R-2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.006	0.0	NR	NR	NR	NR	NR	NR	
2	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
3	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
4	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
5	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
6	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
7	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
8	0.0	0.0	0.007	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
9	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
10	0.0	0.0	0.008	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
11	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
15	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
17	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
18	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
19	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
20	0.0	0.025	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
21	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
22	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
23	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
24	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
25	0.0	0.0	0.0	0.0	0.001	0.0	NR	NR	NR	NR	NR	NR	
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
27	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
29	0.0	0.0	0.0	0.006	0.0	0.0	NR	NR	NR	NR	NR	NR	
30	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
31	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
MEAN	0.0	0.0009	0.0005	0.0002	0.0002	0.0							
INCRS	0.0	0.025	0.015	0.006	0.007	0.0							
STA AV	0.002	0.002	0.007	0.037	0.025	0.035	0.001	0.023	0.026	0.007	0.008	0.004	

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.988441. STA AV are for 1962-74, part-year records included. Watershed was discontinued JULY 1, 1974.

CHICKASAW, OKLAHOMA WATERSHED R-3

LOCATION: Caddo County, Oklahoma; NE 1/4, sec/ 21. T. 8 N., R. 9 W., about 4-1/2 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 09 sec. N.; Long. 98 deg. 08 min. 43 sec. W.

AREA: 25.84 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA WATERSHED R-3								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.09	2.18	2.49	3.32	3.24	1.12							
	Q	0.0	0.006	0.005	0.001	0.002	0.0							
STA AV	P	0.70	0.97	1.76	2.89	3.37	3.40	1.59	2.69	3.91	2.35	1.55	0.83	26.01
	Q	0.0	0.001	0.002	0.015	0.008	0.011	0.0	0.010	0.012	0.004	0.004	0.001	0.068

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-2 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.40-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 191. Precipitation records began Jan. 1, 1962. Watershed was discontinued July 1, 1974. STA AV are for 1962-74, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974		DAILY PRECIPITATION (inches)						CHICKASAW, OKLAHOMA WATERSHED R-3						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.09	0.0	0.0	NR	NR	NR	NR	NR		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR		
3	0.0	0.0	0.0	0.0	0.0	0.50	0.0	NR	NR	NR	NR	NR		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.25	NR	NR	NR	NR	NR		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR		
6	0.0	0.0	0.0	0.0	0.0	0.37	NR	NR	NR	NR	NR	NR		
7	0.0	0.0	0.0	0.0	0.0	0.02	NR	NR	NR	NR	NR	NR		
8	0.0	0.0	1.35	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
9	0.06	0.0	0.02	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
10	0.0	0.0	0.93	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
11	0.0	0.0	0.0	0.91	0.0	0.0	NR	NR	NR	NR	NR	NR		
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
15	0.0	0.02	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
17	0.0	0.0	0.0	0.0	0.0	0.23	NR	NR	NR	NR	NR	NR		
18	0.0	0.06	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
19	0.01	0.0	0.0	0.05	0.0	0.0	NR	NR	NR	NR	NR	NR		
20	0.0	1.69	0.19	0.51	0.0	0.0	NR	NR	NR	NR	NR	NR		
21	0.0	0.41	0.0	0.0	0.55	0.0	NR	NR	NR	NR	NR	NR		
22	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
23	0.0	0.0	0.0	0.0	0.10	0.0	NR	NR	NR	NR	NR	NR		
24	0.0	0.0	0.0	0.0	0.03	0.0	NR	NR	NR	NR	NR	NR		
25	0.0	0.0	0.0	0.0	0.68	0.0	NR	NR	NR	NR	NR	NR		
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
27	0.01	0.0	0.0	0.06	0.0	0.0	NR	NR	NR	NR	NR	NR		
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
29	0.0	0.0	0.0	1.79	0.0	0.0	NR	NR	NR	NR	NR	NR		
30	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR		
31	0.0	0.0	0.0	0.0	0.79	0.0	NR	NR	NR	NR	NR	NR		
TOTAL	0.09	2.18	2.49	3.32	3.24	1.12								
STA AV	0.70	0.97	1.76	2.89	3.37	3.40	1.59	2.69	3.91	2.35	1.55	0.83		

NOTES: Precipitation values obtained from one recording rain gage, No. 191. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

1974		HEAR DAILY DISCHARGE (cfs)					CRICKASRA, OKLAHOMA WATERSHED R-3					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.002	0.0	NR	NR	NR	NR	NR	NR
2	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
3	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
4	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
5	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
6	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
7	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
8	0.0	0.0	0.002	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
9	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
10	0.0	0.0	0.003	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
11	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
15	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
17	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
18	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
19	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
20	0.0	0.007	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
21	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
22	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
23	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
24	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
25	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
27	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
29	0.0	0.0	0.0	0.001	0.0	0.0	NR	NR	NR	NR	NR	NR
30	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
31	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
HEAR	0.0	0.0002	0.0002	0.0	0.0001	0.0						
IRCHES	0.0	0.006	0.005	0.001	0.002	0.0						
STA AV	0.0	0.001	0.002	0.015	0.008	0.011	0.0	0.010	0.012	0.004	0.004	0.001

NOTES: To convert discharge in CFS to IER/DAY, multiply by 0.921117. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

CHICKASHA, OKLAHOMA WATERSHED R-4

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N. R. 9 W., about 4-1/2 miles North and 2-1/2 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 09 sec. N.; Long. 98 deg. 08 min. 21 sec. W.

AREA: 18.12 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)		CHICKASHA, OKLAHOMA WATERSHED R-4												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.10	2.58	2.98	3.80	2.93	1.18							
	Q	0.0	0.014	0.005	0.002	0.002	0.0							
STA AV	P	0.74	0.99	1.78	3.04	3.64	3.60	1.64	2.80	4.11	2.46	1.60	0.88	27.28
	Q	0.0	0.001	0.001	0.046	0.012	0.023	0.0	0.016	0.014	0.004	0.004	0.0	0.121

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds W-1, W-2 and R-3. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses, and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.41-1 and 69.41-2. Precipitation data obtained from recording rain gage No. 192. Precipitation records began Jan. 1, 1962. Station was discontinued JULY 1, 1974. STA AV are for 1962-74, part-year records included. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974 DAILY PRECIPITATION (inches)		CHICKASHA, OKLAHOMA WATERSHED R-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	0.97	0.0	0.0	NR	NR	NR	NR	NR
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR
3	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0	NR	NR	NR	NR	NR
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	NR	NR	NR	NR	NR
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
6	0.0	0.0	0.0	0.0	0.0	0.0	0.32	NR	NR	NR	NR	NR	NR
7	0.0	0.0	0.0	0.0	0.0	0.0	0.02	NR	NR	NR	NR	NR	NR
8	0.0	0.0	1.56	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
9	0.06	0.0	0.01	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
10	0.0	0.0	1.18	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
11	0.0	0.0	0.0	1.15	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
15	0.0	0.02	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
17	0.0	0.0	0.0	0.0	0.0	0.0	0.21	NR	NR	NR	NR	NR	NR
18	0.0	0.05	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
19	0.02	0.0	0.0	0.02	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
20	0.0	1.95	0.23	0.60	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
21	0.0	0.56	0.0	0.0	0.50	0.0	0.0	NR	NR	NR	NR	NR	NR
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
23	0.0	0.0	0.0	0.0	0.10	0.0	0.0	NR	NR	NR	NR	NR	NR
24	0.0	0.0	0.0	0.0	0.03	0.0	0.0	NR	NR	NR	NR	NR	NR
25	0.0	0.0	0.0	0.0	0.62	0.0	0.0	NR	NR	NR	NR	NR	NR
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
27	0.01	0.0	0.0	0.05	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
29	0.0	0.0	0.0	1.98	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR
31	0.0	0.0	0.0	0.0	0.71	0.0	0.0	NR	NR	NR	NR	NR	NR
TOTAL	0.10	2.58	2.98	3.80	2.93	1.18							
STA AV	0.74	0.99	1.78	3.04	3.64	3.60	1.64	2.80	4.11	2.46	1.60	0.88	

NOTES: Precipitation obtained from one recording rain gage, No. 192. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

1974		MEAN DAILY DISCHARGE (cfs)					CRICKASHA, OKLAHOMA WATERSHED R-4						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.002	0.0	NR	NR	NR	NR	NR	NR	
2	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
3	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
4	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
5	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
6	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
7	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
8	0.0	0.0	0.002	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
9	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
10	0.0	0.0	0.002	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
11	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
12	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
13	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
14	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
15	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
16	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
17	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
18	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
19	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
20	0.0	0.011	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
21	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
22	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
23	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
24	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
25	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
26	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
27	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
28	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
29	0.0		0.0	0.002	0.0	0.0	NR	NR	NR	NR	NR	NR	
30	0.0		0.0	0.0	0.0	0.0	NR	NR	NR	NR	NR	NR	
31	0.0		0.0		0.0		NR	NR		NR		NR	
MEAN	0.0	0.0004	0.0001	0.0001	0.0001	0.0							
INCRS	0.0	0.014	0.005	0.002	0.002	0.0							
STA AV	0.0	0.001	0.001	0.046	0.012	0.023	0.0	0.016	0.014	0.004	0.004	0.0	

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.313557. STA AV are for 1962-74, part-year records included. Watershed was discontinued July 1, 1974.

CHICKASHA, OKLAHOMA WATERSHED R-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. 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
1974 P	0.15	1.80	1.59	4.02	2.67	1.03	0.68	5.02	3.51	4.79	1.64	1.48	28.38
1974 Q	0.0	0.011	0.063	0.400	0.256	0.0	0.0	0.028	0.0	0.111	0.013	0.0	0.881
STA AV P	0.96	1.14	2.21	3.08	4.35	2.81	2.40	2.84	4.41	3.72	1.68	1.10	30.69
STA AV Q	0.040	0.020	0.272	0.206	0.378	0.295	0.036	0.004	0.060	0.252	0.120	0.028	1.711

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS												
Date	Maximum Discharge Rate	Maximum Volume for Selected Time Interval										
		1 Hour Date 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.				
1974	4-29 0.325	4-29 0.252	4-29 0.356	4-29 0.396	4-29 0.399	4-30 0.399	4-30 0.646	4-25 0.656				
MAXIMUMS FOR PERIOD OF RECORD												
	5-24 1973 2.637	5-24 1973 1.576	5-24 1973 1.760	5-24 1973 1.799	5-24 1973 1.800	5-24 1973 1.800	5-22 1973 1.806	5-24 1973 2.035				

NOTES: Watershed conditions: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1974 was good, however, entire area was slightly overgrazed during the spring and summer. The vegetative cover in mid-Nov. 1974, based on 25 clipped samples uniformly spaced, averaged 1868 pounds of standing grass, 224 pounds of weeds, and 1791 pounds 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. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 69.42-1; maps - topography, 1966, p. 69.42-3 of foregoing reference; revised composite, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 195 and 196. Precipitation and runoff records began July 1, 1966. STA AV based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED R-5
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	1.13	0.0	0.0	0.39	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	0.74	0.0	0.23	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.04	0.0	0.0	0.79	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.03	0.26	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	0.05	0.0	0.0	0.0	0.10	
6	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.06	0.0	0.12	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.12	0.05	0.0	
8	0.0	0.0	0.18	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.11	0.0	0.0	0.0	0.0	0.0	0.0	1.65	0.0	0.0	0.32	0.0	
10	0.0	0.0	1.08	0.0	0.0	0.0	0.0	1.88	0.0	0.0	0.21	0.77	
11	0.0	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	
20	0.0	0.73	0.33	0.02	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	
21	0.0	0.66	0.0	0.0	0.08	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	0.07	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	1.16	0.90	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.15	0.36	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.05	0.0	0.0	
27	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.0	0.12	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.0	
29	0.0	0.0	0.0	2.67	0.0	0.0	0.42	0.0	0.0	0.0	0.04	0.0	
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.79	0.0	0.27	
31	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.11	
TOTAL	0.15	1.80	1.59	4.02	2.67	1.03	0.68	5.02	3.51	4.79	1.64	1.48	
STA AV	0.96	1.14	2.21	3.08	4.35	2.81	2.40	2.84	4.41	3.72	1.68	1.10	

NOTES: Precipitation obtained from Thiessen weighted values from two gages, Nos. 195 and 196. STA AV based on 9 yr (1966-74) record period.

1974 NEAR DAILY DISCHARGE (cfs) CRICKASRA, 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	0.245	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.011	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	0.012	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	0.062	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0
11	0.0	0.0	0.001	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	0.010	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	0.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.0	0.108	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
MEAN	0.0	0.0004	0.0020	0.0133	0.0082	0.0	0.0	0.0009	0.0	0.0036	0.0004	0.0
INCRS	0.0	0.011	0.063	0.400	0.256	0.0	0.0	0.028	0.0	0.111	0.013	0.0
STA AV	0.040	0.020	0.272	0.206	0.378	0.295	0.036	0.004	0.060	0.252	0.120	0.028

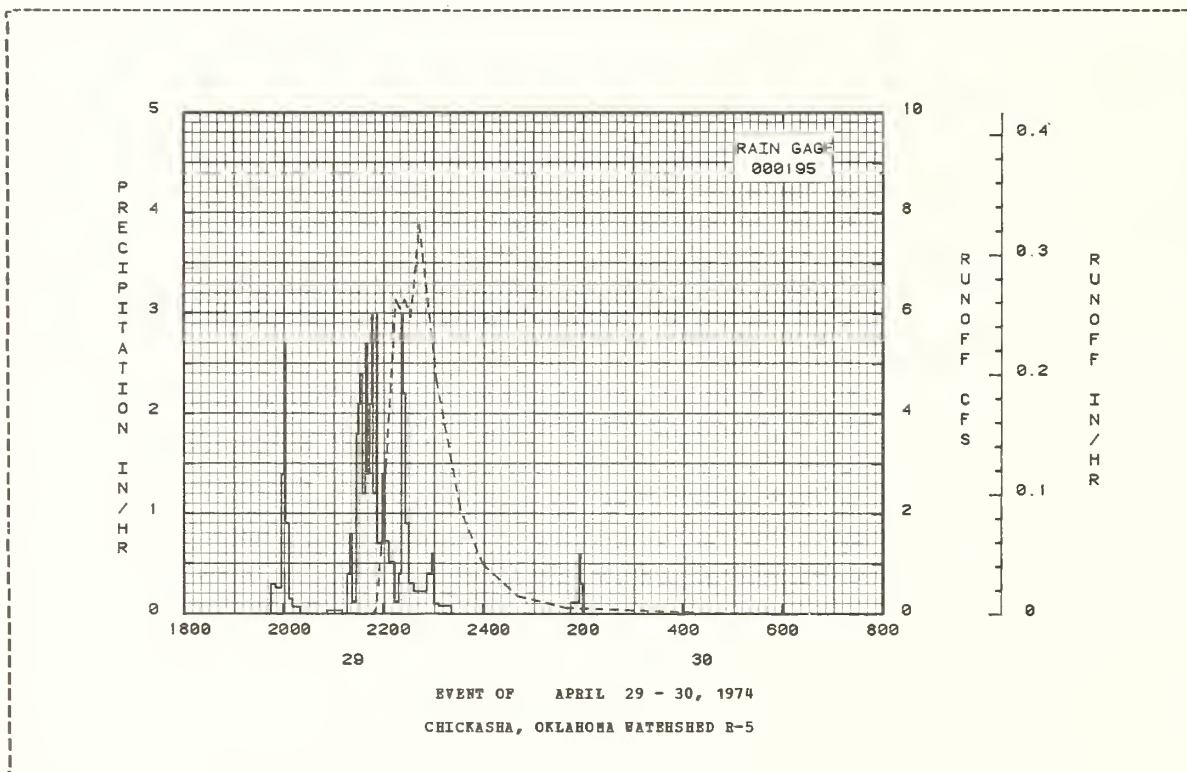
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.003442. STA AV based on 9 yr (1966-74) record period.

1974 SELECTED RUNOFF EVENT CRICKASRA, 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 APRIL 29 - 30, 1974											
4-29	RG 000195 0.74	0.0	4-29	RG 000195 1945	0.0	0.0	4-29	2148	0.0	0.0	
				1947	0.3000	0.01		2152	0.121	0.0002	
				1951	0.3000	0.03		2158	1.297	0.0031	
				1958	0.2571	0.06		2204	3.094	0.0123	
				2001	1.4000	0.13		2215	6.269	0.0482	
				2003	2.7000	0.22		2220	6.094	0.0697	
				2007	0.9000	0.28		2226	6.269	0.0956	
				2011	0.1500	0.29		2233	5.923	0.1253	
				2020	0.0667	0.30		2243	7.775	0.1730	
				2053	0.0	0.30		2304	4.657	0.2640	
				2111	0.0333	0.31		2333	2.077	0.3320	
				2117	0.0	0.31		2400	0.987	0.3609	
				2120	0.4000	0.33	4-30	42	0.346	0.3804	
				2123	0.8000	0.37		140	0.121	0.3898	
				2128	0.1200	0.38		422	0.020	0.3978	
				2130	1.8000	0.44		723	0.003	0.3992	
				2132	2.1000	0.51		1200	0.0	0.3995	
				2135	2.4000	0.63					
				2139	1.2000	0.71					
				2141	2.7000	0.80					
				2144	1.4000	0.87					
				2146	2.1000	0.94					
				2148	3.0000	1.04					
				2152	1.2000	1.12					
				2153	2.9980	1.17					
				2159	0.7000	1.24					
				2202	1.4000	1.31					
				2207	0.7200	1.37					
				2214	0.5143	1.43					
				2219	0.1200	1.44					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.

1974 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-5							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Date	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
			EVENT OF APRIL 29 - 30, 1974 (CONTINUED)							
			4-29							
				2222	0.4000	1.46				
				2224	3.0000	1.56				
				2227	2.2000	1.67				
				2231	0.9000	1.73				
				2237	0.3000	1.76				
			2245							
				2253	0.2250	1.79				
				2259	0.4000	1.82				
				2301	0.6000	1.86				
				2307	0.1000	1.88				
			2322							
			4-30							
				146	0.0800	1.91				
				151	0.0	1.91				
				156	0.1200	1.92				
				158	0.1200	1.93				
				200	0.6000	1.95				
				200	0.3000	1.96				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.



CHICKASHA, OKLAHOMA WATERSHED H-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 H-6	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.14	1.79	1.56	4.01	2.68	0.99	0.67	5.06	3.62	4.75	1.64	1.47	28.38
	Q	0.0	0.032	0.062	0.361	0.178	0.000	0.0	0.097	0.0	0.094	0.016	0.0	0.840
STA AV	P	0.96	1.15	2.18	3.03	4.39	2.78	2.39	2.84	4.45	3.66	1.69	1.09	30.60
	Q	0.015	0.015	0.233	0.225	0.443	0.259	0.034	0.023	0.076	0.238	0.106	0.015	1.682

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.	
1974	4-29	0.344	4-29	0.234	4-29	0.315	4-29	0.334	4-30	0.335	4-30	0.336	4-30	0.513	4-24	0.513
MAXIMUMS FOR PERIOD OF RECORD																
	5-24	3.829	5-24	1.914	5-24	2.048	5-24	2.060	5-24	2.060	5-23	2.060	5-22	2.116	5-24	2.384
	1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: 100% rangeland, native grass continuously grazed by beef cattle during recent years. Range condition class during the year was good to excellent, however, entire area was slightly overgrazed throughout the year. The vegetative cover in mid-Nov. 1974, based on 25 uniformly spaced clipped samples, averaged 1905 pounds of standing grass, 286 pounds of weeds, and 1400 pounds of mulch. This watershed was in the same pasture area as Watershed H-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. Pnb. 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 based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1974 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED H-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.15	0.0	0.0	0.44	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	0.78	0.0	0.22	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.05	0.0	0.0	0.82	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.04	0.28	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	0.05	0.0	0.0	0.0	0.10		
6	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.09	0.0	0.11	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.11	0.05	0.0		
8	0.0	0.0	0.19	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.11	0.0	0.0	0.0	0.0	0.0	0.0	1.59	0.0	0.0	0.29	0.0		
10	0.0	0.0	1.03	0.0	0.0	0.0	0.0	1.87	0.0	0.0	0.22	0.77		
11	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0		
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0		
20	0.0	0.72	0.34	0.02	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0		
21	0.0	0.69	0.0	0.0	0.08	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	0.09	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	1.16	0.88	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.17	0.35	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.05	0.0	0.0		
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.14	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	0.0	0.0		
29	0.0	0.0	0.0	2.66	0.0	0.0	0.39	0.0	0.0	0.0	0.04	0.0		
30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	7.76	0.0	0.17		
31	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.24	0.0	0.20		
TOTAL	0.14	1.79	1.56	4.01	2.68	0.99	0.67	5.06	3.62	4.75	1.64	1.47		
STA AV	0.96	1.15	2.18	3.03	4.39	2.78	2.39	2.84	4.45	3.66	1.69	1.09		

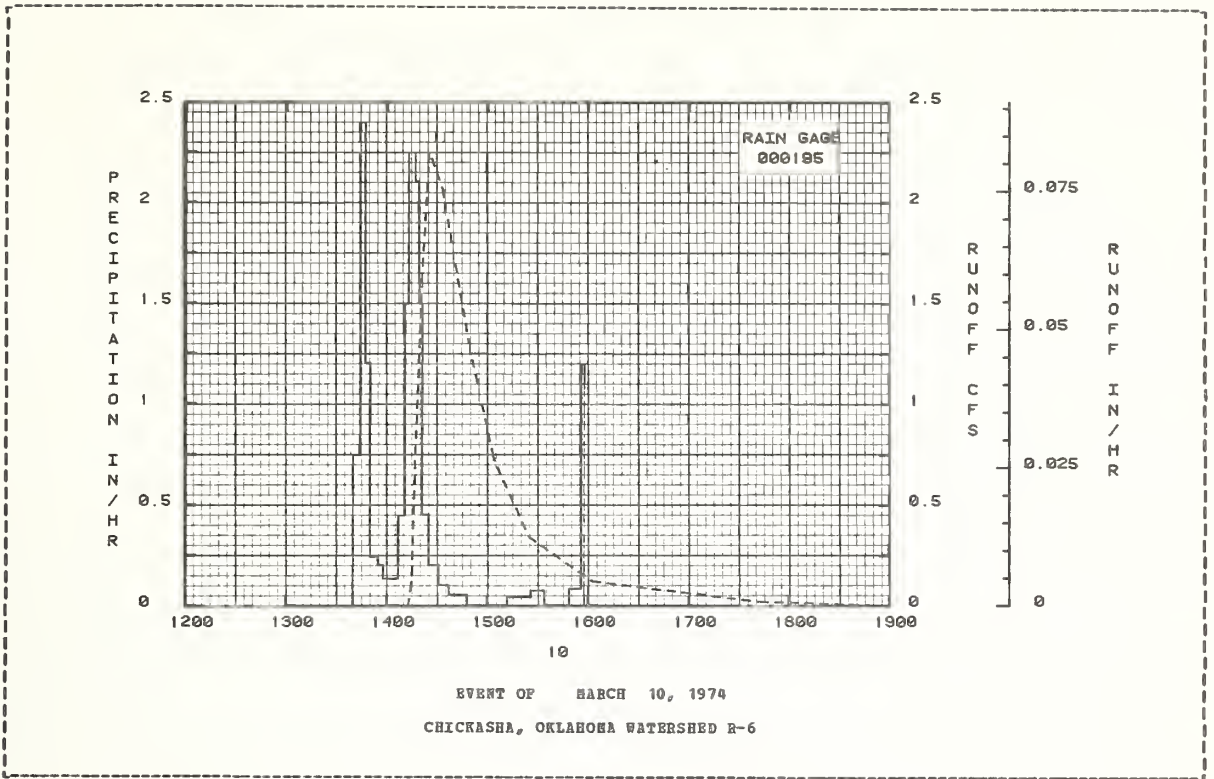
NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. STA AV based on 9 yr (1966-74) record period.

1974 BEAN DAILY DISCHARGE (cfs) 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	0.203	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.001	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	0.018	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 T	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 T	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	0.016	0.0	0.0	0.0	0.0
10	0.0	0.0	0.070	0.0	0.0	0.0	0.0	0.095	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.030	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	0.036	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	0.008	0.0	0.0
29	0.0	0.0	0.0	0.370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.098	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
BEAN	0.0	0.0013	0.0023	0.0138	0.0066	0.0	0.0	0.0036	0.0	0.0035	0.0006	0.0
INCRS	0.0	0.032	0.062	0.361	0.178	0.000	0.0	0.097	0.0	0.094	0.016	0.0
STA AV	0.015	0.015	0.233	0.225	0.443	0.259	0.034	0.023	0.076	0.238	0.106	0.015

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.874418. STA AV based on 9 yr (1966-74) record period

1974 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-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 MARCH 10, 1974												
3-10	RG 000195 0.35	0.0	3-10	RG 000195 1340	0.0	0.0	3-10	1413	0.0	0.0		
				1344	0.7500	0.05		1415	0.120	0.0001		
				1347	2.4000	0.17		1417	0.723	0.0006		
				1350	1.2000	0.23		1421	1.648	0.0035		
				1355	0.2400	0.25		1425	2.247	0.0082		
				1358	0.2000	0.26		1433	2.064	0.0187		
				1407	0.1333	0.28		1449	1.288	0.0349		
				1411	0.4500	0.31		1504	0.723	0.0441		
				1413	1.5000	0.36		1525	0.343	0.0509		
				1417	2.2500	0.51		1603	0.120	0.0562		
				1419	2.1000	0.58		1743	0.020	0.0605		
				1421	1.5000	0.63		1953	0.003	0.0614		
				1425	0.4500	0.66		2400	0.0	0.0616		
				1431	0.2000	0.68						
				1437	0.1000	0.69						
				1448	0.0545	0.70						
				1512	0.0	0.70						
				1526	0.0429	0.71						
				1534	0.0750	0.72						
				1549	0.0	0.72						
				1556	0.0857	0.73						
				1558	1.2000	0.77						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.036434.



CHICKASAW, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 R., E. 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 RUOFF (inches)					CHICKASAW, OKLAHOMA WATERSHED R-7							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.13	1.75	1.49	3.89	2.68	1.01	0.69	4.99	3.75	4.72	1.68	1.45	28.23
	Q	0.0	0.365	0.342	1.360	0.557	0.065	0.0	1.069	0.247	1.569	0.402	0.084	6.060
STA AV	P	0.93	1.08	2.09	2.95	4.26	2.78	2.32	2.84	4.31	3.50	1.61	1.05	29.70
	Q	0.142	0.109	0.415	0.717	1.043	0.703	0.280	0.301	0.712	0.928	0.364	0.080	5.793

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUOFF (inches) FOR SELECTED TIME INTERVALS																
	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.
1974	4-29	1.143	4-29	0.770	4-29	0.979	4-29	1.069	10-30	1.118	4-30	1.189	4-30	1.624	10-27	1.881

MAXIMUMS FOR PERIOD OF RECORD														
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	5-24	5.059	5-24	2.185	5-24	2.311	5-24	2.320	5-24	2.320	10-30	2.362	11-10	2.988
	1973		1973		1973		1973		1973		1972		1972	1973

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Range condition class during the year was poor to fair. The vegetative cover mid-Nov. 1974 based on 25 uniformly spaced clipped samples, averaged 342 pounds of standing grass, 118 pounds of weeds, and 296 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 based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1974		DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA WATERSHED R-7						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.01	0.0	0.0	0.0	1.18	0.0	0.0	0.35	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	0.23	0.0	0.04	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.04	0.33	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	0.05	0.0	0.0	0.0	0.10	
6	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.09	0.0	0.14	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.08	0.0	0.0	
8	0.0	0.0	0.14	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.10	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.0	0.0	0.32	0.0	
10	0.0	0.0	1.04	0.0	0.0	0.0	0.0	1.79	0.0	0.0	0.22	0.76	
11	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	
15	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	
20	0.0	0.70	0.31	0.03	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	
21	0.0	0.69	0.0	0.0	0.07	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	0.07	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	1.19	0.90	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.16	0.32	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.04	0.0	0.0	
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.10	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	
29	0.0	0.0	0.0	2.54	0.0	0.0	0.36	0.0	0.0	0.0	0.05	0.0	
30	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.82	0.0	0.15	
31	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.26	0.0	0.26	
TOTAL	0.13	1.75	1.49	3.89	2.68	1.01	0.69	4.99	3.75	4.72	1.68	1.45	
STA AV	0.93	1.08	2.09	2.95	4.26	2.78	2.32	2.84	4.31	3.50	1.61	1.05	

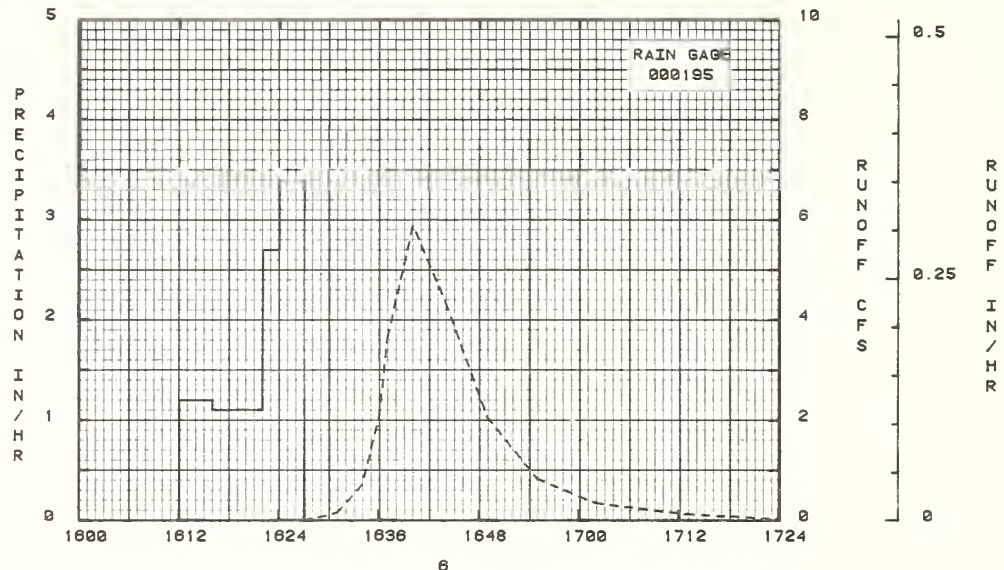
NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. STA AV based on 9 yr (1966-74) record period.

1974 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED R-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.446	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	0.065	0.0	0.021	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.260	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	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	0.052	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	0.314	0.0	0.0	0.009	0.0
10	0.0	0.0	0.276	0.0	0.0	0.0	0.0	0.548	0.0	0.0	0.033	0.029
11	0.0	0.0	0.0	0.233	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.039
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	0.013	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	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	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.274	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	0.089	0.001	0.0	0.0
25	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.012	0.029	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	0.292	0.0	0.0
29	0.0	0.0	0.0	0.852	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.902	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.041	0.0	0.0
MEAN	0.0	0.0105	0.0089	0.0366	0.0145	0.0017	0.0	0.0278	0.0066	0.0408	0.0108	0.0022
INCHES	0.0	0.365	0.342	1.360	0.557	0.065	0.0	1.069	0.247	1.569	0.402	0.084
STA AV	0.142	0.109	0.415	0.717	1.043	0.703	0.280	0.301	0.712	0.928	0.364	0.080

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.240315. STA AV based on 9 yr (1966-74) record period.

1974 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED R-7												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 6, 1974												
RG 000195			BG 000195									
6- 6	0.0	0.0	6- 6	1612	0.0	0.0	6- 6	1627	0.0	0.0		
				1616	1.2000	0.08		1631	0.153	0.0003		
				1622	1.1000	0.19		1634	0.721	0.0014		
				1624	2.7000	0.28		1636	2.058	0.0038		
				1627	3.4000	0.45		1637	3.665	0.0062		
WATERSHED CONDITIONS:									1640	5.875	0.0186	
Range condition class during									1644	4.331	0.0361	
the year was poor to fair.									1649	2.058	0.0499	
									1655	0.818	0.0573	
									1702	0.342	0.0608	
									1713	0.120	0.0630	
									1733	0.020	0.0642	
									1757	0.003	0.0645	
									1827	0.0	0.0645	
									1847	0.0	0.0645	

NOTES: To convert CFS to IN/HR, multiply by 0.051680.



EVENT OF JUNE 6, 1974
CHICKASHA, OKLAHOMA WATERSHED R-7

CRICKASHA, 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)													CRICKASHA, OKLAHOMA WATERSHED R-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1974	P	0.14	1.80	1.57	4.02	2.72	0.96	0.70	5.04	3.79	4.85	1.63	1.52	28.74
	Q	0.0	0.177	0.239	1.004	0.508	0.031	0.0	0.721	0.187	1.099	0.278	0.045	4.289
STA AV	P	0.97	1.15	2.11	2.95	4.38	2.73	2.38	2.77	4.37	3.50	1.64	1.08	30.03
	Q	0.064	0.052	0.296	0.450	0.828	0.488	0.173	0.165	0.456	0.627	0.250	0.049	3.898

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.
	4-29	0.847	4-29	0.559	4-29	0.744	4-29	0.822	4-29	0.832	4-29	0.834	4-29	1.302	4-24	1.329

MAXIMUMS FOR PERIOD OF RECORD															
1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974	1973	1974
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

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935, when land use was changed to pasture because of severe erosion. Gauge condition class during the year was poor to fair. The vegetative cover in mid-Nov. 1974, based on 25 uniformly spaced clipped samples, average 432 pounds of standing grass, 116 pounds of weeds, and 567 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 based on 9 yr (1966-74) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1974 DAILY PRECIPITATION (inches)													CRICKASHA, OKLAHOMA WATERSHED R-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01	0.0	0.0	0.0	1.23	0.0	0.0	0.42	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	0.85	0.0	0.19	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.05	0.0	0.0	0.84	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.04	0.33	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	0.06	0.0	0.0	0.0	0.11		
6	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.11	0.0	0.13	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.09	0.03	0.0		
8	0.0	0.0	0.20	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.10	0.0	0.0	0.0	0.0	0.0	0.0	1.56	0.0	0.0	0.30	0.0		
10	0.0	0.0	1.02	0.0	0.0	0.0	0.0	1.84	0.0	0.0	0.22	0.81		
11	0.0	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.04	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0		
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.32	0.0	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	0.0	0.0	0.0	0.12	0.0	0.0	0.0		
20	0.0	0.72	0.35	0.01	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0		
21	0.0	0.73	0.0	0.0	0.07	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	0.09	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	1.18	0.92	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.16	0.34	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.05	0.0	0.0		
27	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.15	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0		
29	0.0	0.0	2.67	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.05	0.0		
30	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.0	0.17		
31	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.21		
TOTAL	0.14	1.80	1.57	4.02	2.72	0.96	0.70	5.04	3.79	4.85	1.63	1.52		
STA AV	0.97	1.15	2.11	2.95	4.38	2.73	2.38	2.77	4.37	3.50	1.64	1.08		

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. STA AV based on 9 yr (1966-74) record period.

1974 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 T	0.0	0.567	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0 T	0.0 T	0.003	0.0	0.0	0.0	0.058	0.0	0.019	0.0	0.0
3	0.0	0.0	0.0 T	0.0 T	0.001	0.0 T	0.0	0.0	0.0	0.0	0.270	0.0	0.0
4	0.0	0.0	0.0 T	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.002	0.0	0.0
5	0.0	0.0	0.0 T	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0 T	0.0 T	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.001	0.0 T	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0 T	0.0 T	0.0 T	0.0	0.0	0.205	0.0	0.0	0.008	0.0	0.0
10	0.0	0.0	0.250	0.0 T	0.0 T	0.0	0.0	0.630	0.0	0.0	0.024	0.022	0.0
11	0.0	0.0	0.001	0.188	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.030	0.0
12	0.0	0.0	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
13	0.0	0.0	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.001	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.002	0.0 T	0.0 T	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0
16	0.0	0.0	0.002	0.0 T	0.0 T	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0
17	0.0	0.0	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.001	0.004	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0 T	0.008	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.010	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.191	0.0 T	0.0 T	0.0 T	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 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0 T	0.0	0.0 T	0.001	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 T	0.002	0.0	0.0	0.0	0.084	0.012	0.0	0.0	0.0
25	0.0	0.0 T	0.0	0.0 T	0.010	0.0	0.0	0.0	0.013	0.028	0.0	0.0	0.0
26	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
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 T	0.0	0.0	0.0	0.0	0.0	0.0	0.322	0.0	0.0	0.0
29	0.0	0.0	0.0 T	0.932	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 T	0.038	0.0	0.0	0.0	0.0	0.0	0.871	0.0	0.0	0.0
31	0.0	0.0	0.0 T	0.002	0.002	0.0	0.0	0.0	0.039	0.039	0.0	0.0	0.0
MEAN	0.0	0.0073	0.0089	0.0387	0.0190	0.0012	0.0	0.0269	0.0072	0.0410	0.0107	0.0017	0.0017
INCHES	0.0	0.177	0.239	1.004	0.508	0.031	0.0	0.721	0.187	1.099	0.278	0.045	0.045
STA AV	0.064	0.052	0.296	0.450	0.828	0.488	0.173	0.165	0.456	0.627	0.250	0.049	0.049

NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.863944. STA AV based on 9 yr (1966-74) record period.

1974 SELECTED HUHOPP EVENT CHICKASHA, OKLAHOMA WATERSHED R-8											
ANTECEDENT CONDITIONS			RAINFALL				RUHOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 9 - 10, 1974											
8-9	RG 000195 0.0	0.0	8-9	RG 000195 2047	0.0	0.0	8-9	2123	0.0	0.0	
				2049	1.5000	0.05		2124	0.119	0.0000	
				2053	0.6000	0.09		2125	0.719	0.0003	
				2105	0.0	0.09		2126	2.051	0.0011	
				2112	0.6857	0.17		2127	3.528	0.0028	
WATERSHED CONDITIONS: Range condition class during the year was poor to fair.				2116	4.5000	0.47		2134	5.204	0.0211	
				2119	4.2000	0.66		2138	7.296	0.0361	
				2125	2.4000	0.92		2144	7.688	0.0631	
				2131	1.6000	1.08		2146	9.382	0.0733	
				2137	1.2000	1.20		2151	8.509	0.1002	
				2140	2.2000	1.31		2154	7.688	0.1147	
				2146	1.1000	1.42		2200	4.316	0.1364	
				2150	1.3500	1.51		2204	3.056	0.1452	
				2153	1.2000	1.57		2211	2.424	0.1567	
				2156	1.0000	1.62		2220	1.152	0.1664	
				2205	0.2000	1.65		2226	0.719	0.1697	
				2235	0.0	1.65		2229	0.547	0.1709	
				2243	0.0750	1.66		2244	0.191	0.1742	
				2249	0.2000	1.68		2310	0.047	0.1761	
				2253	0.1500	1.69		2400	0.011	0.1769	
							8-10	103	0.002	0.1772	
								203	0.001	0.1772	
								233	0.002	0.1773	
								234	0.005	0.1773	
								236	0.341	0.1775	
								241	1.280	0.1799	
								246	2.835	0.1861	
								255	1.879	0.1988	
								308	1.215	0.2109	
								309	1.091	0.2116	

NOTES: To convert CPS to IN/HR, multiply by 0.035998.

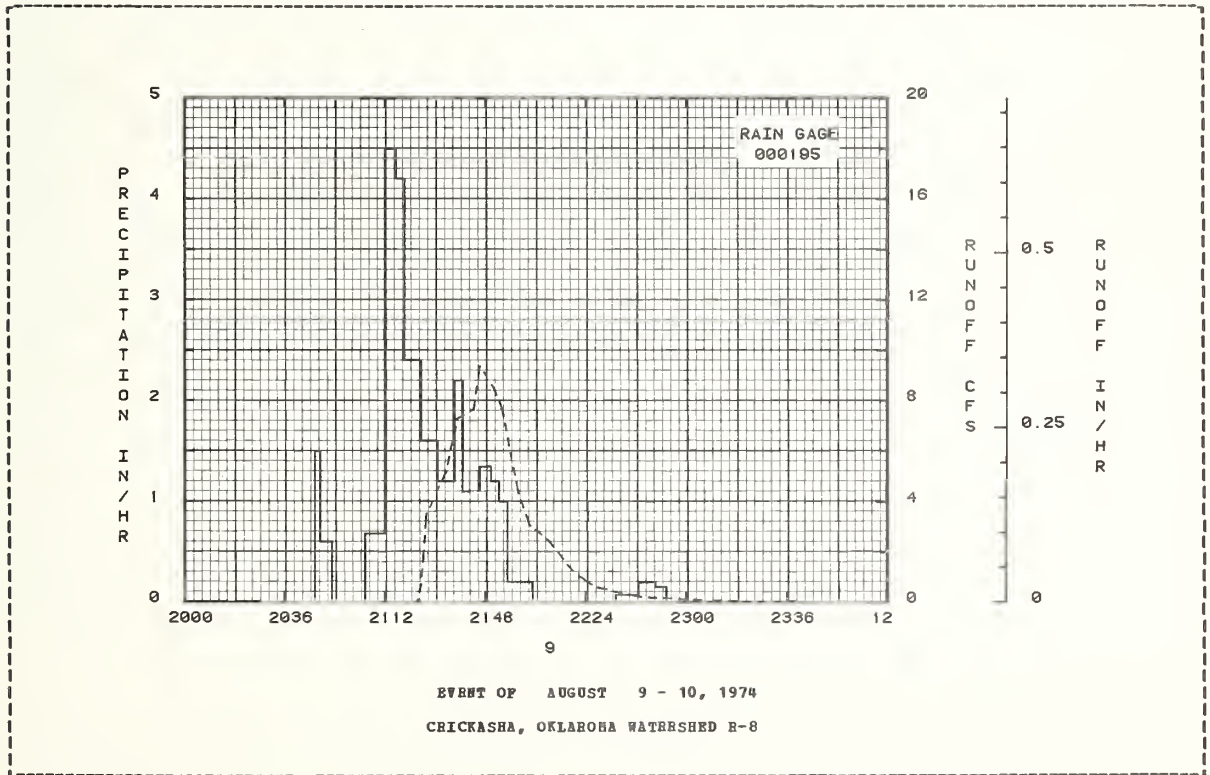
1974

SELECTED RUNOFF EVENT

CRICKASRA, OKLAHOMA WATERSHED R-8

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date No-Day	Rainfall (inches)	Runoff (inches)	Date No-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date No-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 9 - 10, 1974 (CONTINUED)										
							8-10	312	1.215	0.2136
								338	1.879	0.2341
								348	0.719	0.2450
								353	0.472	0.2468
								407	0.341	0.2502
								428	0.191	0.2535
								430	1.032	0.2542
								434	2.624	0.2586
								437	5.204	0.2657
								441	7.688	0.2811
								447	11.800	0.3162
								449	14.870	0.3322
								453	15.780	0.3690
								502	12.330	0.4449
								514	10.310	0.5264
								521	7.688	0.5642
								533	4.316	0.6074
								537	3.910	0.6173
								542	2.835	0.6274
								559	1.562	0.6498
								621	1.032	0.6669
								633	0.920	0.6740
								659	0.866	0.6879
								715	0.920	0.6965
								729	0.766	0.7035
								733	0.719	0.7053
								805	0.285	0.7150
								839	0.091	0.7188
								934	0.020	0.7206
								1006	0.011	0.7209
								1100	0.003	0.7211
								1200	0.002	0.7212
								1343	0.0	0.7213
								1842	0.0	0.7213

NOTES: To convert CFS to IN/HR, multiply by 0.035998.



TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Mishnabotna 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
1974	P	0.25	0.25	0.83	3.15	3.36	1.03	0.64	8.99	1.37	2.87	1.32	0.74	24.80
	Q	0.567	0.636	0.677	0.709	0.835	0.588	0.489	0.666	0.455	0.482	0.464	0.429	6.996
STA AV	P	0.52	0.58	1.23	3.30	4.66	5.18	3.75	3.96	4.43	3.13	1.35	0.96	33.06
	Q	0.378	0.598	0.538	0.421	1.091	1.803	0.408	0.474	0.572	0.361	0.302	0.293	7.240

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.	
1974	5-18	0.323	5-18	0.079	5-18	0.082	5-18	0.087	5-18	0.094	5-17	0.110	5-17	0.135	5-10	0.278

MAXIMUMS FOR PERIOD OF SECOND																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
	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% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 5; 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.

1974 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.91	0.27	0.0	0.0	0.0		
2	0.10	0.0	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	0.0	0.16	0.04	0.27	0.21	0.0	0.0	0.0	0.30	0.0		
4	0.0	0.0	0.18	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	0.27	0.0	0.0		
6	0.05	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.67	0.0	0.20		
7	0.0	0.0	0.0	0.0	0.12	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.05	0.0	0.05	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.07	0.0	1.05	0.0	0.0	0.86	0.0		
10	0.05	0.0	0.0	0.0	0.82	0.0	0.24	1.00	0.0	0.0	0.02	0.0		
11	0.0	0.0	0.28	0.75	0.05	0.07	0.0	0.0	0.03	0.06	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.01	0.41	0.0	0.0	1.35	0.0	0.05	0.0	0.0		
14	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32		
15	0.0	0.0	0.10	0.14	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.09		
16	0.0	0.0	0.0	0.0	0.04	0.0	0.0	1.34	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.21	0.0	0.0	1.15	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.0	0.0	0.04		
19	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.11	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.25	0.0	0.0	0.25	0.0	0.0	0.05	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.11	0.0	0.0	0.0	0.17	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	0.02	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	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.09		
27	0.0	0.0	0.0	0.64	0.24	0.0	0.0	0.90	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	1.12	0.0	0.0	0.0	0.0	0.0	0.27	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	0.07	0.0		
30	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.89	0.0	1.46	0.07	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.05	0.0	0.07	0.0	0.0		
TOTAL	0.25	0.25	0.83	3.15	3.36	1.03	0.64	8.99	1.37	2.87	1.32	0.74		
STA AV	0.52	0.58	1.23	3.30	4.66	5.18	3.75	3.96	4.43	3.13	1.35	0.96		

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after November 5; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV based on 11 yr record period.

1974		MEAN DAILY DISCHARGE (cfs)						TREYBOR, IOWA WATERSHED 1					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.028	0.065	0.076	0.060	0.070	0.065	0.058	0.057	0.060	0.044	0.047	0.047	
2	0.055	0.065	0.076	0.065	0.069	0.063	0.052	0.051	0.059	0.044	0.047	0.047	
3	0.055	0.060	0.076	0.067	0.074	0.070	0.061	0.051	0.049	0.044	0.053	0.047	
4	0.055	0.055	0.070	0.065	0.081	0.062	0.058	0.051	0.047	0.047	0.046	0.047	
5	0.055	0.055	0.065	0.065	0.089	0.062	0.058	0.047	0.046	0.049	0.047	0.046	
6	0.055	0.055	0.065	0.065	0.089	0.062	0.058	0.044	0.047	0.060	0.047	0.052	
7	0.055	0.055	0.065	0.065	0.089	0.065	0.058	0.047	0.047	0.047	0.047	0.044	
8	0.055	0.055	0.068	0.065	0.081	0.084	0.054	0.047	0.047	0.044	0.047	0.038	
9	0.055	0.055	0.065	0.059	0.073	0.078	0.051	0.071	0.047	0.044	0.078	0.038	
10	0.055	0.055	0.065	0.059	0.087	0.065	0.060	0.085	0.046	0.044	0.057	0.043	
11	0.055	0.078	0.080	0.091	0.088	0.061	0.056	0.051	0.047	0.047	0.052	0.047	
12	0.055	0.145	0.076	0.077	0.072	0.061	0.051	0.047	0.047	0.047	0.047	0.046	
13	0.055	0.078	0.070	0.070	0.091	0.065	0.051	0.114	0.050	0.046	0.047	0.047	
14	0.055	0.065	0.065	0.070	0.067	0.060	0.051	0.051	0.047	0.047	0.047	0.047	
15	0.055	0.065	0.065	0.072	0.065	0.060	0.050	0.054	0.046	0.047	0.046	0.047	
16	0.055	0.089	0.065	0.068	0.064	0.060	0.050	0.148	0.044	0.047	0.047	0.047	
17	0.055	0.115	0.069	0.060	0.079	0.060	0.044	0.255	0.044	0.047	0.047	0.045	
18	0.055	0.065	0.065	0.065	0.346	0.058	0.043	0.060	0.044	0.046	0.047	0.038	
19	0.055	0.065	0.065	0.065	0.076	0.059	0.043	0.050	0.042	0.047	0.047	0.039	
20	0.055	0.065	0.065	0.071	0.073	0.061	0.044	0.050	0.043	0.047	0.046	0.044	
21	0.055	0.076	0.068	0.075	0.107	0.056	0.043	0.046	0.044	0.047	0.047	0.047	
22	0.055	0.072	0.065	0.064	0.068	0.062	0.049	0.047	0.044	0.046	0.047	0.049	
23	0.055	0.065	0.071	0.065	0.065	0.061	0.043	0.047	0.044	0.047	0.047	0.047	
24	0.055	0.065	0.076	0.065	0.068	0.059	0.043	0.047	0.044	0.047	0.047	0.038	
25	0.062	0.069	0.076	0.069	0.074	0.056	0.044	0.047	0.044	0.047	0.046	0.039	
26	0.065	0.078	0.071	0.072	0.080	0.052	0.044	0.046	0.044	0.047	0.047	0.038	
27	0.065	0.084	0.068	0.100	0.078	0.052	0.043	0.084	0.047	0.046	0.047	0.039	
28	0.065	0.076	0.065	0.213	0.062	0.052	0.043	0.050	0.046	0.050	0.047	0.038	
29	0.072		0.065	0.076	0.063	0.052	0.044	0.047	0.044	0.046	0.047	0.038	
30	0.083		0.060	0.072	0.061	0.056	0.043	0.140	0.044	0.102	0.046	0.038	
31	0.073		0.055		0.065		0.044	0.059		0.052		0.038	
MEAN	0.0572	0.0711	0.0684	0.0740	0.0843	0.0613	0.0494	0.0673	0.0474	0.0486	0.0484	0.0433	
INCHES	0.567	0.636	0.677	0.709	0.835	0.588	0.489	0.666	0.455	0.482	0.464	0.429	
STA AV	0.378	0.598	0.538	0.421	1.091	1.803	0.408	0.474	0.572	0.361	0.302	0.293	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.31949. STA AV based on 11 yr 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
1974	P	0.25	0.25	0.83	3.00	3.42	0.99	0.60	8.82	1.34	2.90	1.32	0.74	24.46
	Q	0.836	0.923	0.939	0.825	0.959	0.713	0.611	0.825	0.592	0.618	0.634	0.640	9.117
STA AV	P	0.52	0.58	1.28	3.24	4.61	5.14	3.65	3.85	4.49	3.13	1.36	0.96	32.81
	Q	0.440	0.699	0.617	0.416	0.939	1.718	0.388	0.469	0.597	0.422	0.344	0.366	7.415

ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
1974	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.	
1974	8-17	0.281	8-17	0.090	8-17	0.098	8-17	0.106	8-17	0.113	5-17	0.129	8-16	0.167	2-11	0.340

MAXIMUMS FOR PERIOD OF RECORD															
6-20	4.866	6-20	2.701	6-20	3.693	6-20	3.780	6-20	3.786	6-20	3.796	6-20	3.810	6-4	5.531
1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 5; Thiessen average of rain gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 to February 3, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.2-5. For long-time precipitation records, see National Weather Service records period at Omaha, Nebraska.

1974 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 2	
Day	Jau	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	0.98	0.29	0.0	0.0	0.0		
2	0.10	0.0	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	0.0	0.17	0.04	0.27	0.17	0.0	0.0	0.0	0.30	0.0		
4	0.0	0.0	0.18	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	0.26	0.0	0.0		
6	0.05	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.73	0.0	0.20		
7	0.0	0.0	0.0	0.0	0.12	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.05	0.0	0.05	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.04	0.0	1.04	0.0	0.0	0.86	0.0		
10	0.05	0.0	0.0	0.0	0.76	0.0	0.28	0.79	0.0	0.0	0.02	0.0		
11	0.0	0.0	0.28	0.70	0.05	0.08	0.0	0.0	0.02	0.05	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.01	0.50	0.0	0.0	1.40	0.0	0.04	0.0	0.0		
14	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32		
15	0.0	0.0	0.10	0.13	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.09		
16	0.0	0.0	0.0	0.0	0.04	0.0	0.0	1.14	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.24	0.0	0.0	1.30	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.04		
19	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.11	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.25	0.0	0.0	0.23	0.0	0.0	0.07	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.11	0.0	0.0	0.0	0.13	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	0.02	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.09		
27	0.0	0.0	0.0	0.62	0.26	0.0	0.0	0.77	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0	0.0	0.27	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	0.07	0.0		
30	0.0	0.0	0.0	0.0	0.02	0.0	0.0	1.01	0.0	1.47	0.07	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.04	0.0	0.06	0.0	0.0		
TOTAL	0.25	0.25	0.83	3.00	3.42	0.99	0.60	8.82	1.34	2.90	1.32	0.74		
STA AV	0.52	0.58	1.28	3.24	4.61	5.14	3.65	3.85	4.49	3.13	1.36	0.96		

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through November 5, and from station 117 for remainder of year. STA AV based on 11 yr record period.

1970		MEAN DAILY DISCHARGE (cfs)						TREYNOR, IOWA WATERSHED 2					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.097	0.094	0.105	0.100	0.089	0.089	0.070	0.086	0.088	0.064	0.072	0.073	
2	0.094	0.094	0.105	0.094	0.089	0.089	0.072	0.070	0.083	0.061	0.073	0.073	
3	0.094	0.095	0.105	0.101	0.090	0.095	0.079	0.069	0.070	0.061	0.079	0.072	
4	0.094	0.094	0.119	0.094	0.090	0.091	0.076	0.069	0.069	0.064	0.072	0.073	
5	0.094	0.094	0.116	0.094	0.089	0.087	0.075	0.068	0.070	0.074	0.073	0.073	
6	0.095	0.094	0.111	0.090	0.091	0.093	0.074	0.065	0.072	0.094	0.068	0.081	
7	0.094	0.094	0.105	0.095	0.093	0.093	0.075	0.065	0.070	0.071	0.068	0.073	
8	0.094	0.095	0.105	0.088	0.091	0.104	0.066	0.065	0.069	0.069	0.073	0.070	
9	0.094	0.094	0.105	0.090	0.090	0.100	0.065	0.093	0.069	0.066	0.098	0.072	
10	0.094	0.094	0.105	0.088	0.112	0.091	0.080	0.091	0.065	0.064	0.077	0.073	
11	0.095	0.133	0.119	0.119	0.106	0.090	0.075	0.073	0.068	0.071	0.073	0.073	
12	0.094	0.280	0.111	0.098	0.094	0.086	0.070	0.063	0.098	0.073	0.073	0.073	
13	0.094	0.125	0.105	0.094	0.112	0.087	0.073	0.109	0.069	0.073	0.072	0.072	
14	0.094	0.111	0.105	0.097	0.093	0.086	0.069	0.070	0.070	0.071	0.073	0.073	
15	0.094	0.105	0.108	0.097	0.090	0.086	0.066	0.075	0.069	0.064	0.073	0.073	
16	0.097	0.150	0.105	0.094	0.094	0.090	0.066	0.147	0.070	0.064	0.073	0.073	
17	0.094	0.157	0.105	0.089	0.096	0.090	0.065	0.433	0.065	0.064	0.073	0.072	
18	0.094	0.116	0.105	0.090	0.452	0.084	0.065	0.085	0.063	0.067	0.072	0.070	
19	0.095	0.111	0.100	0.090	0.116	0.079	0.066	0.073	0.063	0.070	0.073	0.073	
20	0.094	0.105	0.094	0.097	0.097	0.076	0.066	0.069	0.064	0.069	0.073	0.073	
21	0.094	0.114	0.103	0.090	0.114	0.079	0.066	0.074	0.066	0.064	0.073	0.073	
22	0.094	0.111	0.100	0.091	0.090	0.081	0.068	0.070	0.066	0.064	0.073	0.076	
23	0.094	0.100	0.099	0.083	0.090	0.084	0.064	0.070	0.061	0.064	0.072	0.073	
24	0.095	0.094	0.100	0.083	0.090	0.067	0.063	0.069	0.061	0.064	0.073	0.065	
25	0.094	0.106	0.105	0.083	0.093	0.064	0.065	0.070	0.061	0.064	0.073	0.064	
26	0.094	0.118	0.105	0.083	0.105	0.061	0.066	0.067	0.061	0.068	0.073	0.071	
27	0.094	0.123	0.102	0.101	0.113	0.062	0.066	0.086	0.064	0.069	0.073	0.073	
28	0.094	0.111	0.105	0.157	0.093	0.065	0.064	0.069	0.064	0.069	0.072	0.073	
29	0.101		0.105	0.107	0.091	0.066	0.064	0.069	0.064	0.066	0.073	0.072	
30	0.110		0.101	0.090	0.091	0.066	0.064	0.205	0.067	0.112	0.073	0.069	
31	0.101		0.101		0.089		0.061	0.085		0.074		0.064	
MEAN	0.0938	0.1147	0.1054	0.0957	0.1076	0.0827	0.0686	0.0926	0.0687	0.0694	0.0735	0.0718	
INCHES	0.836	0.923	0.939	0.825	0.959	0.713	0.611	0.825	0.592	0.618	0.634	0.640	
STA AV	0.440	0.699	0.617	0.416	0.939	1.718	0.388	0.469	0.597	0.422	0.344	0.366	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28706. STA AV based on 11 yr record period.

TREYNOR, IOWA WATERSHED 3

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: 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	
1974	P 0.34	0.12	0.98	2.63	3.71	0.93	0.37	6.73	1.43	2.82	1.24	0.66	21.96	
	Q 0.802	0.893	1.076	1.014	1.147	1.044	0.715	0.518	0.420	0.415	0.427	0.400	8.870	
STA AV	P 0.56	0.55	1.24	3.23	4.82	5.18	3.48	3.24	4.45	3.11	1.34	0.95	32.14	
	Q 0.375	0.608	0.638	0.483	0.670	0.879	0.531	0.364	0.350	0.418	0.383	0.389	6.088	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
1974	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.
	5-19	0.039	5-19	0.023	5-19	0.029	5-19	0.036	5-19	0.045	5-18	0.071	5-17	0.105	5-18	0.327		
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	1.408	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 November 5; 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.

1974 DAILY AIR TEMPERATURE (degrees F)														TREYNOR, IOWA WATERSHED 3										
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	-1	-18	23	17	54	29	63	39	71	45	79	54	102	61	70	61	56	47	57	30	66	42	27	13
2	11	-3	28	18	70	38	78	39	75	47	83	54	100	83	75	54	61	44	57	27	53	41	23	9
3	10	-4	19	5	58	42	59	31	62	37	90	63	91	70	70	47	66	38	77	40	45	32	27	5
4	10	-10	27	1	48	30	39	28	65	46	85	63	83	62	79	48	67	39	76	58	49	28	34	14
5	12	2	29	19	59	31	52	26	71	43	88	61	86	60	77	51	66	42	62	43	39	30	44	24
6	6	-5	23	14	71	32	68	30	68	40	75	61	90	60	80	53	64	50	50	38	50	29	36	31
7	4	-8	20	9	52	30	56	38	76	47	75	55	96	65	70	53	79	49	60	29	61	32	39	14
8	5	-6	30	8	66	44	56	25	56	46	64	52	98	72	82	60	81	55	74	39	57	36	20	5
9	2	-15	30	17	54	34	74	36	67	43	69	58	97	72	73	66	81	58	70	40	47	43	39	15
10	7	-5	36	19	42	29	68	45	62	51	76	55	81	71	80	63	82	66	83	46	48	38	49	29
11	-3	-15	52	19	44	37	65	47	69	49	72	57	91	71	79	55	72	57	68	56	51	33	46	29
12	6	-24	55	28	49	35	51	44	65	45	78	50	97	68	95	64	57	42	56	45	45	30	46	27
13	24	6	35	28	47	29	53	40	76	52	87	61	97	71	70	61	60	36	52	49	33	25	37	26
14	37	19	28	26	51	35	50	34	64	48	93	65	95	73	84	66	73	40	57	45	33	24	32	25
15	40	30	30	25	42	29	52	35	69	41	76	59	89	60	82	66	89	50	63	33	47	21	31	27
16	40	32	52	23	34	22	59	34	68	54	72	50	91	58	85	63	81	49	73	43	54	31	23	12
17	36	23	59	28	46	20	71	35	68	59	82	53	101	63	71	59	83	57	75	50	63	30	25	8
18	34	22	42	27	52	29	75	43	73	62	97	60	101	75	85	57	87	54	63	43	50	42	28	17
19	29	11	48	22	41	27	78	43	81	62	100	71	105	74	86	59	77	61	69	38	55	40	31	16
20	35	29	52	33	28	-2	65	54	88	69	104	77	103	73	89	67	67	49	57	39	53	32	30	23
21	33	28	40	27	39	-6	62	50	78	65	101	83	109	69	80	69	62	43	71	40	55	26	27	14
22	28	19	32	18	34	13	64	40	78	59	84	65	93	70	78	61	63	33	75	53	64	33	41	27
23	34	15	20	13	27	-4	57	35	72	52	79	56	94	62	75	54	71	45	69	50	49	29	36	20
24	36	21	19	3	36	-6	63	33	74	49	79	51	91	65	77	52	72	45	72	52	44	21	20	15
25	42	27	32	7	54	25	84	47	77	57	80	53	95	71	87	60	80	50	64	51	37	17	30	8
26	38	32	44	23	57	33	75	59	70	57	84	56	100	69	90	66	88	51	71	43	46	37	35	17
27	30	24	51	31	72	33	85	58	73	53	86	57	95	66	71	56	74	56	69	53	45	22	32	25
28	40	29	43	32	68	35	69	56	91	69	88	61	95	65	71	50	60	44	70	56	27	20	39	20
29	43	24			58	46	67	51	82	65	98	67	85	57	69	52	78	37	67	55	23	20	32	22
30	52	32			68	34	72	41	85	60	89	63	88	51	80	50	58	34	62	46	26	23	34	20
31	20	9			74	44			72	50			85	59	61	50			62	49			31	24
AV.	24	10	36	19	51	27	64	41	72	52	84	60	94	67	78	58	72	47	66	44	47	30	33	19
MEAN	17.2		27.5		39.4		52.5		62.4		71.8		80.5		68.0		59.6		55.4		38.7		25.9	
STA AV	28	11	34	16	47	25	61	38	73	51	82	60	87	65	82	61	74	52	64	42	46	28	32	18

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV based on 10 yr record period.

1974 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 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	0.38	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	0.0	
2	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.20	0.04	0.21	0.17	0.0	0.0	0.0	0.28	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	
4	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	5	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	
6	0.02	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.74	0.0	0.18	6	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74	0.0	0.18	
7	0.0	0.0	0.0	0.0	0.14	0.01	0.0	0.0	0.0	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.14	0.01	0.0	0.0	0.0	0.0	0.0	
8	0.04	0.0	0.03	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	8	0.04	0.0	0.03	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.79	0.0	0.0	0.80	0.0	9	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.79	0.0	0.0	0.80	
10	0.04	0.0	0.0	0.0	0.76	0.0	0.14	0.31	0.0	0.0	0.04	0.0	10	0.04	0.0	0.0	0.0	0.76	0.0	0.14	0.31	0.0	0.0	0.04	
11	0.0	0.0	0.27	0.64	0.01	0.09	0.0	0.0	0.02	0.05	0.0	0.0	11	0.0	0.0	0.27	0.64	0.01	0.09	0.0	0.02	0.05	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.01	0.69	0.0	0.0	1.79	0.0	0.04	0.0	0.0	13	0.0	0.0	0.0	0.01	0.69	0.0	0.0	1.79	0.0	0.04	0.0	
14	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.28	14	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.02	0.0	0.0	0.28	
15	0.0	0.0	0.13	0.39	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.09	15	0.0	0.0	0.13	0.39	0.0	0.0	0.0	0.20	0.0	0.0	0.09	
16	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.93	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.93	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.96	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.96	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.02	18	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.02	
19	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	0.0	0.0	0.12	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.12	0.0	0.0	0.10	0.0	0.0	0.10	0.0	0.0	0.0	0.0	21	0.0	0.12	0.0	0.0	0.10	0.0	0.0	0.10	0.0	0.0	0.0	
22	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	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	25	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	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	0.0	0.09	26	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.09	
27	0.0	0.0	0.0	0.35	0.26	0.0	0.04	0.36	0.0	0.0	0.0	0.0	27	0.0	0.0	0.0	0.35	0.26	0.0	0.04	0.36	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	28	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.26	0.0	0.0	
29	0.0	0.0	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	29	0.0	0.0	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.06	0.0	
30	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.85	0.0	1.44	0.06	0.0	30	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.85	0.0	1.44	0.06	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.04	0.05	0.05	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0	0.02	0.04	0.05	0.05	0.0	0.0	
TOTAL	0.34	0.12	0.98	2.63	3.71	0.93	0.37	6.73	1.43	2.82	1.24	0.66	TOTAL	0.34	0.12	0.98	2.63	3.71	0.93	0.37	6.73	1.43	2.82	1.24	0.66
STA AV	0.56	0.55	1.24	3.23	4.82	5.18	3.48	3.24	4.45	3.11	1.34	0.95	STA AV	0.56	0.55	1.24	3.23	4.82	5.18	3.48	3.24	4.45	3.11	1.34	0.95

NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after November 5; Thiessen weighted average values from rain gages 112, 113 and 114 for remainder of year. STA AV based on 11 yr record period.

1974 MEAN DAILY DISCHARGE (cfs)													TREYNOR, IOWA WATERSHED 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	0.058	0.131	0.163	0.147	0.147	0.171	0.128	0.085	0.069	0.055	0.064	0.064	1	0.058	0.131	0.163	0.147	0.147	0.171	0.128	0.085	0.069	0.055	0.064	0.064
2	0.116	0.132	0.163	0.147	0.147	0.171	0.126	0.079	0.069	0.055	0.064	0.059	2	0.116	0.132	0.163	0.147	0.147	0.171	0.126	0.079	0.069	0.055	0.064	0.059
3	0.111	0.132	0.163	0.148	0.155	0.172	0.131	0.078	0.059	0.055	0.065	0.055	3	0.111	0.132	0.163	0.148	0.155	0.172	0.131	0.078	0.059	0.055	0.065	0.055
4	0.105	0.132	0.163	0.147	0.156	0.163	0.126	0.077	0.060	0.055	0.064	0.062	4	0.105	0.132	0.163	0.147	0.156	0.163	0.126	0.077	0.060	0.055	0.064	0.062
5	0.099	0.132	0.163	0.147	0.156	0.163	0.125	0.074	0.061	0.057	0.063	0.064	5	0.099	0.132	0.163	0.147	0.156	0.163	0.125	0.074	0.061	0.057	0.063	0.064
6	0.094	0.131	0.163	0.147	0.156	0.172	0.124	0.079	0.063	0.070	0.064	0.063	6	0.094	0.131	0.163	0.147	0.156	0.172	0.124	0.079	0.063	0.070	0.064	0.063
7	0.094	0.132	0.163	0.147	0.158	0.169	0.124	0.079	0.061	0.058	0.064	0.061	7	0.094	0.132	0.163	0.147	0.158	0.169	0.124	0.079	0.061	0.058	0.064	0.061
8	0.094	0.132	0.163	0.139	0.163	0.167	0.116	0.079	0.063	0.055	0.063	0.055	8	0.094	0.132	0.163	0.139	0.163	0.167	0.116	0.079	0.063	0.055	0.063	0.055
9	0.099	0.132	0.163	0.131	0.154	0.165	0.111	0.090	0.0	0.055	0.074	0.055	9	0.099	0.132	0.163	0.131	0.154	0.165	0.111	0.090	0.0	0.055	0.074	0.055
10	0.104	0.132	0.163	0.140	0.169	0.163	0.119	0.080	0.141	0.055	0.063	0.055	10	0.104	0.132	0.163	0.140	0.169	0.163	0.119	0.080	0.141	0.055	0.063	0.055
11	0.105	0.135	0.163	0.164	0.155	0.164	0.113	0.079	0.063	0.059	0.064	0.059	11	0.105	0.135	0.163	0.164	0.155	0.164	0.113	0.079	0.063	0.059	0.064	0.059
12	0.105	0.139	0.147	0.163	0.154	0.163	0.111	0.075	0.077	0.064	0.064	0.063	12	0.105	0.139	0.147	0.163	0.154	0.163	0.111	0.075	0.077	0.064	0.064	0.063
13	0.105	0.147	0.147	0.153	0.165	0.163	0.111	0.097	0.063	0.063	0.063	0.064	13	0.105	0.147	0.147	0.153	0.165	0.163	0.111	0.097	0.063	0.063	0.063	0.064
14	0.105	0.147	0.147	0.154	0.150	0.156	0.106	0.070	0.061	0.064	0.064	0.064	14	0.105	0.147	0.147	0.154	0.150	0.156	0.106	0.070	0.061	0.064	0.064	0.064
15	0.110	0.147	0.154	0.160	0.147	0.155	0.100	0.072	0.060	0.064	0.063	0.063	15	0.110	0.147	0.154	0.160	0.147	0.155	0.100	0.072	0.060	0.064	0.063	0.063
16	0.124	0.147	0.147	0.156	0.147	0.156	0.100	0.081	0.061	0.063	0.064	0.059	16	0.124	0.147	0.147	0.156	0.147	0.156	0.100	0.081	0.061	0.063	0.064	0.059
17	0.132	0.147	0.147	0.156	0.147	0.158	0.100	0.090	0.060	0.064	0.064	0.055	17	0.132	0.147	0.147	0.156	0.147	0.158	0.100	0.090	0.060	0.064	0.064	0.055
18	0.131	0.147	0.147	0.160	0.205	0.156	0.099	0.075	0.061	0.063	0.063	0.055	18	0.131	0.147	0.147	0.160	0.205	0.156	0.099	0.075	0.061	0.063	0.063	0.055
19	0.132	0.147	0.155	0.160	0.284	0.155	0.099	0.070	0.060</																

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
1974 P	0.29	0.14	0.96	2.39	3.54	0.89	0.42	6.50	1.37	2.74	1.23	0.69	21.16
1974 Q	0.786	0.830	0.916	0.731	0.922	0.695	0.566	0.577	0.429	0.419	0.400	0.385	7.654
STA AV P	0.54	0.54	1.23	3.21	4.79	5.26	3.52	3.23	4.68	3.20	1.31	0.93	32.44
STA AV Q	0.503	0.516	0.674	0.579	0.965	1.061	0.832	0.557	0.622	0.594	0.538	0.530	7.972

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
		Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days						
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1974	5-19	0.067	5-19	0.039	5-19	0.063	5-19	0.104	5-19	0.117	5-19	0.135	5-18	0.176	5-18	0.349

MAXIMUMS FOR PERIOD OF RECORD																
	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
	6-7	0.607	6-7	0.179	5-10	0.289	5-5	0.563	5-5	0.676	5-5	1.036	5-5	1.316	5-5	1.743
	1972		1972		1971		1972		1972		1972		1972		1972	

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 November 5; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 27, 1964. January 1 to February 27, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For 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.

1974	DAILY PRECIPITATION (inches)												TREYNOR, IOWA WATERSHED 4
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.42	0.0	0.0	0.0	
2	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	
3	0.0	0.01	0.0	0.15	0.04	0.16	0.18	0.0	0.0	0.0	0.29	0.0	
4	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	
6	0.01	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.80	0.0	0.20	
7	0.0	0.0	0.0	0.0	0.14	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.04	0.0	0.02	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.89	0.0	0.0	0.80	0.0	
10	0.04	0.0	0.0	0.0	0.75	0.0	0.16	0.29	0.0	0.0	0.04	0.0	
11	0.0	0.0	0.26	0.54	0.02	0.09	0.0	0.0	0.02	0.05	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.01	0.50	0.0	0.0	1.78	0.0	0.04	0.0	0.0	
14	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.24	
15	0.0	0.0	0.14	0.39	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.11	
16	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.91	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.89	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
19	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.11	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.13	0.0	0.0	0.08	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.13	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	0.02	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	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.11	
27	0.0	0.0	0.0	0.34	0.26	0.0	0.04	0.30	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	
29	0.0	0.0	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	
30	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.83	0.0	1.29	0.05	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.04	0.03	0.03	0.04	0.04	0.0	0.0	
TOTAL	0.29	0.14	0.96	2.39	3.54	0.89	0.42	6.50	1.37	2.74	1.23	0.69	
STA AV	0.54	0.54	1.23	3.21	4.79	5.26	3.52	3.23	4.68	3.20	1.31	0.93	

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through November 5, and from 113 for remainder of year. STA AV based on 11 yr record period.

1974		MEAN DAILY DISCHARGE (cfs)					TREYHOR, IOWA WATERSHED 4					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.082	0.197	0.197	0.163	0.154	0.164	0.132	0.117	0.115	0.076	0.083	0.083
2	0.163	0.197	0.197	0.164	0.153	0.164	0.124	0.113	0.107	0.072	0.083	0.083
3	0.163	0.197	0.197	0.163	0.147	0.175	0.129	0.110	0.100	0.072	0.084	0.077
4	0.163	0.197	0.197	0.163	0.146	0.163	0.126	0.104	0.093	0.072	0.083	0.072
5	0.163	0.187	0.197	0.155	0.147	0.159	0.125	0.105	0.094	0.081	0.083	0.072
6	0.164	0.179	0.197	0.147	0.147	0.163	0.125	0.105	0.094	0.112	0.083	0.082
7	0.163	0.178	0.197	0.146	0.147	0.150	0.123	0.104	0.094	0.083	0.083	0.077
8	0.163	0.178	0.197	0.147	0.146	0.161	0.117	0.105	0.094	0.083	0.083	0.080
9	0.163	0.171	0.197	0.147	0.147	0.168	0.116	0.113	0.086	0.083	0.095	0.083
10	0.163	0.163	0.197	0.147	0.156	0.149	0.128	0.107	0.084	0.083	0.094	0.078
11	0.164	0.171	0.199	0.162	0.151	0.148	0.120	0.100	0.083	0.083	0.088	0.073
12	0.163	0.219	0.197	0.148	0.147	0.147	0.117	0.101	0.115	0.083	0.083	0.072
13	0.163	0.188	0.197	0.147	0.168	0.146	0.117	0.141	0.094	0.083	0.083	0.072
14	0.155	0.178	0.197	0.149	0.151	0.147	0.116	0.105	0.093	0.083	0.083	0.072
15	0.147	0.178	0.197	0.164	0.147	0.137	0.117	0.107	0.094	0.083	0.083	0.078
16	0.147	0.181	0.197	0.158	0.147	0.147	0.112	0.162	0.094	0.083	0.083	0.080
17	0.146	0.216	0.197	0.154	0.141	0.147	0.112	0.332	0.090	0.083	0.083	0.072
18	0.147	0.188	0.188	0.147	0.254	0.142	0.111	0.110	0.089	0.083	0.083	0.072
19	0.147	0.178	0.178	0.146	0.824	0.141	0.110	0.105	0.083	0.083	0.083	0.072
20	0.147	0.178	0.178	0.152	0.216	0.140	0.111	0.101	0.083	0.083	0.083	0.079
21	0.147	0.187	0.178	0.151	0.197	0.139	0.110	0.104	0.083	0.083	0.083	0.073
22	0.146	0.197	0.178	0.146	0.187	0.132	0.105	0.101	0.083	0.083	0.083	0.079
23	0.147	0.188	0.179	0.147	0.178	0.132	0.104	0.101	0.083	0.083	0.083	0.081
24	0.147	0.178	0.178	0.147	0.178	0.131	0.101	0.100	0.083	0.083	0.083	0.083
25	0.166	0.178	0.178	0.147	0.179	0.132	0.110	0.098	0.083	0.083	0.083	0.083
26	0.163	0.183	0.171	0.147	0.181	0.132	0.112	0.094	0.083	0.083	0.083	0.083
27	0.163	0.202	0.163	0.151	0.179	0.132	0.112	0.097	0.083	0.083	0.083	0.083
28	0.163	0.197	0.164	0.181	0.175	0.132	0.111	0.093	0.079	0.084	0.083	0.083
29	0.183		0.163	0.163	0.174	0.131	0.108	0.094	0.079	0.078	0.083	0.083
30	0.239		0.163	0.156	0.178	0.132	0.104	0.205	0.081	0.151	0.083	0.083
31	0.209		0.163		0.167		0.105	0.104		0.091		0.081
MEAN	0.1597	0.1868	0.1861	0.1535	0.1874	0.1460	0.1150	0.1173	0.0900	0.0851	0.0841	0.0783
INCRS	0.786	0.830	0.916	0.731	0.922	0.695	0.566	0.577	0.429	0.419	0.400	0.385
STA AV	0.503	0.516	0.674	0.579	0.965	1.061	0.832	0.557	0.622	0.594	0.538	0.530

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.15868. STA AV based on 11 yr record period.

