

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division

FLOODS FROM SMALL DRAINAGE AREAS IN CALIFORNIA

A Compilation of Peak Data

October 1958 to September 1971

By

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In cooperation with
California Department of Water Resources
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FLOODS FROM SMALL DRAINAGE AREAS IN CALIFORNIA

A Compilation of Peak Data

October 1958 to September 1971

By Arvi O. Waananen

INTRODUCTION

Knowledge of the magnitude and probable frequency of floods is necessary to the economic design and optimum location of a variety of structures and facilities, including dams, bridges, levees, culverts, and highways. Studies of flood frequency in California, based on analyses of available streamflow records, have provided information generally applicable for streams with drainage areas greater than 10 square miles. The results are published in U.S. Geological Survey Water-Supply Papers 1684, 1685, and 1686, each entitled "Magnitude and Frequency of Floods in the United States." Data for the Great Basin (Part 10) are in Water-Supply Paper 1684. Data for the Pacific Slope Basins in California (Part 11) are presented in two parts; coastal basins south of the Klamath River basin and Central Valley drainage from the west are reported in Water-Supply Paper 1685 and those for the Klamath and Smith River basins and Central Valley drainage from the east are reported in Water-Supply Paper 1686. Few hydrologic data have been available for small streams, however, and determination of flood frequency for these small basins, particularly for use in the design of drainage structures for highways, has not been practical.

As a part of the cooperative agreement between the California Department of Water Resources and the U.S. Geological Survey, an investigation of the magnitude and frequency of floods from drainage areas generally of less than about 10 square miles was begun by the Geological Survey July 1, 1958. The ultimate objective of the program is to obtain sufficient basic hydrologic data, including flood-hydrograph data for detailed study, to define the magnitude and frequency of floods on a regional basis at sites on small streams.

To accelerate the program in the northern forested areas of the State, the U.S. Forest Service also has provided funds regularly since the 1961 fiscal year. The Forest Service support was increased in 1969, and 16 additional stations were established in Lassen and Mendocino National Forests.

Since July 1970 the California Division of Highways has provided the State cooperative funds for this program; previously it had provided a part of the funds, supplementing those provided by the Department of Water Resources.

The program is being operated under the general supervision of R. Stanley Lord, district chief, and under the direct supervision of Arvi O. Waananen, Water Resources Division, district office, Menlo Park, Calif. It is administered through the hydrologists in charge of the subdistrict offices at Garden Grove, Menlo Park, and Sacramento, Calif., and the chief of the Nevada district, Water Resources Division, Carson City, Nev.

This is the 13th progress report in an annual series designed to inform the cooperators and other interested parties of the status of the program. The reports consist mainly of a tabulation of the annual peak stage and discharge, by water years, for each gaging station in the program. The water year is the 12-month period ending September 30 of the specified year. The discharge hydrograph and recorded graph of accumulated rainfall for significant peak discharges during the current year are included for stations that are equipped with water-stage recorders. Monthly and annual rainfall totals are given for the recording stations. Program activities during the current year and program plans for the following year are summarized briefly. The 10th progress report, for the 10-year period through September 30, 1968, in addition to the summary of annual peak discharge, included discharge hydrographs, precipitation graphs, and monthly and annual precipitation data for the full period of record to September 1968.

At the close of a 15-year period of investigation the findings will be summarized in a report that will present a tabulation of the data collected at all sites, a summary of selected basin characteristics at these sites, and an analysis of the flood magnitude and frequency. A general study of rainfall-runoff relations may be included.

Discharge data for small drainage areas are available at sites other than those included in the present program for investigating floods from small drainage areas. Gaging stations operated by the Geological Survey on streams having less than about 20 square miles of drainage area are listed in table 1 in the section on supplemental information at the end of the report.

Peak data for small streams in adjacent areas in Arizona, Nevada, and Oregon are provided by the annual open-file reports on floods from small drainage areas in Arizona, flood investigations in Nevada, and crest-stage gaging stations in Oregon, and the annual basic-data reports for these States prepared by the Water Resources Division district offices at Tucson, Ariz., Carson City, Nev., and Portland, Oreg.

GENERAL OUTLINE OF PROGRAM

The State has been divided into 22 approximately homogeneous hydrologic regions, as shown in figure 33. The regional divides were delineated on the basis of maps of regional precipitation intensity and of soil types in the State. Some of these regional divides may need to be changed when the flood data are analyzed. Such changes would be consistent with part of the objective of the program; namely, the definition of the magnitude and frequency of floods on a regional basis.

Gages obviously cannot be installed on all the myriad small streams throughout the State. The program, therefore, is confined to the sampling of a limited number of the small streams; the results of the sampling, correlated with basin characteristics, would be considered representative of a region. In this way, regionalized flood-magnitude and flood-frequency data will be developed for the entire State.

In addition to the computation and tabulation of annual peaks, the program includes the continuing determination and tabulation of the many parameters that may affect the flood magnitude. Some of the parameters to be investigated for their effect on the flood peaks are (1) drainage area, (2) elevation of basin, (3) length of basin, (4) slope of basin, (5) vegetal cover, (6) geology of basin, (7) shape of basin, and (8) area of lakes and ponds.

Gages were installed in three or four of the regions each year for the first 6 years of the investigation. By the end of the 6-year period more than 300 gaging stations had been established; they were all equipped with crest-stage gages. In addition, continuous water-stage and precipitation-recording gages had been installed at about 30 of the stations. The recording equipment is not installed permanently, but is operated at a given site for a period long enough (approximately 3 years) to establish the rainfall-runoff relation. The equipment is then transferred to another site. In this way, discharge hydrographs and rainfall records will be obtained at a maximum number of locations with a minimum quantity of equipment. The length of actual period of recording-gage operation at any one site will vary, in inverse proportion to the number of storms occurring during a year. The crest-stage gages will be retained as the permanent gages at each site.

DETAILS OF PROGRAM OPERATION

Selection of Gaging-Station Sites

Because runoff from small drainage areas is rapid, methods other than current-meter discharge measurements must be used to establish a stage-discharge relation. The highway culvert is a convenient control structure for use in determining peak discharges. A typical installation is shown on the cover of this report. Given the geometry of a culvert, the shape of the natural channel near the culvert, and the water-surface profile upstream and downstream from the culvert at the time of a peak flow, the peak discharge can be computed. The water-surface profile is obtained from high-water marks left on the crest-stage gage, supplemented whenever possible by nearby high-water marks left by the peak flow. Most of the gaging stations have been located at highway culverts because of the need for a control structure.

Because highway culverts are not always available or adequate, other methods may be used to determine the peak discharge, including:

1. The slope-area method, which utilizes a uniform-flow equation involving channel characteristics, water-surface profiles, and a roughness, or retardation, coefficient. The Geological Survey uses the Manning formula in the slope-area method because of its simplicity of application to open-channel flow and the dependability of results obtained.
2. The computation of flow over dams or embankments, utilizing the standard weir formula. A dam or embankment forms a control section at which the peak discharge is related to the water-surface elevation upstream. The data required for this computation are provided by a field survey of the high-water profile, the approach section characteristics, and the geometry of the control section.

During the reconnaissance for locating gaging stations in any one hydrologic region, it was necessary to consider many sites before the final selection was made. Some of the more important considerations were (1) adequate areal distribution, (2) adequate sampling of drainage areas of various sizes, (3) adequate sampling of drainage areas at various elevations, and (4) adequate control section for use in determining peak discharges. The final selection of gaging sites was made after consideration of all these and other minor factors.

Equipment and Instrumentation

The crest-stage gage is a rather simple device used to record flood crests at each of the gaging stations. It consists of a vertically mounted length of 2-inch pipe containing a wooden rod and a small quantity of granulated cork. The pipe is closed at both ends, except for some small intake holes at the bottom and a small vent hole at the top. As the water rises in the stream and covers the intake holes in the bottom of the pipe, it also rises inside the pipe. The granulated cork floats on the water surface inside the pipe and, as the water recedes, leaves a cork line on the wooden rod at the peak stage. The wooden rod can be removed from the 2-inch pipe at any time after the peak has occurred and the elevation of the peak, referred to local datum, can be determined.

As two or more peak flows may occur between visits to a gaging station, a higher peak may wash off the cork lines left by one or more previously recorded lower peaks. As a result, crest stages for all the peaks at a particular site will not be available. However, the highest annual peaks, which are the data to be used in the magnitude and frequency analyses, will be recorded.

The recording gages being operated at many of the sites provide a continuous record of the water stage and precipitation. After the stage-discharge relation has been developed for a site, the discharge for any period can be determined from the record of water stage and the stage-discharge relation. The water-stage record is usually provided by a Stevens Model A-35 continuous or a digital water-stage recorder.

The rainfall record at many stations is provided by a tipping-bucket rain gage developed by the Geological Survey which measures rainfall to the nearest 0.1 inch and registers it on the water-stage recorder chart. This type of rain gage affords a reasonably accurate determination of the time interval between precipitation in the vicinity of the gaging station and runoff. In areas where the air temperature is frequently below freezing, occasional loss of rainfall records has occurred at tipping-bucket installations. A float-operated rain gage also has been developed for use in conjunction with the water-stage recorders; this type of gage has been installed at several stations.

Inexpensive float-operated recording gages for stage and rainfall (type S-R), or stage only, had been developed for use in areas where infrequent runoff is expected. These record flood hydrographs, and rainfall, as appropriate, on circular mylar charts that make one revolution each 24 hours, and were designed for installation on standard 2- or 3-inch pipe wells.

These latter recorders were expected to be adaptable to present crest-stage gage sites in arid regions. The installations are economical, and recorders have been used at selected locations to supplement and extend the recording-gage network in the program. Experience has been disappointing, however, owing to problems of clock operation and of identification and interpretation of the recorder traces on the charts. As a result, most of the hydrographs published in the progress reports have been obtained from recording stations equipped with standard recorders.

Program Activities, October 1, 1970, to September 30, 1971

The 1971 water year was marked by moderate floods in small basins in south-coastal California in November and December 1970, but of record magnitude in some basins, and in northern and north-coastal California in January 1971, and by scattered and sometimes severe floods in the desert regions of southern California in August 1971. Elsewhere floodflows and runoff were generally low.

During 1971 the crest-stage gage program was almost fully restored from the reduced program operated in 1970. About 30 of the crest-stage gage stations were equipped with water-stage and rainfall recorders; three of the recording stations were relocated at the end of the year.

Annual peak discharges were computed for those stations where runoff occurred and sufficient field data were available. Annual peak discharges have been estimated for sites where the flows were too small or the data too incomplete to permit computation. All computed or estimated peak discharges, peak stages, and dates of occurrence are listed in the compilations of annual maximum data for the individual gaging stations in this report. Discharge figures for the 1971 water year are preliminary and subject to revision.

The gaging stations were inspected regularly to assure that the gages were operating properly and to record the peak stages indicated by the crest-stage gages. When peak stages of appreciable magnitude occurred at particular sites, additional field data were collected to facilitate computation of the peak discharge. The stage and corresponding discharge provide a point for defining the stage-discharge relation curve. Special visits were made to many of the sites for collection of this type of significant data. Also, during storm periods when flow was expected, special trips were made to obtain current-meter measurements that would better define the stage-discharge relation.

Program Plans, October 1, 1971, to September 30, 1972

Routine inspections will be made at all gaging stations to collect pertinent field data essential to definition of the stage-discharge relations and determination of the annual peak discharges. Special visits will be made when deemed necessary. Owing to the rapid runoff characteristics of small drainage areas, indirect methods will be used extensively for determining peak discharges. A digital computer program developed by the Geological Survey facilitates computation of peak discharges at culverts. This program includes the various types of culvert-flow computations necessary for the determination of the stage-discharge relation at a site. Theoretical ratings have been computed for many stations, and additional computations will be made as required.

At most of the recording stations data on daily discharge, as well as the annual peak stage and discharge, will be determined for publication in the basic-data report, "Water Resources Data for California--Part 1. Surface Water Records."

Pilot studies in the Sierra Nevada areas and preliminary statewide studies of regional flood frequency, using data available through 1970, will be made to appraise the findings to date, and for guidance in the preparation of the report on the 15-year program.

PRESENTATION OF DATA

The gaging-station records presented in this report include descriptive information about the station, such as name, location, drainage area, period for which records are available and type of gage, and a list of the annual maximum gage heights and discharges (when available) for the period of record.

The omission of peak-discharge data for a particular station does not necessarily mean that the peak discharge will never be known. In some instances, the determination of the peak flow may have been delayed because of the need for additional data. However, the letter "d" indicates that a reasonable figure for the peak discharge probably will never be available.

Gage heights are referred to arbitrary, local datums, and usually are not referenced to mean sea level. Information concerning the recovery of these datums in the field, as well as all other supporting material for data given in this report, is on file in the district office of the Geological Survey, Water Resources Division, 855 Oak Grove Ave., Menlo Park, Calif. All discharge data collected subsequent to the end of the current report year also are available in the files of the Geological Survey.

Daily, monthly, and annual mean discharges for many of the continuous-recording stations are published in volumes 1 and 2 of the basic-data report, "Water Resources Data for California--Part 1. Surface Water Records." Volume 1 includes data for the Colorado River basin, Southern Great Basin, and Pacific slope basins, excluding the Central Valley; volume 2 includes data for the Northern Great Basin and the Central Valley.

Monthly and annual rainfall totals are listed for each of the recording stations. The report includes discharge hydrographs and graphs of accumulated rainfall recorded at those recording stations that had significant flows in the 1971 water year. The continuous gage-height and precipitation records for the entire year are available in the files of the Geological Survey. Discharge hydrographs, graphs of accumulated rainfall, and monthly and annual rainfall data for prior years, as published in the progress reports for those years, were included in the reports for 1968, 1969, and 1970.

The location of all gaging stations and the tentative boundaries of the hydrologic regions are shown in figure 33. Appropriate symbols indicate whether the station is equipped with crest-stage gages only or has continuous-recording equipment also. Stations where continuous-recording equipment has been operated in the past are also indicated by symbol. For identification purposes, the stations are identified by site numbers that are given in the station description, as well as in figure 33. Station numbers, assigned as part of the national numbering system, are shown in the individual station description for convenience in relating the station to the gaging-station network in the State.

Numerous adjustments of figures of drainage areas are shown in this report for 1971 for updating and conformation with adjusted values determined in accordance with a statewide coordination of drainage areas for streams and gaging stations.

HYDROLOGIC REGION I

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-4688.8.	Painter Creek near Redway, Calif.						
3	Lat 40°04'04", long 123°57'37", in SW $\frac{1}{4}$ sec. 33, T. 4 S., R. 2 E., at culvert on Shelter Cove road, 8.0 miles southwest of Redway.	0.64	Sept. 1961-	Crest-stage gage, Sept. 8, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	February 1962 Jan. 31, 1963 Jan. 20, 1964 Dec. 22, 1964 Jan. 4, 1966 Dec. 4, 1966 Jan. 9, 1968 Jan. 12, 1969 Jan. 23, 1970 Jan. 16, 1971	52.09 52.42 53.52 56.20 54.86 53.18 52.44 53.18 53.63 54.46	87 110 166 356 275 150 108 153 187 247
	11-4695.7.	Oil Creek near Ferndale, Calif.						
4	Lat 40°30'52", long 124°17'12", in SW $\frac{1}{4}$ sec. 34, T. 2 N., R. 2 W., at culvert on Mattole road, 5.0 miles south of Ferndale.	.13	Sept. 1961-	Crest-stage gage, Sept. 7, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 13, 1962 April 1963 Jan. 20, 1964 Dec. 22, 1964 Jan. 4, 1966 Dec. 4, 1966 Jan. 14, 1968 Jan. 12, 1969 Jan. 26, 1970 Mar. 25, 1971	51.19 52.11 52.11 53.55 53.53 51.11 51.38 51.76 49.75 49.72	3.4 10 10 25 25 5.6 8.6 12 9.0 8.6
	11-4788.	South Fork Yager Creek near Bridgeville, Calif.						
5	Lat 40°32'52", Long 123°49'27", in SE $\frac{1}{4}$ sec. 15, T. 2 N., R. 3 E., at culvert on Bridgeville-Kneeland road, 5.6 miles north of Bridgeville.	.53	Aug. 1961-	Crest-stage gage, Aug. 31, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 13, 1962 Oct. 12, 1962 Jan. 20, 1964 Dec. 22, 1964 Jan. 4, 1966 Dec. 4, 1966 Jan. 14, 1968 Jan. 20, 1969 Jan. 23, 1970 Jan. 16, 1971	52.12 53.55 53.93 56.56 53.98 53.80 52.85 54.28 54.25 53.60	49 106 123 236 126 96 57 112 111 86
	11-4807.	Maple Creek near Blue Lake, Calif.						
6	Lat 40°46'53", long 123°52'38", in SE $\frac{1}{4}$ sec. 30, T. 5 N., R. 3 E., at bridge on Kneeland-Korbel road, 6.3 miles east of Kneeland, and 9.2 miles southeast of town of Blue Lake.	12.1	Aug. 1961-	Crest-stage gage, Aug. 31, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	December 1961 Dec. 2, 1962 Jan. 20, 1964 Dec. 22, 1964 Jan. 4, 1966 Dec. 4, 1966 Dec. 4, 1967 Jan. 20, 1969 Jan. 23, 1970 Jan. 16, 1971	45.38 45.09 45.52 47.05 45.38 45.06 (r) 44.92 43.25 42.92	1,750 1,550 1,850 3,100 1,750 1,580 (d) 1,440 620 500

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-4813.			Big Lagoon Tributary near Trinidad, Calif.				
7	Lat 41°09'25", long 124°07'30", in NW $\frac{1}{4}$ sec. 24, T. 9 N., R. 1 W., at culvert on U.S. Highway 101, 6.7 miles north of Trinidad.	0.10	Sept. 1961-	Crest-stage gage, Sept. 6, 1961-	1962	February 1962	50.32	0.3
					1963	Jan. 31, 1963	50.65	2.4
					1964	Nov. 9, 1963		1
					1965	Dec. 22, 1964	50.77	b3.0
					1966	Jan. 4, 1966	50.80	3.0
					1967	Jan. 29, 1967	50.59	2.0
					1968	Dec. 4, 1967	50.82	3.7
					1969	Jan. 19, 1969	50.52	1.5
					1970	Dec. 12, 1969	50.74	3.0
					1971	Jan. 16, 1971	50.89	4.3
	11-4824.			Prairie Creek tributary near Klamath, Calif.				
8	Lat 41°24'50", long 124°01'50", in NW $\frac{1}{4}$ sec. 23, T. 12 N., R. 1 E., at culvert on U.S. Highway 101, 3.5 miles north of Elk Grove, and 7.7 miles south of Klamath.	.40	Sept. 1961-	Crest-stage gage, Sept. 6, 1961-	1962	December 1961	50.92	14
					1963	Dec. 2, 1962	51.31	26
					1964	Jan. 20, 1964	51.94	50
					1965	Dec. 22, 1964	51.63	40
					1966	Jan. 4, 1966	51.75	43
					1967	Jan. 29, 1967	51.23	24
					1968	Jan. 15, 1968	50.93	14
					1969	Jan. 19, 1969	53.11	90
					1970	Dec. 12, 1969	50.71	8.6
					1971	Jan. 16, 1971	51.71	41
	11-5229.			Wilson Creek near Orleans, Calif.				
9	Lat 41°20'15", long 123°31'05", in NW $\frac{1}{4}$ sec. 20, T. 11 N., R. 6 E., at culvert on Ishi Pishi road, Six Rivers National Forest, 2.7 miles northeast of Orleans.	1.93	Aug. 1961-	Crest-stage gage, Aug. 31, 1961-	1962	December 1961	52.36	(c)
					1963	Dec. 3, 1962	52.67	(c)
					1964	Jan. 20, 1964	53.25	84
					1965	Dec. 22, 1964		(d) 6,500
					1966	Jan. 4, 1966	53.27	80
					1967	Jan. 29, 1967	53.67	96
					1968	Feb. 23, 1968	52.50	47
					1969	Jan. 19, 1969	54.17	118
					1970	Dec. 21, 1969	54.98	157
					1971	Jan. 16, 1971	52.11	32
	11-5230.6.			Aikens Creek tributary near Weitchpec, Calif.				
10	Lat 41°13'46", long 123°40'10", in NW $\frac{1}{4}$ sec. 25, T. 10 N., R. 4 E., at culvert on Bluff Creek road, Six Rivers National Forest, 3.5 miles northeast of Weitchpec.	.90	Aug. 1961-	Crest-stage gage, Aug. 31, 1961-	1962	Jan. 2, 1962	52.24	36
					1963	Dec. 2, 1962	52.26	36
					1964	Jan. 20, 1964	52.53	(c)
					1965	Dec. 22, 1964	54.03	142
					1966	Jan. 4, 1966	52.31	39
					1967	Jan. 29, 1967		(d)
					1968	Feb. 23, 1968		(r) b10
					1969	Jan. 19, 1969	53.17	88
					1970	(m)	(m)	(m)
					1971	Jan. 16, 1971	53.20	90

See footnotes at end of table.

HYDROLOGIC REGION 1

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																											
					Water year	Date	Gage height (ft)	Discharge (cfs)																																								
11-5299.5. Campbell Creek near Hoopa, Calif.																																																
11	Lat 41°01'16", long 123°38'54", in NE¼ sec. 6, T. 7 N., R. 5 E., at culvert on Orleans road, 2.4 miles southeast of Hoopa.	6.90	Aug. 1961-	Crest-stage gage, Aug. 31, 1961-	1962	Dec. 20, 1961	56.45	565																																								
					1963	Feb. 2, 1963	58.00	790																																								
					1964	Jan. 20, 1964	57.33	690																																								
					1965	Dec. 22, 1964	78.35	2,420																																								
					1966	Jan. 4, 1966	57.30	580																																								
					1967	Jan. 29, 1967	54.25	258																																								
					1968	Jan. 14, 1968	54.82	310																																								
					1969	Jan. 19, 1969	56.53	490																																								
					1970	Jan. 23, 1970	62.44	1,100																																								
					1971	Jan. 16, 1971	54.80	305																																								
11-5301.5. Mareep Creek near Weitchpec, Calif.																																																
12	Lat 41°16'22", long 123°47'20", in Hoopa Valley Indian Reservation, at culvert on Weitchpec-Johnsons road 7.3 miles northwest of Weitchpec.	3.56	Aug. 1961-	Crest-stage gage, Aug. 31, 1961-	1962	Jan. 2, 1962	53.78	157																																								
					1963	Dec. 2, 1962	54.24	191																																								
					1964	Jan. 20, 1964	54.24	191																																								
					1965	Dec. 22, 1964	58.64	890																																								
				Water-stage recorder, Sept. 1, 1966-	1966	Jan. 4, 1966	54.21	212																																								
					1967	Jan. 29, 1967	53.37	130																																								
					1968	Feb. 22, 1968	(m)	94																																								
					1969	Jan. 12, 1969	53.84	130																																								
					1970	Jan. 26, 1970	54.32	198																																								
					1971	Jan. 17, 1971	(m)	196																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>5.39</td> <td>January</td> <td>13.65</td> <td>April</td> <td>1.93</td> <td>July</td> <td>0.02</td> </tr> <tr> <td>November</td> <td>23.31</td> <td>February</td> <td>6.51</td> <td>May</td> <td>0</td> <td>August</td> <td>.60</td> </tr> <tr> <td>December</td> <td>7.86</td> <td>March</td> <td>16.21</td> <td>June</td> <td>.40</td> <td>September</td> <td>4.87</td> </tr> <tr> <td colspan="8">Total for water year, October 1, 1970-September 30, 1971 80.75</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches								October	5.39	January	13.65	April	1.93	July	0.02	November	23.31	February	6.51	May	0	August	.60	December	7.86	March	16.21	June	.40	September	4.87	Total for water year, October 1, 1970-September 30, 1971 80.75							
Monthly and annual precipitation, in inches																																																
October	5.39	January	13.65	April	1.93	July	0.02																																									
November	23.31	February	6.51	May	0	August	.60																																									
December	7.86	March	16.21	June	.40	September	4.87																																									
Total for water year, October 1, 1970-September 30, 1971 80.75																																																
11-5308.5. Middle Fork Smith River tributary near O'Brien, Oreg.																																																
13	Lat 41°55'05", long 123°46'02", in NW¼ sec. 31, T. 18 N., R. 4 E., at culvert on U.S. Highway 199, Six Rivers National Forest, 5.0 miles northeast of Patrick Creek Guard station, and 11.0 miles southwest of O'Brien, Oreg.	.29	Sept. 1961-	Crest-stage gage, Sept. 7, 1961-	1962	December 1961	53.22	32																																								
					1963	Dec. 2, 1962	56.18	55																																								
					1964	Nov. 8, 1963	54.38	41																																								
					1965	Dec. 22, 1964	65.70	102																																								
					1966	Jan. 6, 1966	56.63	58																																								
					1967	Jan. 29, 1967	52.63	26																																								
					1968	Feb. 23, 1968	52.89	29																																								
					1969	Jan. 12, 1969	52.84	27																																								
					1970	Jan. 22, 1970	54.35	42																																								
					1971	Jan. 16, 1971	54.97	47																																								
11-5309.5. Darlingtonia Creek at Darlingtonia, Calif.																																																
14	Lat 41°50'20", long 123°56'54", in NE¼ sec. 28, T. 17 N., R. 2 E., at culvert on U.S. Highway 199, Six Rivers National Forest, 0.3 mile west of Darlingtonia, and 1.1 miles east of Gasquet.	.77	Sept. 1961-	Crest-stage gage, Sept. 6, 1961-	1962	November 1961	53.29	84																																								
					1963	Dec. 2, 1962	56.14	242																																								
					1964	Nov. 8, 1963	56.05	238																																								
					1965	Dec. 22, 1964	55.80	212																																								
					1966	Jan. 6, 1966	55.51	204																																								
					1967	Dec. 4, 1966	53.06	84																																								
					1968	Feb. 23, 1968	52.54	65																																								
					1969	Jan. 12, 1969	53.58	106																																								
					1970	(m)	(m)	(m)																																								
					1971	Jan. 16, 1971	52.50	60																																								

See footnotes at end of table.

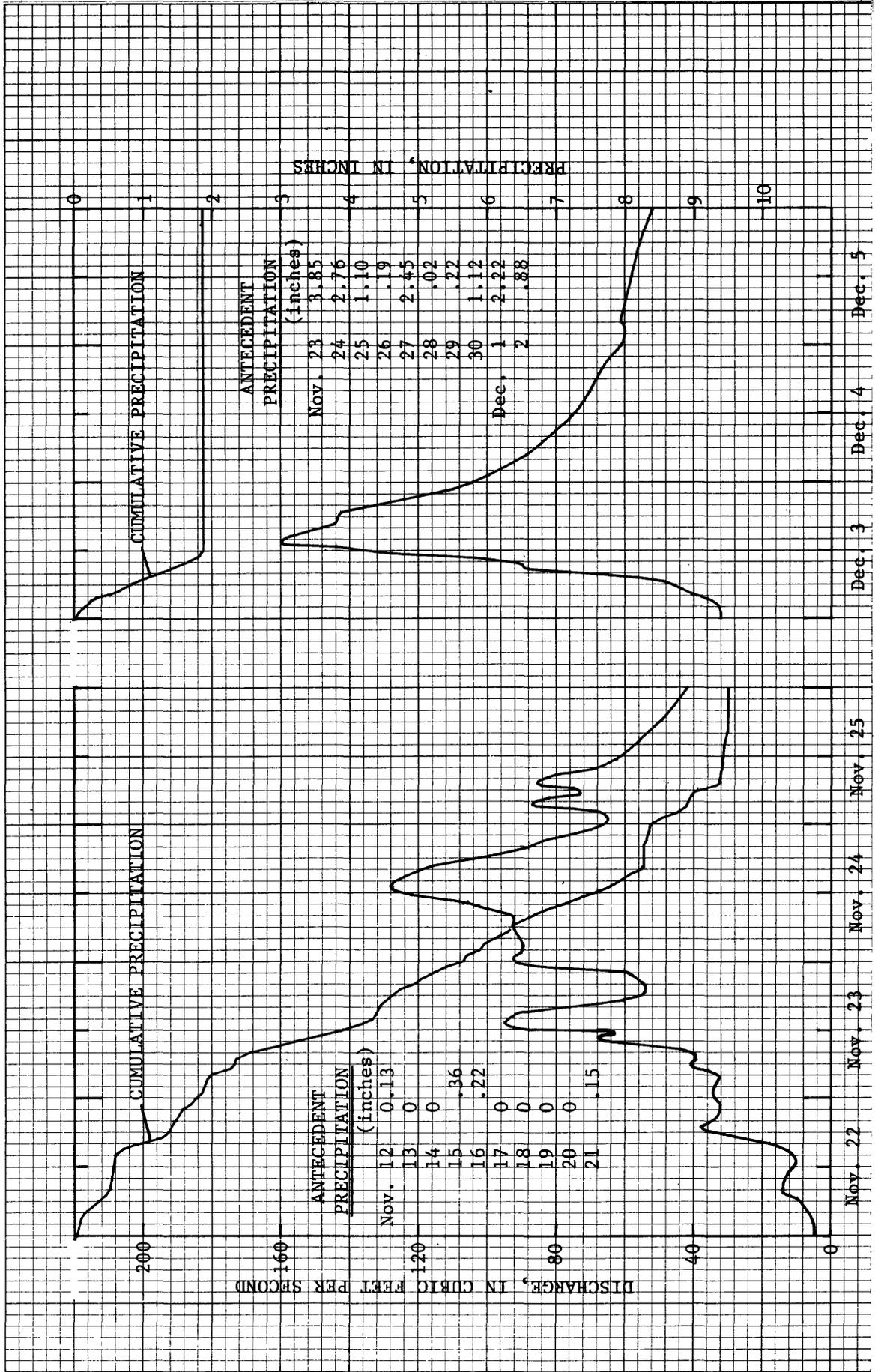


FIGURE 1.--Storm hydrographs and precipitation for Mareep Creek near Weitchpec, November 22-25 and December 3-5, 1970.

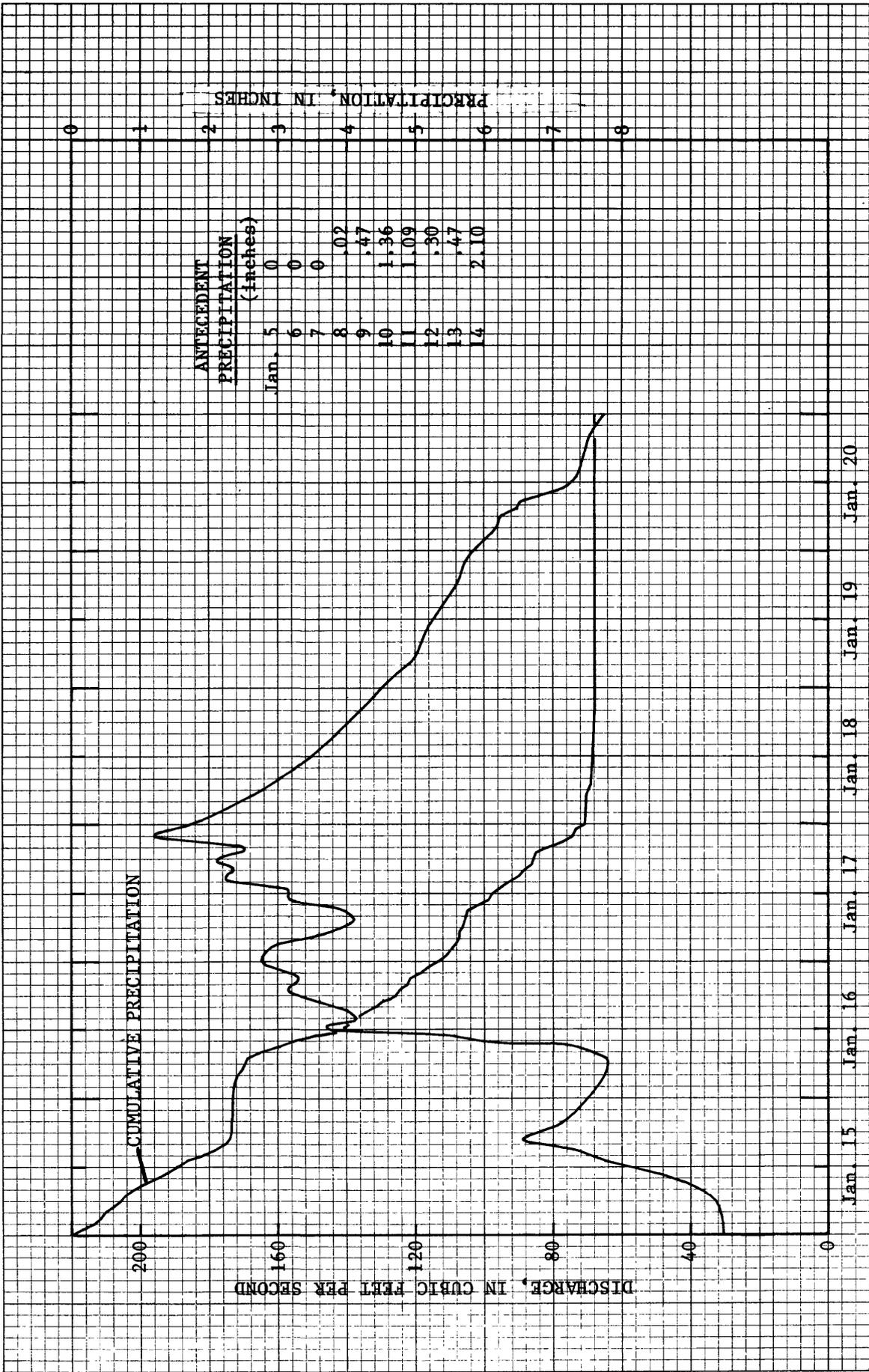


FIGURE 2.--Storm hydrograph and precipitation for Mareep Creek near Weitchpec, January 15-20, 1971.



FIGURE 3.--Storm hydrograph and precipitation for Mareep Creek near Weitchpec, March 22-27, 1971.

HYDROLOGIC REGION I

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-5330.			Lopez Creek near Smith River, Calif.				
15	Lat 41°57'36", long 124°12'08", in SE¼ sec. 8, T. 18 N., R. 1 W., at culvert on U.S. Highway 101, Six Rivers National Forest, 0.2 mile upstream from mouth, and 3.7 miles northwest of town of Smith River.	0.93	Sept. 1961-	Crest-stage gage, Sept. 6, 1961-	1962	Nov. 23, 1961	53.10	305
					1963	May 6, 1963	53.22	330
					1964	Jan. 19, 1964	51.72	65
					1965	Dec. 22, 1964	51.78	84
				Water-stage recorder, 1966	1966	Jan. 6, 1966	52.40	149
					1967	Nov. 15, 1966	51.87	95
				Sept. 6, 1961-	1968	Feb. 23, 1968	52.63	239
				Aug. 18, 1966.	1969	Jan. 12, 1969	52.04	123
					1970	Jan. 22, 1970	52.40	195
					1971	Jan. 16, 1971	52.05	125

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-3761.			South Fork Bailey Creek near Manzanita Lake, Calif.				
24	Lat 40°28'45", long 121°35'46", in unsurveyed section, Shasta County, in Lassen National Forest, at culvert on Forest Service road 31 N 12F, 4.4 miles southwest of town of Manzanita Lake and 5.2 miles southeast of Viola.	3.67	Oct. 1969-	Crest-stage gage, 1970 Oct. 2, 1969-	1970 1971	Jan. 23, 1970 May 27, 1971	y9.14 10.60	266 244

See footnote at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-5280.9.	Post Creek near Forest Glen, Calif.						
25	Lat 40°24'42", long 123°13'50", in NE¼ sec. 32, T. 30 N., R. 12 W., at twin culverts on State Highway 36, 5 miles southwest of Peanut and 5.7 miles northeast of Forest Glen.	5.19	Oct. 1966-	Crest-stage gage, Oct. 22, 1966-	1967 1968 1969 1970 1971	Jan. 29, 1967 Feb. 21, 1968 Jan. 20, 1969 Jan. 23, 1970 Jan. 17, 1971	53.58 54.28 54.32 54.05 53.91	a165 a215 a220 a200 190
	11-3415.5.	Boulder Creek near Lamoine, Calif.						
26	Lat 41°01'00", long 122°23'15", in SW¼SE¼ sec. 35, T. 37 N., R. 5 W., at culvert on U.S. Highway 99, 3.1 miles northeast of Lamoine and 15 miles southwest of Dunsmuir.	6.57	Oct. 1960-	Crest-stage gage, Oct. 19, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 10, 1961 Feb. 15 or Mar. 6, 1962 Oct. 12, 1962 Jan. 20, 1964 Dec. 22, 1964 Nov. 18, 1965 Nov. 19, 1966 Feb. 21, 1968 Feb. 11, 1969 Dec. 21, 1969 Feb. 12, 1971	32.28 32.44 39.78 32.12 36.45 33.74 34.31 32.57 32.98 36.19 33.14	555 611 2,080 464 1,370 683 773 309 395 1,270 435
	11-3645.5.	Willow Creek near Round Mountain, Calif.						
27	Lat 40°48'55", long 121°56'15", in NW¼SE¼ sec. 11, T. 34 N., R. 1 W., at culvert on U.S. Highway 299 E, 1.4 miles north of Round Mountain.	2.61	Nov. 1960-	Crest-stage gage, Nov. 9, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 16, 1961 Jan. 31, 1963 Jan. 20, 1964 Dec. 22, 1964 Jan. 6, 1966 Jan. 21, 1967 Feb. 23, 1968 Jan. 13, 1969 Jan. 23, 1970 Nov. 9, 1970	16.61 15.80 18.72 15.74 18.92 15.65 16.72 18.04 17.08 16.54 17.76	430 284 784 276 824 264 423 653 482 394 602
	11-3756.	Huling Creek tributary at Ono, Calif.						
28	Lat 40°28'40", long 122°36'10", in SW¼SE¼ sec. 1, T. 30 N., R. 7 W., at culvert on county road, 0.9 mile east of Ono.	a.07	Sept. 1960-	Crest-stage gage, Sept. 27, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Mar. 14, 1961 Mar. 5, 1962 Oct. 12, 1962 Jan. 20, 1964 Dec. 22, 1964 Nov. 14, 1965 June 2, 1967 Jan. 29, 1968 Jan. 13, 1969 (m) (m)	3.93 3.27 4.14 3.36 4.20 3.76 4.15 5.12 3.39 (m) (m)	b7.5 3.4 11 4.0 11 6.9 11 18 4.1 (m) (m)

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-3758.3.	Budden Canyon near Beegum, Calif.					
29	Lat 40°19'00", long 122°46'35", in SE½SW¼ sec. 33, T. 29 N., R. 8 W., at culvert on State Highway 36, 4.7 miles southeast of Beegum.	1.09	Sept. 1960-	Crest-stage gage, Sept. 27, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1970	Feb. 10, 1961 Mar. 5, 1962 Feb. 1, 1963 Jan. 20, 1964 Dec. 22, 1964 Jan. 4, 1966 Jan. 21, 1967 Feb. 20, 1968 Jan. 13, 1969 Jan. 23, 1970 Jan. 16, 1971	8.72 7.43 8.73 8.27 10.25 8.20 8.38 8.57 8.27 9.55 9.53	63 28 66 49 120 47 52 59 49 93 93
		11-3759.5.	Cottonwood Creek tributary near Cottonwood, Calif					
30	Lat 40°19'20", long 122°16'25", in NW¼SE¼ sec. 35, T. 29 N., R. 4 W., at culvert on U.S. Highway 99, 4.4 miles south of Cottonwood.	.44	Sept. 1960-	Crest-stage gage, Sept. 29, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Dec. 1, 1960 Feb. 12, 1962 Oct. 12, 1962 Jan. 21, 1964 Jan. 5, 1965 Nov. 18, 1965 Jan. 29, 1967 Mar. 16, 1968 Jan. 21, 1969 Jan. 23, 1970 Jan. 16, 1971	4.04 4.41 5.16 3.26 6.09 3.69 4.51 4.58 4.90 4.17 4.03	15 22 27 7.6 59 9.5 24 25 31 17 14
		11-3762.	Summit Creek near Mineral, Calif.					
31	Lat 40°22'05", long 121°32'20", in SW¼SE¼ sec. 16, T. 29 N., R. 4 E., at culvert on State Highway 36, Lassen National Forest, 3.3 miles northeast of Mineral.	1.80	Sept. 1960-	Crest-stage gage, Sept. 29, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 31, 1961 May 15 or June 12, 1962 Feb. 1, 1963 May 1964 Dec. 22, 1964 June 1966 May 1967 November 1967 June 1969 Jan. 23, 1970 Mar. 25, 1971	6.12 6.24 8.25 6.02 10.42 6.62 7.45 6.33 6.92 11.15 6.30	16 20 100 15 204 30 64 20 47 220 25
		11-3740.6.	Shingle Creek near Shingletown, Calif.					
32	Lat 40°30'00", long 121°58'20", in NW¼SW¼ sec. 34, T. 31 N., R. 1 W., on right bank 10 ft upstream from culvert on State Highway 44, 4.5 miles west of Shingletown.	3.25	Sept. 1960-	Crest-stage gage, Sept. 30, 1960- Water-stage recorder, Aug. 15, 1963- July 25, 1967.	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Dec. 1, 1960 Dec. 1, 1961 Oct. 12, 1962 Jan. 20, 1964 Jan. 5, 1965 Jan. 5, 1966 Jan. 21, 1967 Feb. 19, 1968 Jan. 19, 1969 Jan. 23, 1970 Nov. 9, 1970	3.50 3.62 3.23 2.97 3.86 2.39 8.22 3.01 4.08 3.60 3.71	156 167 125 97 197 47 608 103 211 166 177

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-3787.	Vale Gulch tributary near Red Bank, Calif.					
33	Lat 40°04'00", long 122°29'12", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 26 N., R. 6 W., at culvert on county road, 3.2 miles southwest of Red Bank.	0.19	Sept. 1960-	Crest-stage gage, Sept. 28, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 2, 1961 Dec. 1, 1961 Apr. 14, 1963 Nov. 23, 1963 Jan. 5, 1965 Nov. 14, 1965 Jan. 21, 1967 Jan. 14, 1968 Jan. 21, 1969 Jan. 23, 1970 Mar. 25, 1971	4.35 5.97 6.95 3.51 6.54 6.04 6.69 4.83 5.66 5.94 4.62	26 53 114 13 84 51 114 33 46 50 30

11-3819.9. Thomes Creek tributary at Paskenta, Calif.

34	Lat 39°52'15", long 122°33'20", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 23 N., R. 6 W., at culvert on county road, 1.0 mile southwest of Paskenta.	a.65	Sept. 1960-	Crest-stage gage, Sept. 28, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 31, 1961 Mar. 5, 1962 Apr. 6, 1963 Jan. 20, 1964 Jan. 5, 1965 Jan. 4, 1966 Jan. 29, 1967 Jan. 29, 1968 Feb. 11, 1969 Jan. 23, 1970 Nov. 29, 1970	5.42 5.60 5.83 5.02 7.99 4.94 6.08 5.44 7.78 6.80 5.90	47 53 57 43 107 41 66 52 104 83 62
				Water-stage recorder, Aug. 7, 1967-	1965 1966 1967 1968 1969 1970 1971	Jan. 5, 1965 Jan. 4, 1966 Jan. 29, 1967 Jan. 29, 1968 Feb. 11, 1969 Jan. 23, 1970 Nov. 29, 1970	7.99 4.94 6.08 5.44 7.78 6.80 5.90	107 41 66 52 104 83 62

Monthly and annual precipitation, in inches

October	-	January	3.3	April	0	July	0.5
November	8.0	February	0	May	.9	August	0
December	3.9	March	3.7	June	.1	September	.1
Total for water year, October 1, 1970-September 30, 1971 -							

11-5178.4. Dona Creek near Klamath River, Calif.

35	Lat 41°50'25", long 122°55'15", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 46 N., R. 9 W., at culvert on county road, Klamath National Forest, 5.1 miles west of Klamath River.	2.90	Sept. 1960-	Crest-stage gage, Sept. 23, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 11, 1961 Mar. 2, 1962 Dec. 2, 1962 Jan. 20, 1964 Dec. 22, 1964 Jan. 6, 1966 Jan. 28, 1967 Feb. 23, 1968 Jan. 21, 1969 Jan. 23, 1970 Jan. 17, 1971	4.38 4.10 6.50 4.61 e14.4 4.81 4.80 4.64 4.56 e7.59 5.63	6.2 3.1 b20 9.0 83 10 9.3 9.6 8.4 23 26
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11-5183.1. Cedar Gulch near Callahan, Calif.

36	Lat 41°20'40", long 122°49'45", near center of sec. 1, T. 40 N., R. 9 W., at culvert on county road, 2.9 miles northwest of Callahan.	.99	Sept. 1960-	Crest-stage gage, Sept. 22, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Dec. 1, 1960 Feb. 10, 1962 Dec. 2, 1962 Jan. 20, 1964 Dec. 22, 1964 Jan. 6, 1966 Jan. 26, 1967 Feb. 23, 1968 Jan. 20, 1969 Jan. 27, 1970 Jan. 16, 1971	6.15 5.86 8.25 8.24 10.18 6.07 6.58 6.08 6.59 8.35 7.93	9.7 5.6 69 69 144 8.6 18 8.0 18 72 56
				Water-stage recorder, Feb. 10, 1966-	1965 1966 1967 1968 1969 1970 1971	Dec. 22, 1964 Jan. 6, 1966 Jan. 26, 1967 Feb. 23, 1968 Jan. 20, 1969 Jan. 27, 1970 Jan. 16, 1971	10.18 6.07 6.58 6.08 6.59 8.35 7.93	144 8.6 18 8.0 18 72 56

Monthly and annual precipitation, in inches

October	1.76	January	3.20	April	0.84	July	0
November	7.54	February	.30	May	2.07	August	0
December	8.92	March	4.24	June	.02	September	0
Total for water year, October 1, 1970-September 30, 1971 28.89							

See footnotes at end of table.

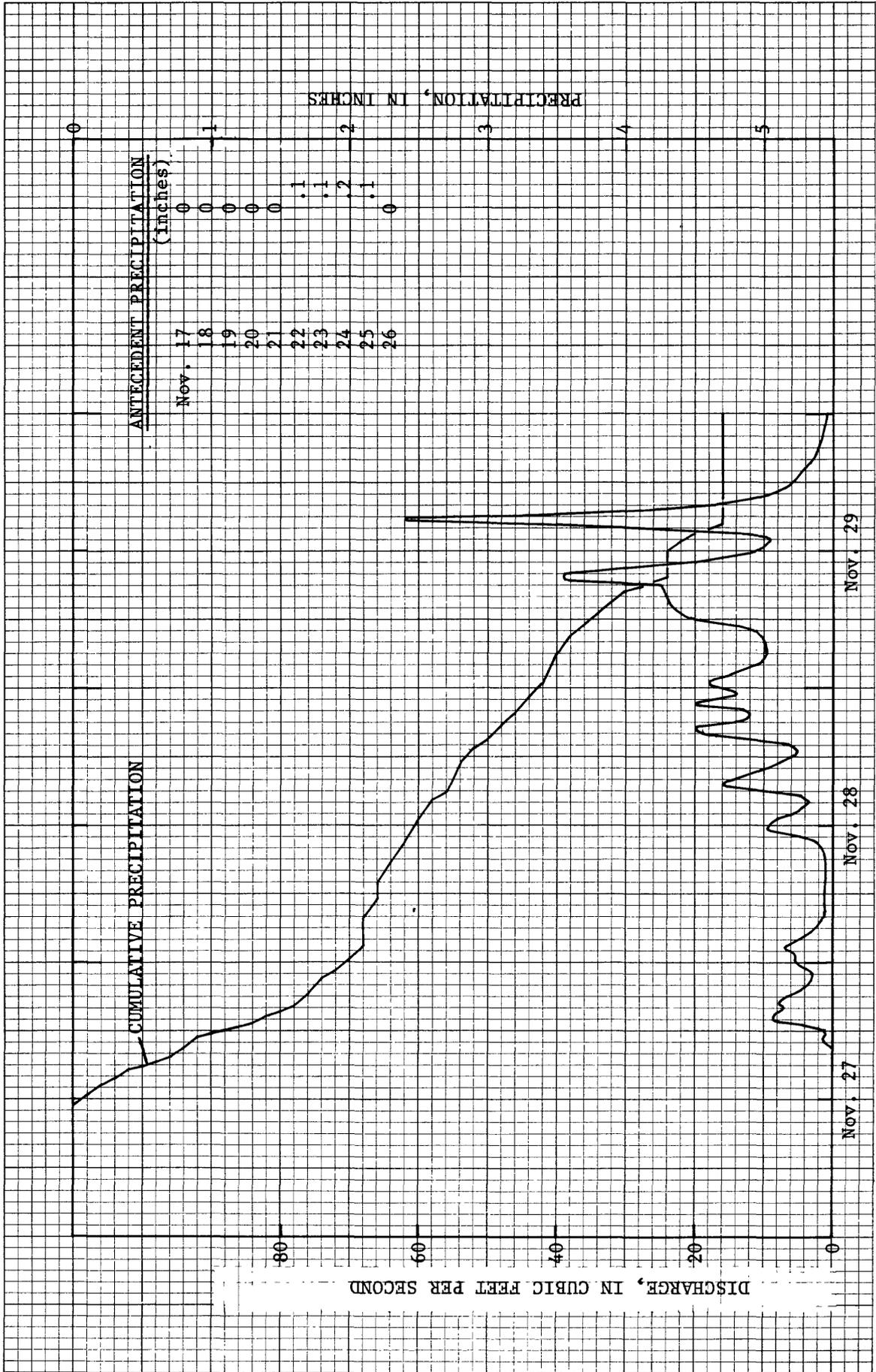


FIGURE 4.--Storm hydrograph and precipitation for Thomes Creek tributary at Paskenta, November 27-29, 1970.

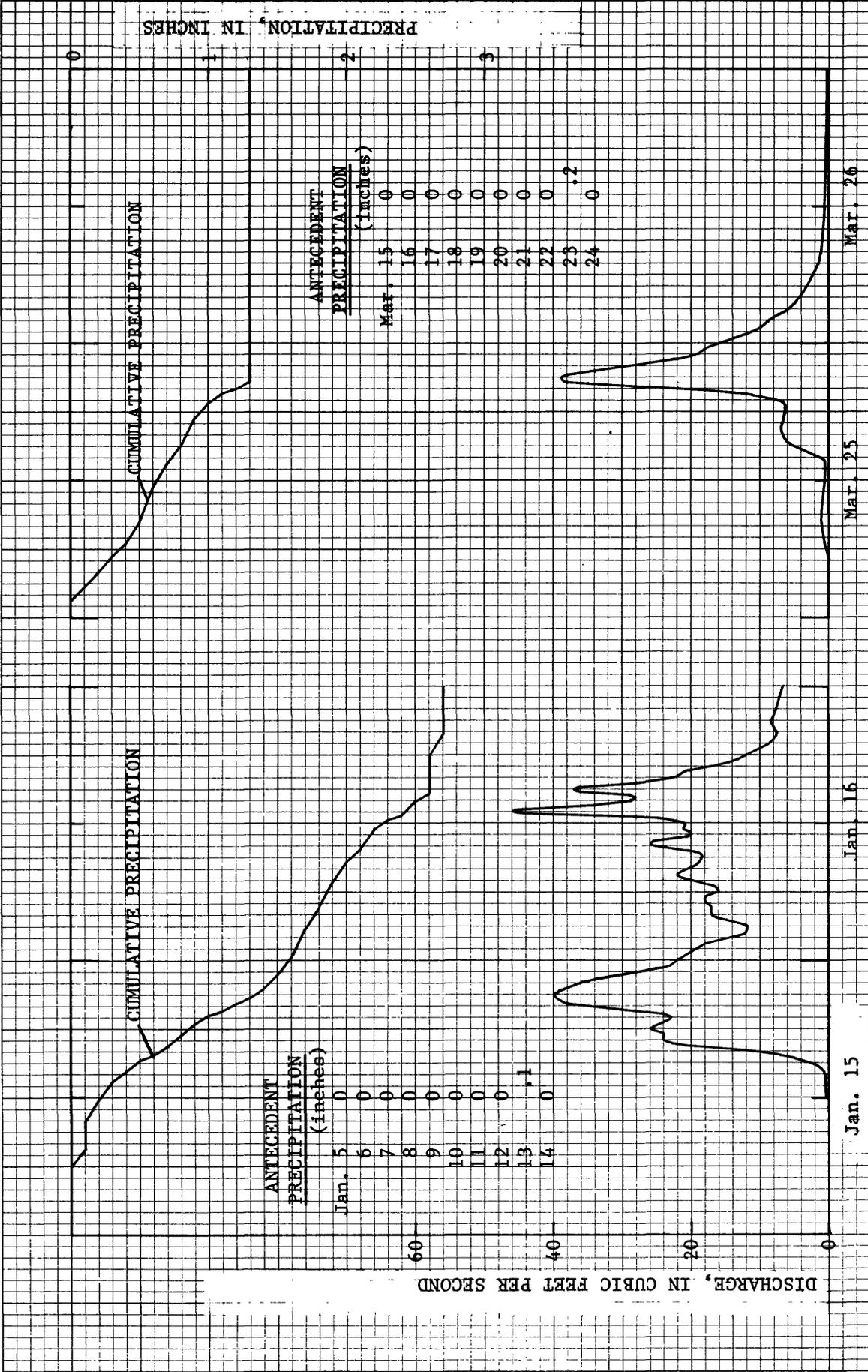


FIGURE 5.--Storm hydrographs and precipitation for Thomes Creek tributary at Paskenta, January 15-16 and March 25-26, 1971.

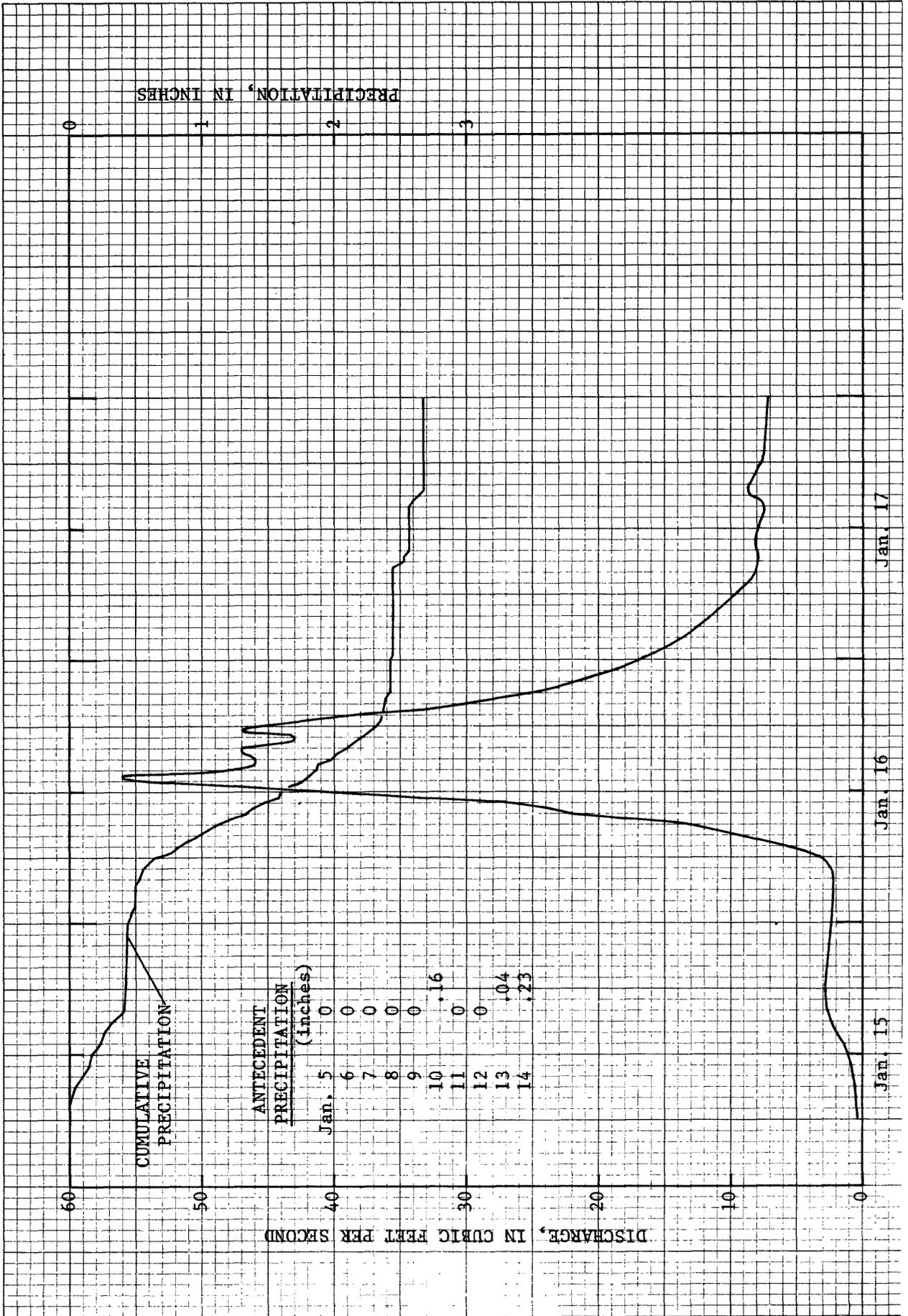


FIGURE 6.--Storm hydrograph and precipitation for Cedar Gulch near Callahan, January 15-17, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-5184.			Etna Creek above Lunch Creek, near Etna, Calif.				
37	Lat 41°24'10", long 122°58'55", near center of sec. 15, T. 41 N., R. 10 W., at culvert on county road, Klamath National Forest, 6.0 miles southwest of Etna.	0.80	Sept. 1960-	Crest-stage gage, Sept. 22, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 10, 1961 Dec. 19, 1961 Feb. 1, 1963 May 19, 1964 Dec. 22, 1964 May 5, 1966 Dec. 5, 1966 March 1968 May 1969 Dec. 20, 1969 Jan. 16, 1971	9.50 8.15 9.21 7.97 (d) (d) 11.00 12.07 10.25 12.04 13.71	51 25 45 22 509 f21 50 79 31 78 118
	11.5186.1.			Soap Creek tributary near Fort Jones, Calif.				
38	Lat 41°39'10", long 122°44'25", in NE¼NW¼ sec. 23, T. 44 N., R. 8 W., on Yreka-Fort Jones road, 6.3 miles northeast of Fort Jones and 8 miles southwest of Yreka.	.42	Oct. 1960-	Crest-stage gage, Oct. 19, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Oct. 12, 1962 Dec. 22, 1964 Jan. 4, 1966 June 20, 1967 Feb. 21, 1968 Mar. 31, 1969	10.32 10.46 9.94 10.44 10.03 9.92	b2 b1 9.1 b1 11 1.3 10 2.8 1 (m) (m)
	11-5205.2.			Fort Goff Creek near Seiad Valley, Calif.				
39	Lat 41°51'50", long 123°15'25", in SE¼SW¼ sec. 32, T. 47 N., R. 12 W., 150 ft upstream from State Highway 96, Klamath National Forest, 3.5 miles northwest of Seiad Valley.	13.0	Sept. 1960-	Crest-stage gage, Sept. 14, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 9, 1961 Dec. 19, 1961 Dec. 2, 1962 Jan. 20, 1964 Dec. 22, 1964 Jan. 6, 1966 Jan. 21, 1967 Feb. 22, 1968 Apr. 4, 1969 Jan. 23, 1970 Jan. 15, 1971	14.40 13.51 15.53 14.28 21.70 g86.17 86.44 86.57 85.41 87.17 87.04	245 120 b700 266 2,820 500 594 640 273 854 826
	11-5222.1.			Benjamin Creek near Happy Camp, Calif.				
40	Lat 41°46'10", long 123°24'10", in NE¼NE¼ sec. 21, T. 16 N., R. 7 E., at culvert on State Highway 96, Klamath National Forest, 2.2 miles southwest of Happy Camp.	1.19	Sept. 1960-	Crest-stage gage, Sept. 9, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 9, 1961 Mar. 25, 1962 Dec. 2, 1962 Jan. 19, 1964 Dec. 22, 1964 Mar. 9, 1966 Jan. 28, 1967 Feb. 23, 1968 Jan. 13, 1969 Jan. 23, 1970 Jan. 17, 1971	11.61 10.45 11.37 12.22 12.56 12.43 g44.93 44.62 44.96 g13.41 13.02	20 10 27 38 146 b20 h37 20 39 51 45

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-5222.6. Ti Creek near Somes Bar, Calif.								
41	Lat 41°31'30", long 123°31'35", at bridge on State Highway 96, Klamath National Forest, 10.5 miles north of Somes Bar.	9.46	Sept. 1960- Dec. 1964.	Crest-stage gage, Sept. 9, 1960- Sept. 30, 1969. Water-stage recorder, Sept. 9, 1960- Dec. 22, 1964.	1961 1962 1963 1964 1965 1966 1967 1968 1969	Feb. 11, 1961 Dec. 19, 1961 Dec. 2, 1962 Jan. 20, 1964 Dec. 22, 1964 (d) (d) (d) (d) (d)	2.96 2.63 (d) 3.29 (d) (d) (d) (d) (d)	230 148 484 550 16,000 (d) (d) (d) (d)
11-5224.3. Butler Creek near Somes Bar, Calif.								
43	Lat 41°20'10", long 123°24'30", in NW¼ sec. 20, T. 11 N., R. 7 E., at bridge on Salmon River road, Klamath National Forest, 4.5 miles southeast of Somes Bar.	6.87	Sept. 1960- Sept. 1965.	Crest-stage gage, Sept. 7, 1960- Sept. 30, 1965.	1962 1963 1964 1965	January 1962 Dec. 2, 1962 Jan. 20, 1964 Dec. 22, 1964	51.01 53.93 53.98 (d)	101 (c) (c) (d)
11-5231. Dan Rice Creek near Callahan, Calif.								
44	Lat 41°15'35", long 122°40'05", in NE¼ sec. 9, T. 39 N., R. 7 W., at culvert on Trinity Center-Callahan road, Shasta National Forest, 7.7 miles southeast of Callahan.	1.11	Sept. 1960- Sept. 22, 1960-	Crest-stage gage, Sept. 22, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 10, 1961 Apr. 14, 1962 Apr. 14, 1963 Nov. 8, 1963 Dec. 22, 1964 Apr. 9, 1966 April 1967 Feb. 22, 1968 Apr. 22, 1969 Dec. 21, 1969 (d)	7.61 5.61 7.31 6.09 (d) 5.96 7.52 5.87 6.21 8.33 6.04	58 26 54 36 265 32 56 33 38 256 32
11-5253. Slate Creek near Trinity Alps, Calif.								
45	Lat 40°50'14", long 122°51'35", in NW¼NW¼ sec. 2, T. 34 N., R. 9 W., at culvert on Weaverville-Trinity Center road, Trinity National Forest, 2.2 miles southeast of Trinity Alps.	2.30	Sept. 1960- Sept. 21, 1960-	Crest-stage gage, Sept. 21, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 30, 1961 Feb. 8, 1962 Dec. 2, 1962 Jan. 20, 1964 Dec. 22, 1964 Apr. 6, 1966 Jan. 20, 1967 Feb. 19, 1968 Feb. 11, 1969 Jan. 26, 1970 Jan. 18, 1971	11.27 10.76 12.22 11.53 25.02 10.44 11.69 12.38 10.79 15.17 13.38	76 48 114 84 741 46 98 137 70 259 182

See footnotes at end of table.

HYDROLOGIC REGION 11

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11.5256.5. Tom Lang Gulch near Douglas City, Calif.								
46	Lat 40°40'15", long 122°52'05", in SW¼SE¼ sec. 34, T. 33 N., R. 9 W., at culvert on State Highway 299, 4.1 miles east of Douglas City.	2.53	Oct. 1960-	Crest-stage gage, Oct. 18, 1960-	1961	Feb. 9, 1961	15.74	3.5
					1962	Feb. 15, 1962	15.77	b4
					1963	Feb. 2, 1963		b6
					1964	Jan. 20, 1964	16.00	28
					1965	Dec. 22, 1964	16.50	56
					1966	Mar. 10, 1966	15.70	20
					1967	Jan. 24, 1967	16.28	43
					1968	Feb. 21, 1968	16.28	14
					1969	Apr. 1, 1969	15.34	9.7
					1970	Mar. 7, 1970	16.30	46
					1971	Jan. 16, 1971	16.29	44
11.5270.1. Mill Creek near Burnt Ranch, Calif.								
47	Lat 40°47'20", long 123°26'40", at culvert on State Highway 299, in Trinity National Forest, 2.2 miles southeast of Burnt Ranch.	6.09	Sept. 1960-	Crest-stage gage, Sept. 1, 1960-	1961	Feb. 11, 1961	49.74	156
					1962	Dec. 20, 1961	48.80	54
					1963	May 1963	50.59	280
					1964	Jan. 20, 1964	51.64	500
					1965	Dec. 22, 1964	60.29	5,000
					1966	Jan. 4, 1966	50.31	235
					1967	Jan. 29, 1967	52.51	670
					1968	Jan. 15, 1968	51.88	560
					1969	Jan. 19, 1969	53.08	920
					1970	Jan. 26, 1970	52.50	740
					1971	Jan. 17, 1971	52.46	720
11-5275.5. Panther Creek near Denny, Calif.								
48	Lat 40°54'25", long 123°25'40", at culvert on New River road, Trinity National Forest, 3.3 miles southwest of Denny.	5.66	Sept. 1960-	Crest-stage gage, Dec. 1964. Sept. 2, 1960- Sept. 30, 1969.	1961	Feb. 11, 1961	51.78	121
					1962	Jan. 1, 1962	51.88	128
					1963	Dec. 2, 1962	53.00	228
					1964	Jan. 20, 1964	53.10	240
					1965	Dec. 22, 1964	(d)	14,000
					1966	(d)	(d)	(d)
					1967	Jan. 29, 1967	(c)	(c)
					1968	Feb. 23, 1968	(c)	(c)
					1969	(d)	(d)	(d)
					11-5281.1. Swift Creek near Forest Glen, Calif.			
49	Lat 40°22'45", long 123°22'25", in NW¼SE¼ sec. 15, T. 1 S., R. 7 E., at culvert on State Highway 36, Six Rivers National Forest, 2.5 miles west of Forest Glen.	.57	Aug. 1960-	Crest-stage gage, Aug. 31, 1960- Sept. 30, 1965.	1961	Feb. 9, 1961	51.48	8.6
					1962	Feb. 13, 1962	51.13	5.9
					1963	Jan. 31, 1963	55.05	44
					1964	Jan. 20, 1964	51.53	9.2
					1965	Dec. 22, 1964	(d)	(d)

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-5284.8.			Hayfork Creek tributary near Hyampom, Calif.				
50	Lat 40°36'50", long 123°20'55", in NE¼ sec. 26, T. 3 N., R. 7 E., at culvert on county road, Trinity National Forest, 5.6 miles east of Hyampom.	0.93	Sept. 1960-	Crest-stage gsgc, Sept. 1, 1960-	1961	Feb. 11, 1961	51.92	19
					1962	Feb. 13, 1962	52.01	20
					1963	Jan. 31, 1963	52.22	25
					1964	Jan. 20, 1964	53.15	45
					1965	Dec. 22, 1964	60.85	168
					1966	Jan. 4, 1966	52.53	32
					1967	Jan. 29, 1967	53.38	60
					1968	Feb. 20, 1968	53.16	50
					1969	Jan. 9, 1969	51.89	18
					1970	(m)	(m)	(m)
					1971	Jan. 17, 1971	55.20	92

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																											
					Water year	Date	Gage height (ft)	Discharge (cfs)																																								
10-3593.5. Eagle Lake tributary near Susanville, Calif.																																																
51	Lat 40°44'10", long 120°42'20", in SW¼ sec. 11, T. 33 N., R. 11 E., at culvert on State Highway 139, at north end of Eagle Lake, and 22.2 miles north of Susanville.	0.91	July 1962-	Crest-stage gage, July 17, 1962-	1963	Feb. 1, 1963	5.14	21																																								
					1964	Mar. 17, 1964	4.53	14																																								
					1965	Jan. 23, 1965	4.06	8.8																																								
					1966	Apr. 10, 1966	3.45	3.2																																								
				Water-stage recorder, Sept. 27, 1962-Aug. 30, 1965.	1967	Jan. 16, 1967	5.53	25																																								
					1968	Feb. 9, 1968	4.51	14																																								
					1969	Jan. 26, 1969	4.99	19																																								
					1970	Jan. 23, 1970	4.07	8.9																																								
1971	Mar. 26, 1971	4.98	19																																													
10-3584.7. Willow Creek tributary near Susanville, Calif.																																																
52	Lat 40°29'48", long 120°33'30", in SW¼ sec. 31, T. 31 N., R. 13 E., at culvert on State Highway 139, 7.5 miles northeast of Susanville.	3.08	July 1962-	Crest-stage gage, July 16, 1962-	1963	Feb. 1, 1963	4.90	97																																								
					1964	March 1964	2.83	11																																								
					1965	Dec. 22, 1964	4.34	72																																								
					1966	Mar. 13, 1966	3.07	20																																								
				Water-stage recorder, Oct. 1, 1965-sept. 30, 1971.	1967	Jan. 29, 1967	3.65	43																																								
					1968	Feb. 21, 1968	3.12	24																																								
					1969	Jan. 21, 1969	3.91	48																																								
					1970	Jan. 23, 1970	7.51	183																																								
					1971	Mar. 26, 1971	4.07	60																																								
					<table border="1"> <thead> <tr> <th colspan="8">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0.36</td> <td>January</td> <td>-</td> <td>April</td> <td>0.48</td> <td>July</td> <td>0</td> </tr> <tr> <td>November</td> <td>3.92</td> <td>February</td> <td>0.10</td> <td>May</td> <td>2.75</td> <td>August</td> <td>0</td> </tr> <tr> <td>December</td> <td>2.24</td> <td>March</td> <td>3.83</td> <td>June</td> <td>1.61</td> <td>September</td> <td>0</td> </tr> <tr> <td colspan="8">Total for water year, October 1, 1970-September 30, 1971 --</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches								October	0.36	January	-	April	0.48	July	0	November	3.92	February	0.10	May	2.75	August	0	December	2.24	March	3.83	June	1.61	September	0	Total for water year, October 1, 1970-September 30, 1971 --		
Monthly and annual precipitation, in inches																																																
October	0.36	January	-	April	0.48	July	0																																									
November	3.92	February	0.10	May	2.75	August	0																																									
December	2.24	March	3.83	June	1.61	September	0																																									
Total for water year, October 1, 1970-September 30, 1971 --																																																
10-3594.9. Madeline Plains tributary near Ravendale, Calif.																																																
53	Lat 40°44'42", long 120°19'20", in N½ sec. 7, T. 33 N., R. 15 E., at culvert on U.S. Highway 395, 4.4 miles southeast of Ravendale.	.062	July 1962-	Crest-stage gage, July 18, 1962-	1963	Oct. 13, 1962	3.92	8.3																																								
					1964	Mar. 17, 1964	3.03	1.4																																								
					1965	Dec. 23, 1964	4.05	9.4																																								
					1966	Mar. 13, 1966	2.58	.2																																								
				Water-stage recorder, 1967-1971.	1967	Jan. 29, 1967	3.45	4																																								
					1968	Feb. 21, 1968	3.12	2.0																																								
					1969	March 1969	3.48	4.3																																								
					1970			(m)																																								
					1971			(m)																																								
					10-3595.1. Whiskey Creek near Termo, Calif.																																											
54	Lat 40°49'15", long 120°35'00", in NW¼SE¼ sec. 11, T. 34 N., R. 12 E., at culvert on Termo-Said Valley Reservoir county road 7.4 miles west of Termo.	4.56	July 1962-	Crest-stage gage, July 18, 1962-	1963	Feb. 1, 1963	14.15	132																																								
					1964	Mar. 30, 1964	11.79	47																																								
					1965	Dec. 22, 1964	12.86	104																																								
					1966	April 1966	10.24	8.8																																								
				Water-stage recorder, 1967-1971.	1967	May 1967	10.63	30																																								
					1968	Feb. 21, 1968	11.05	44																																								
					1969	March 1969	12.16	75																																								
					1970	Jan. 23, 1970	12.83	98																																								
					1971	Mar. 26, 1971	13.17	73																																								

See footnote at end of table.

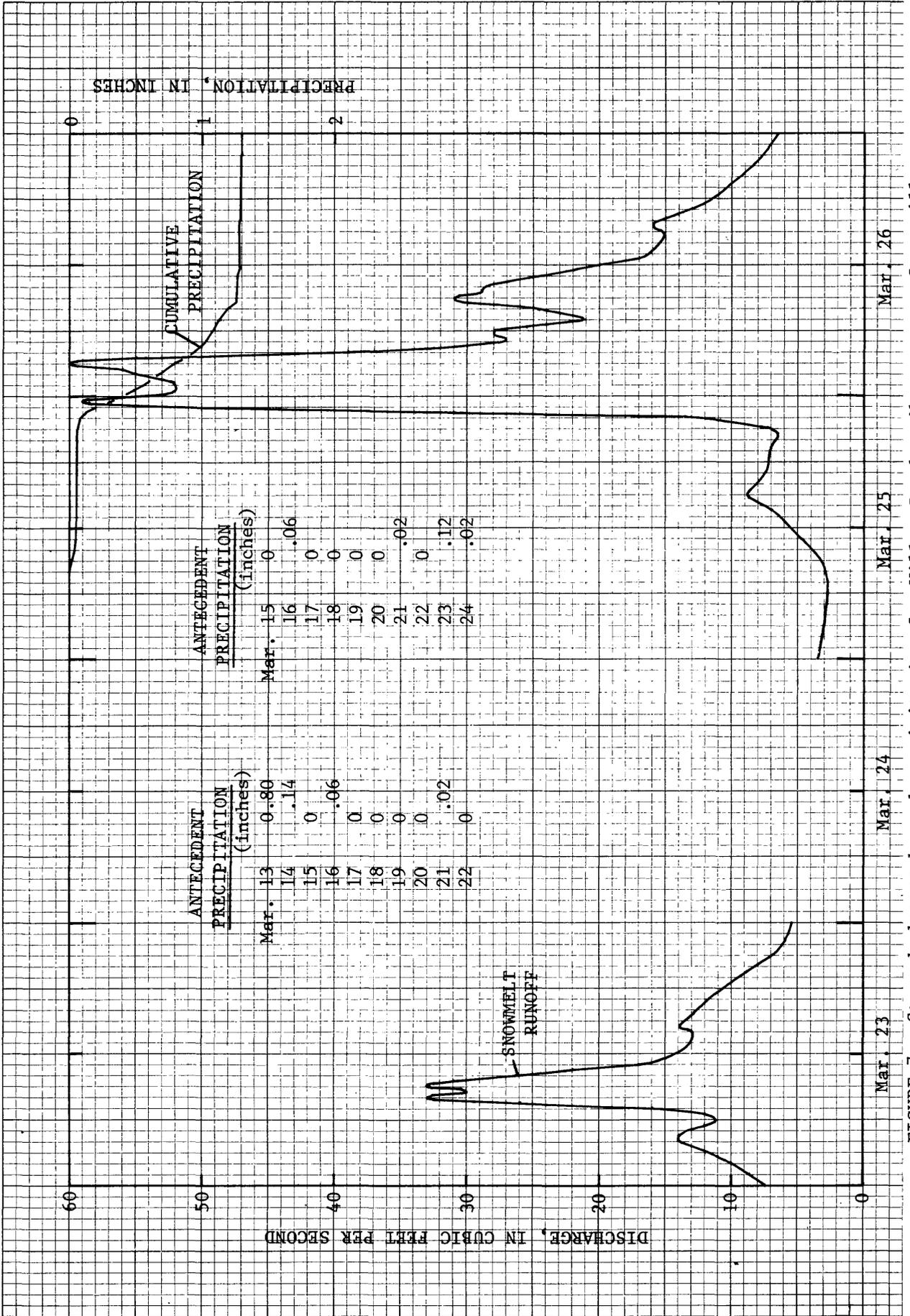


FIGURE 7.--Storm hydrographs and precipitation for Willow Creek tributary near Susanville, March 23 and 25-26, 1971.

HYDROLOGIC REGION III

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-3429.45. Thoms Creek near Cedarville, Calif.								
55	Lat 41°33'50", long 120°16'05", in SW¼ sec. 28, T. 43 N., R. 15 E., at culvert on Alturas-Cedarville road, Modoc National Forest, 5.5 miles northwest of Cedarville.	1.06	July 1962-	Crest-stage gage, July 20, 1962-	1963	Jan. 31, 1963	8.04	119
					1964	June 9, 1964	5.53	41
					1965	Dec. 22, 1964	7.77	109
					1966	Mar. 10, 1966	5.28	37
					1967	May 1967	6.40	62
					1968	Feb. 22, 1968	6.13	53
					1969	April 1969	6.66	71
					1970	Jan. 23, 1970	6.63	70
					1971	Jan. 17, 1971	6.64	71
11-3429.6. North Fork Pit River tributary near Alturas, Calif.								
56	Lat 41°34'35", long 120°26'05", in SW¼ sec. 19, T. 44 N., R. 14 E., at culvert on U.S. Highway 395, 8.0 miles northeast of Alturas.	2.36	July 1962-	Crest-stage gage, July 20, 1962-	1963	Oct. 12, 1962	8.57	109
					1964	June 9, 1964	6.41	40
					1965	Jan. 11, 1965	7.42	69
					1966	Mar. 16, 1966	5.16	13
					1967	Jan. 29, 1967	7.50	71
					1968	Feb. 22, 1968	6.34	44
					1969	Jan. 21, 1969	7.27	70
					1970	Jan. 23, 1970	8.30	101
					1971	May 31, 1971	7.71	83
11-3480.8. Big Sage Reservoir tributary near Alturas, Calif.								
58	Lat 41°35'00", long 120°41'55", in NE¼ sec. 9, T. 43 N., R. 11 E., at culvert on Big Sage Reservoir road, Modoc National Forest, 11 miles northwest of Alturas.	2.54	July 1962-	Crest-stage gage, July 26, 1962-	1963	Oct. 12, 1962	7.09	145
					1964	March 1964	4.96	86
					1965	Jan. 5, 1965	5.30	98
					1966	Mar. 16, 1966	6.58	b15
					1967	Mar. 16, 1967	6.91	143
					1968	Feb. 21, 1968	7.04	153
					1969	April 1969	5.94	119
					1970	Jan. 23, 1970	4.02	54
					1971	Mar. 26, 1971	6.87	175
11-3485.6. Turner Creek tributary near Canby, Calif.								
59	Lat 41°30'45", long 121°02'25", in SW¼NW¼ sec. 3, T. 42 N., R. 8 E., at culvert on State Highway 139, Modoc National Forest, 10 miles northwest of Canby.	.97	Aug. 1962-	Crest-stage gage, Aug. 8, 1962-	1963	Oct. 12, 1962	4.46	a42
					1964	Mar. 18, 1964	3.36	a14
					1965	Dec. 22, 1964	3.18	a11
					1966	April 1966	4.47	b20
					1967	Mar. 16, 1967	4.36	a39
					1968	Feb. 22, 1968	4.81	b40
					1969	April 1969	3.86	25
					1970	Jan. 23, 1970	x2.64	25
					1971	Mar. 12, 1971	2.28	17

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-3490.3. Pit River tributary near Lookout, Calif.								
60	Lat 41°18'38", long 121°08'02", in NE¼NW¼ sec. 14, T. 40 N., R. 7 E., at culvert on Lookout-Tule Lake road 7.5 miles north of Lookout.	0.47	July 1962-	Crest-stage gage, July 25, 1962-	1963	Oct. 12, 1962	4.84	45
					1964	Nov. 14, 1963	1.79	1.6
					1965	Dec. 22, 1964	4.44	31
					1966	Mar. 10, 1966	3.63	21
					1967	Mar. 12, 1967	4.36	30
					1968			(m)
					1969	Feb. 12, 1969	4.86	43
					1970	Jan. 23, 1970	5.48	62
					1971	Mar. 26, 1971	5.01	44
11-3498.5. Johnson Creek tributary near Adin, Calif.								
61	Lat 41°18'28", long 120°58'43", in SE¼NE¼ sec. 14, T. 40 N., R. 9 E., at culvert on U.S. Highway 299, Modoc National Forest, 8.5 miles north of Adin.	.66	July 1962-	Crest-stage gage, July 26, 1962-	1963	Jan. 31, 1963	4.99	73
					1964	June 9, 1964	2.76	12
					1965	Dec. 22, 1964	5.40	86
					1966	April 1966	3.00	17
					1967	Jan. 31, 1967	3.91	37
					1968	Feb. 21, 1968	3.11	20
					1969	April 1969	3.31	24
					1970	Jan. 23, 1970	5.07	75
					1971	Mar. 26, 1971	3.88	39
11-3508.5. Willow Creek above Indian Springs, near Adin, Calif.								
62	Lat 40°59'43", long 120°48'20", in SW¼SE¼ sec. 34, T. 37 N., R. 10 E., at culvert on State Highway 139, Modoc National Forest, 16 miles southeast of Adin.	9.51	Aug. 1962-	Crest-stage gage, Aug. 9, 1962-	1963	Feb. 1, 1963	3.32	11
					1964	May 1964	3.10	8.2
					1965	April 1965	3.47	14
					1966	Jan. 4, 1966	2.8	4.7
					1967	June 18, 1967	4.79	48
					1968	Feb. 21, 1968	3.26	12
					1969	June 13, 1969	4.68	42
					1970	Jan. 23, 1970	3.90	24
					1971	Mar. 12, 1971	3.99	26
					11-3526.2. Pit River tributary No. 2 near Pittville, Calif.			
63	Lat 40°57'20", long 121°15'40", in NW¼SE¼ sec. 15, T. 36 N., R. 6 E., at culvert on county road between Pittville and Little Valley 8.8 miles southeast of Pittville.	.31	July 1962-	Crest-stage gage, July 25, 1962-	1963	Oct. 12, 1962	8.03	68
					1964	Jan. 20, 1964	4.08	8.0
					1965	Dec. 22, 1964	5.58	27
					1966	Dec. 31, 1965	3.94	7.1
					1967	Dec. 6, 1966	4.71	17
					1968	Feb. 22, 1968	4.44	13
					1969	April 1969	4.92	19
					1970			(m)
					1971			(m)

See footnotes at end of table.

HYDROLOGIC REGION III

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																										
					Water year	Date	Gage height (ft)	Discharge (cfs)																																							
11-3536. Dry Creek near Dana, Calif.																																															
64	Lat 41°08'21", long 121°38'24", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 38 N., R. 3 E., at culvert on State Highway 89, 4.5 miles northwest of Dana.	6.46	July 1962-	Crest-stage gage, July 24, 1962-	1963	Apr. 7, 1963	5.02	160																																							
					1964			(d)																																							
					1965	Dec. 22, 1964	10.69	702																																							
					1966	May 8, 1966	3.83	70																																							
					1967	May 9, 1967	3.68	63																																							
					1968	Feb. 23, 1968	3.20	30																																							
					1969	Apr. 22, 1969	3.64	60																																							
					1970	Jan. 23, 1970	9.37	557																																							
					1971	Mar. 26, 1971	4.37	111																																							
					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>2.80</td> <td>January</td> <td>-</td> <td>April</td> <td>1.25</td> <td>July</td> <td>0</td> </tr> <tr> <td>November</td> <td>-</td> <td>February</td> <td>0.42</td> <td>May</td> <td>2.49</td> <td>August</td> <td>0</td> </tr> <tr> <td>December</td> <td>-</td> <td>March</td> <td>6.63</td> <td>June</td> <td>1.04</td> <td>September</td> <td>1.97</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>-</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches							October	2.80	January	-	April	1.25	July	0	November	-	February	0.42	May	2.49	August	0	December	-	March	6.63	June	1.04	September	1.97	Total for water year, October 1, 1970-September 30, 1971		
Monthly and annual precipitation, in inches																																															
October	2.80	January	-	April	1.25	July	0																																								
November	-	February	0.42	May	2.49	August	0																																								
December	-	March	6.63	June	1.04	September	1.97																																								
Total for water year, October 1, 1970-September 30, 1971							-																																								
11-3551. Butte Creek tributary near Old Station, Calif.																																															
65	Lat 40°38'45", long 121°16'50", in SW $\frac{1}{4}$ sec. 11, T. 32 N., R. 6 E., at culvert on State Highway 44, Lassen National Forest, 8.2 miles east of Old Station.	5.15	July 1962-	Crest-stage gage, July 16, 1962-	1963	Jan. 31, 1963	2.40	7.4																																							
					1964			No flow																																							
					1965	Dec. 22, 1964	2.11	5.1																																							
					1966			No flow																																							
					1967	May 10, 1967	2.36	7.3																																							
					1968			No flow																																							
					1969	April 1969	2.23	6.2																																							
					1970	Jan. 23, 1970	3.88	20																																							
					1971	November 1970	1.72	2.5																																							
					11-3598. Cayton Creek tributary near Dana, Calif.																																										
66	Lat 41°03'11", long 121°38'20", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 37 N., R. 3 E., at culvert on State Highway 89, Shasta National Forest, 6 miles southwest of Dana.	.16	July 1962-	Crest-stage gage, July 23, 1962-	1963	Jan. 31, 1963	3.78	12																																							
					1964	Jan. 20, 1964	3.15	4.8																																							
					1965	Dec. 22, 1964	4.40	20																																							
					1966	Apr. 25, 1966	3.22	5.4																																							
					1967	Mar. 11, 1967	3.56	9.2																																							
					1968	Feb. 23, 1968	3.64	10																																							
					1969	Apr. 5, 1969	3.82	12																																							
					1970	Jan. 23, 1970	5.54	35																																							
					1971	Mar. 26, 1971	3.86	13																																							
					11-4887. Dry Lake tributary at Perez, Calif.																																										
67	Lat 41°40'20", long 121°15'25", in NE $\frac{1}{4}$ sec. 10, T. 44 N., R. 6 E., at culvert on State Highway 139, Modoc National Forest, 0.35 mile southwest of Perez.	1.74	Aug. 1962-	Crest-stage gage, Aug. 8, 1962-	1963	Oct. 12, 1962	6.50	128																																							
					1964	Mar. 18, 1964	2.81	17																																							
					1965	Jan. 24, 1965	4.99	88																																							
					1966	Mar. 10, 1966	3.37	34																																							
					1967	Mar. 17, 1967	5.01	88																																							
					1968	Feb. 22, 1968	4.81	82																																							
					1969	Feb. 25, 1969	4.10	60																																							
					1970	Jan. 23, 1970	6.62	164																																							
					1971	Jan. 17, 1971	5.09	91																																							

See footnote at end of table.

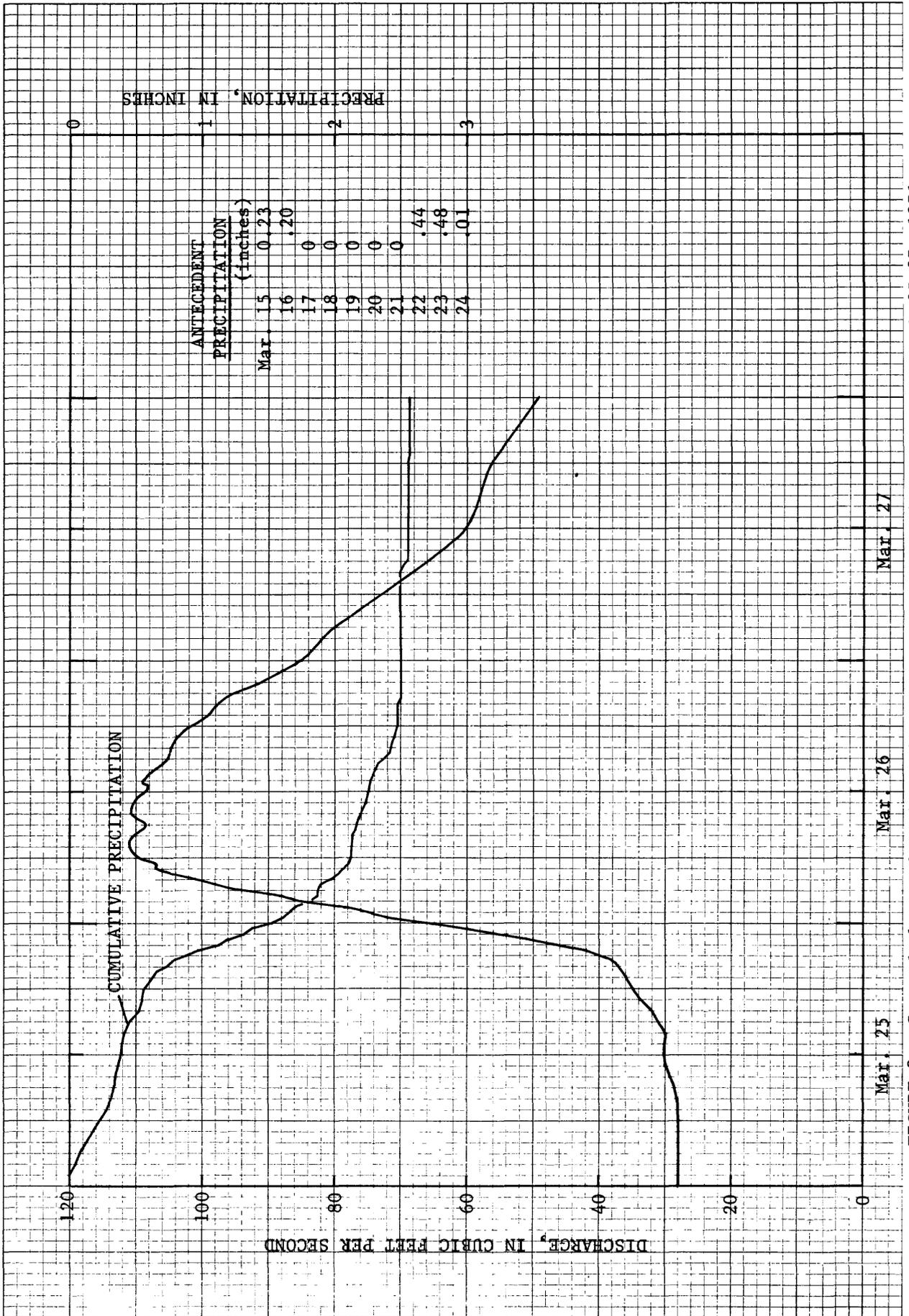


FIGURE 8.--Storm hydrograph and precipitation for Dry Creek near Dana, March 25-27, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-4893.5.		Horsethief Creek near Macdoel, Calif.						
68	Lat 41°41'15", long 122°03'10", in SW $\frac{1}{4}$ sec. 2, T. 44 N., R. 2 W., at culvert on U.S. Highway 97, Klamath National Forest, 10 miles southwest of Macdoel.	9.98	Aug. 1962-	Crest-stage gage, Aug. 7, 1962-	1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 31, 1963 April 1964 Dec. 22, 1964 March 1966 Mar. 11, 1967 Feb. 21, 1968 April 1969 Jan. 23, 1970 Jan. 18, 1971	5.29 3.92 8.35 3.56 4.02 3.53 4.92 4.92 4.42	78 27 635 32 40 28 76 76 45
11-3458.		South Fork Pit River tributary near Likely, Calif.						
70	Lat 41°13'51", long 120°27'35", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 39 N., R. 13 E., at culvert on Jess Valley road, 1.5 miles downstream from South Fork Pit River gaging station, and 2.1 miles east of of Likely.	1.59	Oct. 1964-	Crest-stage gage, Oct. 22, 1964- Water-stage recorder, Sept. 29, 1971-	1965 1966 1967 1968 1969 1970 1971	Dec. 28, 1964 Dec. 31, 1965 Jan. 29, 1967 Jan. 16, 1968 Jan. 20, 1969 Jan. 23, 1970 May 31, 1971	4.77 .91 4.21 1.53 (m) 5.00 4.71	158 2.1 32 6.0 205 256 128
10-3593.2.		Dow Creek near Susanville, Calif.						
71	Lat 40°43'36", long 120°48'25", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 33 N., R. 10 E., Lassen County, in Lassen National Forest, at culvert on Forest Service road 33 N 2, 22.8 miles north of Susanville.	1.49	Sept. 1969-	Crest-stage gage, Sept. 24, 1969- Sept. 30, 1970. <u>Note.</u> --See site 75, Pine Creek tributary near Susanville.	1970	Jan. 23, 1970		b3
10-3592.7.		Aspen Creek near Westwood, Calif.						
72	Lat 40°42'47", long 121°04'36", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 33 N., R. 8 E., Lassen County, in Lassen National Forest, at culvert on Forest Service road 34 N 28, 3.7 miles northwest of Harvey Valley Ranger Station, and 27.5 miles north of Westwood.	4.70	Sept. 1969-	Crest-stage gage, Sept. 24, 1969-	1970 1971	Jan. 23, 1970 May 28, 1971	1.95 2.32	6.3 11

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-3529.			Beaver Creek near Hat Creek, Calif.				
73	Lat 40°49'47", long 121°14'54", in NE¼NE¼ sec. 12, T. 34 N., R. 6 E., Lassen County, in Lassen National Forest, at culvert on Forest Service road 35 N 10, 13.6 miles east of Hat Creek, and 15 miles south of Pittville.	23.2	Oct. 1969	Crest-stage gage, Oct. 1, 1969-	1970 1971	Jan. 23, 1970 Mar. 26, 1971	5.89 4.19	349 195
				Water-stage recorder, Nov. 12, 1969-				

Monthly and annual precipitation, in inches							
October	0	January	6.45	April	-	July	0.09
November	.06	February	-	May	0.66	August	0
December	5.25	March	-	June	3.83	September	0
Total for water year, October 1, 1969-September 30, 1970							-

Monthly and annual precipitation, in inches							
October	1.50	January	-	April	-	July	0.29
November	4.57	February	0.32	May	2.64	August	0
December	-	March	-	June	2.35	September	0
Total for water year, October 1, 1970-September 30, 1971							-

	11-3554.			Bunchgrass Creek near Manzanita Lake, Calif.				
74	Lat 40°39'10", long 121°37'36", in NE¼SW¼ sec. 3, T. 32 N., R. 3 E., Shasta County, in Lassen National Forest, at culvert on Forest Service road 32 N 46, 8.7 miles northwest of town of Manzanita Lake.	.62	Oct. 1969-	Crest-stage gage, Oct. 2, 1969-	1970 1971	Jan. 23, 1970 May 27, 1971	5.87 5.31	80 66
	10-3592.9.			Pine Creek tributary near Susanville, Calif.				
75	Lat 40°43'44", long 120°52'44", in NW¼NW¼ sec. 17, T. 33 N., R. 10 E., Lassen County, in Lassen National Forest, at culvert on Forest Service road 35 N 5, 28 miles north of Susanville.	4.70	Oct. 1970 (low flow);	Crest-stage gage, Oct. 1, 1970-	1971	Mar. 26, 1971	5.20	89
		16.8	(extreme floodflow)					

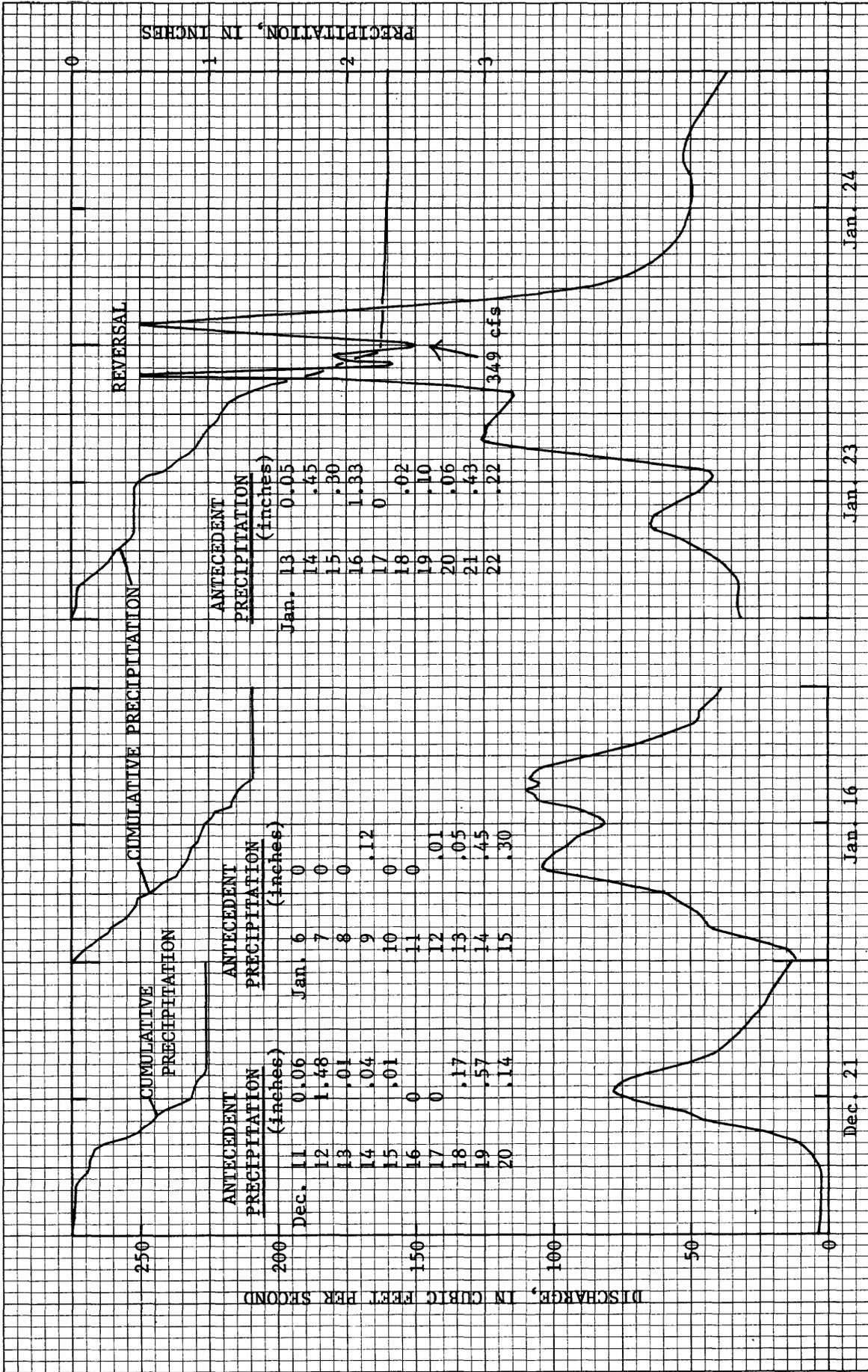


FIGURE 9.--Storm hydrographs and precipitation for Beaver Creek near Hat Creek, December 21, 1969, and January 16 and 23-24, 1970.

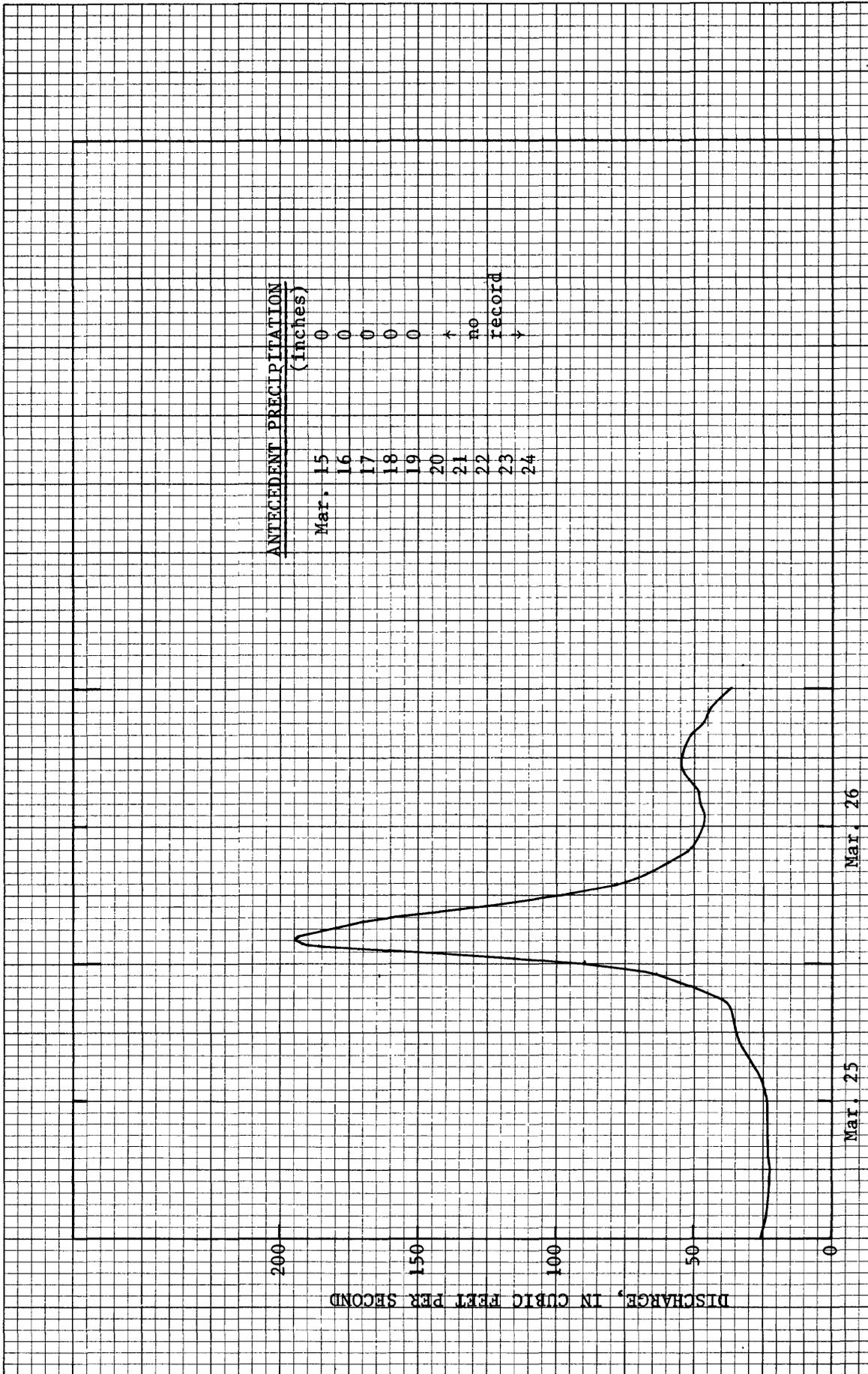


FIGURE 10.--Storm hydrograph for Beaver Creek near Hat Creek, March 25-26, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-4489.			Highland Creek above Highland Creek Dam, Calif.				
76	Lat 38°55'45", long 122°55'10", in NW¼SE¼ sec. 36, T. 13 N., R. 10 W., on left bank 100 ft downstream from Pipeline Creek, 1.7 miles upstream from Highland Creek Dam, and 5.7 miles southwest of Kelseyville.	11.9	Oct. 1962- 1954-62 near Kelseyville, Water-stage 0.7 mile recorder, downstream (drainage area, Sept. 30, 1966. 12.7 sq mi):	Crest-stage gage, Oct. 1, 1963- Water-stage recorder, Oct. 4, 1962- 1969 1970 1971	1963 1964 1965 1966 1967 1968 1969 1970 1971	Oct. 12, 1962 Jan. 20, 1964 Dec. 22, 1964 Jan. 4, 1966 Dec. 2, 1966 Jan. 29, 1968 Dec. 15, 1968 Jan. 23, 1970 Dec. 3, 1970	10.90 9.70 12.15 8.64 8.44 8.70 7.95 10.65 7.55	2,320 1,520 3,080 1,290 1,210 1,320 1,430 2,980 1,230
	11-4490.6.			Lyons Creek tributary near Lakeport, Calif.				
77	Lat 39°05'40", long 122°54'59", in NE¼ sec. 1, T. 14 N., R. 10 W., at culvert on Hill road, 3.3 miles north of Lakeport.	.16	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 31, 1963 Jan. 20, 1964 Jan. 7, 1965 Jan. 29, 1966 Dec. 4, 1966 Jan. 29, 1968 Dec. 10, 1968 Jan. 23, 1970 Jan. 16, 1971	12.08 11.34 13.17 11.56 11.48 11.36 11.54 12.08 11.80	30 19 44 22 21 19 22 30 26
	11-4515.3.			Phipps Creek near Lower Lake, Calif.				
78	Lat 38°59'51", long 122°33'16", T. 13 N., R. 6 W. (unsurveyed), at culvert on State Highway 20, 6.7 miles northeast of Lower Lake.	a3.10	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 31, 1963 Jan. 20, 1964 Jan. 5, 1965 Dec. 28, 1965 Jan. 21, 1967 Jan. 29, 1968 Dec. 10, 1968 Jan. 23, 1970 Dec. 3, 1970	12.95 11.08 14.47 18.83 13.41 14.10 14.39 15.42 12.56	99 25 180 310 123 155 173 233 84
	11-4707.			Alder Creek near Potter Valley, Calif.				
79	Lat 39°23'20", long 123°02'37", in NE¼ sec. 26, T. 18 N., R. 11 W., at culvert on Valley Lake-Pillsbury road 5.8 miles northeast of Potter Valley.	1.39	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 31, 1963 Jan. 20, 1964 Dec. 22, 1964 (d) (d) Jan. 30, 1968 Dec. 23, 1968 Jan. 23, 1970 Dec. 3, 1970	54.52 53.75 (d) (d) (d) g10.31 11.13 13.21 11.52	149 122 2,340 (d) (d) 42 140 250 140

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-4721.7.	Fulweiter Creek tributary near Willits, Calif.					
80	Lat 39°23'56", long 123°18'07", in SE½ sec. 21, T. 18 N., R. 13 W., at culvert on north-south county road 2.8 miles east of Willits.	0.71	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963 Oct. 12, 1962 1964 Nov. 22, 1963 1965 Dec. 22, 1964 1966 Jan. 4, 1966 1967 Jan. 21, 1967 1968 Jan. 30, 1968 1969 Dec. 23, 1968 1970 Jan. 23, 1970 1971 Mar. 25, 1971	54.85 53.97 (d) 54.53 53.90 53.92 53.95 56.67 54.05	99 85 184 102 83 83 84 165 88	
		11-4735.7.	Mill Creek tributary near Covelo, Calif.					
81	Lat 39°51'20", long 123°15'45", in NW¼ sec. 13, T. 23 N., R. 13 W., at culvert on Covelo-Zenia road 4.4 miles north of Covelo.	.26	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963 Jan. 31, 1963 1964 Jan. 20, 1964 1965 Dec. 22, 1964 1966 Jan. 4, 1966 1967 Dec. 4, 1966 1968 Jan. 14, 1968 1969 Dec. 23, 1968 1970 Jan. 26, 1970 1971 Dec. 3, 1970	11.80 11.22 14.80 13.89 11.21 10.79 12.02 12.07 12.12	25 17 85 64 17 11 28 29 30	
		11-4739.8.	Goforth Creek at Dos Rios, Calif.					
82	Lat 39°42'45", long 123°20'29", in NE½ sec. 6, T. 21 N., R. 13 W., at culvert on Dos Rios-Covelo road 0.7 mile southeast of Dos Rios.	3.83	Sept. 1962-	Crest-stage gage, Sept. 25, 1962- Water-stage recorder, Nov. 18, 1965-Sept. 30, 1968	1963 Jan. 31, 1963 1964 Jan. 20, 1964 1965 Dec. 22, 1964 1966 Jan. 4, 1966 1967 Mar. 16, 1967 1968 Dec. 4, 1967 1969 Dec. 10, 1968 1970 Dec. 12, 1969 1971 Dec. 3, 1970	15.66 14.50 36.00 18.00 14.75 14.45 14.87 12.52 16.42	483 355 2,340 810 400 346 410 190 600	
		11-4744.3.	Salt Creek tributary near Zenia, Calif.					
83	Lat 40°13'01", long 123°26'46", in SE½ sec. 12, T. 3 S., R. 6 E., at culvert on Zenia-Ruth road, Six Rivers National Forest, 2.5 miles east of Zenia.	.18	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963 Oct. 12, 1962 1964 Jan. 20, 1964 1965 Dec. 22, 1964 1966 Jan. 4, 1966 1967 Dec. 4, 1966 1968 Feb. 19, 1968 1969 Dec. 10, 1968 1970 (m) 1971 Jan. 16, 1971	51.66 51.28 (d) 51.30 51.14 51.31 51.11 (m) 51.55	8.8 6.6 200 11 8.6 12 8.1 (m) 16	

See footnotes at end of table.

HYDROLOGIC REGION IV

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-4745.7. Wilson Creek near Mina, Calif.								
84	Lat 40°00'17", long 123°23'21", in SE¼ sec. 21, T. 5 S., R. 7 E., at culvert on Covelo-Zenia road 3.2 miles northwest of Mina.	2.84	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963	Oct. 12, 1962	13.55	250
					1964	Jan. 20, 1964	13.08	227
					1965	Dec. 22, 1964	18.35	648
					1966	Jan. 4, 1966	14.25	315
					1967	Mar. 16, 1967	11.85	105
					1968	Jan. 14, 1968	11.59	a85
					1969	Dec. 23, 1968	13.10	210
					1970	Jan. 24, 1970	14.16	308
	1971	Jan. 16, 1971	13.85	280				
11-4756.9. Steep Creek near Laytonville, Calif.								
85	Lat 39°45'41", long 123°32'22", in center of sec. 16, T. 22 N., R. 15 W., at culvert on U.S. Highway 101, 6.0 miles northwest of Laytonville.	2.90	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963	Jan. 31, 1963	22.67	1,020
					1964	Nov. 22, 1963	14.82	226
					1965	Dec. 22, 1964	25.30	1,220
					1966	Jan. 4, 1966	17.55	530
					1967	Jan. 20, 1967	17.32	495
					1968	Jan. 9, 1968	16.98	460
					1969	Dec. 23, 1968	17.47	510
					1970	Jan. 26, 1970	17.80	540
	1971	Mar. 25, 1971	18.34	600				
11-4759. Squaw Creek near Garberville, Calif.								
86	Lat 40°06'28", long 123°41'52", in SE¼ sec. 14, T. 4 S., R. 4 E., at culvert on Garberville-Alderpoint road, 5.2 miles east of Garberville.	.26	Oct. 1964-	Crest-stage gage, Oct. 12, 1964-	1964	Jan. 20, 1964	(d)	124
					1965	Dec. 22, 1964	53.80	87
					1966	Dec. 29, 1965	51.72	22
					1967	Dec. 4, 1966	52.62	48
					1968	Jan. 14, 1968	51.93	28
					1969	Dec. 23, 1968	51.96	28
					1970	Jan. 22, 1970	52.25	33
					1971	Jan. 16, 1971	51.77	23
11-4778.7. Little Larabee Creek tributary near Bridgeville, Calif.								
87	Lat 40°28'44", long 123°43'19", in NE¼ sec. 9, T. 1 N., R. 4 E., at culvert on State Highway 36, 4.0 miles east of Bridgeville.	.39	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963	Oct. 12, 1962	52.38	28
					1964	Jan. 20, 1964	52.70	33
					1965	Dec. 22, 1964	55.80	126
					1966	Jan. 4, 1966	53.20	36
					1967	Dec. 4, 1966	52.81	45
					1968	Jan. 15, 1968	52.08	31
					1969	Jan. 20, 1969	52.71	50
					1970	(m)	(m)	(m)
1971	Jan. 16, 1971	52.40	40					

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-4784.			Van Duzen River tributary near Bridgeville, Calif.				
88	Lat 40°28'28", long 123°52'56", in SW¼ sec. 7, T. 1 N., R. 3 E., at culvert on State Highway 36, 4.5 miles west of Bridgeville.	0.71	Sept. 1962-	Crest-stage gage, Sept. 25, 1962-	1963	Oct. 12, 1962	53.55	56
					1964	Jan. 20, 1964	52.88	41
					1965	Dec. 22, 1964	56.74	120
					1966	Jan. 4, 1966	53.49	56
				Water-stage recorder, Oct. 25, 1968-	1967	Dec. 4, 1966	53.64	60
					1968	Jan. 15, 1968	52.03	24
					1969	Jan. 20, 1969	54.18	68
					1970	Jan. 23, 1970	52.48	36
					1971	Jan. 15, 1971	53.16	48

Monthly and annual precipitation, in inches							
October	0.09	January	8.15	April	3.18	July	0.05
November	7.37	February	4.30	May	1.22	August	.66
December	12.2	March	9.57	June	.63	September	2.41
Total for water year, October 1, 1970-September 30, 1971							49.83

	11-4727.			Hammerhorn Creek near Covelo, Calif.				
89	Lat 39°56'42", long 122°59'50", in SW¼SW¼ sec. 8, T. 24 N., R. 10 W., Mendocino County, in Mendocino National Forest, at culvert on Six Rivers-Clear Lake road 17 miles northeast of Covelo.	3.36	Oct. 1969-	Crest-stage gage, Oct. 1, 1969	1970	Jan. 23, 1970	57.71	720
					1971	Jan. 15, 1971	54.89	310

	11-4696.			Hull Creek near Potter Valley, Calif.				
90	Lat 39°32'39", long 122°55'34", in NW¼SE¼ sec. 35, T. 20 N., R. 10 W., Mendocino County, in Mendocino National Forest, at culvert on Hull Creek road 18 miles northeast of Potter Valley.	1.49	Sept. 1969-	Crest-stage gage, Sept. 23, 1969-	1970	Dec. 20, 1969	56.23	500
					1971	Jan. 15, 1971	55.57	400

	11-4698.			Cold Creek tributary near Elk Creek, Calif.				
91	Lat 39°26'18", long 122°45'35", Lake County, in Mendocino National Forest, at culvert on Pacific Crest road, 4 miles upstream from mouth, and 16.5 miles southwest of town of Elk Creek.	.81	Sept. 1969-	Crest-stage gage, Sept. 25, 1969-	1970	Jan. 23, 1970	10.78	a256
					1971	Dec. 4, 1970	3.42	85
				Water-stage recorder, Sept 25, 1969-				

Monthly and annual precipitation, in inches							
October	2.74	January	-	April	2.86	July	0
November	11.90	February	-	May	1.22	August	.30
December	-	March	12.33	June	.12	September	1.36
Total for water year, October 1, 1970-September 30, 1971							-

See footnote at end of table.

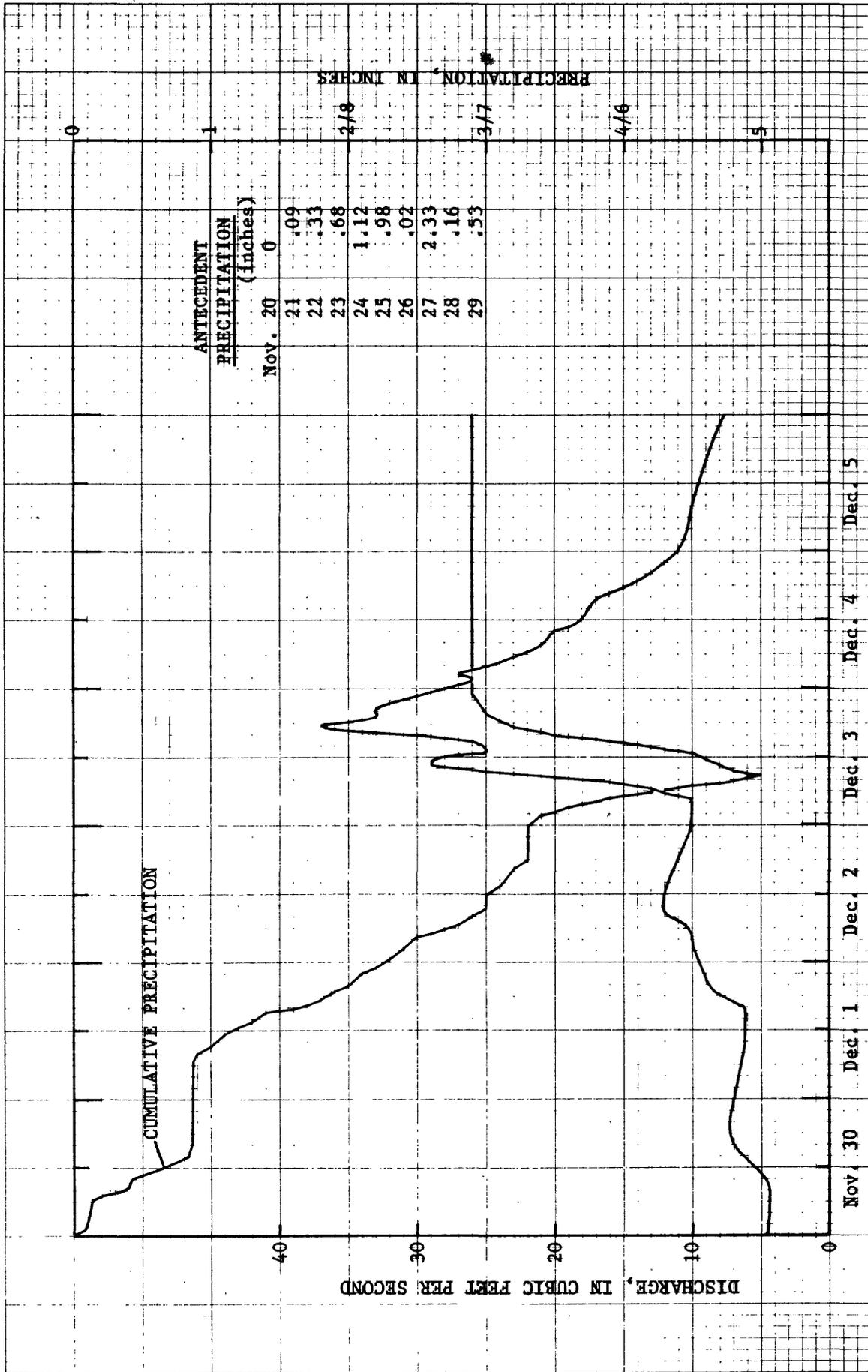


FIGURE 11.--Storm hydrograph and precipitation for Van Duzen River tributary near Bridgeville, November 30-December 5, 1970.

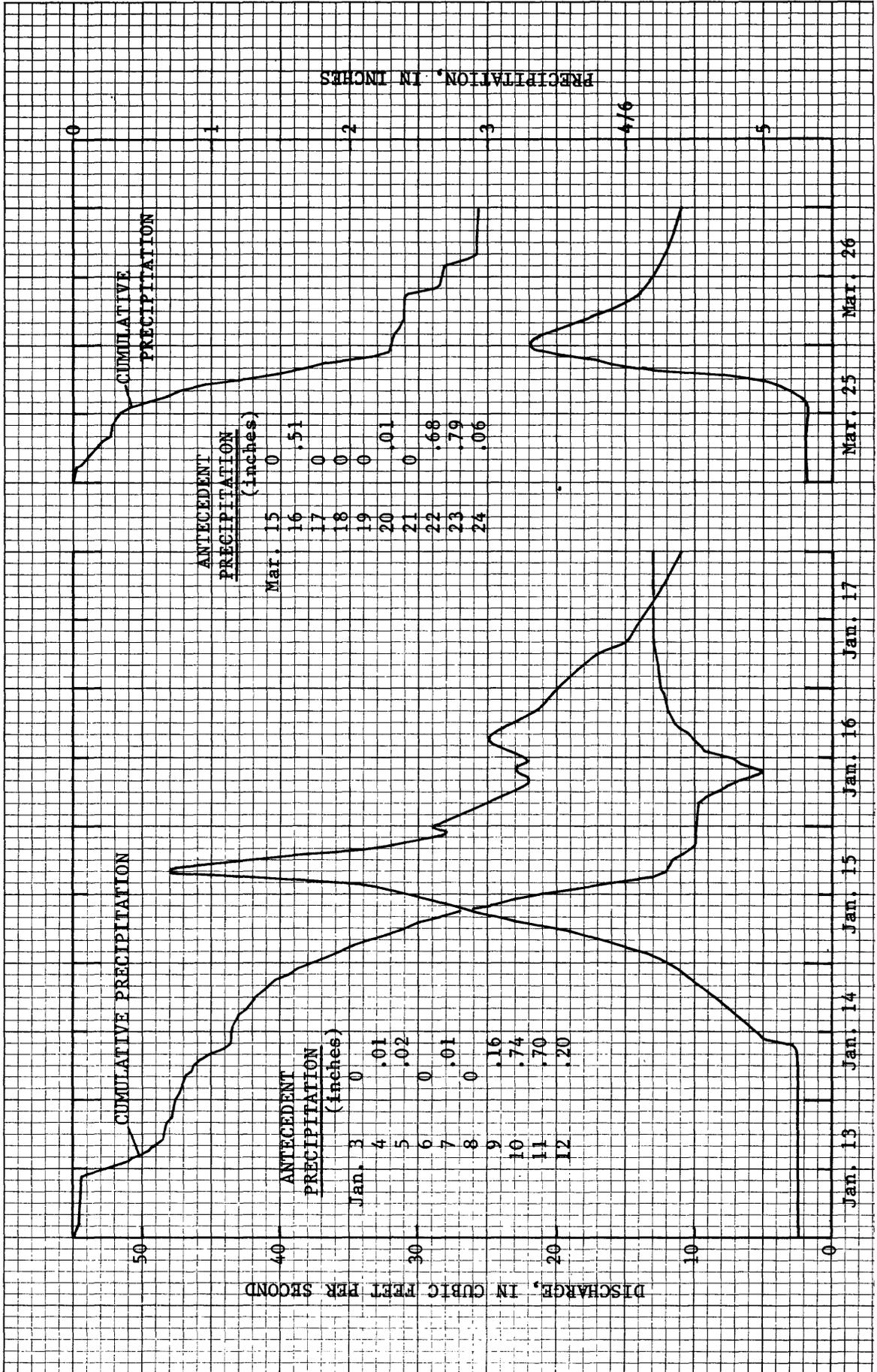


FIGURE 12.--Storm hydrographs and precipitation for Van Duzen River tributary near Bridgeville, January 13-17 and March 25-26, 1971.

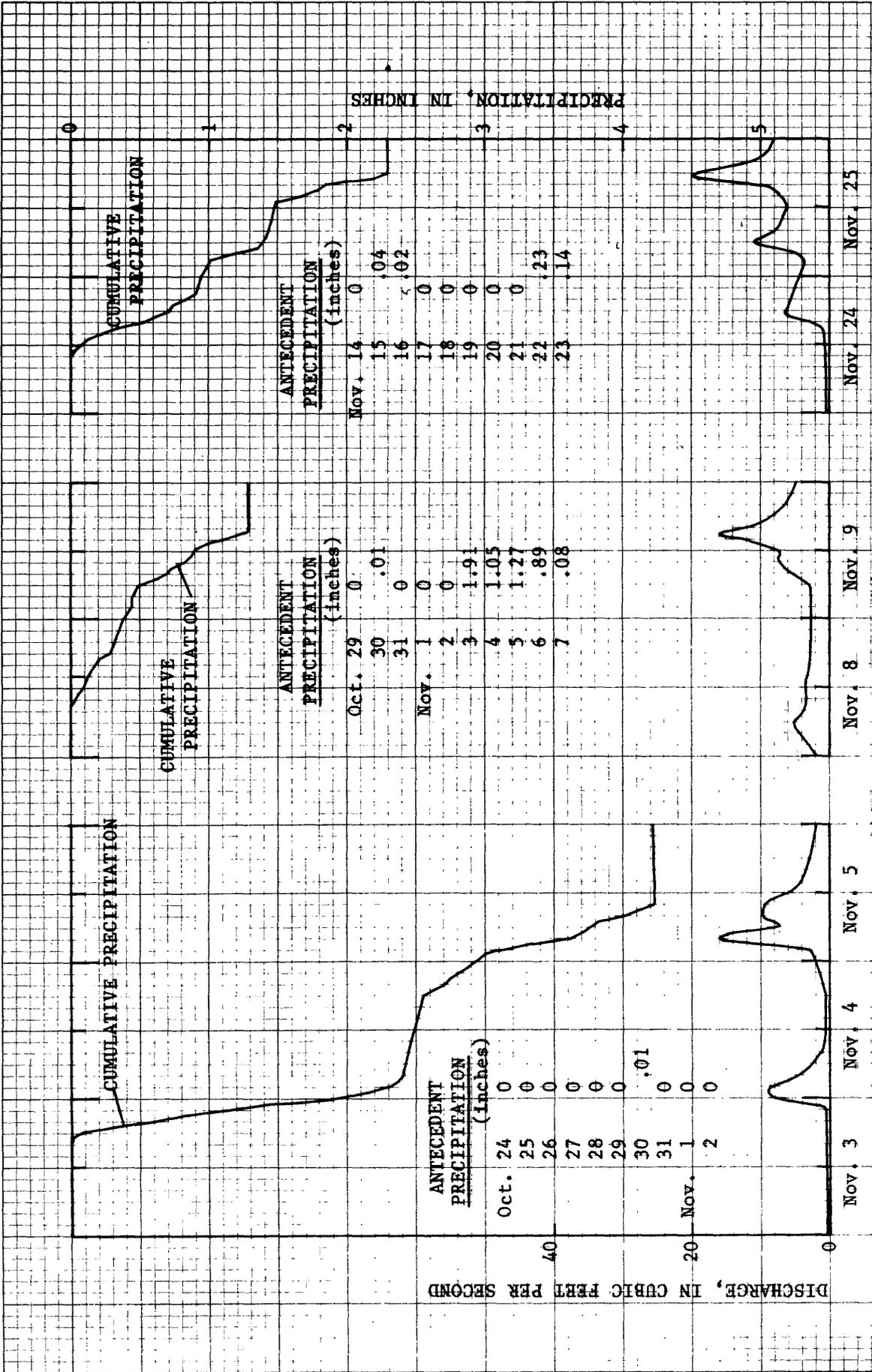


FIGURE 13.--Storm hydrographs and precipitation for Cold Creek tributary near Elk Creek, November 3-5, 8-9, and 24-25, 1970.

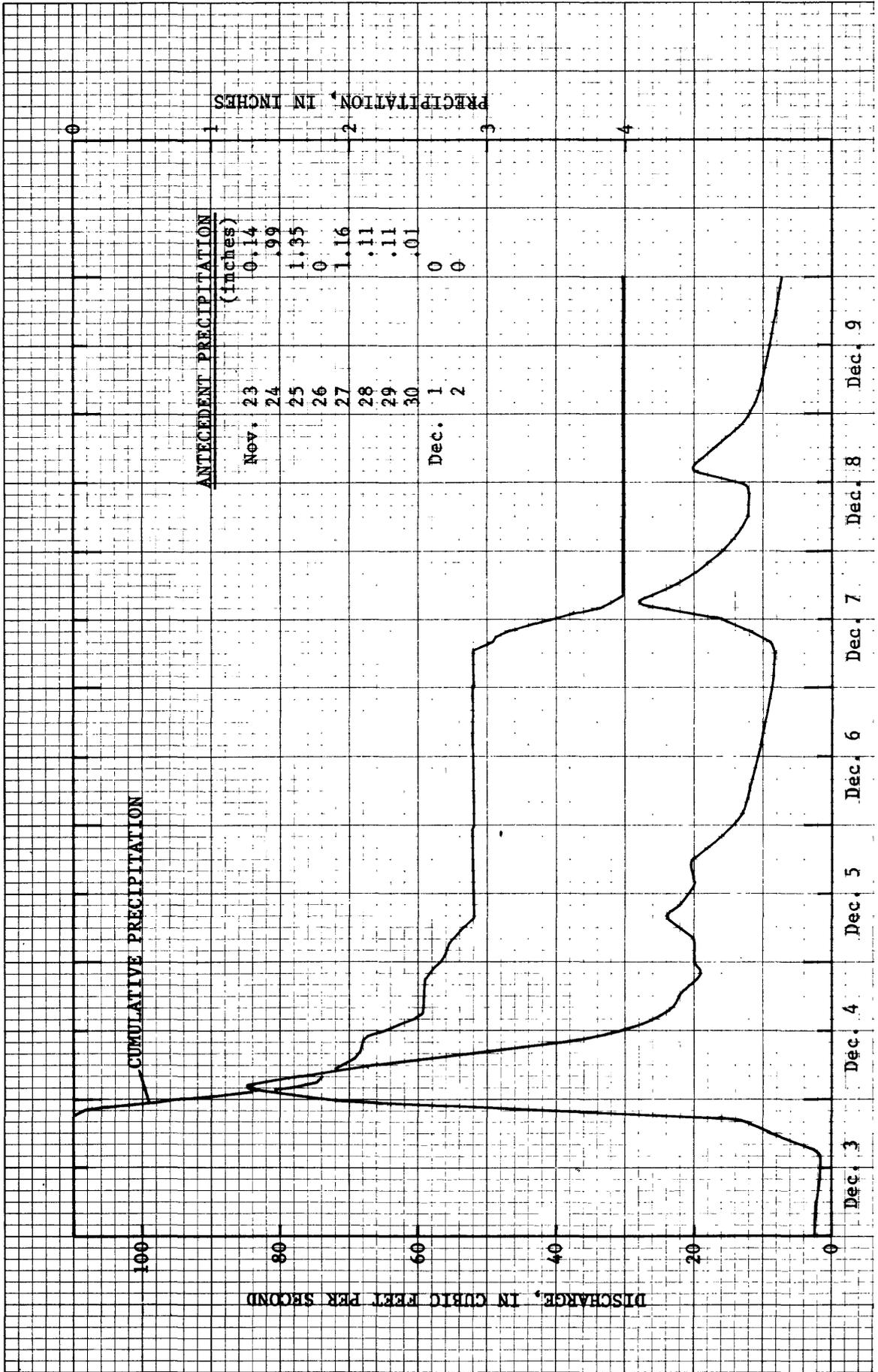


FIGURE 14.--Storm hydrograph and precipitation for Cold Creek tributary near Elk Creek, December 3-9, 1970.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-4696.5.		Corbin Creek near Elk Creek, Calif.				
92	Lat 39°32'56", long 122°43'28", in NW 1/4 sec. 35, T. 20 N., R. 8 W., Glenn County, in Mendocino National Forest, at culvert on Elk Creek-Potter Valley road, 11 miles southwest of town of Elk Creek.	6.18	Sept. 1970-	Crest-stage gage, Sept. 4, 1970-	1971	Mar. 25, 1971	55.16	(c)

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-2602.1.	Bear Creek tributary near Catheys Valley, Calif.					
101	Lat 37°26'45", long 120°06'05", in NW¼NW¼ sec. 3, T. 6 S., R. 17 E., at culvert on county road 1 mile north of Catheys Valley.	a1.23	Aug. 1959-	Crest-stage gage, Aug. 12, 1959-	1960	Feb. 8, 1960	22.6	61
					1961	Dec. 1, 1960	20.33	3.4
					1962	Feb. 5, 1962	22.64	63
					1963	Feb. 1, 1963	22.17	44
					1964	Mar. 24, 1964	20.41	3.2
					1965	Jan. 6, 1965	26.04	162
					1966	Dec. 29, 1965	21.68	27
					1967	Mar. 11, 1967	22.56	59
					1968	Feb. 20, 1968	20.56	8.5
					1969	Jan. 21, 1969	28.72	820
					1970	Mar. 1, 1970	22.32	50
					1971	Dec. 21, 1970	20.82	7.6
		11-2713.	Hayward Creek near La Grange, Calif.					
102	Lat 37°38'30", long 120°22'40", in NW¼SE¼ sec. 25, T. 3 S., R. 14 E., at culvert on State Highway 132, 4.9 miles southeast of La Grange.	a3.88	Aug. 1959-	Crest-stage gage, Aug. 12, 1959-	1960	Feb. 2, 1960	12.69	140
					1961	Mar. 15, 1961	10.44	8.5
					1962	Mar. 5, 1962	14.95	502
					1963	Feb. 1, 1963	15.00	520
					1964	Nov. 20, 1963	13.22	178
					1965	Dec. 23, 1964	15.23	661
					1966	Nov. 23, 1965	15.70	1,040
					1967	Apr. 7, 1967	15.43	817
					1968	Mar. 8, 1968	14.47	304
					1969	Jan. 21, 1969	17.12	2,230
					1970	Jan. 14, 1970	14.88	447
					1971	Dec. 16, 1970	13.38	190
		11-3114.	Bear Creek tributary near Valley Springs, Calif.					
103	Lat 38°11'10", long 120°50'45", in SE¼NW¼ sec. 23, T. 4 N., R. 10 E., at culvert on State Highway 12, 1.3 miles southwest of Valley Springs.	.15	Aug. 1959-	Crest-stage gage, Aug. 19, 1959-	1960	Mar. 17, 1960	21.22	12
					1961	Mar. 17, 1961	20.74	3.9
					1962	Feb. 15, 1962	20.90	6.3
					1963	Feb. 1, 1963	22.20	34
					1964	Apr. 1, 1964	20.36	.7
					1965	Dec. 22, 1964	21.14	10
					1966	Jan. 30, 1966	20.68	3.4
					1967	Jan. 21, 1967	21.11	9.8
					1968	Jan. 31, 1968	20.85	5.6
					1969	Feb. 15, 1969	21.33	14
					1970	Jan. 21, 1970	20.86	5.7
					1971	Nov. 29, 1970	20.83	5.3
		11-3278.	Clay Creek near Ione, Calif.					
104	Lat 38°19'05", long 120°56'20", in Arroyo Seco Land Grant, at culvert on State Highway 88, 2.3 miles south of Ione.	3.30	Aug. 1959-	Crest-stage gage, Aug. 19, 1959-	1960	Feb. 8, 1960	20.36	b7.5
					1961	Mar. 15, 1961	20.28	6.5
					1962	Feb. 15, 1962	22.55	69
					1963	Feb. 1, 1963	22.68	75
					1964	Jan. 21, 1964	21.97	42
					1965	Jan. 5, 1965	29.87	432
					1966	Feb. 6, 1966	21.33	26
					1967	Jan. 21, 1967	27.41	327
					1968	Jan. 31, 1968	23.02	85
					1969	Jan. 25, 1969	24.90	145
					1970	Jan. 21, 1970	24.56	122
					1971	Dec. 4, 1970	23.97	72

See footnotes at end of table.

HYDROLOGIC REGION V

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-3847.	Gilmore Creek near Lodoga, Calif.					
105	Lat 39°18'40", long 122°31'40", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T. 17 N., R. 6 W., at culvert on county road 2.3 miles northwest of Lodoga.	0.49	Aug. 1959-	Crest-stage gage, Aug. 14, 1959-	1960	Feb. 8, 1960	21.84	13
					1961	Dec. 1, 1960	21.95	15
					1962	Feb. 14, 1962	22.74	43
					1963	Jan. 31, 1963	23.12	53
					1964	Jan. 20, 1964	21.19	5.8
					1965	Jan. 6, 1965	22.52	33
					1966	Jan. 4, 1966	22.06	18
					1967	Jan. 24, 1967	22.08	18
					1968	Jan. 30, 1968	22.41	28
					1969	Feb. 15, 1969	21.99	20
					1970			(m)
					1971			(m)
		11-3864.	Grindstone Creek tributary near Elk Creek, Calif.					
106	Lat 39°39'25", long 122°35'40", in SE $\frac{1}{4}$ sec. 24, T. 21 N., R. 7 W., at culvert on county road, Mendocino National Forest, 4.6 miles northwest of Elk Creek.	a.77	Aug. 1959-	Crest-stage gage, Aug. 11, 1959-	1960	Feb. 8, 1960	16.11	b2.4
					1961	Sept. 16, 1961	21.75	85
					1962	Feb. 15, 1962	17.02	23
					1963	Apr. 14, 1963	17.06	18
					1964	Nov. 23, 1963	16.01	1.8
					1965	Jan. 6, 1965	18.44	47
					1966	Jan. 4, 1966	16.83	19
					1967	Jan. 24, 1967	16.50	12
					1968	Jan. 15, 1968	16.63	14
					1969	Feb. 15, 1969	16.83	19
					1970	Jan. 23, 1970	18.18	42
					1971	Nov. 28, 1971	16.76	17
		11-3879.	Masterson Hollow Creek near Newville, Calif.					
107	Lat 39°47'55", long 122°25'50", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 22 N., R. 5 W., at culvert on county road 5.1 miles east of Newville.	a.96	Aug. 1959-	Crest-stage gage, Sept. 1964. Aug. 11, 1959-	1960	Feb. 8, 1960	11.20	b6
					1961	Feb. 2, 1961	12.84	30
					1962	Feb. 15, 1962	12.72	28
					1963	Feb. 9, 1963	12.35	22
					1964			No flow
		11-3906.8.	Salt Creek near Williams, Calif.					
108	Lat 39°06'30", long 122°18'20", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 15 N., R. 4 W., at culvert on State Highway 20, 9.2 miles southwest of Williams.	a13.0	Aug. 1959-	Crest-stage gage, Aug. 13, 1959-	1960	Feb. 8, 1960	20.81	74
					1961	Jan. 31, 1961	20.52	75
					1962	Feb. 14, 1962	23.88	427
					1963	Jan. 31, 1963	22.75	308
					1964	Jan. 20, 1964	21.48	136
					1965	Jan. 5, 1965	26.43	809
					1966	Jan. 4, 1966	21.41	156
					1967	Jan. 21, 1967	23.65	437
					1968	Jan. 30, 1968	25.62	723
					1969	Feb. 14, 1969	24.27	557
					1970	Jan. 23, 1970	25.28	684
					1971	Nov. 29, 1970	21.77	195

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-3902. Gold Run tributary near Nelson, Calif.								
109	Lat 39°35'21", long 121°41'15", on west line sec. 18, T. 20 N., R. 3 E., at culvert on U.S. Highway 99E, 4.8 miles northeast of Nelson.	1.31	Sept. 1959-	Crest-stage gage, Sept. 10, 1959-	1960 Mar. 7, 1960 1961 Jan. 31, 1961 1962 Feb. 15, 1962 1963 Feb. 13, 1963 Water-stage recorder, 1964 Jan. 20, 1964 Nov. 18, 1959- Oct. 30, 1961. 1965 Jan. 6, 1965 1966 Jan. 5, 1966 1967 Jan. 21, 1967 1968 Mar. 13, 1968 1969 Jan. 13, 1969 1970 1971 Nov. 28, 1970	3.88 4.05 3.53 5.79 4.93 5.40 3.34 4.40 3.27 6.48 2.76	110 118 74 205 162 186 73 136 82 253 (m) 52	
11-4074. Wyman Ravine tributary near Palermo, Calif.								
110	Lat 39°22'57", long 121°34'43", in SE¼ sec. 25, T. 18 N., R. 3 E., at culvert on county road 4.1 miles southwest of Palermo.	1.72	Aug. 1959-	Crest-stage gage, Aug. 14, 1959-	1960 Mar. 7, 1960 1961 Feb. 9, 1961 1962 Feb. 15, 1962 1963 Oct. 13, 1962 1964 Jan. 20, 1964 1965 Jan. 5, 1965 1966 Jan. 5, 1966 1967 Jan. 22, 1967 1968 Feb. 20, 1968 1969 Jan. 13, 1969 1970 1971 Jan. 14, 1971	10.26 10.10 11.02 13.70 11.62 11.14 10.43 13.15 10.53 13.12 13.08	22 16 44 260 62 50 20 90 20 107 (m) 80	
11-4246. Wellman Creek near Smartville, Calif.								
111	Lat 39°11'37", long 121°20'23", in SW¼SE¼ sec. 31, T. 16 N., R. 6 E., at culvert on Beale Air Force Base road 2.3 miles southwest of Smartville.	.59	Sept. 1959-	Crest-stage gage, Sept. 10, 1959-	1960 Feb. 8, 1960 1961 Feb. 9, 1961 1962 Feb. 9 or 10, 1962 Water-stage recorder, 1963 Oct. 13, 1962 1964 Jan. 20, 1964 July 20, 1967- Sept. 30, 1971. 1965 Dec. 22, 1964 1966 May 9, 1966 1967 Jan. 21, 1967 1968 Feb. 21, 1968 1969 Jan. 26, 1969 1970 Jan. 14, 1970 1971 Dec. 1, 1970	12.35 12.65 13.94 14.56 15.66 13.75 110.55 14.53 13.38 15.22 14.46 15.31	52 60 131 211 467 67 70 206 93 323 179 348	
Monthly and annual precipitation, in inches								
October	1.3	January	1.9	April	0.9	July	0	
November	7.6	February	.1	May	.9	August	0	
December	8.8	March	4.7	June	.3	September	0	
Total for water year, October 1, 1970-September 30, 1971								26.5
11-4517. Bear Creek tributary near Wilbur Springs, Calif.								
112	Lat 39°00'45", long 122°21'30", in SE¼ sec. 36, T. 14 N., R. 5 W., at culvert on State Highway 20, 3.8 miles southeast of Wilbur Springs.	a4.49	Aug. 1959-	Crest-stage gage, Aug. 13, 1959-	1960 Feb. 8, 1960 1961 Feb. 7, 1961 1962 Feb. 14, 1962 1963 Jan. 30, 1963 Water-stage recorder, 1964 Jan. 20, 1964 1965 Jan. 5, 1965 Oct. 13, 1961- Sept. 17, 1963. 1966 Feb. 3, 1966 1967 Jan. 21, 1967 1968 Jan. 30, 1968 1969 Feb. 25, 1969 1970 1971 Nov. 29, 1970	23.42 24.10 27.92 27.54 24.20 29 22.96 25.20 25.61 26.65 25.13	111 149 355 357 157 531 93 217 466 312 (m) 213	

See footnotes at end of table.

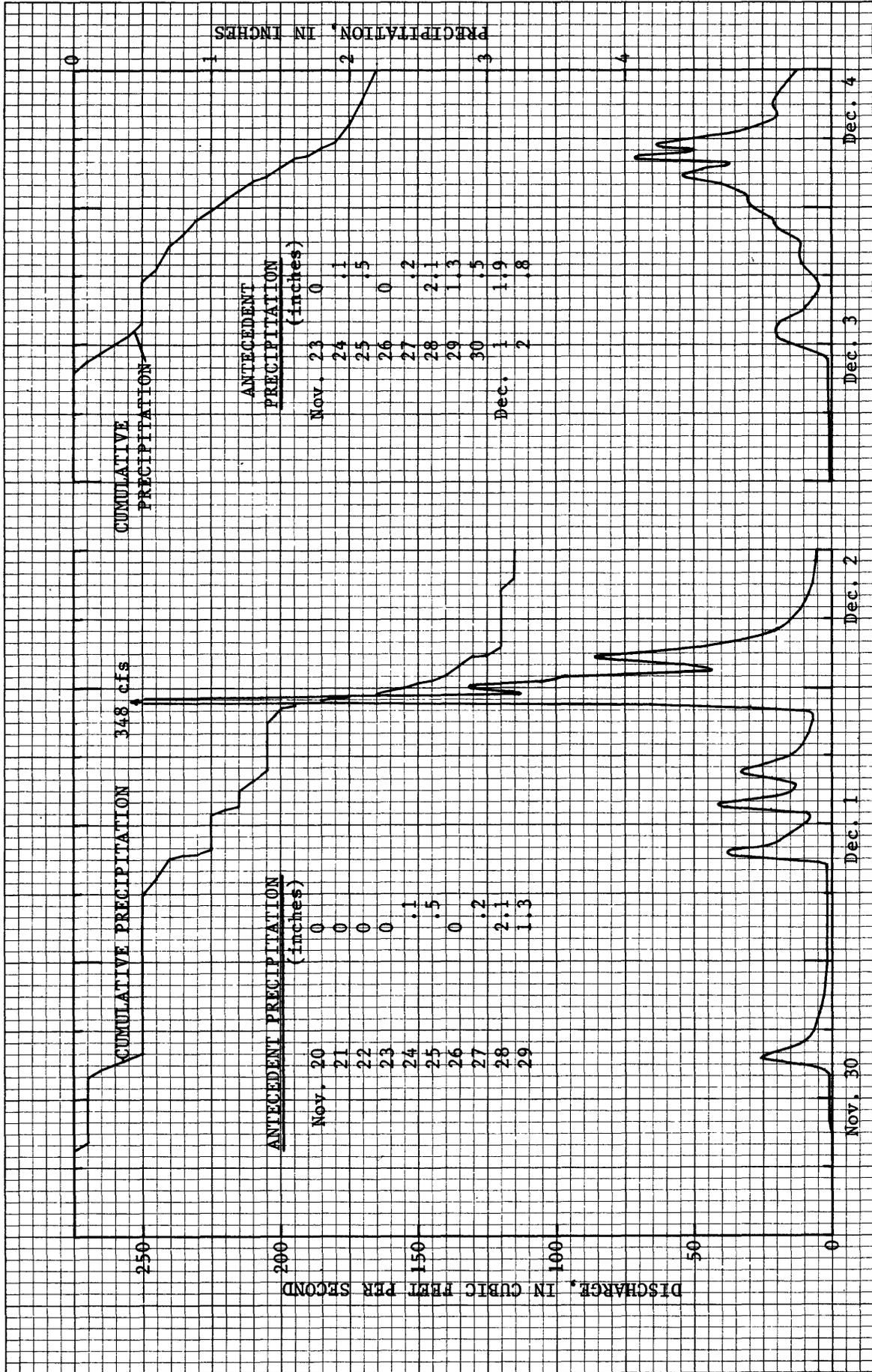


FIGURE 15.--Storm hydrographs and precipitation for Wellman Creek near Smartville, November 30-December 2 and December 3-4, 1970.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-4473.	Dry Creek tributary near Roseville, Calif.					
113	Lat 38°43'44", long 121°21'08", in NW¼NW¼ sec. 17, T. 10 N., R. 6 E., on left bank 5 ft upstream from culvert on county road 3.7 miles southwest of Roseville.	0.39	Sept. 1959-	Crest-stage gage, Sept. 11, 1959-	1960 Feb. 8, 1960	13.64	29	
					1961 Jan. 31, 1961	13.75	31	
					1962 Feb. 9, 1962	17.00	220	
					1963 Oct. 13, 1962	15.28	71	
				Water-stage recorder, Sept. 18, 1963-	1964 Jan. 20, 1964	15.35	76	
					1965 Dec. 22, 1964	14.38	48	
				July 19, 1967.	1966 Jan. 29, 1966	13.59	29	
					1967 Jan. 21, 1967	14.70	56	
					1968 Mar. 12, 1968	13.49	27	
					1969 Jan. 26; 1969	14.86	61	
					1970 Jan. 14, 1970	14.55	52	
					1971 Nov. 28, 1970	14.24	44	
		11-4540.2.	Putah Creek tributary No. 2 near Winters, Calif.					
114	Lat 38°30'30", long 122°02'30", in NE¼SE¼ sec. 26, T. 8 N., R. 2 W., at culvert on State Highway 128, 4.1 miles southwest of Winters.	.050	Aug. 1959-	Crest-stage gage, Sept. 13, 1959-	1960 Feb. 1, 1960	20.75	b2	
			Sept. 1964.	Sept. 30, 1964.	1961 Jan. 31, 1961	20.74	b2	
					1962 Feb. 9, 1962	21.60	7.2	
					1963 Feb. 1, 1963	21.49	6.3	
					1964 Jan. 20, 1964	21.24	4.6	
		11-4538.	Wragg Creek near Winters, Calif.					
115	Lat 38°25'52", long 122°09'28", in NW¼NE¼ sec. 26, T. 7 N., R. 3 W., at culvert on State Highway 128, 12 miles southwest of Winters.	.66	Nov. 1964-	Crest-stage gage, Nov. 24, 1964-	1965 Jan. 5, 1965	6.78	169	
					1966 Jan. 4, 1966	5.45	100	
					1967 Jan. 21, 1967	7.77	221	
					1968 Jan. 15, 1968	5.26	91	
					1969 Jan. 25, 1969	8.54	271	
					1970 Jan. 14, 1970	7.43	202	
					1971 Nov. 28, 1970	5.54	105	
		11-3864.5.	Watson Creek tributary near Newville, Calif.					
116	Lat 39°43'05", long 122°32'55", on line between secs. 32 and 33, T. 22 N., R. 6 W., at culvert on county road, 5.3 miles southwest of Newville.	a.52	Sept. 1965-	Crest-stage gage, Sept. 20, 1965-	1965 Jan. 5, 1965	13.90	j116	
					1966 Jan. 4, 1966	11.94	40	
					1967 Dec. 6, 1966	12.49	60	
					1968 Jan. 15, 1968	12.44	57	
					1969 Jan. 13, 1969	12.52	60	
					1970 Jan. 23, 1970	13.13	83	
					1971 Nov. 28, 1970	13.72	108	

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-3863. Kill Dry Creek near Alder Springs, Calif.								
117	Lat 39°45'10", long 122°49'53", in NW¼NE¼ sec. 24, T. 22 N., R. 9 W., Glenn County, in Mendocino National Forest, at culvert on Forest Service road 24 N 2, 3.4 miles upstream from Grindstone Creek, and 8.8 miles northwest of Alder Springs.	al.84	Nov. 1969-	Crest-stage gage,	1970	Jan. 23, 1970	17.86	242
				Nov. 13, 1969-	1971	Jan. 15, 1971	16.40	100
11-3862. South Fork Elk Creek near Elk Creek, Calif.								
118	Lat 39°35'13", long 122°35'40" in NW¼SE¼ sec. 13, T. 20 N., R. 7 W., Glenn County, at culvert on Forest Service road 20 N 1, 1.0 mile upstream from confluence with North Fork Elk Creek and 3.2 miles southwest of Elk Creek.	10.6	Nov. 1969-	Crest-stage gage,	1970	Jan. 23, 1970	23.51	311
				Nov. 12, 1969-	1971	Jan. 15, 1971	20.52	74
11-3844. South Fork Stony Creek near Stonyford, Calif.								
119	Lat 39°17'46", long 122°45'07", in NW¼SW¼ sec. 27, T. 17 N., R. 8 W., Colusa County, in Mendocino National Forest, at culvert on Forest Service road 18 N 1, 12.5 miles southwest of Stonyford.	2.52	Oct. 1969-	Crest-stage gage,	1970	Jan. 23, 1970	28.23	553
				Oct. 17, 1969-	1971	March 1971	25.24	257

See footnote at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-2677.	Strawberry Creek near Wawona, Calif.					
126	Lat 37°38'10", long 119°40'55", in NW¼ sec. 33, T. 3 S., R. 21 E., at culvert on State Highway 41, Yosemite National Park, 7.0 miles north of Wawona.	1.05	July 1962-	Crest-stage gage, July 16, 1962-	1963	Feb. 1, 1963	22.57	34
					1964	May 1964	19.87	3.9
					1965	Dec. 23, 1964	23.87	46
					1966	Nov. 17, 1965	20.09	6.5
					1967	May 1967	21.56	25
					1968	Dec. 5, 1967	20.24	8.3
					1969	May 1969	23.65	44
					1970	Jan. 16, 1970	20.54	12
					1971	May 12, 1971	20.54	12
		11-2693.5.	North Fork Blacks Creek near Coulterville, Calif.					
127	Lat 37°44'10", long 120°13'30", in NE¼ sec. 29, T. 2 S., R. 16 E., at culvert on State Highway 49, 2.4 miles northwest of Coulterville.	a2.27	July 1962-	Crest-stage gage, July 19, 1962- Sept. 30, 1969.	1963	Jan. 31, 1963	6.85	472
					1964	Jan. 22, 1964	3.01	11
					1965	Jan. 6, 1965	6.12	203
					1966	Nov. 23, 1965	6.27	248
					1967	Mar. 12, 1967	6.56	375
					1968	Mar. 8, 1968	4.03	41
					1969	Jan. 21, 1969	(m)	806
		11-2848.	Sugarpine Creek at Long Barn, Calif.					
128	Lat 38°05'45", long 120°07'22", in SE¼SE¼ sec. 20, T. 3 N., R. 17 E., at culvert on frontage road southeast of State Highway 108, Stanislaus National Forest, 0.7 mile northeast of Long Barn.	1.38	Sept. 1962-	Crest-stage gage, Sept. 6, 1962-	1963	Feb. 1, 1963	k6.43	95
					1964	Nov. 14, 1963	j10.82	107
					1965	Dec. 24, 1964	11.45	139
					1966	Nov. 24, 1965	9.19	44
					1967	Dec. 6, 1966	10.07	77
					1968	Feb. 20, 1968	8.84	32
					1969	Jan. 21, 1969	10.05	76
					1970	Jan. 16, 1970	10.51	97
					1971	Jan. 17, 1971	9.65	60
		11-2863.	Curtis Creek tributary near Standard, Calif.					
129	Lat 37°59'05", long 120°18'06", in SW¼NW¼ sec. 35, T. 2 N., R. 15 E., at culvert on State Highway 108, 1.3 miles northeast of Standard.	.26	July 1962-	Crest-stage gage, July 26, 1962-	1963	Feb. 1, 1963	17.51	36
					1964	Nov. 20, 1963	15.94	7.4
					1965	Dec. 23, 1964	18.08	52
					1966	Nov. 23, 1965	17.05	29
					1967	January 1967	17.06	29
					1968	Feb. 20, 1968	16.23	13
					1969	Jan. 21, 1969	19.36	85
					1970	Dec. 21, 1969	16.58	20
					1971	Jan. 17, 1971	16.11	11

See footnotes at end of table.

HYDROLOGIC REGION VI

Site and map reference	Location	Drainage area (sq mi.)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-3083.			Eldorado Creek at Mountain Ranch, Calif.				
130	Lat 38°13'38", long 120°32'37", in SE½ sec. 4, T. 4 N., R. 13 E., at culvert on San Andreas-Mountain Ranch road 0.2 mile southwest of Mountain Ranch.	a1.97	July 1962-	Crest-stage gage, July 23, 1962-	1963	Feb. 1, 1963		130
					1964	Jan. 21, 1964	3.07	30
					1965	Dec. 22, 1964	5.79	122
					1966	Dec. 24, 1965	2.94	24
					1967	Dec. 6, 1966	2.80	86
					1968	Jan. 31, 1968	2.94	24
					1969	Jan. 21, 1969	5.41	145
					1970	Jan. 21, 1970	4.39	95
					1971	Mar. 26, 1971	12.58	57
	11-3166.5.			Antelope Creek near West Point, Calif.				
131	Lat 38°29'29", long 120°30'09", in NE½ sec. 2, T. 7 N., R. 13 E., at culvert on Winton Lumber Co. road 6.7 miles northeast of West Point.	1.48	July 1962-	Crest-stage gage, July 24, 1962-	1963	Feb. 1, 1963	5.10	78
					1964	Nov. 23, 1963	3.22	15
					1965	Dec. 22, 1964	4.66	60
					1966	Dec. 12, 1965	2.82	5.6
					1967	May 10, 1967	3.74	29
					1968	Jan. 30, 1968	3.02	10
					1969	Jan. 21, 1969	4.37	49
					1970	Jan. 21, 1970	3.97	36
					1971	Dec. 4, 1970	3.01	10
	11-3356.5.			Deer Creek near Shingle Springs, Calif.				
132	Lat 38°39'30", long 120°59'25", in SW¼SE¼ sec. 4, T. 9 N., R. 9 E., at culvert on U.S. Highway 50, 3.5 miles west of Shingle Springs.	6.62	Aug. 1962-	Crest-stage gage, Aug. 10, 1962-	1963	Oct. 13, 1962	11.67	1,320
					1964	Jan. 21, 1964	7.44	547
					1965	Dec. 22, 1964	8.30	710
					1966	Dec. 29, 1965	4.92	226
					1967	Jan. 22, 1967	10.00	1,010
					1968	Feb. 20, 1968	5.61	313
					1969	Jan. 26, 1969	9.04	833
					1970	Jan. 14, 1970	8.66	768
					1971	Jan. 21, 1971	8.53	723
	11-3900.45.			Little Chico Creek tributary at Forest Ranch, Calif.				
133	Lat 39°52'40", long 121°40'25", in SE¼ sec. 6, T. 23 N., R. 3 E., at culvert on State Highway 32, 0.2 mile south of Forest Ranch.	a.62	July 1962-	Crest-stage gage, July 23, 1962-	1963	Oct. 13, 1962	4.82	34
					1964	Jan. 20, 1964	3.85	11
					1965	Jan. 5, 1965	6.45	96
					1966	Jan. 5, 1966	3.81	9.8
					1967	Jan. 21, 1967	4.49	25
					1968	Nov. 29, 1967	3.85	11
					1969	Jan. 21, 1969	4.70	31
					1970	Feb. 13, 1970	5.09	42
					1971	Dec. 20, 1970	4.27	20

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data				
					Water year	Date	Gage height (ft)	Discharge (cfs)	
11-4127. North Yuba River tributary at Goodyears Bar, Calif.									
135	Lat 39°32'31", long 120°53'46", in NE¼ sec. 6, T. 19 N., R. 10 E., at culvert on State Highway 49, Tahoe National Forest, 0.7 mile west of Goodyears Bar.	0.24	Nov. 1962-	Crest-stage gage, Nov. 9, 1962-	1963	Feb. 1, 1963	9.07	75	
					1964	Nov. 14, 1963	5.52	4.9	
					1965	Dec. 22, 1964	8.04	67	
					1966	Jan. 5, 1966		b5	
					1967	Apr. 18, 1967	6.64	25	
					1968	Jan. 15, 1968	5.78	8.4	
					1969	Jan. 21, 1969	6.86	29	
					1970			(m)	
					1971	Mar. 25, 1971	6.54	23	
11-4136. Sweetland Creek near North San Juan, Calif.									
136	Lat 39°20'18", long 121°06'58", in NE¼ sec. 18, T. 17 N., R. 8 E., at culvert on State Highway 49, 2.2 miles southwest of North San Juan.	2.68	Aug. 1962-	Crest-stage gage, Aug. 9, 1962-	1963	Oct. 13, 1962	6.17	526	
					1964	Nov. 5, 1963	4.43	155	
					1965	Dec. 22, 1964	7.04	600	
					1966	Jan. 5, 1966	3.70	61	
					Water-stage recorder, Oct. 15, 1968-	1967	Jan. 21, 1967	5.58	336
						1968	Feb. 20, 1968	4.74	202
					1969	Jan. 26, 1969	5.39	302	
					1970	Jan. 21, 1970	5.53	318	
					1971	Mar. 26, 1971	5.17	256	

Monthly and annual precipitation, in inches							
October	-	January	4.62	April	1.90	July	0
November	-	February	.72	May	2.07	August	0
December	12.65	March	7.66	June	.90	September	0
Total for water year, October 1, 1970-September 30, 1971							-

11-4203. Willow Glen Creek near Rackerby, Calif.

137	Lat 39°24'22", long 121°18'31", in NW¼ sec. 21, T. 18 N., R. 6 E., at culvert on Willow Glen road 2.8 miles southeast of Rackerby.	1.95	Aug. 1962-	Crest-stage gage, Aug. 3, 1962-	1963	Oct. 13, 1962	10.75	344
					1964	Jan. 20, 1964	7.21	130
					1965	Dec. 27, 1964	9.92	222
					1966	Nov. 18, 1965	6.99	122
					1967	Dec. 5, 1966	9.66	214
					1968	Feb. 20, 1968	5.87	71
					1969	Feb. 15, 1969	8.60	179
					1970	Jan. 14, 1970	8.16	164
					1971	Mar. 26, 1971	7.76	149

11-4230.5. Magnolia Creek near Auburn, Calif.

138	Lat 39°01'54", long 121°05'45", in SE¼ sec. 28, T. 14 N., R. 8 E., at culvert on State Highway 49, 8.2 miles north of Auburn.	5.65	Aug. 1962-	Crest-stage gage, Aug. 8, 1962-	1963	Oct. 13, 1962	12.01	1,380
					1964	Jan. 20, 1964	7.72	542
					1965	Dec. 22, 1964	11.67	1,300
					1966	Feb. 6, 1966	4.76	138
					1967	Dec. 2, 1966	5.61	261
					1968	Feb. 20, 1968	5.38	231
					1969	Jan. 26, 1969	6.70	413
					1970	Jan. 21, 1970	6.99	456
					1971	Mar. 26, 1971	5.44	239

See footnotes at end of table.



FIGURE 16.--Storm hydrograph and precipitation for Sweetland Creek near North San Juan, November 30-December 5, 1970.

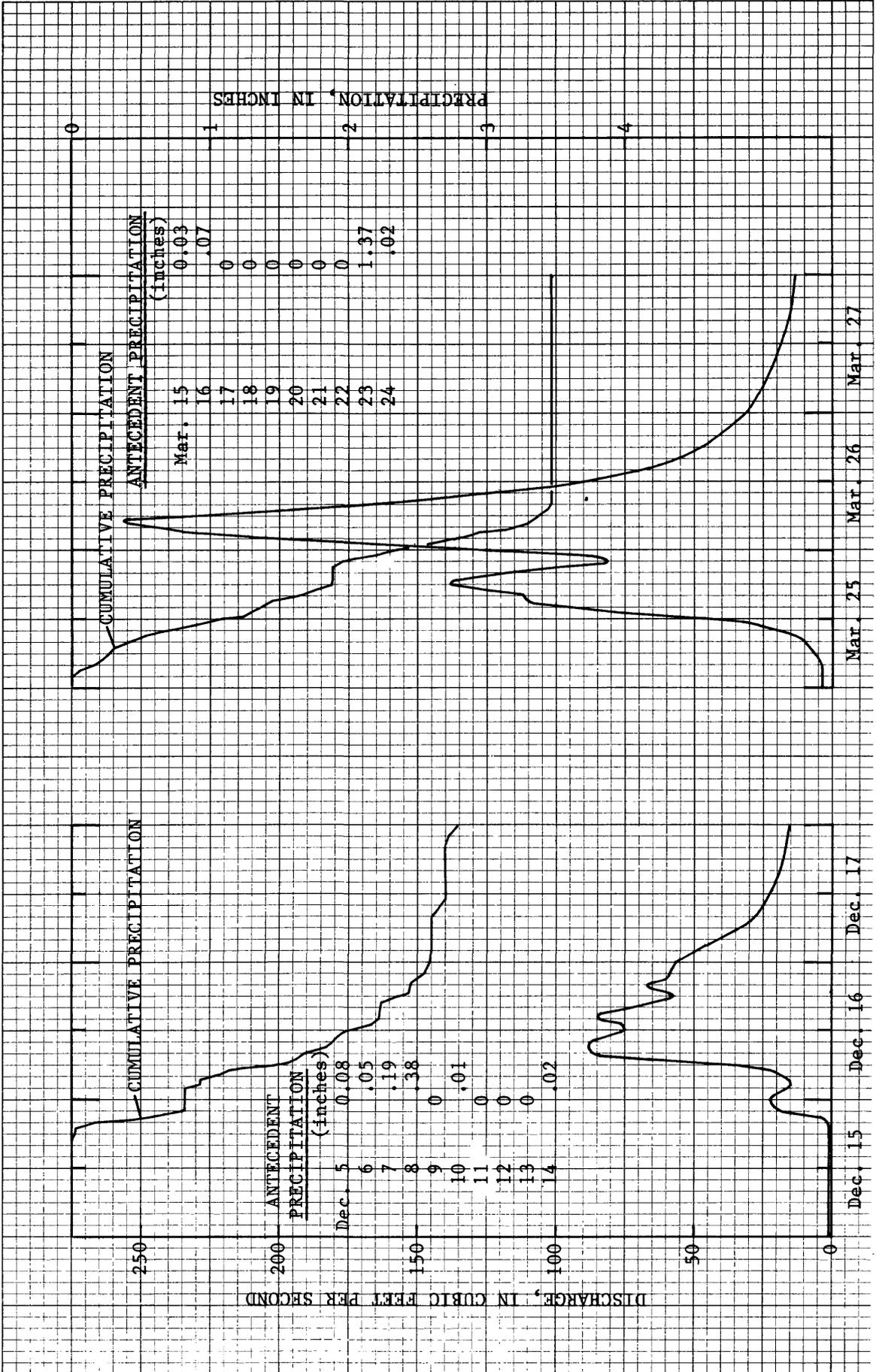


FIGURE 17.--Storm hydrographs and precipitation for Sweetland Creek near North San Juan, December 15-17, 1970, and March 25-27, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-4408.5.	Picket Pen Creek near Kyburz, Calif.					
139	Lat 38°52'03", long 120°22'18", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 12 N., R. 14 E., on left bank at culvert on Riverton-Loon Lake road 1 mile upstream from mouth, and 7.7 miles northwest of Kyburz.	0.49	Jan. 1964-	Crest-stage gage, Jan. 8, 1964-	1963	January 1963	10.53	53
					1964	Jan. 14, 1964	8.24	7.4
					1965	Dec. 23, 1964	13.47	111
					1966	Apr. 10, 1966	8.06	5.0
				Water-stage recorder, Jan. 13, 1964-	1967	May 21, 1967	8.77	15
					1968	Feb. 20, 1968	8.52	11
					1969	Jan. 20, 1969	11.49	74
				Sept. 9, 1968.	1970	Jan. 21, 1970	11.65	78
					1971	Mar. 26, 1971	10.07	42

See footnote at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-3366.35. Lake Tahoe tributary near Meeks Bay, Calif.								
151	Lat 39°01'03", long 120°07'32", in SE¼NW¼ sec. 32, T. 14 N., R. 17 E., on State Highway 89, Eldorado National Forest, 1.5 miles south of Meeks Bay.	0.64	Aug. 1962-	Crest-stage gage, Aug. 1, 1962-	1963	Jan. 31, 1963	13.54	43
					1964	Dec. 9, 1963	11.12	b8
					1965	Dec. 22, 1964	12.33	22
					1966	May 1966	10.69	3
					1967	Mar. 16, 1967	11.49	11
					1968	April 1968	10.86	b3
					1969	May 1969	11.45	10
					1970	Jan. 21, 1970	11.35	b7
	1971	June 1971	11.06	6.3				
11-2747.3. Budd Creek near Tuolumne Meadows, Calif.								
152	Lat 37°52'25", long 119°22'55", in NW¼ sec. 7, T. 1 S., R. 24 E., at culvert on State Highway 120, Yosemite National Park, 3.0 miles west of Tuolumne Meadows High Sierra Camp.	2.94	July 1962-	Crest-stage gage, July 17, 1962-	1963	June 16, 1963	6.59	134
					1964	May 19, 1964	4.97	74
					1965	Dec. 23, 1964	6.48	129
					1966	Nov. 17, 1965	5.60	94
					1967	July 1, 1967	7.20	159
					1968	May 28, 1968	4.61	63
					1969	May 1969	6.92	147
					1970	June 1, 1970	5.62	95
	1971	June 12, 1971	5.83	103				
11-2793. Smoky Jack Creek tributary near Yosemite Village, Calif. (Formerly Smoky Jack Creek near Yosemite)								
153	Lat 37°49'10", long 119°42'45", in NW¼NW¼ sec. 31, T. 1 S., R. 21 E., at culvert on State Highway 120, Yosemite National Park, 8.5 miles northwest of Yosemite Village.	.68	July 1962-	Crest-stage gage, July 18, 1962-	1963	Feb. 1, 1963	9.03	101
					1964	May 1964	6.58	35
					1965	Dec. 23, 1964	8.22	78
					1966	June 1966	5.89	20
					1967	June 1967	8.12	45
					1968	May 1968	5.69	16
					1969	May 1969	6.49	33
					1970	May 1970	5.92	20
	1971	June 12, 1971	5.32	9.4				
11-2926.8. Cascade Creek near Pinecrest, Calif.								
154	Lat 38°16'45", long 119°58'10", in SW¼SW¼ sec. 14, T. 5 N., R. 18 E., at culvert on State Highway 108, Stanislaus National Forest, 6.4 miles northeast of Pinecrest.	4.97	Oct. 1962-	Crest-stage gage, Oct. 2, 1962-	1963	Feb. 1, 1963	10.35	532
					1964	Nov. 14, 1963	5.39	116
					1965	Dec. 24, 1964	10.21	519
					1966	May 1966	4.42	39
					1967	May 10, 1967	6.76	226
					1968	April 1968	4.71	47
					1969	June 1969	6.49	172
					1970	May 1970	9.13	422
	1971	May 15, 1971	5.33	111				

See footnotes at end of table.

HYDROLOGIC REGION VII

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-2933.			North Fork Stanislaus River tributary near Lake Alpine, Calif.				
155	Lat 38°30'20", long 119°56'50", in SE½NW¼ sec. 36, T. 8 N., R. 18 E., on culvert on State Highway 4, Stanislaus National Forest, 3.2 miles northeast of Lake Alpine.	0.09	July 1962-	Crest-stage gage, July 27, 1962-	1963	Feb. 1, 1963	13.04	23
					1964	May 19, 1964	11.69	9.9
					1965	Dec. 23, 1964	13.20	27
					1966	June 1966	11.35	4.8
					1967	June 1967	10.88	6.6
					1968	May 1968	11.20	5.6
					1969	May 1969	11.44	7.5
					1970	May 1970	12.18	14
					1971	May 15, 1971	e11.0	b2.0
	11-3923.			Willow Creek tributary near Blairsden, Calif.				
156	Lat 39°47'00", long 120°33'15", in SE¼ sec. 7, T. 22 N., R. 13 E., at culvert on U.S. Highway Alternate 40, 3.3 miles east of Blairsden.	1.08	Aug. 1962-	Crest-stage gage, Aug. 1, 1962-	1963	Feb. 1, 1963	7.18	77
					1964			b3
					1965	Dec. 22, 1964	5.13	22
					1966	Mar. 13, 1966	4.61	12
					1967	Mar. 16, 1967	5.56	32
					1968	Feb. 21, 1968	4.87	17
					1969	Jan. 21, 1969	5.99	43
					1970	Jan. 23, 1970	5.76	37
					1971	Mar. 26, 1971	5.84	39
	11-3979.7.			Lake Almanor tributary near Almanor, Calif.				
157	Lat 40°12'01", long 121°08'47", in SE¼NW¼ sec. 13, T. 27 N., R. 7 E., at culvert on State Highway 89, Lassen National Forest, 1.8 miles southeast of Almanor.	1.66	July 1962-	Crest-stage gage, July 24, 1962-	1963	Oct. 13, 1962	8.85	111
					1964	Apr. 15, 1964	4.67	5.0
					1965	Dec. 23, 1964	7.41	81
					1966	Apr. 10, 1966	5.32	16
					1967	Jan. 29, 1967 and May 1967	6.11	35
					1968	Feb. 20, 1968	5.72	24
					1969	Jan. 13, 1969	6.86	59
					1970	Jan. 23, 1970	8.43	131
					1971	Mar. 26, 1971	6.67	52
	11-4019.4.			Mill Creek near Quincy, Calif.				
158	Lat 39°56'03", long 120°54'18", in NE¼NW¼ sec. 19, T. 24 N., R. 10 E., at culvert on State Highway 24 and 89, 2.2 miles east of Quincy.	6.72	July 1962-	Crest-stage gage, July 25, 1962-	1963	Jan. 31, 1963	5.53	447
					1964	Jan. 20, 1964	2.20	49
					1965	Dec. 22, 1964	7.02	601
					1966	Jan. 2, 1966	2.16	45
				Water-stage recorder,	1967	Jan. 29, 1967	4.64	326
					1968	Feb. 20, 1968	2.41	69
				Oct. 1, 1965-	1969	Jan. 26, 1969	4.51	313
				Sept. 30, 1971.	1970	Jan. 14 and 24, 1970	4.79	422
					1971	Mar. 26, 1971	3.97	300
Monthly and annual precipitation, in inches								
October	2.05	January	2.58	April	2.47	July	0	
November	9.92	February	.22	May	3.47	August	0	
December	8.99	March	8.73	June	.65	September	0	
Total for water year, October 1, 1970-September 30, 1971 39.08								

See footnote at end of table.

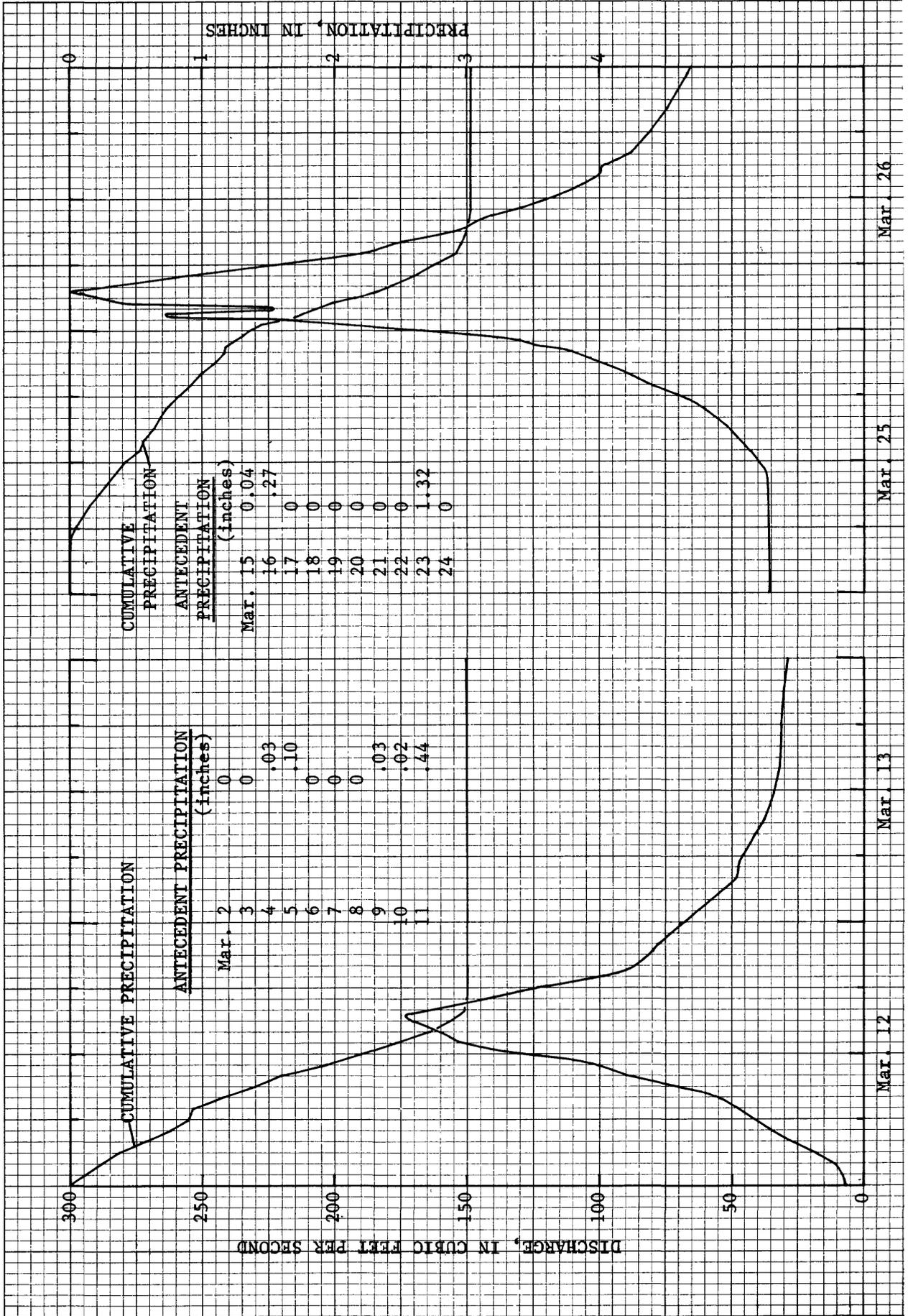


FIGURE 18.--Storm hydrographs and precipitation for Mill Creek near Quincy, March 12-13 and 25-26, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-4027.			Kingsbury Creek near Twain, Calif.				
159	Lat 40°01'15", long 121°04'15", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 25 N., R. 8 E., at culvert on U.S. Highway Alternate 40, Plumas National Forest, 2 miles west of Twain.	1.36	July 1962-	Crest-stage gage, July 26, 1962-	1963	Oct. 13, 1962	4.75	114
					1964	Jan. 21, 1964	3.72	26
					1965	Dec. 22, 1964	5.94	163
					1966	Feb. 6, 1966	4.25	30
					1967	July 16, 1967	11.75	391
					1968	Feb. 22, 1968	3.68	9.2
					1969	Jan. 21, 1969	4.50	60
					1970	Jan. 14, 1970	5.02	81
					1971	Mar. 25, 1971	4.05	28
	11-4033.4.			Granite Creek at Tobin, Calif.				
160	Lat 39°57'05", long 121°18'00", in NW $\frac{1}{4}$ sec. 10, T. 24 N., R. 6 E., at culvert on U.S. Highway Alternate 40, Plumas National Forest, 0.9 mile northeast of Tobin, and 7 miles southwest of Rich Bar.	.79	July 1962-	Crest-stage gage, July 27, 1962-	1963	Oct. 13, 1962	9.01	72
					1964	Jan. 21, 1964	6.82	14
					1965	Dec. 22, 1964	11.57	158
					1966	Feb. 6, 1966		b12
					1967	June 1, 1967	7.53	36
					1968	Feb. 22, 1968	6.62	8.1
					1969	Jan. 21, 1969	7.59	37
					1970	Jan. 23, 1970	7.79	34
					1971	Mar. 26, 1971	6.83	11
	11-4139.5.			South Yuba River tributary near Soda Springs, Calif.				
161	Lat 39°18'56", long 120°27'24", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 17 N., R. 13 E., at culvert on U.S. Highway 40, 4.3 miles west of Soda Springs.	a.92	Aug. 1962-	Crest-stage gage, Aug. 9, 1962-	1963	Feb. 1, 1963	21.84	489
					1964	Nov. 14, 1963	19.52	338
					1965	Dec. 23, 1964	21.91	585
					1966	May 1966	15.49	66
					1967	Mar. 16, 1967	16.35	114
					1968	April 1968	15.21	52
					1969	May 1969	16.31	112
					1970	May 1970	15.98	92
					1971	June 26, 1971	18.48	259
	11-4375.6.			Kirkwood Creek near Silver Lake, Calif.				
162	Lat 38°42'10", long 120°04'10", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 10 N., R. 17 E., at culvert on State Highway 88, Eldorado National Forest, 3.7 miles northeast of Silver Lake outlet.	3.62	July 1962-	Crest-stage gage, July 25, 1962-	1963	Feb. 1, 1963	9.71	385
					1964	May 13, 1964	5.14	116
					1965	Dec. 23, 1964	9.6	263
					1966	May 1966	4.98	105
					1967	Sept. 18, 1967	7.11	245
					1968	May 1968	4.86	77
					1969	June 1969	6.31	195
					1970	May 1970	5.36	131
					1971	May 1971	5.00	106

See footnote at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-3896.5.			Scotts John Creek near Stirling City, Calif.				
163	Lat 40°06'33", long 121°25'33", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, T. 26 N., R. 5 E., Butte County, in Lassen National Forest, at culvert on Forest Service road 26 N 27, 15 miles northeast of Stirling City.	3.76	Sept. 1969-	Crest-stage gage, Sept. 25, 1969-	1970 1971	Jan. 23, 1970 Mar. 26, 1971	6.01 3.67	206 48
	11-3829.5.			North Fork Calif Creek near Butte Meadows, Calif.				
164	Lat 40°09'44", long 121°31'58", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 27 N., R. 4 E., Tehama County, in Lassen National Forest at culvert on Forest Service road 27 N 12, 1.8 miles upstream from Deer Creek, 5.6 miles north of Butte Meadows, and 11.2 miles south of the town of Mill Creek.	1.26	Sept. 1969-	Crest-stage gage, Sept. 26, 1969-	1970 1971	Jan. 23, 1970 Mar. 26, 1971	14.59 13.04	34 10
	11-3979.			Benner Creek near Chester, Calif.				
165	Lat 40°23'02", long 121°16'24", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 29 N., R. 6 E., Plumas County, in Lassen National Forest, at culvert on Forest Service road 29 N 12, 5.6 miles northwest of Chester.	7.67	Sept. 1969-	Crest-stage gage, Sept. 25, 1969-	1970 1971	Jan. 23, 1970 Mar. 26, 1971	6.29 4.03	182 64

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																												
					Water year	Date	Gage height (ft)	Discharge (cfs)																																									
11-4014.6. Hough Creek near Crescent Mills, Calif.																																																	
176	Lat 40°04'50", long 120°53'10", in NW¼SW¼ sec. 29, T. 26 N., R. 10 E., at culvert on Plumas County road A22, 1.6 miles southeast of Crescent Mills.	3.79	Aug. 1963-	Crest-stage gage, Aug. 12, 1963-	1963	Feb. 1, 1963	3.93	159																																									
					1964	Jan. 20, 1964	2.47	13																																									
					1965	Dec. 23, 1964	4.42	205																																									
					1966	Apr. 10, 1966	2.87	36																																									
					1967	May 1967	3.37	84																																									
					1968	Feb. 20, 1968	2.65	20																																									
					1969	Jan. 21, 1969	3.76	140																																									
					1970	Jan. 23, 1970	4.60	227																																									
					1971	Mar. 13, 1971	2.71	38																																									
10-3563. West Fork Willard Creek tributary near Westwood, Calif.																																																	
177	Lat 40°22'25", long 120°49'05", in E½ sec. 14, T. 29 N., R. 10 E., at culvert on State Highway 36, Lassen National Forest, 2.8 miles northeast of Fredonyer Pass and 10.4 miles northeast of Westwood.	.83	Aug. 1963-	Crest-stage gage, Aug. 13, 1963-	1963	Jan. 31, 1963	5.26	45																																									
					1964	Apr. 1, 1964	2.69	2.9																																									
					1965	Dec. 22, 1964	5.08	51																																									
					1966		2.98	5.9																																									
					1967	Jan. 5, 1967	6.42	88																																									
					1968	Feb. 9, 1968	3.77	19																																									
					1969	Jan. 20, 1969	4.46	35																																									
					1970	Jan. 23, 1970	5.41	59																																									
					1971	Mar. 26, 1971	5.08	51																																									
10-3591. Shaffer Creek near Litchfield, Calif.																																																	
178	Lat 40°23'30", long 120°18'25", in NE¼ sec. 8, T. 29 N., R. 15 E., at culvert on U.S. Highway 395, 4.3 miles northeast of Litchfield, and 4.9 miles northwest of Wendel.	5.63	Aug. 1963-	Crest-stage gage, Aug. 14, 1963-	1964			No flow																																									
					1965	Dec. 23, 1964	5.06	28																																									
					1966			No flow																																									
					1967	Jan. 21, 1967	12.02	137																																									
					1968			No flow																																									
					1969	Jan. 25, 1969	12.00	372																																									
					1970	Jan. 23, 1970	12.16	389																																									
					1971	Jan. 17, 1971	7.77	75																																									
					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0.07</td> <td>January</td> <td>-</td> <td>April</td> <td>0.33</td> <td>July</td> <td>0.28</td> </tr> <tr> <td>November</td> <td>1.76</td> <td>February</td> <td>0.05</td> <td>May</td> <td>2.10</td> <td>August</td> <td>.20</td> </tr> <tr> <td>December</td> <td>-</td> <td>March</td> <td>1.31</td> <td>June</td> <td>1.26</td> <td>September</td> <td>.17</td> </tr> <tr> <td colspan="8">Total for water year, October 1, 1970-September 30, 1971</td> <td>-</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches								October	0.07	January	-	April	0.33	July	0.28	November	1.76	February	0.05	May	2.10	August	.20	December	-	March	1.31	June	1.26	September	.17	Total for water year, October 1, 1970-September 30, 1971			
Monthly and annual precipitation, in inches																																																	
October	0.07	January	-	April	0.33	July	0.28																																										
November	1.76	February	0.05	May	2.10	August	.20																																										
December	-	March	1.31	June	1.26	September	.17																																										
Total for water year, October 1, 1970-September 30, 1971								-																																									
10-3547. Mill Creek at Milford, Calif.																																																	
179	Lat 40°10'15", long 120°22'14", in SE¼NW¼ sec. 26, T. 27 N., R. 14 E., on left bank 20 ft upstream from culvert on U.S. Highway 395, at post office at Milford.	2.26	Aug. 1963-	Crest-stage gage, Aug. 15, 1963-	1964	(d)	2.44	1.5																																									
					1965	Jan. 5, 1965	3.59	23																																									
					1966	Dec. 30, 1965	2.35	2.5																																									
					1967	Jan. 29, 1967	4.13	28																																									
					1968	Feb. 23, 1968	2.40	3.1																																									
					1969	Jan. 21, 1969	4.41	24																																									
					1970	Jan. 23, 1970	4.11	26																																									
					1971	Mar. 26, 1971	3.25	18																																									
									Water-stage recorder, Sept. 22, 1969.																																								

See footnotes at end of table.

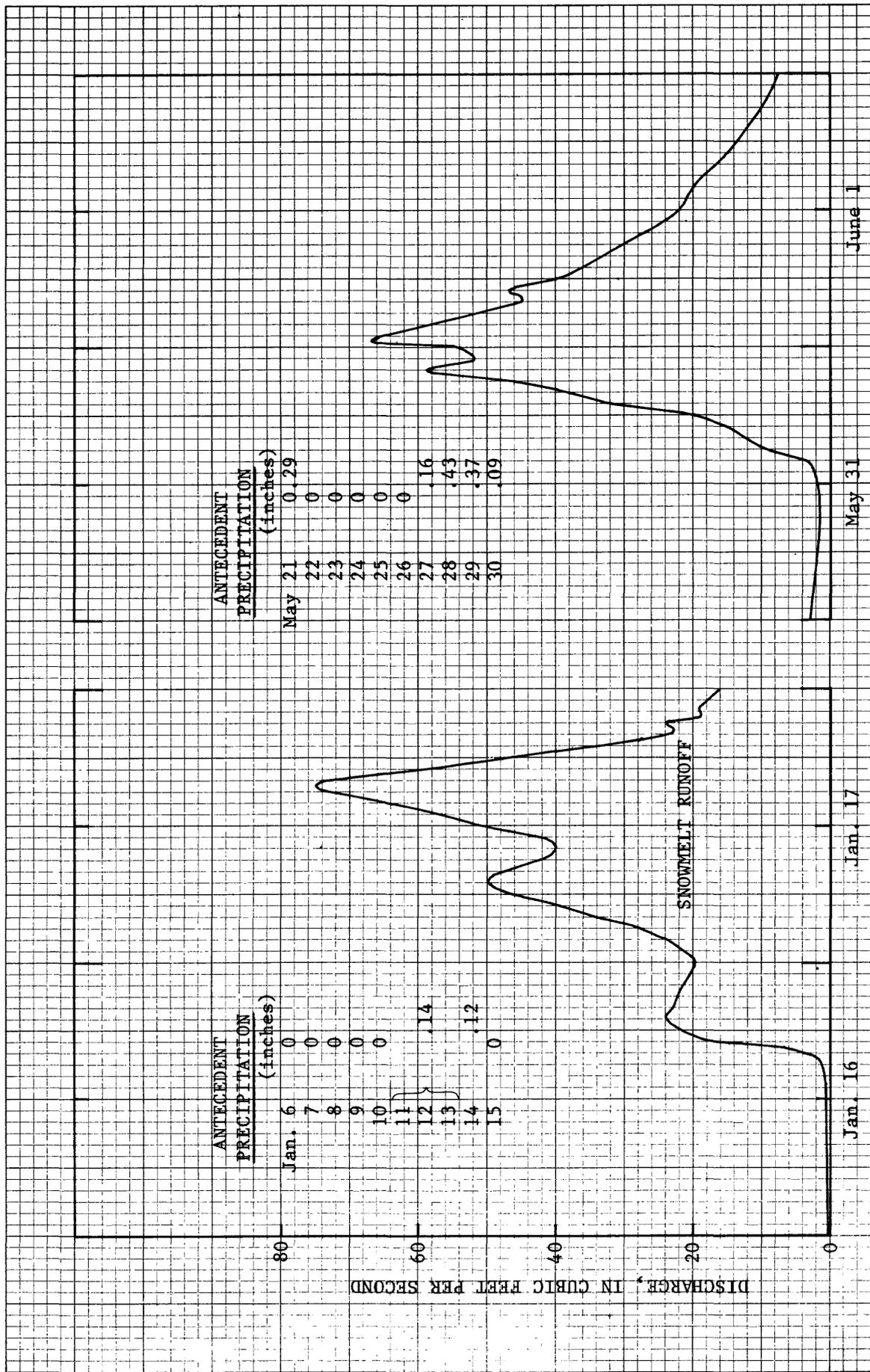


FIGURE 19.--Storm hydrographs for Shaffer Creek near Litchfield, January 16-17 and May 31-June 1, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-3539.85. Washoe Creek near Hallelujah Junction, Calif.								
180	Lat 39°46'25", long 120°03'25", in NW¼NE¼ sec. 10, T. 22 N., R. 17 E., at culvert on U.S. Highway Alternate 40, 1.0 mile west of Hallelujah Junction, and 6.3 miles east of Vinton.	1.53	Aug. 1963-	Crest-stage gage, Aug. 16, 1963-	1964			No flow
					1965	Aug. 11, 1965	3.63	2.6
					1966	1966		b2
					1967	March 1967		b1
					1968	Jan. 15, 1968	3.61	3.0
					1969	June 9, 1969	3.82	4.5
					1970			(m)
1971			(m)					
11-3914.8. County Line Creek near Loyalton, Calif.								
181	Lat 39°42'20", long 120°13'15", in NW¼NW¼ sec. 5, T. 21 N., R. 16 E., at culvert on State Highway 49, 2.3 miles northeast of Loyalton.	.33	Aug. 1963-	Crest-stage gage, Aug. 16, 1963-	1964	Mar. 1, 1964	2.99	1.9
					1965	Jan. 5, 1965	4.83	30
					1966			No flow
					1967	Mar. 14, 1967	4.84	29
					1968	Jan. 15, 1968	3.12	2.9
					1969	Jan. 21, 1969	5.67	36
					1970			(m)
1971			(m)					
11-3914.23. Cottonwood Creek near Sierraville, Calif.								
182	Lat 39°32'50", long 120°19'05", in NE¼NW¼ sec. 33, T. 20 N., R. 15 E., at culvert on State Highway 89, 4.5 miles south of Sierraville.	7.08	Aug. 1963-	Crest-stage gage, Aug. 20, 1963-	1963	jFeb. 1, 1963	5.17	162
					1964	Jan. 20, 1964	3.06	41
					1965	Dec. 22, 1964	4.27	108
					1966	Apr. 11, 1966	2.53	15
					1967	May 1967	4.01	83
					1968	Feb. 20, 1968	2.49	12
					1969	May 1969	3.65	62
					1970	Jan. 23, 1970	3.53	56
					1971	Mar. 25, 1971	3.29	38
					10-3379. Truckee River tributary near Truckee, Calif.			
184	Lat 39°16'48", long 120°12'21", in SW¼NE¼ sec. 33, T. 17 N., R. 16 E., at culvert on State Highway 89, 3.5 miles southwest of Truckee.	a1.05	Sept. 1963-	Crest-stage gage, Sept. 23, 1963-	1963	jJan. 31, 1963	20.8	220
					1964	May 1964	16.25	b6
					1965	Dec. 22, 1964	18.23	90
					1966	May 2, 1966	16.09	b2
					1967	May 1967	16.90	28
					1968	Feb. 20, 1968	16.82	25
					1969	May 10, 1969	16.84	25
					1970	Jan. 21, 1970	17.48	37
					1971	Jan. 21, 1971	16.74	16

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	10-3392.			Middle Martis Creek near Truckee, Calif.				
185	Lat 39°16'55", long 120°06'12", in SW ¹ / ₄ NW ¹ / ₄ sec. 33, T. 17 N., R. 17 E., at culvert on Truckee-Kings Beach road, Tahoe National Forest, 5.3 miles southeast of Truckee, Calif.	2.82	Dec. 1964-	Crest-stage gage, Dec. 16, 1964-	1965	Dec. 22, 1964	12.08	40
					1966	Apr. 6, 1966	10.30	b4
					1967	May 1967	11.89	35
					1968	Apr. 10, 1968	10.90	13
					1969	May 10, 1969	11.57	26
					1970	Jan. 21, 1970	11.85	35
					1971	May 1971	10.54	8

See footnote at end of table.

HYDROLOGIC REGION IX

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-4601.5. Redwood Creek near Tamalpais Valley, Calif.								
203	Lat 37°52'30", long 122°34'55", in Mt. Tamalpais Game Refuge, at culvert on Frank Valley road, 2.5 miles southwest of Mill Valley, and 3.0 miles west of Tamalpais Valley.	6.38	Aug. 1961-	Crest-stage gage, Aug. 22, 1961-	1962	Feb. 13, 1962	6.67	880
					1963	Oct. 13, 1962	6.47	800
					1964	Jan. 20, 1964		b100
					1965	Jan. 6, 1965	5.48	410
					1966	Jan. 4, 1966	7.43	1,300
					1967	Jan. 21, 1967	5.08	295
					1968	Jan. 30, 1968	6.10	630
					1969	Dec. 15, 1968	6.96	1,040
					1970	Jan. 21, 1970	10.17	1,780
					1971	Dec. 3, 1970	6.83	990
11-4604.4. Nicasio Creek near Nicasio, Calif.								
204	Lat 38°02'57", long 122°38'33", at culvert on Lucas Valley road, 3.1 miles southeast of Nicasio.	1.74	Aug. 1961-	Crest-stage gage, Aug. 22, 1961-	1962	Feb. 9, 1962	12.96	380
					1963	Jan. 31, 1963	11.38	290
					1964	Jan. 20, 1964	15.26	541
					1965	Jan. 5, 1965	14.53	485
					1966	Jan. 4, 1966	8.69	148
					1967	Jan. 21, 1967	15.38	560
					1968	Jan. 30, 1968	10.70	265
					1969	Jan. 13, 1969	10.49	250
					1970	Jan. 14, 1970	12.57	400
					1971	Dec. 3, 1970	13.12	430
11-4609. Roscoe Creek at Bodega Bay, Calif.								
205	Lat 38°20'25", long 123°02'44", at culvert on State Highway 1, 0.5 mile north of Bodega Bay.	.25	Aug. 1961-	Crest-stage gage, Aug. 21, 1961-	1962	Feb. 13, 1962	8.16	37
					1963	Jan. 31, 1963	8.59	48
					1964	Nov. 23, 1963	6.67	11
					1965	Jan. 5, 1965	8.18	38
					1966	Jan. 5, 1966	8.24	40
					1967	Jan. 21, 1967	7.84	31
					1968	Jan. 30, 1968	7.06	15
					1969	Jan. 13, 1969	7.55	25
					1970	Jan. 21, 1970	9.71	76
					1971	Dec. 3, 1970	7.66	27
11-4670.4. Ward Creek tributary near Cazadero, Calif.								
206	Lat 38°32'30", long 123°06'19", in NW¼ sec. 17, T. 8 N., R. 11 W., at culvert on ranch road, 1.3 miles northwest of Cazadero.	.11	Aug. 1961-	Crest-stage gage- Aug. 24, 1961-	1962	Feb. 13, 1962	10.78	35
					1963	Jan. 31, 1963	10.39	24
					1964	Jan. 20, 1964	9.67	16
					1965	Dec. 22, 1964	10.92	37
					1966	Jan. 4, 1966	11.84	46
					1967	Dec. 2, 1966	11.32	38
					1968	Jan. 10, 1968	10.29	22
					1969	Jan. 13, 1969	9.98	18
					1970	Jan. 23, 1970	10.59	27
					1971	Dec. 3, 1970	9.58	12

See footnote at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-4673.	Wheatfield Fork Gualala River tributary near Annapolis, Calif.					
207	Lat 38°40'30", long 123°15'12", at culvert on Stewarts Point-Skaggs Spring road, 7 miles southeast of Annapolis.	0.19	Aug. 1961-	Crest-stage gage, Aug. 24, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 13, 1962 Dec. 3, 1962 Jan. 20, 1964 Jan. 5, 1965 Jan. 4, 1966 Jan. 21, 1967 Jan. 30, 1968 Jan. 13, 1969 Jan. 23, 1970 Jan. 16, 1971	9.72 9.90 8.90 9.26 12.09 9.97 9.45 10.41 12.31 g53.30	49 54 26 35 155 76 55 90 167 109
		11-4675.6.	China Gulch at Gualala, Calif.					
208	Lat 38°46'00", long 123°31'35", in SW¼ sec. 27, T. 11 N., R. 15 W., at culvert on State Highway 1, in Gualala.	.54	Aug. 1961-	Crest-stage gage, Aug. 24, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 13, 1962 Jan. 31, 1963 Jan. 20, 1964 Jan. 5, 1965 Jan. 4, 1966 Jan. 21, 1967 Jan. 30, 1968 Jan. 13, 1969 Jan. 23, 1970 Jan. 16, 1971	13.96 11.66 12.57 12.67 12.27 12.06 11.88 14.41 13.43 12.46	112 40 66 68 56 55 50 135 101 68
		11-4678.5.	Soda Creek tributary near Boonville, Calif.					
209	Lat 39°01'32", long 123°17'25", in SE¼ sec. 33, T. 14 N., R. 13 W., at culvert on Boonville-Ukiah cutoff road, 4.2 miles northeast of Boonville.	1.53	Aug. 1961-	Crest-stage gage, Aug. 23, 1961- Water-stage recorder, Sept. 30, 1964-Sept. 30, 1968.	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 13, 1962 Jan. 31, 1963 Jan. 20, 1964 Dec. 22, 1964 Jan. 4, 1966 Jan. 21, 1967 Jan. 29, 1968 Jan. 13, 1969 Jan. 23, 1970 Mar. 25, 1971	7.81 (d) 8.60 21.03 9.27 7.31 6.33 8.28 (e) 9.07	89 (d) 118 394 138 83 55 113 (d) 152
		11-4678.8.	Navarro River tributary near Philo, Calif.					
210	Lat 39°04'25", long 123°27'25", in NE¼ sec. 13, T. 14 N., R. 15 W., at culvert on State Highway 128, 1.2 miles northwest of Philo.	.65	Aug. 1961-	Crest-stage gage, Aug. 23, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 13, 1962 Jan. 31, 1963 Jan. 20, 1964 Jan. 5, 1965 Jan. 5, 1966 Dec. 4, 1966 Jan. 29, 1968 Jan. 13, 1969 (m) Jan. 16, 1971	8.41 (d) (d) 6.78 8.77 7.95 7.55 8.29 (m) 7.48	68 (d) (d) 26 87 60 47 71 (m) 39

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																												
					Water year	Date	Gage height (ft)	Discharge (cfs)																																									
11-4680.2. Albion River tributary near Comptche, Calif.																																																	
211	Lat 39°14'22", long 123°35'44", in SW¼ sec. 13, T. 16 N., R. 16 W., at culvert on Navarro-Comptche road, 1.8 miles south of Comptche, and 6.5 miles northwest of Navarro.	0.40	Aug. 1961-	Crest-stage gage, Aug. 23, 1961-	1962	Feb. 13, 1962	8.97	50																																									
					1963	Oct. 12, 1962	8.93	49																																									
					1964	Jan. 20, 1964	8.54	37																																									
					1965	Dec. 22, 1964	9.57	68																																									
					1966	Jan. 5, 1966	9.91	67																																									
					1967	Jan. 21, 1967	8.52	35																																									
					1968	Jan. 29, 1968	9.02	50																																									
					1969	Jan. 12, 1969	10.02	70																																									
					1970	Jan. 23, 1970	9.24	53																																									
					1971	Dec. 3, 1970	8.72	39																																									
11-4680.85. North Fork Big River tributary near Willits, Calif.																																																	
212	Lat 39°20'50", long 123°31'25", at culvert on State Highway 20, 10 miles southwest of Willits.	.43	Aug. 1961-	Crest-stage gage, Aug. 24, 1961-	1962	Feb. 13, 1962	13.35	20																																									
					1963	Dec. 2, 1962	13.41	21																																									
					1964	Jan. 20, 1964	(d)	(d)																																									
					1965	Dec. 22, 1964	(d)	165																																									
					1966	(d)	(d)	(d)																																									
					1967	Jan. 21, 1967	13.16	18																																									
					1968	Jan. 29, 1968	12.87	14																																									
					1969	Jan. 13, 1969	14.48	32																																									
					1970	(m)	(m)	(m)																																									
					1971	Jan. 16, 1971	14.37	31																																									
11-4681.5. Warner Creek near Fort Bragg, Calif.																																																	
213	Lat 39°23'13", long 123°48'42", in NE¼ sec. 36, T. 18 N., R. 18 W., at culvert on State Highway 1, 1.6 mile north of Caspar, and 4 miles south of Fort Bragg.	.61	Aug. 1961-	Crest-stage gage, Aug. 23, 1961-	1962	Jan. 19, 1962	8.98	48																																									
					1963	Jan. 31, 1963	8.30	37																																									
					1964	Jan. 20, 1964	9.13	64																																									
					1965	Dec. 22, 1964	10.20	99																																									
				Water-stage recorder, Oct. 15, 1968-	1966	Jan. 4, 1966	9.83	90																																									
					1967	Dec. 2, 1966	9.61	82																																									
					1968	Jan. 30, 1968	8.17	38																																									
					1969	Dec. 15, 1968	9.30	58																																									
					1970	Jan. 23, 1970	9.83	72																																									
					1971	Jan. 16, 1971	10.13	81																																									
<table border="1"> <thead> <tr> <th colspan="8">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>3.32</td> <td>January</td> <td>4.24</td> <td>April</td> <td>2.23</td> <td>July</td> <td>0</td> </tr> <tr> <td>November</td> <td>8.76</td> <td>February</td> <td>.64</td> <td>May</td> <td>.49</td> <td>August</td> <td>.36</td> </tr> <tr> <td>December</td> <td>7.30</td> <td>March</td> <td>6.43</td> <td>June</td> <td>.03</td> <td>September</td> <td>.13</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>33.93</td> <td></td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches								October	3.32	January	4.24	April	2.23	July	0	November	8.76	February	.64	May	.49	August	.36	December	7.30	March	6.43	June	.03	September	.13	Total for water year, October 1, 1970-September 30, 1971							33.93	
Monthly and annual precipitation, in inches																																																	
October	3.32	January	4.24	April	2.23	July	0																																										
November	8.76	February	.64	May	.49	August	.36																																										
December	7.30	March	6.43	June	.03	September	.13																																										
Total for water year, October 1, 1970-September 30, 1971							33.93																																										
11-4688.5. Dunn Creek near Rockport, Calif.																																																	
214	Lat 39°47'56", long 123°49'11", in SE¼ sec. 35, T. 23 N., R. 18 W., at culvert on State Highway 1, 7.6 miles southwest of junction with U.S. Highway 101 at Leggett, and 4.2 miles north of Rockport.	1.88	Aug. 1961-	Crest-stage gage, Aug. 15, 1961-	1962	Jan. 19, 1962	5.53	46																																									
					1963	Apr. 6, 1963	6.46	86																																									
					1964	Jan. 20, 1964	6.60	95																																									
					1965	Dec. 22, 1964	9.59	286																																									
				Water-stage recorder, Aug. 17, 1961-Aug. 25, 1964.	1966	Jan. 4, 1966	8.04	190																																									
					1967	Jan. 21, 1967	6.60	100																																									
					1968	Jan. 29, 1968	6.26	82																																									
					1969	Jan. 13, 1969	7.39	145																																									
					1970	Jan. 23, 1970	7.91	180																																									
					1971	Jan. 16, 1971	7.31	140																																									

See footnotes at end of table.

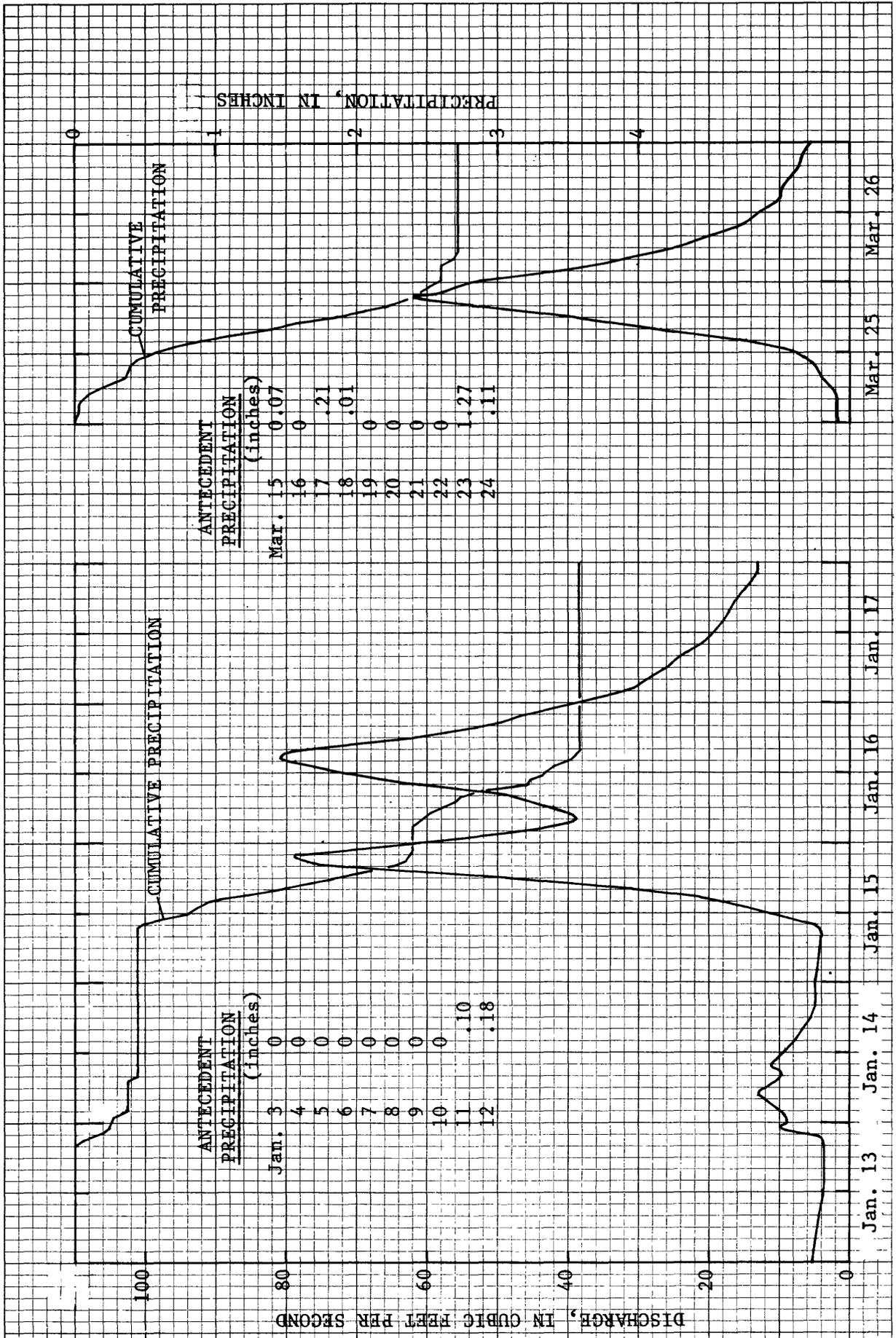


FIGURE 20.--Storm hydrographs and precipitation for Warner Creek near Fort Bragg, January 13-17 and March 25-26, 1971.

HYDROLOGIC REGION X

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data								
					Water year	Date	Gage height (ft)	Discharge (cfs)					
11-1735.5. Alameda Creek tributary No. 2 near Warm Springs, Calif.													
226	Lat 37°31'15", long 121°50'49", in NW¼NE¼ sec. 10, T. 5 S., R. 1 E., at culvert on Calaveras road 5 miles northeast of Warm Springs.	0.47	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959			b0.5					
					1960			b.5					
					1961			b.5					
					1962	Feb. 14, 1962	39.17	7.6					
					1963	Oct. 13, 1962	39.06	6.2					
					1964	Jan. 22, 1964	39.50	8.8					
					1965	Dec. 22, 1964	40.28	28					
					1966	Dec. 29, 1965	39.17	7.6					
					1967	Jan. 23, 1967	40.59	36					
					1968	Jan. 30, 1968	38.91	4.3					
					1969	Dec. 25, 1968	39.30	9.5					
					1970	Mar. 1, 1970	39.29	9.4					
					1971	Nov. 29, 1970	38.89	4.1					
11-1735.6. Alameda Creek tributary No. 1 near Warm Springs, Calif.													
227	Lat 37°31'14", long 121°50'48", in NW¼NE¼ sec. 10, T. 5 S., R. 1 E., at culvert on Calaveras road 5 miles northeast of Warm Springs.	.35	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959			b.5					
					1960			b.5					
					1961			b.5					
					1962	Feb. 14, 1962	47.04	13					
					1963	Jan. 31, 1963	46.24	3.3					
					1964	Jan. 22, 1964	46.54	6.4					
					1965	Dec. 22, 1964	46.54	6.4					
					1966	Dec. 29, 1965	46.54	6.4					
					1967	Jan. 23, 1967	(d)	(d)					
					1968	Jan. 30, 1968	(r)	b3					
					1969	Jan. 26, 1969	46.39	4.7					
					1970	(m)	(m)	(m)					
					1971	Nov. 29, 1970	(r)	b3					
11-1744.5. Big Canyon Creek near Dublin, Calif.													
228	Lat 37°43'15", long 121°56'25", in San Ramon Grant, at culvert on State Highway 21, 1.4 miles north of Dublin.	1.13	Oct. 1958-	Crest-stage gage, Sept. 1965. Oct. 1, 1958- Sept. 30, 1965.	1959			b.5					
					1960	Feb. 8, 1960	47.76	20					
					1961			b.5					
					1962	Feb. 14, 1962	47.59	14					
					1963	Jan. 31, 1963	49.36	160					
					1964	Jan. 20, 1964	47.71	18					
					1965	(d)	(d)	(d)					
					11-1765.5. Arroyo Valle tributary near Livermore, Calif.								
229	Lat 37°38'45", long 121°47'55", in Valle de San Jose Grant, at culvert on Vineyard Avenue 2.5 miles southwest of Livermore.	a3.58	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959	Feb. 21, 1959	11.58	b13					
					1960	Feb. 8, 1960	12.46	36					
					1961			b0					
					1962	Feb. 14, 1962	11.85	20					
					1963	Jan. 31, 1963	14.03	97					
					1964	Jan. 22, 1964	11.31	7.2					
					1965	Jan. 5, 1965	11.42	9.6					
					1966	Jan. 31, 1966	11.21	5.1					
					1967	Jan. 24, 1967	12.86	50					
					1968	Jan. 31, 1968	12.70	44					
					1969	Jan. 26, 1969	14.98	123					
					1970	Jan. 24, 1970	14.19	100					
					1971	Nov. 29, 1970	12.54	39					
									Water-stage recorder, Oct. 1, 1964- June 30, 1971.	1964	Jan. 22, 1964	11.31	7.2
									1965	Jan. 5, 1965	11.42	9.6	
				1966	Jan. 31, 1966	11.21	5.1						
				1967	Jan. 24, 1967	12.86	50						
				1968	Jan. 31, 1968	12.70	44						
				1969	Jan. 26, 1969	14.98	123						
				1970	Jan. 24, 1970	14.19	100						
				1971	Nov. 29, 1970	12.54	39						

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-1790.05. Alameda Creek tributary near Niles, Calif.								
230	Lat 37°35'15", long 121°57'40", in NW¼ sec. 15, T. 4 S., R. 1 W., at culvert on Niles Canyon road 1.2 miles northeast of Niles.	a0.28	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959			b0.1
					1960			b.1
					1961			b.1
					1962	Feb. 18, 1962	5.77	8.0
					1963	Oct. 13, 1962	(d)	60
					1964	Nov. 20, 1963	5.57	6.0
					1965	Dec. 22, 1964	5.67	7.0
					1966			b0
					1967	Jan. 23, 1967	6.04	11
					1968	Jan. 30, 1968	5.77	7.7
					1969	Jan. 26, 1969	6.51	17
					1970	(d)	(r)	b1
					1971	Nov. 29, 1970	(r)	b1
11-1823. Arroyo del Hambre near Martinez, Calif.								
232	Lat 37°58'10", long 122°10'05", in SW¼ sec. 35, T. 2 N., R. 3 W., at culvert on Alhambra Valley road, 2.8 miles southwest of Martinez.	a.80	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959	Feb. 21, 1959	22.24	122
					1960	Feb. 8, 1960	21.87	102
					1961			b1
					1962	Feb. 14, 1962	24.54	236
					1963	Mar. 27, 1963	23.37	182
					1964	Jan. 20, 1964	23.67	195
					1965	Dec. 22, 1964	20.42	29
					1966	Dec. 24, 1965	20.24	22
					1967	Jan. 21, 1967	23.59	187
					1968	Jan. 30, 1968	23.02	156
					1969	Dec. 15, 1968	22.65	137
					1970	Jan. 14, 1970	22.52	132
					1971	Mar. 12, 1971	20.72	50
11-4531.5. Putah Creek tributary near Whispering Pines, Calif.								
233	Lat 38°47'10", long 122°41'30", in NE¼ sec. 25, T. 11 N., R. 8 W., at culvert on State Highway 29, 2 miles southeast of Whispering Pines.	a.25	Oct. 1958-	Crest-stage gage, Oct. 16, 1958-	1959	Feb. 16, 1959	11.99	35
					1960	Feb. 8, 1960	11.94	30
					1961	Jan. 31, 1961	11.40	17
					1962	Feb. 13, 1962	12.41	40
					1963	Feb. 1, 1963	13.60	58
					1964	Jan. 20, 1964	11.55	24
					1965	Dec. 22, 1964	13.00	50
					1966	Jan. 4, 1966	12.06	33
					1967	Jan. 21, 1967	12.01	32
					1968	Jan. 30, 1968	11.84	29
					1969	Jan. 21, 1969	11.49	23
					1970	Jan. 23, 1970	13.34	54
					1971	Dec. 3, 1970	11.69	27
11-4537. Capell Creek tributary near Wooden Valley, Calif.								
234	Lat 38°26'05", long 122°12'15", in SW¼ sec. 21, T. 7 N., R. 3 W., at culvert on State Highway 37, 4 miles north of Wooden Valley.	.87	Oct. 1958-	Crest-stage gage, Oct. 17, 1958-	1959	Feb. 16, 1959	4.18	96
					1960	Feb. 8, 1960	4.91	142
					1961	February 1961		b1
					1962	Feb. 13, 1962	4.40	94
					1963	Jan. 31, 1963	7.40	328
					1964	Jan. 20, 1964	5.53	168
					1965	Jan. 5, 1965	5.11	162
					1966	Jan. 4, 1966	4.10	91
					1967	Jan. 21, 1967	7.49	345
					1968	Jan. 30, 1968	3.50	58
					1969	Feb. 15, 1969	3.06	37
					1970	Jan. 24, 1970	6.72	280
					1971	Dec. 3, 1970	5.04	152

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data				
					Water year	Date	Gage height (ft)	Discharge (cfs)	
11-4559.5. Sulphur Creek near St. Helena, Calif.									
235	Lat 38°29'16", long 122°28'50", in NE¼ sec. 2, T. 7 N., R. 6 W., at bridge on private road 1.3 miles southwest of St. Helena.	4.50	Oct. 1957-	Crest-stage gage, Oct. 25, 1957-	1956	Dec. 21, 1955	15.80		
					1958	Feb. 24, 1958	13.53	924	
					1959	Feb. 16, 1959	11.67	470	
					1960	Feb. 8, 1960	13.32	860	
					Water-stage recorder, Dec. 16, 1965-Sept. 30, 1967.	1961	Jan. 31, 1961	11.04	400
						1962	Feb. 14, 1962	11.48	435
						1963	Oct. 14, 1962	12.43	645
						1964	Jan. 20, 1964	10.46	235
						1965	Dec. 23, 1964	10.80	980
						1966	Jan. 5, 1966	10.51	506
						1967	Jan. 21, 1967	10.77	518
						1968	Jan. 30, 1968	(r)	(d)
					1969	Jan. 21, 1969	9.99	305	
					1970	(m)	(m)	(m)	
1971	Dec. 3, 1970	11.08	570						
11-4564. Lake Hennessey tributary near Rutherford, Calif.									
236	Lat 38°29'00", long 122°21'15", in SW¼ sec. 6, T. 7 N., R. 4 W., at culvert on State Highway 128, 4 miles northeast of Rutherford.	1.04	Oct. 1958-	Crest-stage gage, Oct. 17, 1958-	1959	Feb. 16, 1959	5.53	51	
					1960	Feb. 8, 1960	5.61	53	
					1961	Jan. 31, 1961	4.14	4.1	
					1962	Feb. 14, 1962	5.69	56	
					1963	Jan. 31, 1963	7.71	142	
					1964	Jan. 20, 1964	4.45	22	
					1965	Jan. 5, 1965	8.50	184	
					1966	Jan. 4, 1966	4.71	33	
					1967	Jan. 21, 1967	7.46	128	
					1968	Jan. 30, 1968	5.36	46	
					1969	Jan. 13, 1969	5.22	43	
					1970	(m)	(m)	(m)	
					1971	Dec. 3, 1970	5.50	50	
					11-4584. Sonoma Creek near Kenwood, Calif.				
237	Lat 38°26'32", long 122°32'15", in NE¼ sec. 20, T. 7 N., R. 6 W., at bridge on private road, 2.0 miles north of Kenwood.	a6.07	Oct. 1957-	Crest-stage gage, Oct. 23, 1957-	1958	Feb. 24, 1958	13.25	1,510	
					1959	Feb. 16, 1959	12.53	640	
					1960	Feb. 8, 1960	17.10	1,430	
					1961	Dec. 1, 1960	11.83	395	
					1962	Feb. 13, 1962	12.62	685	
					1963	Jan. 31, 1963	13.10	910	
					1964	Jan. 20, 1964	12.95	850	
					1965	Jan. 5, 1965	16.35	(c)	
					1966	Jan. 5, 1966	14.49	1,750	
					1967	Jan. 21, 1967	14.88	(c)	
					1968	Jan. 30, 1968	12.51	640	
					1969	Jan. 26, 1969	13.05	900	
					1970	Jan. 21, 1970	14.28	1,600	
					1971	Dec. 3, 1970	14.24	1,570	
11-4614. East Fork Russian River tributary near Potter Valley, Calif.									
238	Lat 39°15'30", long 123°06'55", in NE¼ sec. 7, T. 16 N., R. 11 W., at culvert on Potter Valley road, 4.4 miles south of Potter Valley.	.15	Oct. 1958-	Crest-stage gage, Oct. 15, 1958-	1959	Jan. 12, 1959	8.08	19	
					1960	Mar. 12, 1960	9.89	65	
					1961	Dec. 1, 1960	8.82	44	
					1962	Dec. 13, 1961	8.79	43	
					Water-stage recorder, Oct. 15, 1958-Sept. 30, 1961.	1963	Oct. 12, 1962	11.72	94
						1964	Jan. 20, 1964	8.43	33
						1965	Dec. 22, 1964	14.46	121
						1966	Jan. 4, 1966	9.12	51
						1967	Jan. 20, 1967	8.13	21
						1968	Jan. 30, 1968	7.75	12
						1969	Jan. 26, 1969	7.90	16
						1970	Jan. 23, 1970	9.43	57
					1971	Jan. 16, 1971	8.83	44	

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																											
					Water year	Date	Gage height (ft)	Discharge (cfs)																																								
11-4621.25. Slide Creek near Ukiah, Calif.																																																
239	Lat 39°04'15", long 123°12'35", in NW¼SW¼ sec. 17, T. 14 N., R. 12 W., at culvert on Boonville road, 5.5 miles south of Ukiah.	0.57	Oct. 1958-	Crest-stage gage, Oct. 15, 1958-	1959	Feb. 21, 1959	13.64	65																																								
					1960	Feb. 8, 1960	13.20	54																																								
					1961	Mar. 14, 1961	12.07	28																																								
					1962	Feb. 13, 1962	13.00	49																																								
					1963	Jan. 31, 1963	13.61	64																																								
					1964	Jan. 20, 1964	12.43	36																																								
					1965	Dec. 23, 1964	16.00	163																																								
					1966	Jan. 4, 1966	13.89	70																																								
					1967	Jan. 20, 1967	12.97	47																																								
					1968	Jan. 30, 1968	12.54	38																																								
					1969	Jan. 13, 1969	13.52	59																																								
					1970	Jan. 23, 1970	15.87	132																																								
					1971	Jan. 16, 1971	13.89	70																																								
11-4640.5. Dry Creek tributary near Hopland, Calif.																																																
240	Lat 38°53'10", long 123°09'15", in sec. 13, T. 12 N., R. 12 W., at culvert on State Highway 128, 6.5 miles southwest of Hopland.	41.19	Oct. 1958-	Crest-stage gage, Oct. 15, 1958-	1959	Feb. 16, 1959	3.51	158																																								
					1960	Feb. 8, 1960	2.72	113																																								
					1961	Dec. 1, 1960	2.38	94																																								
					Water-stage recorder, Sept. 6, 1967-Sept. 30, 1971.	1962	Feb. 13, 1962	3.86	185																																							
						1963	Jan. 31, 1963	3.99	193																																							
						1964	Jan. 20, 1964	2.12	80																																							
						1965	Dec. 22, 1964	7.41	430																																							
						1966	Jan. 4, 1966	2.56	104																																							
						1967	Dec. 4, 1966	2.46	98																																							
						1968	Jan. 14, 1968	2.25	110																																							
						1969	Jan. 21, 1969	3.09	151																																							
						1970	Jan. 23, 1970	4.05	230																																							
						1971	Dec. 3, 1970	2.12	103																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>2.7</td> <td>January</td> <td>7.5</td> <td>April</td> <td>1.3</td> <td>July</td> <td>-</td> </tr> <tr> <td>November</td> <td>13.3</td> <td>February</td> <td>.4</td> <td>May</td> <td>.9</td> <td>August</td> <td>-</td> </tr> <tr> <td>December</td> <td>15.9</td> <td>March</td> <td>7.6</td> <td>June</td> <td>-</td> <td>September</td> <td>-</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>49.6</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches								October	2.7	January	7.5	April	1.3	July	-	November	13.3	February	.4	May	.9	August	-	December	15.9	March	7.6	June	-	September	-	Total for water year, October 1, 1970-September 30, 1971							49.6
Monthly and annual precipitation, in inches																																																
October	2.7	January	7.5	April	1.3	July	-																																									
November	13.3	February	.4	May	.9	August	-																																									
December	15.9	March	7.6	June	-	September	-																																									
Total for water year, October 1, 1970-September 30, 1971							49.6																																									
11-4650.5. Dutcher Creek near Asti, Calif.																																																
241	Lat 38°43'20", long 122°58'35", in Tzabaco Grant, at culvert on Dutcher Creek road, 3 miles south of Asti.	42.25	Oct. 1958-	Crest-stage gage, Oct. 16, 1958-	1959	Feb. 16, 1959	9.46	381																																								
					1960	Feb. 8, 1960	7.13	165																																								
					1961	Jan. 31, 1961	7.15	167																																								
					1962	Feb. 13, 1962	8.90	325																																								
					Water-stage recorder, Oct. 19, 1971-	1963	Jan. 31, 1963	8.14	250																																							
						1964	Jan. 20, 1964	6.02	84																																							
						1965	Dec. 22, 1964	9.04	335																																							
						1966	Jan. 4, 1966	7.58	210																																							
						1967	Jan. 21, 1967	8.11	260																																							
						1968	Jan. 30, 1968	8.06	250																																							
						1969	Jan. 13, 1969	7.39	193																																							
						1970	Jan. 23, 1970	8.15	260																																							
						1971	Dec. 3, 1970	6.57	128																																							

See footnotes at end of table.

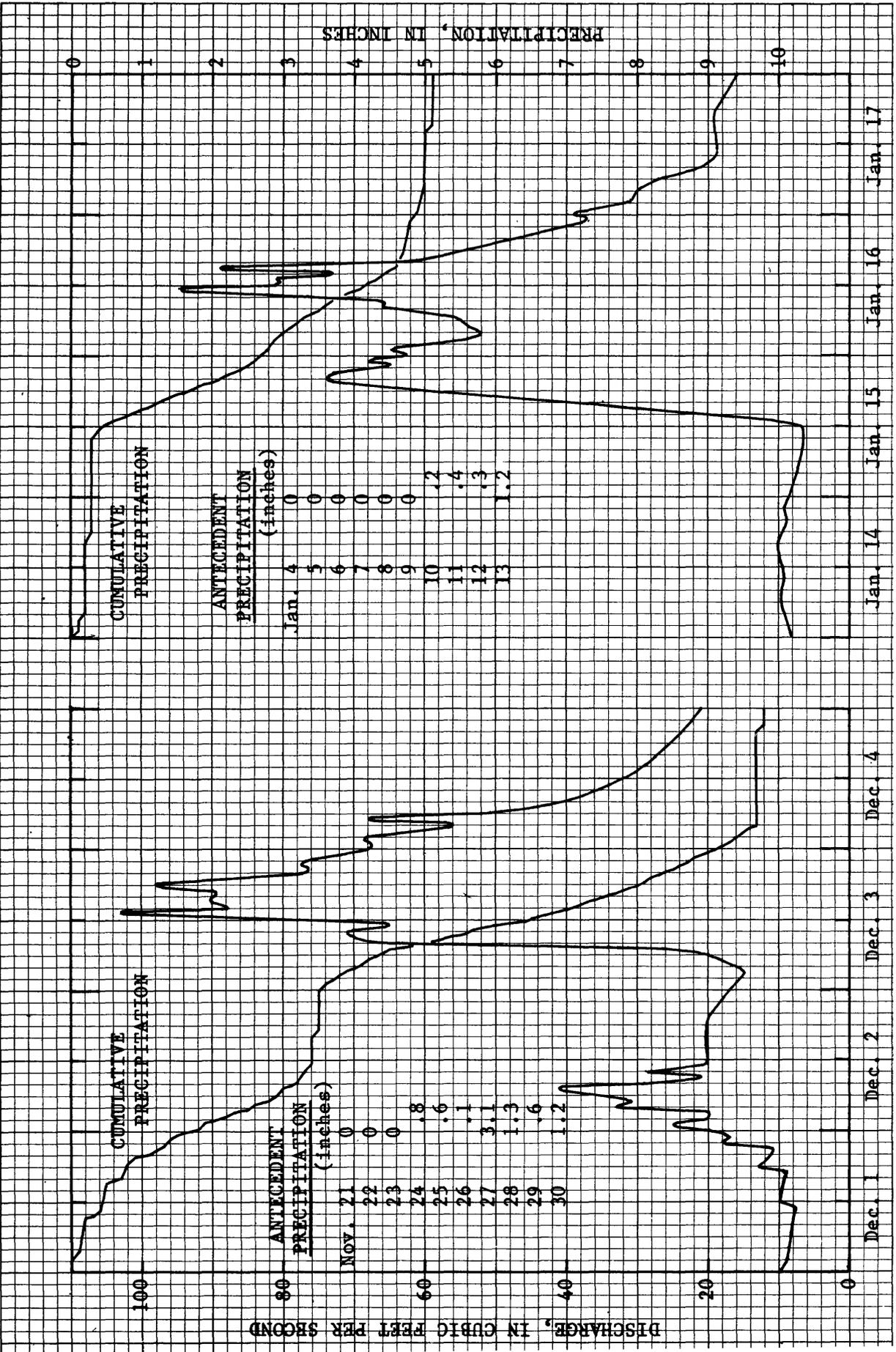


FIGURE 21.--Storm hydrographs and precipitation for Dry Creek tributary near Hopland, December 1-4, 1970, and January 14-17, 1971.

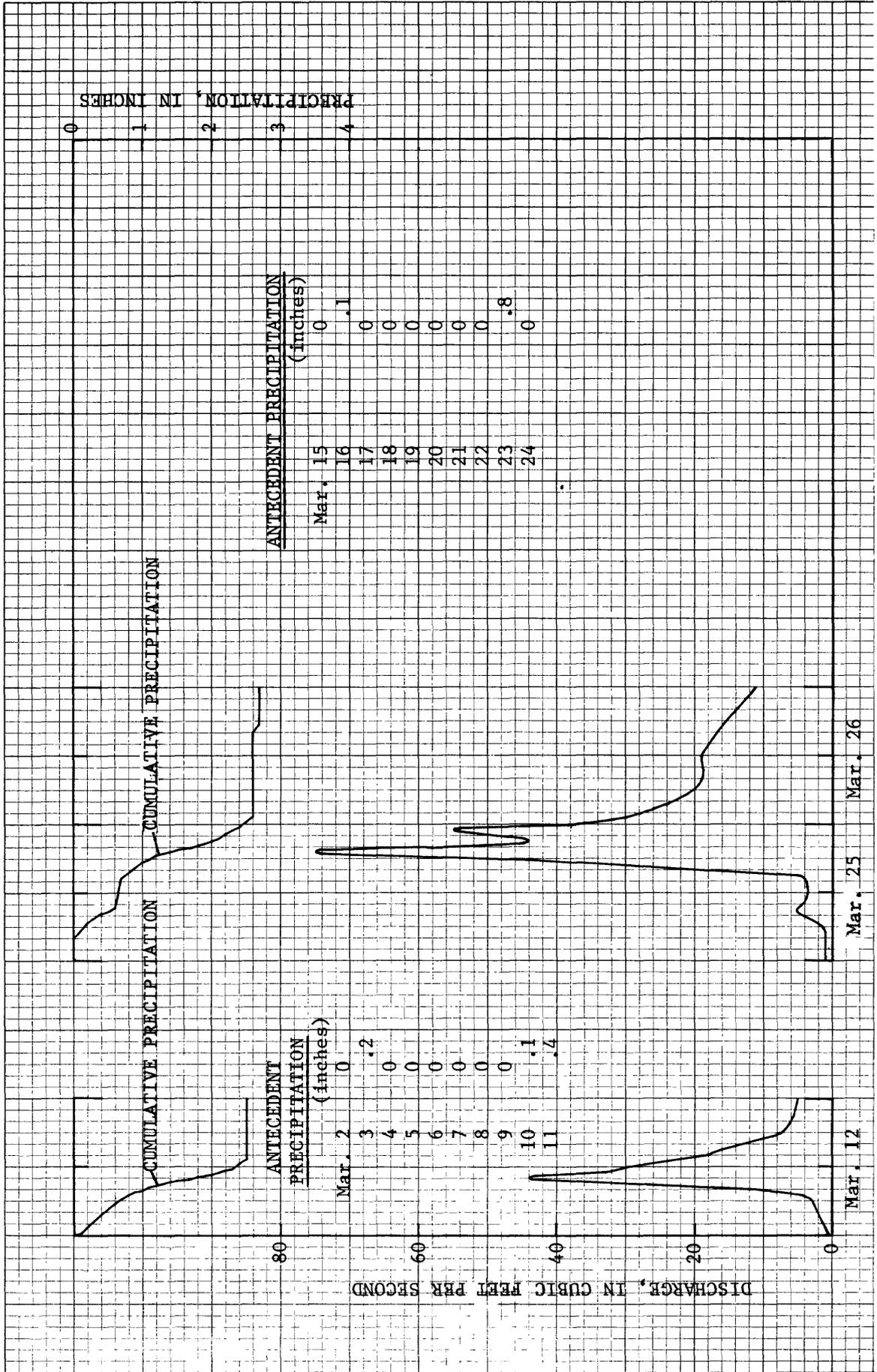


FIGURE 22.---Storm hydrographs and precipitation for Dry Creek tributary near Hopland, March 12 and 25-26, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data				
					Water year	Date	Gage height (ft)	Discharge (cfs)	
11-1851.5. Horse Creek near Clayton, Calif.									
251	Lat 37°54'55", long 121°53'25", in SW $\frac{1}{4}$ sec. 20, T. 1 N., R. 1 E., at culvert on county road 3.0 miles southeast of Clayton.	0.20	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959	Feb. 16, 1959	44.81	13	
					1960	Feb. 8, 1960	44.06	5.4	
					1961	January 1961		b.1	
					1962	Feb. 14, 1962	44.88	14	
					1963	Oct. 13, 1962	47.92	44	
					1964	Jan. 22, 1964	44.19	6.8	
					1965	Jan. 7, 1965	44.39	8.6	
					1966	Feb. 1, 1966		b.1	
					1967	Jan. 21, 1967	44.51	10	
					1968	Jan. 30, 1968	43.83	3.5	
					1969	Jan. 26, 1969	46.54	33	
					1970	Jan. 21, 1970	44.47	9.5	
1971	Nov. 29, 1970	44.18	6.7						
11-2555.5. Little Panoche Creek tributary No. 1 near Panoche, Calif.									
252	Lat 36°43'05", long 120°51'50", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 14 S., R. 10 E., at culvert on county road 8.5 miles north of Panoche.	.33	Oct. 1958-	Crest-stage gage, Nov. 6, 1958-	1959	Feb. 20, 1959	5.32	.7	
					1960	Feb. 9, 1960	5.30	.6	
					1961	Nov. 6, 1960	5.65	4.9	
					1962	Jan. 19, 1962	7.49	58	
					Water-stage recorder,	1963	Feb. 9, 1963	5.47	2.2
						1964	Jan. 21, 1964	5.33	1.0
					Nov. 5, 1958-	1965	Apr. 10, 1965	5.54	3.0
						1966	Nov. 23, 1965	6.74	29
					Sept. 30, 1964.	1967	Dec. 6, 1966	5.72	5.6
						1968	Nov. 21, 1967	6.55	25
					1969	Feb. 24, 1969	6.35	21	
					1970	Mar. 4, 1970	5.65	4.4	
					1971	Dec. 19, 1970	e5.69	.1	
					11-2556. Little Panoche Creek tributary No. 2 near Panoche, Calif.				
253	Lat 36°47'15", long 120°45'55", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 13 S., R. 11 E., at culvert on county road 15 miles northeast of Panoche.	14.8	Oct. 1958-	Crest-stage gage, Nov. 6, 1958-	1959	Feb. 20, 1959	2.64		
					1960	Feb. 9, 1960	3.18	b14	
					1961	Jan. 25, 1961	10.10	108	
					1962	Mar. 6, 1962	3.72	23	
					1963	Feb. 13, 1963	6.07	79	
					1964			No flow	
					1965	Nov. 12, 1964	7.98	103	
					1966	Nov. 23, 1965	5.66	59	
					1967	Jan. 24, 1967	3.95	32	
					1968	Nov. 21, 1967	9.61	113	
					1969	Feb. 24, 1969	4.07	30	
					1970			No flow	
					1971			(r)	
					11-2587. Deep Creek near Oro Loma, Calif.				
254	Lat 36°53'00", long 120°47'15", in SE $\frac{1}{4}$ sec. 17, T. 12 S., R. 11 E., at culvert on county road 4.5 miles west of Oro Loma.	6.96	Oct. 1958-	Crest-stage gage, Oct. 8, 1958- Sept. 30, 1969.	1959	Feb. 21, 1959	2.72	b2.5	
					1960			(d)	
					1961	Feb. 2, 1961	(m)	b1	
					1962	Feb. 18, 1962	8.32	n532	
					Water-stage recorder,	1963	Feb. 13, 1963	5.78	24
						1964			No flow
					Aug. 15, 1963-	1965	Nov. 12, 1964	g16.89	24
						1966	Nov. 23, 1965	20.54	n645
					Sept. 30, 1964.	1967	Dec. 6, 1966	15.96	8
						1968	Mar. 13, 1968	16.27	13
1969	Jan. 25, 1969	16.05	n7.0						

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-2629.5.	Wolf Creek near Volta, Calif.					
255	Lat 37°04'05", long 121°09'40", in San Luis Gonzaga Grant, at culvert on State Highway 152, 13 miles west of Volta.	2.82	Oct. 1958-	Crest-stage gage, Oct. 8, 1958-Sept. 30, 1968.	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968	Feb. 21, 1959 Feb. 10, 1960 Feb. 18, 1962 Feb. 1, 1963 Jan. 20, 1965 Dec. 30, 1965 Jan. 24, 1967 Jan. 9, 1968	3.14 3.28 4.06 5.70 3.17 4.83	15 19 56 207 16 8 156 b1
		11-2746.	Del Puerto Creek tributary No. 1 near Patterson, Calif.					
256	Lat 37°24'15", long 121°26'10", in NE¼NW¼ sec. 21, T. 6 S., R. 5 E., at culvert on county road, 300 ft upstream from Del Puerto Creek, and 17.5 miles southwest of Patterson.	.71	Oct. 1958-	Crest-stage gage, Oct. 3, 1958-1961 Water-stage recorder, Oct. 1, 1963-Sept. 30, 1969.	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 16, 1959 Feb. 10, 1960 Mar. 7, 1962 Feb. 1, 1963 Jan. 20, 1964 Dec. 22, 1964 Jan. 29, 1966 Jan. 21, 1967 Jan. 30, 1968 Jan. 26, 1969 Mar. 4, 1970 Mar. 13, 1971	93.57 93.05 93.56 93.73 7.61 7.94 7.19 8.35 7.51 8.37 7.57 7.47	17 5.0 17 20 1.3 9.0 .3 16 2.1 17 2.6 1.9
		11-2746.1.	Del Puerto Creek tributary No. 2 near Patterson, Calif.					
257	Lat 37°25'25", long 121°20'30", in NE¼SW¼ sec. 8, T. 6 S., R. 6 E., at culvert on county road 12 miles southwest of Patterson.	.024	Oct. 1958-	Crest-stage gage, Oct. 3, 1958-Sept. 30, 1969. Water-stage recorder, Oct. 24, 1958-Sept. 30, 1964.	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969	Feb. 16, 1959 Jan. 24, 1967 Jan. 26, 1969	5.73 5.80 5.78	b.5 No flow No flow No flow No flow No flow No flow No flow .9 No flow .9
		11-2746.2.	Windmill Canyon Creek near Patterson, Calif.					
258	Lat 37°27'15", long 121°16'10", in SE¼ sec. 35, T. 5 S., R. 6 E., at culvert on county road 7.5 miles west of Patterson.	.99	Oct. 1958-	Crest-stage gage, Oct. 3, 1958-	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 6, 1959 Nov. 13, 1960 Feb. 15, 1962 Apr. 9, 1965 February 1966 Jan. 24, 1967 Jan. 30, 1968 Jan. 25, 1969	3.19 3.70 3.12 3.13 3.28 3.24 3.25	b3 No flow b8 b1 No flow b.5 b.5 1.5 b3 1.8 2.0 (m) (m)

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-3129.5. Mountain House Creek tributary near Altamont, Calif.								
259	Lat 37°44'42", long 121°37'50", in SW¼NE¼ sec. 22, T. 2 S., R. 3 E., at culvert on old U.S. Highway 50, 1.8 miles east of Altamont.	0.27	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959	Feb. 16, 1959		b0.5
					1960	Feb. 1, 1960	6.10	b2
					1961	Jan. 31, 1961	5.84	b.2
					1962	Feb. 9, 1962		b.2
					1963	Feb. 1, 1963	6.25	b.5
					1964	June 9, 1964	5.81	.1
					1965	Jan. 19, 1965		b.3
					1966	Nov. 15, 1965	6.10	1
					1967	Mar. 12, 1967	6.20	4.2
					1968	Jan. 30, 1968		b3
					1969	Feb. 24, 1969	6.14	4.1
					1970			(m)
					1971			(m)
11-3129.25. Mountain House Creek near Midway, Calif.								
260	Lat 37°44'45", long 121°35'00", in SW¼NW¼ sec. 19, T. 2 S., R. 4 E., at culvert on county road 2.5 miles northwest of Midway.	11.7	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959	Feb. 16, 1959	2.92	b10
					1960	Feb. 8, 1960	4.12	b60
					1961	Jan. 31, 1961	2.64	3.6
					1962	Mar. 6, 1962	2.74	22
					1963	Feb. 1, 1963	2.65	19
					1964	Jan. 21, 1964	2.60	b8
					1965	Dec. 23, 1964	2.30	5.9
					1966	Nov. 16, 1965	2.46	13
					1967	Jan. 30, 1967	3.74	54
					1968	Jan. 30, 1968	3.30	40
					1969	Jan. 24, 1969	4.43	84
					1970	Mar. 4, 1970	3.47	46
					1971	May 2, 1971	3.96	63
11-3131. Kellogg Creek tributary near Byron, Calif.								
261	Lat 37°50'45", long 121°43'05", in SE¼ sec. 14, T. 1 S., R. 2 E., at culvert on county road 4.5 miles southwest of Byron.	1.09	Oct. 1958-	Crest-stage gage, Oct. 1, 1958-	1959	Feb. 21, 1959		b.1
					1960			No flow
					1961			b0
					1962	Feb. 15, 1962	41.65	9.4
					1963	Jan. 31, 1963	42.38	15
					1964	Jan. 20, 1964	41.33	7.0
					1965	Dec. 22, 1964	41.53	8.2
					1966			b0
					1967	Jan. 21, 1967	43.02	30
					1968	Jan. 30, 1968	41.70	9.4
					1969	Jan. 26, 1969	43.16	33
					1970	Jan. 21, 1970	41.69	9.3
					1971	Nov. 29, 1970	41.51	8.0

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-1426. Redwood Gulch near Jolon, Calif.								
278	Lat 35°50'12", long 121°23'25", in NE¼ sec. 23, T. 24 S., R. 5 E., at culvert on State Highway 1, 15 miles west of Jolon.	1.31	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961			(d)
					1962	Feb. 9, 1962	52.96	148
					1963	Jan. 31, 1963	55.70	372
					1964	January 1964	51.97	(c)
					1965	Jan. 6, 1965	53.55	185
					1966	Nov. 17, 1965	52.38	100
					1967	Dec. 6, 1966	52.98	150
					1968	Mar. 13, 1968	52.15	63
					1969	Jan. 25, 1969	55.58	350
					1970	Jan. 25, 1970	53.59	187
					1971	Dec. 20, 1970	54.86	285
11-1428. Rat Creek near Lucia, Calif.								
279	Lat 36°05'32", long 121°37'03", in SW¼NE¼ sec. 22, T. 21 S., R. 3 E., at culvert on State Highway 1, 6.2 miles northwest of Lucia.	.82	Aug. 1960-	Crest-stage gage, Aug. 5, 1960-	1961	Jan. 26, 1961	.74	1.7
					1962	Feb. 10, 1962	1.20	10
					1963	Jan. 31, 1963	1.78	18
					1964	January 1964	.88	1.5
				Water-stage recorder, Aug. 5, 1960-	1965	Nov. 12, 1964	1.96	24
				Aug. 13, 1963.	1966	Nov. 17, 1965	2.15	28
					1967	Dec. 6, 1966	1.68	18
					1968	Jan. 30, 1968	a.96	a5.8
					1969	Jan. 25, 1969	1.77	20
					1970	Jan. 25, 1970	1.38	13
					1971	Dec. 21, 1970	1.04	7.0
11-1430.5. Doud Creek near Carmel, Calif.								
280	Lat 36°25'18", long 121°54'40", in San Jose Y Sur Chiquito Grant at culvert on State Highway 1, 9.3 miles south of Carmel.	2.75	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961	Nov. 13, 1960	50.56	6.0
					1962	Feb. 9, 1962	50.59	7.0
					1963	Jan. 31, 1963	51.24	42
					1964	Jan. 20, 1964		b2
					1965	Jan. 6, 1965	50.69	11
					1966			b0
					1967	Apr. 21, 1967	51.24	29
					1968	Jan. 30, 1968	(r)	b2
					1969	Feb. 24, 1969	51.64	42
					1970	Jan. 25, 1970	51.12	25
					1971	Dec. 21, 1970	51.08	24
11-1431.9. Klondike Canyon near Carmel Valley, Calif.								
281	Lat 36°28'15", long 121°42'45", in Los Tularcitos Grant, on county road, 1.2 miles southeast of Carmel Valley.	2.14	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961	January 1961		b.1
					1962	Feb. 9, 1962	50.71	6.1
					1963	Jan. 31, 1963	50.60	4.7
					1964	Jan. 20, 1964		b.1
					1965	Jan. 7, 1965		b.1
					1966			b0
					1967	Apr. 6, 1967	50.64	5
					1968	Feb. 17, 1968	(r)	b.5
					1969	Jan. 26, 1969	53.02	49
					1970	(m)	(m)	(m)
					1971	Dec. 21, 1970	54.46	82

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																											
					Water year	Date	Gage height (ft)	Discharge (cfs)																																								
11-1488.2. Sapaque Creek tributary at Bryson, Calif.																																																
282	Lat 35°48'50", long 121°05'25", in NW¼SE¼ sec. 27, T. 24 S., R. 8 E., at culvert on county road, 0.4 mile north of Bryson.	0.76	Sept. 1960-	Crest-stage gage, Sept. 1, 1960-	1961	Dec. 1, 1960	50.06	b0.1																																								
					1962	Feb. 9, 1962	52.22	21																																								
					1963	Jan. 31, 1963	53.40	39																																								
					1964	December 1963	50.67	1.5																																								
					1965	Jan. 6, 1965	50.55	(c)																																								
					1966	Nov. 17, 1965	51.12	4.8																																								
					1967	Jan. 29, 1967	54.40	54																																								
					1968	Feb. 17, 1968	(r)	b5																																								
					1969	Jan. 25, 1969	54.5	72																																								
					1970	Jan. 25, 1970	(r)	b1																																								
					1971	Dec. 21, 1970	(r)	b1																																								
11-1496.5. Sulphur Springs Canyon near Jolon, Calif.																																																
283	Lat 36°01'10", long 121°14'15", in Hunter Liggett Military Reservation, at culvert on Sulphur Springs road, 4.8 miles northwest of Jolon.	5.16	Sept. 1960-	Crest-stage gage, Sept. 3, 1960-	1961			b0																																								
					1962	Feb. 9, 1962	54.22	117																																								
					1963	Jan. 31, 1963	56.04	209																																								
				Water-stage recorder, Oct. 1, 1967-	1964			b0																																								
					1965	Apr. 9, 1965	51.11	13																																								
					1966	Nov. 22, 1965	54.96	150																																								
					1967	Dec. 6, 1966	59.22	372																																								
					1968	-	-	0																																								
					1969	Jan. 26, 1969	58.15	319																																								
					1970	Mar. 1, 1970	53.48	85																																								
					1971	Dec. 20, 1970	53.32	79																																								
<table border="1"> <thead> <tr> <th colspan="8">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0</td> <td>January</td> <td>0.8</td> <td>April</td> <td>0.4</td> <td>July</td> <td>0</td> </tr> <tr> <td>November</td> <td>5.7</td> <td>February</td> <td>.2</td> <td>May</td> <td>0</td> <td>August</td> <td>0</td> </tr> <tr> <td>December</td> <td>5.4</td> <td>March</td> <td>.2</td> <td>June</td> <td>0</td> <td>September</td> <td>0</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>12.7</td> </tr> </tbody> </table>					Monthly and annual precipitation, in inches								October	0	January	0.8	April	0.4	July	0	November	5.7	February	.2	May	0	August	0	December	5.4	March	.2	June	0	September	0	Total for water year, October 1, 1970-September 30, 1971							12.7				
Monthly and annual precipitation, in inches																																																
October	0	January	0.8	April	0.4	July	0																																									
November	5.7	February	.2	May	0	August	0																																									
December	5.4	March	.2	June	0	September	0																																									
Total for water year, October 1, 1970-September 30, 1971							12.7																																									
11-1519.5. Sand Creek near Paraiso Springs, Calif.																																																
284	Lat 36°15'48", long 121°25'48", in NW¼SE¼ sec. 21, T. 19 S., R. 5 E., at culvert on Jamesburg road, 5.8 miles southwest of Paraiso Springs.	14.8	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961	January 1961	(d)	(d)																																								
					1962	Feb. 13, 1962	51.94	(c)																																								
					1963	Jan. 31, 1963	(d)	673																																								
					1964			(d)																																								
					1965	Jan. 6, 1965		b1																																								
					1966			b1																																								
					1967	Dec. 6, 1966		b1																																								
					1968	Feb. 17, 1968	(r)	b1																																								
					1969	Jan. 25, 1969	50.89	8.0																																								
					1970	(m)	(m)	(m)																																								
					1971	Dec. 21, 1970	(r)	b1																																								
11-1527. Moro Cojo Slough tributary near Castroville, Calif.																																																
285	Lat 36°46'30", long 121°43'05", in Bolsa de las Escorpinas Grant, at culvert on State Highway 156, 1.8 miles northeast of Castroville.	.11	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961	January 1961		b.1																																								
					1962	Feb. 13, 1962	50.62	(c)																																								
					1963	Jan. 31, 1963	51.47	12																																								
					1964	November 1963	50.38	4.4																																								
					1965	Dec. 22, 1964	50.68	6.5																																								
					1966			b.1																																								
					1967	Dec. 6, 1966	51.28	11																																								
					1968	Feb. 17, 1968	(r)	b.1																																								
					1969	Feb. 24, 1969	51.39	13																																								
					1970	Jan. 25, 1970	50.76	7.1																																								
					1971	Dec. 21, 1970	50.98	8.7																																								

See footnotes at end of table.

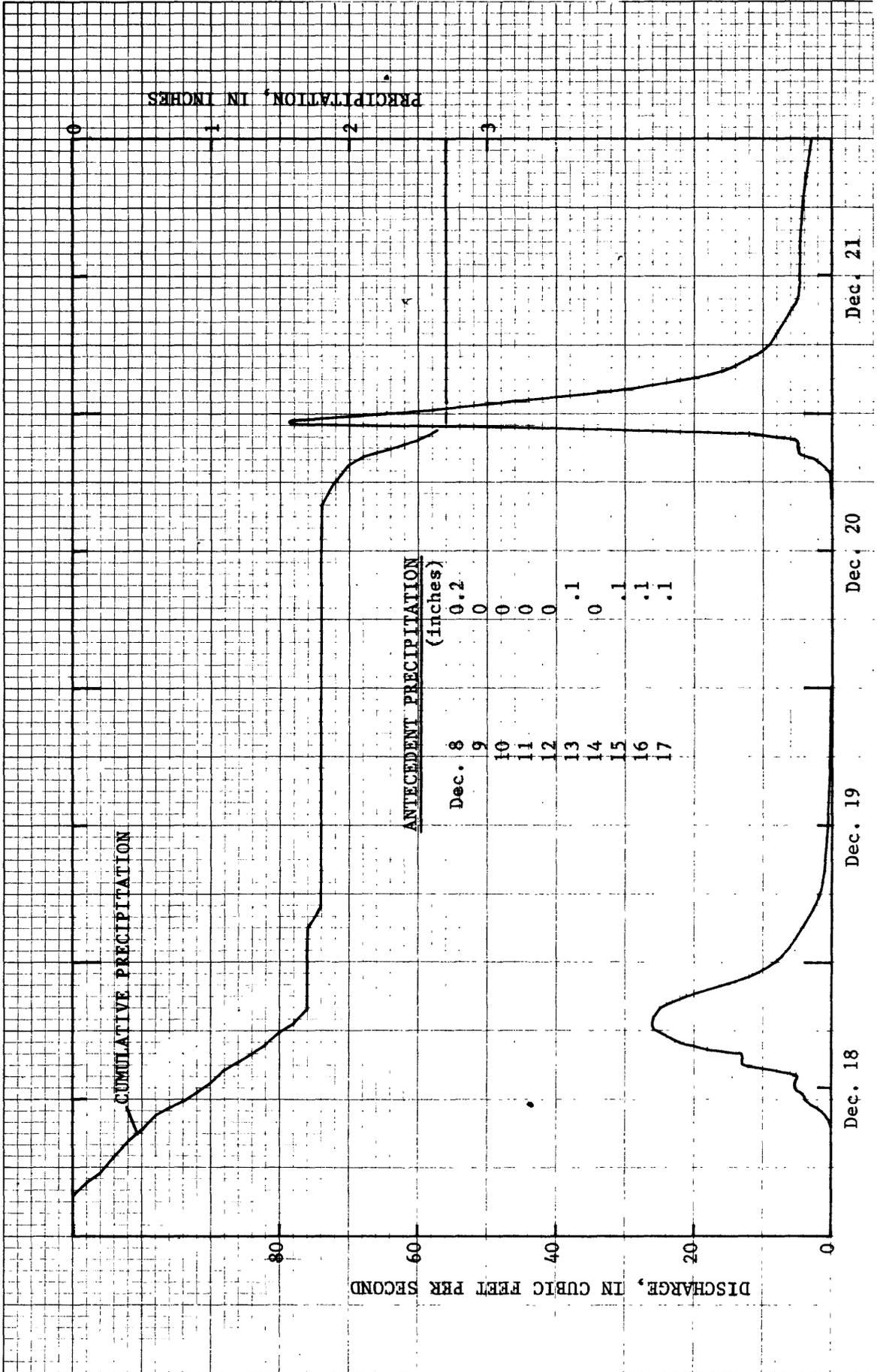


FIGURE 23.--Storm hydrograph and precipitation for Sulphur Springs Canyon near Jolon, December 18-21, 1970.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-1594.			Green Valley Creek near Corralitos, Calif.				
286	Lat 36°58'37", long 121°46'31", in Los Corralitos Grant, at culvert on Green Valley road, 1.9 miles southeast of Corralitos.	7.05	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961	January 1961		b1
					1962	Feb. 9, 1962	52.17	245
					1963	Jan. 31, 1963	56.62	925
					1964	Jan. 21, 1964	52.41	236
				Water-stage recorder, Sept. 15, 1963-	1965	Dec. 22, 1964	54.82	600
					1966	Dec. 28, 1965	50.96	68
					1967	Jan. 21, 1967	55.64	768
				Sept. 30, 1967.	1968	Mar. 13, 1968	51.16	108
					1969	Jan. 19, 1969	53.88	520
					1970	Jan. 16, 1970	53.65	485
					1971	Dec. 21, 1970	51.17	110
	11-1597.7.			Laurel Creek near Laurel, Calif.				
287	Lat 37°07'06", long 121°55'28", in Shoquel Augmentation Grant, at culvert on Old San Jose road, 2.1 miles east of Laurel.	.93	Sept. 1960-	Crest-stage gage, Sept. 6, 1960-	1961	Mar. 15, 1961	26.82	8.0
					1962	Mar. 6, 1962	29.38	112
					1963	Jan. 31, 1963	32.31	290
					1964	Jan. 20, 1964	28.57	78
					1965	Dec. 22, 1964	29.64	124
					1966	Dec. 28, 1965	27.62	32
					1967	Jan. 21, 1967	31.88	262
					1968	Jan. 30, 1968	29.59	120
					1969	Jan. 26, 1969	29.90	138
					1970	Jan. 16, 1970	30.08	147
					1971	Dec. 21, 1970	28.35	63
	11-1600.3.			San Lorenzo River tributary near Boulder Creek, Calif.				
288	Lat 37°10'10", long 122°08'05", in NE¼NE¼ sec. 12, T. 9 S., R. 3 W., at culvert on State Highway 9, 3.2 miles north of Boulder Creek.	a.26	Sept. 1960-	Crest-stage gage, Sept. 7, 1960-	1961	Jan. 26, 1961	51.18	5.0
					1962	Feb. 9, 1962	51.83	(c)
					1963	Jan. 31, 1963	52.80	58
					1964	Jan. 20, 1964	51.02	2.4
					1965	Dec. 22, 1964	51.18	5.0
					1966			(c)
					1967	Jan. 21, 1967	52.43	49
					1968	Jan. 30, 1968	51.92	33
					1969	Jan. 26, 1969	51.73	27
					1970	Jan. 21, 1970	52.05	37
					1971	Nov. 29, 1970	50.93	1.5
	11-1624.7.			Pescadero Creek tributary near La Honda, Calif.				
289	Lat 37°16'40", long 122°17'35", in NW¼SW¼ sec. 34, T. 7 S., R. 4 W., at culvert on Pescadero road, 3.0 miles southwest of La Honda.	.22	Sept. 1960-	Crest-stage gage, Sept. 8, 1960-	1961	January 1961		b.5
					1962	Feb. 14, 1962	48.86	5.1
					1963	Jan. 31, 1963	49.67	17
					1964	Jan. 20, 1964	49.07	7.6
					1965	Dec. 22, 1964	49.05	7.2
					1966	Dec. 28, 1965	48.37	1.4
					1967	Jan. 21, 1967	49.67	16
					1968	Jan. 30, 1968	48.68	3.5
					1969	Jan. 20, 1969	49.10	7.8
					1970	Jan. 21, 1970	49.01	6.8
					1971	Mar. 26, 1971	48.76	4.2

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-1485.5. Indian Valley Creek tributary near Valleton, Calif.								
303	Lat 36°01'25", long 120°39'10", in SW¼ sec. 11, T. 22 S., R. 12 E., at culvert on Indian Valley road, 9.2 miles northeast of Valleton.	0.13	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	November 1960 Feb. 9, 1962 Jan. 31, 1963 Nov. 20, 1963 Apr. 10, 1965 Nov. 23, 1965 Jan. 24, 1967 Mar. 13, 1968 Jan. 26, 1969 Jan. 17, 1970 Dec. 21, 1970	50.56 51.27 51.84 50.60 50.85 50.95 51.57 (r) (d) 50.87 51.02	1.2 6.3 13 1.4 2.8 3.5 9.6 b1 65 3.0 4.2
11-1500.2. San Antonio River tributary near Pleyto, Calif.								
304	Lat 35°50'35", long 120°57'45", in Hunter Liggett Military Reservation, at culvert, 2.1 miles southeast of Pleyto.	.50	Sept. 1960- Sept. 1965.	Crest-stage gage, Sept. 1, 1960- Sept. 30, 1965.	1961 1962 1963 1964 1965	Jan. 31, 1963	52.43	b0 b0 30 b0 b0
11-1507. Feliz Canyon tributary near San Lucas, Calif.								
305	Lat 36°06'35", long 121°03'25", in San Benito Grant, at culvert on county road, 2.5 miles southwest of San Lucas.	3.00	Aug. 1960-	Crest-stage gage, Aug. 31, 1960- Water-stage recorder, Dec. 19, 1966- June 30, 1971.	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 15, 1962 March 1963 Dec. 10, 1963 Jan. 7, 1965 Mar. 2, 1966 Jan. 24, 1967 Mar. 13, 1968 Jan. 26, 1969 (d) Dec. 21, 1970	51.27 50.85 50.45 50.62 51.45 52.03 (r) 54.14 (r) 51.66	b0 10 4.4 1.4 2.3 13 26 b1 102 b1 18
11-1508. Cow Creek near San Ardo, Calif.								
306	Lat 36°10'40", long 120°47'45", in San Lorenzo Grant, at culvert on Peach Tree Valley road, 12.5 miles northeast of San Ardo.	4.80	Sept. 1960-	Crest-stage gage, Sept. 1, 1960- Water-stage recorder, Sept. 1, 1960- July 7, 1964.	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 26, 1961 Feb. 15, 1962 Feb. 9, 1963 Nov. 19, 1963 Jan. 8, 1965 Nov. 23, 1965 Dec. 6, 1966 Dec. 7, 1967 Jan. 26, 1969 Jan. 16, 1970 Dec. 21, 1970	57.13 56.07 51.03 50.45 52.10 51.71 50.77 58.73 54.70 52.14	b.5 213 173 5.6 b1 29 18 2.8 371 130 30

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-1509.5. San Lorenzo Creek tributary near Bitterwater, Calif.								
307	Lat 36°17'30", long 120°58'10", in NE½SW¼ sec. 11, T. 19 S., R. 9 E., at culvert on Lonoak road, 6.4 miles south of Bitterwater.	3.24	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 15, 1962 Jan. 31, 1963 Oct. 28, 1964 Jan. 24, 1967 - Feb. 24, 1969 (d) Dec. 21, 1970	51.37 51.80 - 51.13 - (d) (d) (r)	b0 13 20 b0 b1 b0 8.0 b0 36 (d) b1
11-1516. Little Rabbit Valley Creek near San Benito, Calif.								
308	Lat 36°26'50", long 121°02'50", in SE½SE¼ sec. 13, T. 17 S., R. 8 E., at culvert on State Highway 25, 4.5 miles south of San Benito.	4.25	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 15, 1962 Jan. 31, 1963 January 1964 Apr. 10, 1965 Nov. 23, 1965 Dec. 2, 1966 - Feb. 24, 1969 (d) Dec. 21, 1970	51.06 52.07 - 51.11 50.97 51.05 - 52.03 (d) (r)	b0 (c) 31 b.1 (c) (c) (c) - b0 30 (d) b1
11-1530.5. Pacheco Creek tributary near Dunneville, Calif.								
309	Lat 36°57'55", long 121°24'30", in Ausaymas Y San Felipe Grant, at culvert on State Highway 152, 1.7 miles north of Dunneville.	.17	Aug. 1960-	Crest-stage gage, Aug. 31, 1960- Water-stage recorder, Jan. 31, 1967-June 30, 1971.	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 9, 1962 Jan. 31, 1963 January 1964 Dec. 23, 1964 Dec. 28, 1965 Mar. 16, 1967 - Feb. 24, 1969 Jan. 16, 1970 Dec. 21, 1970	50.69 50.95 - 50.87 51.09 - 51.16 50.72 (r)	b0 2.0 2.9 b.1 b.2 2.5 5.5 b0 6.2 2.0 b1
11-1538. Alec Canyon near Morgan Hill, Calif.								
310	Lat 37°05'00", long 121°47'05", in SE½SE¼ sec. 6, T. 10 S., R. 2 E., at culvert on Croy Creek road, 8.0 miles southwest of Morgan Hill.	.91	Sept. 1960-	Crest-stage gage, Sept. 6, 1960- Water-stage recorder, Oct. 17, 1969-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	January 1961 Feb. 14, 1962 Jan. 31, 1963 Jan. 20, 1964 Dec. 22, 1964 Dec. 25, 1965 Jan. 22, 1967 Jan. 30, 1968 Jan. 19, 1969 Jan. 16, 1970 Nov. 29, 1970	55.07 - 53.44 53.00 52.24 62.04 53.93 56.54 56.97 51.89	b2 100 367 63 51 25 190 75 127 142 21
Monthly and annual precipitation, in inches								
October	0.50	January	4.13	April	1.83	July	0	
November	13.83	February	.63	May	.11	August	0	
December	10.27	March	3.59	June	0	September	0	
Total for water year, October 1, 1970-September 30, 1971								34.89

See footnotes at end of table.

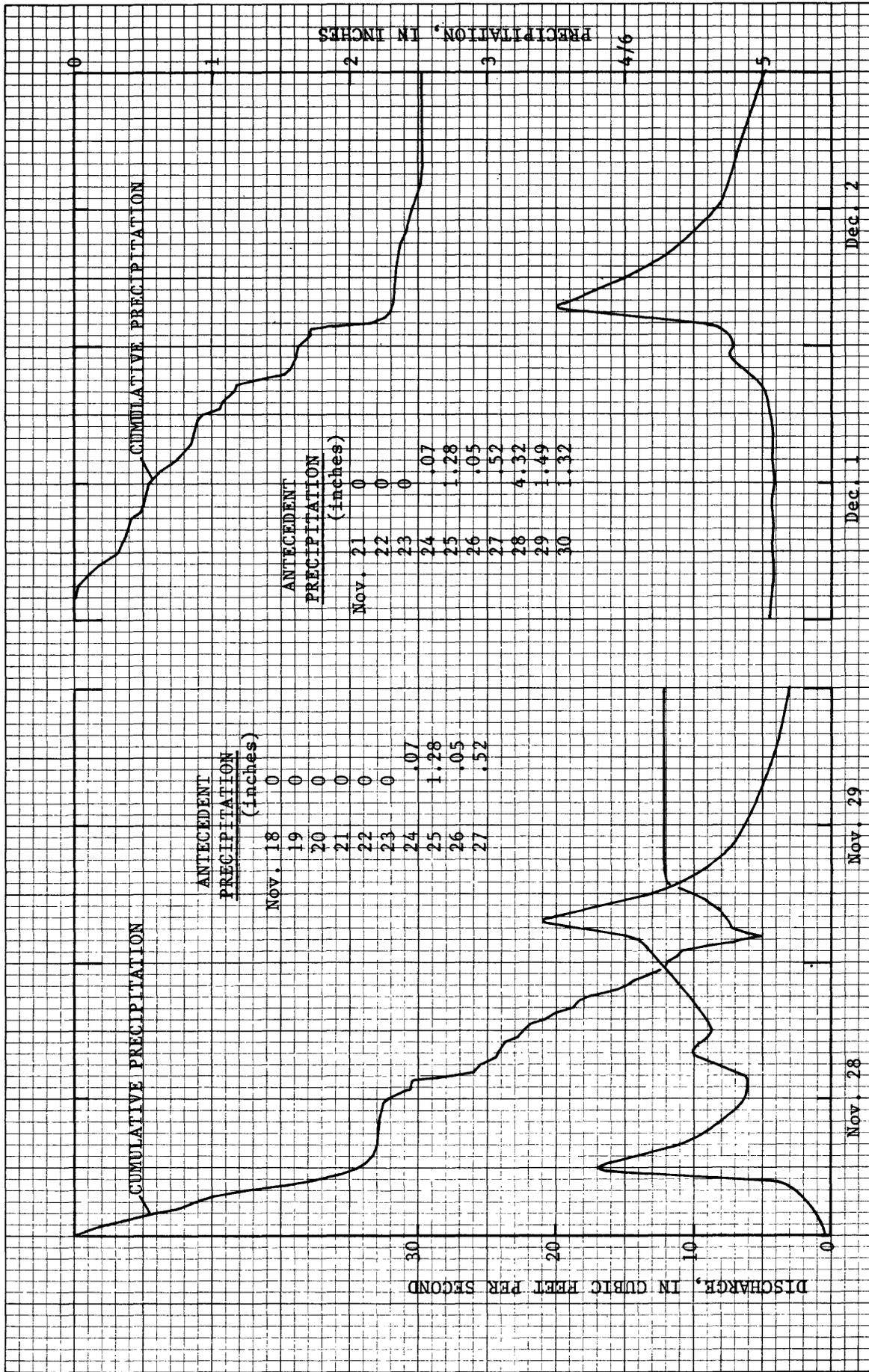


FIGURE 24.--Storm hydrographs and precipitation for Alec Canyon near Morgan Hill, November 28-29 and December 1-2, 1970.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-1564.5. Willow Creek tributary near San Benito, Calif.								
311	Lat 36°35'25", long 121°11'45", in NW¼ sec. 34, T. 15 S., R. 7 E., at culvert on State Highway 25, 9.1 miles northwest of San Benito.	1.24	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961			b0
					1962	Feb. 9, 1962	51.05	4.7
					1963			b0
					1964	Jan. 20, 1964	50.74	2.3
					1965	Apr. 9, 1965	50.20	.4
					1966			0
					1967	Jan. 21, 1967	a50.19	.3
					1968	Jan. 30, 1968	50.12	.2
					1969	Feb. 24, 1969	51.81	40
					1970	(d)	(r)	b.5
1971	Dec. 21, 1970	50.76	2.4					
11-1566.8. Thompson Creek near Paicines, Calif.								
312	Lat 36°41'15", long 121°20'35", in NW¼ sec. 29, T. 14 S., R. 6 E., at culvert on Limekiln Road, 4.6 miles southwest of Paicines.	9.67	Aug. 1960-	Crest-stage gage, Aug. 31, 1960-	1961	Jan. 26, 1961	50.46	(c)
					1962	Feb. 14, 1962	51.22	7.9
					1963	May 1963	50.52	(c)
					1964			b0
					1965	Dec. 27, 1964	51.22	7.9
					1966	Jan. 29, 1966	50.44	.2
					1967	Apr. 23, 1967	51.92	21
					1968	-	-	b0
					1969	Feb. 24, 1969	54.27	76
					1970	Jan. 16, 1970	51.77	18
1971	Dec. 21, 1970	51.09	7.4					
11-1667. Arroyo Calero tributary near New Almaden, Calif.								
313	Lat 37°10'40", long 121°45'30", in Pueblo Lands of San Jose Grant, at culvert on McKean road, 3.7 miles east of New Almaden.	a.17	Sept. 1960-	Crest-stage gage, Sept. 15, 1960-	1961			b0
					1962	Feb. 14, 1962	55.57	20
					1963	Jan. 31, 1963	59.83	28
					1964	Jan. 21, 1964	52.80	13
					1965	Jan. 7, 1965	53.36	15
					1966	Dec. 28, 1965	52.53	12
					1967	Mar. 16, 1967	57.56	24
					1968	Jan. 30, 1968	57.75	25
					1969	Jan. 19, 1969	56.21	22
					1970	Jan. 16, 1970	51.91	9.6
1971	Nov. 29, 1970	50.80	4.0					

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data				
					Water year	Date	Gage height (ft)	Discharge (cfs)	
	11-1477.			Cholame Creek tributary near Cholame, Calif.					
326	Lat 35°45'10", long 120°15'50", in Cholame Grant, at culvert on State Highway 41, 2.8 miles northeast of Cholame.	9.26	Oct. 1958-	Crest-stage gage, Oct. 14, 1958-	1959	Feb. 16, 1959	3.59	18	
					1960	Feb. 1, 1960	2.73	.4	
					1961	Nov. 5, 1960	2.60	.1	
					1962	Feb. 9, 1962	4.99	118	
					Water-stage recorder, Oct. 14, 1958-	1963	Jan. 31, 1963	2.55	.5
						1964	Jan. 22, 1964	3.44	14
					Sept. 30, 1965.	1965	Jan. 4, 1965	2.51	.2
						1966	Nov. 2, 1965	-	b.1
					1967	Dec. 6, 1966	11.50	750	
					1968	-	-	b0	
					1969	Jan. 25, 1969	11.10	700	
					1970	(d)	(r)	b.5	
					1971	Dec. 21, 1970	(r)	b1	
	11-1477.5.			White Canyon Creek at Cholame, Calif.					
327	Lat 35°42'50", long 120°18'15", in NE¼ sec. 36, T. 25 S., R. 15 E., at culvert on U.S. Highway 466, 0.8 mile southwest of Cholame.	4.80	Oct. 1958-	Crest-stage gage, Oct. 14, 1958-	1959	Feb. 16, 1959		b.8	
					1960			b0	
					1961			b0	
					1962	Feb. 9, 1962	3.52	(c)	
					1963	Jan. 31, 1963		b.1	
					1964			b0	
					1965			0	
					1966			0	
					1967	Dec. 6, 1966	5.68	94	
					1968	-	-	b0	
					1969	Feb. 24, 1969	6.52	444	
					1970	(d)	(d)	(d)	
					1971	Dec. 21, 1970	(r)	b.5	
	11-1940.5.			Tumbleweed Creek near Oildale, Calif.					
328	Lat 35°27'55", long 119°01'30", in NW¼ sec. 25, T. 28 S., R. 27 E., at culvert on county road 3.2 miles north of Oildale.	2.40	Oct. 1958-	Crest-stage gage, Oct. 17, 1958-	1959			No flow	
					1960	Jan. 10, 1960		b.05	
					1961	Nov. 5, 1960	2.86	18	
					1962	Feb. 8, 1962	2.54	b12	
					1963	Feb. 13, 1963	4.65	104	
					1964			No flow	
					1965	April 1965		.1	
					1966			No flow	
					1967	Dec. 6, 1966	2.25	b1	
					1968			No flow	
					1969	Feb. 24, 1969	2.47	b1	
					1970			(m)	
					1971	May 26, 1971	(d)	b2	
	11-1941.			Culvert Creek near Oildale, Calif.					
329	Lat 35°29'50", long 119°04'30", in NW¼ sec. 16, T. 28 S., R. 27 E., at culvert on State Highway 65, 6 miles northwest of Oildale.	.006	Oct. 1958-	Crest-stage gage, Oct. 17, 1958-Sept. 30, 1969.	1959			No flow	
					1960			No flow	
					1961			No flow	
					1962	July 12, 1962	2.76	b1	
					1963	Feb. 13, 1963	2.76	b1	
					1964			No flow	
					1965			No flow	
					1966			No flow	
					1967	Dec. 6, 1966	2.76	.6	
					1968			No flow	
1969			No flow						

See footnotes at end of table.

HYDROLOGIC REGION XIV

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																									
					Water year	Date	Gage height (ft)	Discharge (cfs)																																						
		11-1950.	Oil Creek near Taft, Calif.																																											
330	Lat 35°09'40", long 119°29'45", in NW¼ sec. 10, T. 32 S., R. 23 E., at culvert on State Highway 33, 2.5 miles northwest of Taft.	0.35	Oct. 1958-	Crest-stage gage, Oct. 16, 1958-	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 16, 1959 Mar. 28, 1960 Nov. 6, 1960 Feb. 19, 1962 May 28, 1963 Nov. 21, 1963 Apr. 4, 1965 Feb. 5, 1966 Apr. 7, 1967 Nov. 22, 1967 Jan. 26, 1969	3.96 4.34 4.19 4.92 4.49 4.27 4.11 3.82 3.85 4.28	b2.5 b.1 5.5 4.2 11 6.9 4.9 3.5 1.4 1.6 3.4 (m) (m)																																						
		11-1948.	Shale Creek near Fellows, Calif.																																											
331	Lat 35°13'15", long 119°34'05", in NW¼ sec. 24, T. 31 S., R. 22 E., at culvert on State Highway 33, 3.2 miles northwest of Fellows.	5.86	Oct. 1958-	Crest-stage gage, Oct. 16, 1958-	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 16, 1959 Nov. 5, 1960 Feb. 19, 1962 May 20, 1963 May or June 1964 March or April 1965 Feb. 5, 1966 Jan. 24, 1967 Feb. 14, 1968 Feb. 24, 1969	8.53 8.56 10.16 6.20 7.28 7.29 8.05 6.85 6.95 7.61	58 No flow 57 118 b.1 20 17 37 11 13 29 (r) (r)																																						
		11-1945.	Sand Creek near McKittrick, Calif.																																											
332	Lat 35°19'25", long 119°37'35", in NE¼NE¼ sec. 17, T. 30 S., R. 22 E., at culvert on State Highway 33, 1.2 miles north of McKittrick.	.32	Oct. 1958-	Crest-stage gage, Oct. 15, 1958-Sept. 30, 1968.	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968	Feb. 16, 1959 Nov. 5, 1960 Feb. 17, 1962 Mar. 28, 1963 Dec. 29, 1965 Apr. 7, 1967	5.85 6.03 6.10 6.12	b9.5 No flow 12 14 b.1 No flow No flow b.1 35 No flow																																						
		11-1942.	Wagon Wheel Creek near Reward, Calif.																																											
333	Lat 35°19'25", long 119°44'30", in SE¼SW¼ sec. 8, T. 30 S., R. 21 E., at culvert on private road 3.5 miles west of Reward.	1.38	Oct. 1958-	Crest-stage gage, Oct. 15, 1958- Water-stage recorder, Oct. 7, 1965-	1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 16, 1959 Feb. 1, 1960 Nov. 27, 1960 Feb. 19, 1962 January 1964 Aug. 14, 1965 Nov. 25, 1965 Dec. 6, 1966 Mar. 7, 1968 Feb. 28, 1969 Mar. 4, 1970 Dec. 21, 1970	9.05 6.97 9.55 9.92 8.65 13.44 9.07 7.66 7.25 8.79 7.77 7.98	52 b6 64 76 b.2 40 306 51 17 10 69 37 43																																						
<table border="1"> <thead> <tr> <th colspan="6">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>-</td> <td>January</td> <td>0.3</td> <td>April</td> <td>0.6</td> <td>July</td> <td>0</td> </tr> <tr> <td>November</td> <td>-</td> <td>February</td> <td>.6</td> <td>May</td> <td>.6</td> <td>August</td> <td>0</td> </tr> <tr> <td>December</td> <td>1.3</td> <td>March</td> <td>.6</td> <td>June</td> <td>0</td> <td>September</td> <td>0</td> </tr> <tr> <td colspan="6">Total for water year, October 1, 1970-September 30, 1971</td> <td>-</td> <td></td> </tr> </tbody> </table>					Monthly and annual precipitation, in inches						October	-	January	0.3	April	0.6	July	0	November	-	February	.6	May	.6	August	0	December	1.3	March	.6	June	0	September	0	Total for water year, October 1, 1970-September 30, 1971						-					
Monthly and annual precipitation, in inches																																														
October	-	January	0.3	April	0.6	July	0																																							
November	-	February	.6	May	.6	August	0																																							
December	1.3	March	.6	June	0	September	0																																							
Total for water year, October 1, 1970-September 30, 1971						-																																								

See footnotes at end of table.

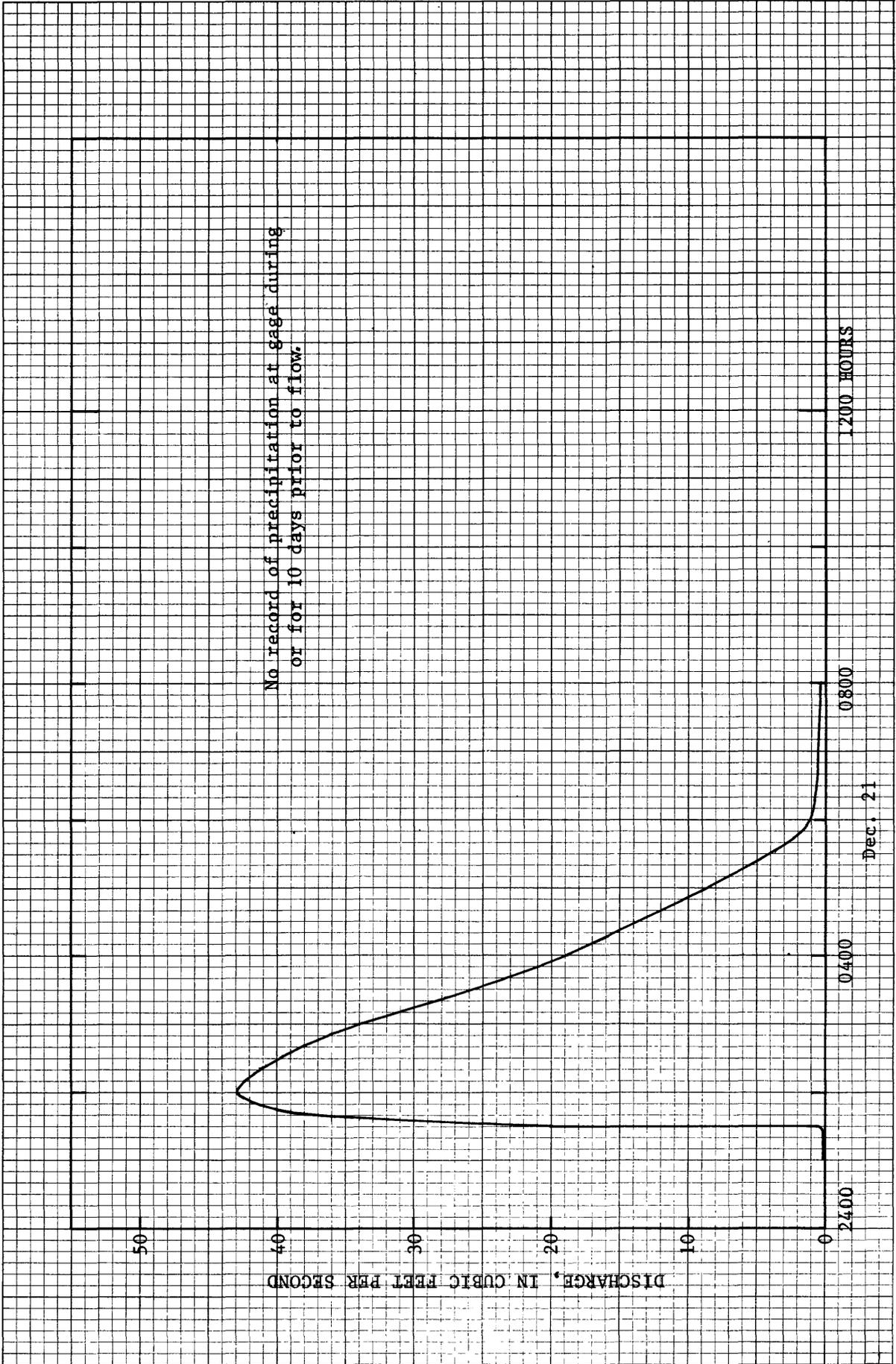


FIGURE 25.--Storm hydrograph for Wagon Wheel Creek near Reward, December 21, 1970.

HYDROLOGIC REGION XIV

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-1980.5.	Mon Canyon Creek near Oildale, Calif.					
334	Lat 35°31'45", long 118°58'25", in NW¼NW¼ sec. 4, T. 28 S., R. 28 E., at culvert on county road, 8 miles northeast of Oildale.	2.38	Oct. 1958-	Crest-stage gage, Oct. 16, 1958-	1959 Feb. 16, 1959 1960 Apr. 27, 1960 1961 Nov. 5, 1960 1962 Dec. 2, 1961 1963 Sept. 18, 1963 1964 Apr. 1, 1964 1965 Dec. 27, 1964 1966 Dec. 6, 1965 1967 Dec. 6, 1966 1968 Nov. 19, 1967 1969 1970 1971 May 26, 1971	5.44 5.20 5.81 5.81 5.51 14.78 5.20 9.86 3.70	b0.2 b.1 b.1 b.2 33 35 b1 .03 b9 b.08 No flow No flow b2.5	
		11-1973.5.	Stoker Canyon Creek near Devils Den, Calif.					
335	Lat 35°46'20", long 120°10'15", in sec. 7, T. 25 S., R. 17 E., at culvert on State Highway 41, 11.5 miles west of Devils Den.	7.51	Oct. 1958-	Crest-stage gage, Oct. 13, 1958-	1959 Feb. 21, 1959 1960 Feb. 1, 1960 1961 Dec. 1, 1960 1962 Feb. 10, 1962 1963 Feb. 3, 1963 1964 1965 November 1964 1966 1967 Dec. 6, 1966 1968 Apr. 1, 1968 1969 Jan. 25, 1969 1970 1971	5.44 5.20 5.81 5.81 5.51 14.78 5.20 9.86	15 b.5 (c) b.1 No flow b10 No flow 517 b.07 288 Minor flow (r)	
		11-2250.5.	Warthan Creek tributary No. 1 near Coalinga, Calif.					
336	Lat 36°05'55", long 120°32'00", in SE¼ sec. 14, T. 21 S., R. 13 E., at culvert on State Highway 198, 10.5 miles southwest of Coalinga.	.13	Oct. 1958-	Crest-stage gage, Oct. 7, 1958-	1959 Feb. 16, 1959 1960 Feb. 1, 1960 1961 Nov. 5, 1960 1962 Feb. 6, 1962 1963 Feb. 9, 1963 1964 1965 1966 Nov. 16, 1965 1967 Dec. 6, 1966 1968 1969 Feb. 24, 1969 1970 Jan. 11, 1970 1971 Dec. 19, 1970	5.38 5.68 5.85 5.82 7.24 7.91 4.67 5.11	b4.5 b.3 No flow 7.2 9.2 No flow No flow 8.9 34 No flow 51 .1 1.8	
		11-2250.75.	Warthan Creek tributary No. 2 near Coalinga, Calif.					
337	Lat 36°05'30", long 120°28'50", in N¼ sec. 20, T. 21 S., R. 14 E., at culvert on State Highway 198, 7.5 miles southwest of Coalinga.	.012	Oct. 1958-	Crest-stage gage, Oct. 7, 1958- Sept. 30, 1969.	1959 1960 1961 1962 1963 1964 1965 1966 1967 Jan. 24, 1967 1968 1969 Feb. 24, 1969	14.21 14.92	No flow No flow No flow No flow No flow No flow No flow No flow 1 No flow 6.5	

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-1856.			Packsaddle Canyon Creek near Fairview, Calif.				
351	Lat 35°56'40", long 118°28'30", in sec. 12, T. 23 S., R. 32 E., at culvert on county road, Sequoia National Forest, 1.8 miles northeast of Fairview.	4.05	Sept. 1959-	Crest-stage gage, Sept. 16, 1959-	1960	Feb. 1, 1960	4.92	17
					1961			No flow
					1962	Feb. 8, 1962	5.57	38
					1963	Jan. 31, 1963	9.91	223
				Water-stage recorder, Oct. 7, 1959-	1964	Apr. 1, 1964	3.40	.1
					1965	Dec. 27, 1964	5.07	26
				Sept. 30, 1966.	1966	Nov. 24, 1965	3.97	3.4
					1967	Dec. 6, 1966	(p)	660
					1968	Apr. 1, 1968	4.73	b.3
					1969	Jan. 25, 1969	12.65	245
					1970	Jan. 16, 1970	6.86	12
					1971	(d)	5.50	b3
	11-1872.			Shirley Creek tributary near Alta Sierra, Calif.				
352	Lat 35°43'15", long 118°29'55", in SW¼ sec. 25, T. 25 S., R. 32 E., at culvert on Evans road, Sequoia National Forest, 3 miles east of Alta Sierra.	.27	Sept. 1959-	Crest-stage gage, Sept. 22, 1960-	1960	Feb. 1, 1960	10.92	5.8
					1961	Nov. 5, 1960		No flow
					1962	Feb. 8, 1962	11.51	14
					1963	Feb. 1, 1963	11.57	14
					1964			No flow
					1965	Dec. 27, 1964	11.20	9.2
					1966			No flow
					1967	Dec. 6, 1966	13.70	60
					1968	Nov. 21, 1967	-	b.02
					1969	Jan. 25, 1969	12.24	27
					1970	Jan. 16, 1970	11.33	11
					1971	(d)	(d)	(r)
	11-1918.			Kern River tributary near Miracle Hot Springs, Calif.				
353	Lat 35°33'15", long 118°34'45", in SE¼NW¼ sec. 30, T. 27 S., R. 32 E., at culvert on State Highway 178, Sequoia National Forest, 3.5 miles southwest of Miracle Hot Springs.	1.24	Sept. 1959-	Crest-stage gage, Sept. 16, 1959-	1960	Feb. 1, 1960	6.27	b1
					1961			No flow
					1962	Feb. 8, 1962	6.80	5.0
					1963	June 13, 1963	6.32	1.2
					1964			No flow
					1965	Dec. 27, 1964	6.42	1.9
					1966	1965		b.01
					1967	Dec. 6, 1966	13.10	593
					1968	Apr. 1, 1968	6.12	b.6
					1969	Jan. 25, 1969	8.74	32
					1970	Jan. 16, 1970	6.77	4.7
					1971	(d)	6.60	3.2
	11-1993.			Coho Creek near White River, Calif.				
354	Lat 35°49'50", long 118°51'35", in NE¼NE¼ sec. 20, T. 24 S., R. 29 E., at culvert on county road 1.6 miles northwest of White River.	10.8	Sept. 1959-	Crest-stage gage, Sept. 17, 1959-	1960	Feb. 1, 1960	2.45	b.03
					1961	Nov. 11, 1960		b1
					1962	Mar. 6, 1962	2.82	b.1
					1963	Feb. 1, 1963	2.75	b.7
					1964			No flow
					1965	January or April 1965		b.2
					1966			No flow
					1967	Dec. 6, 1966	7.72	221
					1968	Nov. 19, 1967	-	b.15
					1969	Feb. 24, 1969	15.0	564
					1970			Minor flow
					1971	(d)		b.5

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																																					
					Water year	Date	Gage height (ft)	Discharge (cfs)																																																		
11-2024.5. Winding Creek near Camp Nelson, Calif.																																																										
355	Lat 36°09'35", long 118°40'30", in sec. 25, T. 20 S., R. 30 E. (unsurveyed), at culvert on State Highway 190, Sequoia National Forest, 4 miles northwest of Camp Nelson.	0.30	Oct. 1959-	Crest-stage gage, Oct. 9, 1959-	1960	Feb. 1, 1960	10.66	b3																																																		
					1961	Nov. 5, 1960		b1																																																		
					1962	Mar. 7, 1962		b.5																																																		
					1963	Feb. 1, 1963	11.66	19																																																		
					1964			No flow																																																		
					1965	Dec. 27, 1964	10.69	3.8																																																		
					1966	(d)		.01																																																		
					1967	Dec. 6, 1966	12.71	48																																																		
					1968	Jan. 16, Feb. 14, Apr. 15, 1968		b.02																																																		
					1969	Jan. 25, 1969	11.69	24																																																		
					1970	Jan. 16, 1970	11.38	17																																																		
1971	(d)	(d)	b.02																																																							
11-2049.5. Tule River tributary near Success, Calif.																																																										
356	Lat 36°03'27", long 118°54'48", in NE¼SE¼ sec. 35, T. 21 S., R. 28 E., at culvert on State Highway 190, 1.8 miles south of Success.	1.13	Oct. 1959-	Crest-stage gage, Oct. 1, 1959- Sept. 30, 1968.	1960	Jan. 10, 1960		b.1																																																		
					1961	Nov. 5, 1960		b.7																																																		
					1962	Mar. 6, 1962	11.76	b8																																																		
					1963	Feb. 1, 1963		b.1																																																		
					1964			No flow																																																		
					1965			b.2																																																		
					1966			No flow																																																		
					1967	Dec. 6, 1966	14.63	219																																																		
					1968			No flow																																																		
					11-2085. Middle Fork Kaweah River tributary near Hammond, Calif.																																																					
357	Lat 36°29'35", long 118°49'30", in NW¼SW¼ sec. 34, T. 16 S., R. 29 E., at culvert on State Highway 198, Sequoia National Park, 2.7 miles northeast of Hammond.	1.90	Sept. 1959-	Crest-stage gage, Sept. 23, 1959-	1960	Feb. 1, 1960	11.22	8.7																																																		
					1961	Dec. 1, 1960	11.71	17																																																		
					1962	March 1962	12.08	25																																																		
					1963	Feb. 1, 1963	18.41	152																																																		
					1964			No flow																																																		
					1965	Dec. 27, 1964	13.37	57																																																		
					1966	Dec. 30, 1965	10.77	2.9																																																		
					1967	Dec. 6, 1966	30.63	879																																																		
					1968	Mar. 16 and Apr. 1, 1968	10.30	.9																																																		
					1969	Jan. 25, 1969	22.06	203																																																		
					1970	Jan. 16, 1970	14.30	80																																																		
					1971	Mar. 13, 1971	10.42	1.4																																																		
					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="10">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0</td> <td>January</td> <td>2.3</td> <td>April</td> <td>1.3</td> <td>July</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>November</td> <td>6.1</td> <td>February</td> <td>2.0</td> <td>May</td> <td>2.3</td> <td>August</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>December</td> <td>5.3</td> <td>March</td> <td>1.4</td> <td>June</td> <td>0</td> <td>September</td> <td>.2</td> <td></td> <td></td> </tr> <tr> <td colspan="9">Total for water year, October 1, 1970-September 30, 1971</td> <td>20.9</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches										October	0	January	2.3	April	1.3	July	0			November	6.1	February	2.0	May	2.3	August	0			December	5.3	March	1.4	June	0	September	.2			Total for water year, October 1, 1970-September 30, 1971				
Monthly and annual precipitation, in inches																																																										
October	0	January	2.3	April	1.3	July	0																																																			
November	6.1	February	2.0	May	2.3	August	0																																																			
December	5.3	March	1.4	June	0	September	.2																																																			
Total for water year, October 1, 1970-September 30, 1971									20.9																																																	
11-2090. Dorst Creek near Kaweah Camp, Calif.																																																										
358	Lat 36°38'45", long 118°48'15", in SE¼SW¼ sec. 2, T. 15 S., R. 29 E., at culvert on Generals Highway, Sequoia National Park, 6 miles northwest of Kaweah Camp.	6.11	Sept. 1959-	Crest-stage gage, Sept. 23, 1959-	1960	May 12, 1960	21.70	156																																																		
					1961		20.50	18																																																		
					1962	Apr. 25, 1962	21.46	108																																																		
					1963	Feb. 1, 1963	28.85	1,540																																																		
					1964	June 1964	20.63	33																																																		
					1965	Dec. 27, 1964	21.19	95																																																		
					1966	Nov. 25, 1965	20.85	56																																																		
					1967	Dec. 6, 1966	30.73	2,010																																																		
					1968	Apr. 11, 1968	20.48	20																																																		
					1969	Jan. 25, 1969	22.06	205																																																		
					1970	Jan. 16, 1970	21.56	139																																																		
					1971	May 16, 1971	20.90	61																																																		

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-2124.5. Grizzly Creek near Cedar Grove, Calif.								
359	Lat 36°48'10", long 118°44'35", in NW¼SE¼ sec. 8, T. 13 S., R. 30 E., at culvert on State Highway 180, Sierra National Forest, 4.1 miles west of Cedar Grove.	9.73	Sept. 1959-	Crest-stage gage, Sept. 23, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Apr. 12, 1960 May 1962 Feb. 1, 1963 May 1964 Aug. 17, 1965 April 1966 June 1967 Apr. 11, 1968 May 1969 Jan. 16, 1970 May 16, 1971	11.70 (m) 12.98 14.80 12.01 14.35 14.21 11.54 13.16 12.33 11.65	49 15 126 293 35 247 28 233 14 141 80 37
11-2226. Bear Mountain Creek near Squaw Valley, Calif.								
360	Lat 36°43'52", long 119°16'53", in NW¼NW¼ sec. 8, T. 14 S., R. 25 E., at culvert on State Highway 180, 1.0 mile west of Squaw Valley.	.14	Sept. 1959-	Crest-stage gage, Sept. 22, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 1, 1960 Feb. 10, 1962 Mar. 28, 1963 Dec. 28, 1964 Dec. 30, 1965 Dec. 6, 1966 Jan. 19, 1969 Jan. 16, 1970 Dec. 17, 1970	 6.45 6.59 16.75 8.11 7.42 6.58 6.33	b.3 No flow 3 4.3 No flow 6.2 b.1 32 No flow 17 4.2 2.0
11-2353. Rancheria Creek tributary near Lakeshore, Calif.								
361	Lat 37°16'40", long 119°06'37", in SE¼NE¼ sec. 34, T. 7 S., R. 26 E., at culvert on Florence Lake road, Sierra National Forest, 3.2 miles northeast of Lakeshore. (Revised.)	.68	Sept. 1959-	Crest-stage gage, Sept. 22, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	May 12, 1960 Apr. 3, 1961 June 1962 Nov. 15, 1963 May 28, 1965 May 1966 Mar. 16, 1967 May 1968 May 1969 May 1970 (d)	2.31 2.43 2.65 2.51 2.86 2.45 4.97 2.43 4.31 2.81 (d)	b3 6.5 10 (d) 7.7 17 6.5 98 6.1 83 15 (d)
11-2372. South Fork Tamarack Creek tributary near Big Creek, Calif.								
362	Lat 37°10'40", long 119°12'10", in SW¼NW¼ sec. 1, T. 9 S., R. 25 E., at culvert on State Highway 168, Sierra National Forest, 2.8 miles southeast of Big Creek.	1.24	Sept. 1959-	Crest-stage gage, Sept. 22, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	May 12, 1960 Apr. 3, 1961 May 6, 1962 Jan. 31, 1963 May 25, 1964 May 17, 1965 May 1966 May 1967 May 1968 May 1969 May 1970 May 1971	21.40 20.86 22.69 28.98 22.02 23.10 21.59 23.82 20.91 29.48 21.85 22.12	8.8 3.6 26 66 15 30 10 37 3.9 68 14 17

See footnotes at end of table.

HYDROLOGIC REGION XV

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																																	
					Water year	Date	Gage height (ft)	Discharge (cfs)																																														
11-2472. Big Sandy Creek tributary near Tollhouse, Calif.																																																						
363	Lat 37°01'55", long 119°26'50", in SW¼NE¼ sec. 27, T. 10 S., R. 23 E., at culvert on county road 2.8 miles west of Tollhouse.	0.46	Sept. 1959-	Crest-stage gage, Sept. 21, 1959-	1960	Feb. 9, 1960	3.43	4																																														
					1961		3.05	.8																																														
					1962	Feb. 15, 1962	4.14	13																																														
					1963	Feb. 1, 1963	4.77	23																																														
					Water-stage recorder, Sept. 24, 1968-	1964	Mar. 24, 1964	3.24	2.3																																													
						1965	Apr. 10, 1965	4.19	13																																													
						1966	Dec. 30, 1965	3.17	1.8																																													
						1967	Dec. 6, 1966	5.35	28																																													
						1968	Feb. 20, 1968	3.07	1.2																																													
					1969	Jan. 25, 1969	7.40	48																																														
					1970	Jan. 16, 1970	4.38	16																																														
					1971	Dec. 17, 1970	3.94	9.6																																														
					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="9">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0</td> <td>January</td> <td>2.5</td> <td>April</td> <td>1.0</td> <td>July</td> <td>0</td> <td></td> </tr> <tr> <td>November</td> <td>6.9</td> <td>February</td> <td>.6</td> <td>May</td> <td>3.1</td> <td>August</td> <td>0</td> <td></td> </tr> <tr> <td>December</td> <td>7.4</td> <td>March</td> <td>1.7</td> <td>June</td> <td>0</td> <td>September</td> <td>.3</td> <td></td> </tr> <tr> <td colspan="8">Total for water year, October 1, 1970-September 30, 1971</td> <td>23.5</td> <td></td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches									October	0	January	2.5	April	1.0	July	0		November	6.9	February	.6	May	3.1	August	0		December	7.4	March	1.7	June	0	September	.3		Total for water year, October 1, 1970-September 30, 1971				
Monthly and annual precipitation, in inches																																																						
October	0	January	2.5	April	1.0	July	0																																															
November	6.9	February	.6	May	3.1	August	0																																															
December	7.4	March	1.7	June	0	September	.3																																															
Total for water year, October 1, 1970-September 30, 1971								23.5																																														
11-2577. Picayune Creek near Coarsegold, Calif.																																																						
364	Lat 37°13'15", long 119°42'25", in NW¼SW¼ sec. 20, T. 8 S., R. 21 E., at culvert on State Highway 41, 3.0 miles south of Coarsegold.	8.17	Sept. 1959-	Crest-stage gage, Sept. 21, 1959-	1960	Mar. 28, 1960	2.14	17																																														
					1961	Dec. 1, 1960	1.83	6.5																																														
					1962	Feb. 10, 1962	5.12	216																																														
					1963	Feb. 1, 1963	3.88	120																																														
					Water-stage recorder, Sept. 11, 1964-Sept. 23, 1968.	1964			No flow																																													
						1965	Jan. 6, 1965	4.55	174																																													
						1966	Dec. 30, 1965	2.56	31																																													
						1967	Apr. 18, 1967	6.91	393																																													
						1968	Mar. 8, 1968	1.95	9.2																																													
					1969	Jan. 21, 1969	11.50	979																																														
					1970	Mar. 1, 1970	5.18	224																																														
					1971	Mar. 12, 1971	2.56	31																																														
					11-2578. Fresno River tributary near Raymond, Calif.																																																	
365	Lat 37°09'00", long 119°51'05", in NW¼ sec. 13, T. 9 S., R. 19 E., at culvert on Fresno River Road 5.6 miles southeast of Raymond.	.052	Sept. 1959-	Crest-stage gage, Sept. 24, 1959-Sept. 30, 1969.	1960			No flow																																														
					1961			No flow																																														
					1962	Feb. 10, 1962	3.05	1.2																																														
					1963	Feb. 1, 1963		b.1																																														
					1964	Apr. 1, 1964	3.04	1.1																																														
					1965	Jan. 27, 1965		b.2																																														
					1966			No flow																																														
					1967	Apr. 19, 1967	3.15	1.8																																														
					1968			No flow																																														
					1969	Feb. 24, 1969	3.37	3.1																																														
11-2033. Wardlow Creek near Springville, Calif.																																																						
366	Lat 36°05'29", long 118°52'58", in NW¼NE¼ sec. 19, T. 21 S., R. 29 E., at culvert on State Highway 190, 4.2 miles southwest of Springville.	0.46	Dec. 1968-	Crest-stage gage, Dec. 5, 1968-	1969	Feb. 24, 1969	11.05	196																																														
					1970	Jan. 16, 1970	8.80	14																																														
					1971	Dec. 22, 1970	8.85	15																																														

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-2086.3.			Atwell Creek near Hammond, Calif.				
367	Lat 36°27'57", long 118°40'30", in SE ¹ / ₄ sec. 11, T. 17 S., R. 30 E., on right bank 750 feet west of Atwell Mills Ranger Station, and 10.4 miles east of Hammond.	0.66	Aug. 1968-	Crest-stage gage, Aug. 21, 1968	1970	June 1970	1.93	12.4
					1971	Mar. 13, 1971	2.67	21

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data				
					Water year	Date	Gage height (ft)	Discharge (cfs)	
	10-2510.			Big Dip Creek near Stovepipe Wells, Calif.					
376	Lat 36°55'05", long 117°17'35", in sec. 16, T. 12 S., R. 43 E., (unsurveyed), in Death Valley, on Scotty's Castle road 21 miles northwest of Stovepipe Wells.	0.95	Oct. 1958-	Crest-stage gage, Jan. 16, 1959-	1959	Nov. 11, 1958	11.39	15	
					1960	Sept. 3, 1960	12.55	32	
					1961	Aug. 22, 1961	13.58	46	
					1962	Feb. 19, 1962	10.41	4.0	
					Water-stage recorder, Apr. 9, 1963-	1963	Aug. 7, 1963	11.62	18
						1964	Apr. 1, 1964	10.82	8.2
					Sept. 30, 1969.	1965	July 17, 1965	10.95	9.7
						1966			No flow
					1967	Dec. 6, 1966	15.11	199	
					1968	July 28, 1968	11.01	10	
					1969	July 20, 1969	13.41	45	
					1970	Aug. 16, 1970	10.68	6.7	
					1971	Aug. 24, 1971	12.23	26	
	10-2507.2.			Onyx Creek near Ballarat, Calif.					
377	Lat 36°01'20", long 117°18'45", on line between secs. 14 and 15, T. 22 S., R. 43 E., at culvert on State Highway 395, 5.2 miles southwest of Ballarat.	.52	Sept. 1963-	Crest-stage gage, Sept. 9, 1963-	1963	Sept. 20, 1963	3.83	q5.6	
					1964	July 26, 1964	5.10	24	
					1965	Aug. 16, 1965	4.48	14	
					1966	Dec. 29, 1965	5.05	22	
					1967			No flow	
					1968	Nov. 21, 1967	3.59	3.3	
					1969			No flow	
					1970			No flow	
					1971			No flow	
						10-2508.7.			Towne Creek near Panamint Springs, Calif.
378	Lat 36°23'05", long 117°16'55" (unsurveyed), at culvert on State Highway 190, 1.1 miles south of Towne Pass sign and 10.9 miles northeast of Panamint Springs.	.05	Sept. 1963-	Crest-stage gage, Sept. 23, 1963-	1964			No flow	
					1965			No flow	
					1966			No flow	
					1967	Sept. 4, 1967	4.34	2	
					1968			No flow	
					1969			No flow	
					1970			No flow	
					1971			No flow	
	10-2857.8.			Owens Lake tributary near Keeler, Calif.					
379	Lat 36°23'30", long 117°48'25" (unsurveyed), at culvert on State Highway 190, 7.7 miles southeast of Keeler.	7.18	Sept. 1963-	Crest-stage gage, Sept. 10, 1963-	1964	Aug. 5, 1964		14	
					1965	Aug. 16, 1965	4.42	18	
					1966	Aug. 15, 1966	4.71	18	
					1967	Sept. 4, 1967	9.20	68	
					1968	Aug. 7, 1968	5.67	31	
					1969			No flow	
					1970			No flow	
					1971			No flow	

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																											
					Water year	Date	Gage height (ft)	Discharge (cfs)																																								
10-2648.7. Little Lake Creek near Little Lake, Calif.																																																
380	Lat 35°57'35", long 117°54'45", in NE¼SE¼ sec. 6, T. 23 S., R. 38 E., at culvert on U.S. Highways 6 and 395, 1.5 miles north of Little Lake.	8.60	Sept. 1963-	Crest-stage gage, Sept. 9, 1963-	1964	Aug. 4, 1964	2.96	b7																																								
					1965	July 16, 1965	2.59	.9																																								
					1966	Dec. 29, 1965	2.95	6.9																																								
					1967	Dec. 6, 1966	2.80	3.4																																								
					Water-stage recorder, Oct. 30, 1963-May 7, 1968.	1968	Nov. 19, 1967	2.73	2.3																																							
						1969	Jan. 25, 1969	2.84	4.2																																							
						1970	(m)		(m)																																							
					1971	(m)		(m)																																								
					10-2848. Inyo Creek near Lone Pine, Calif.																																											
					381	Lat 36°35'50", long 118°10'55", in SE¼SE¼ sec. 29, T. 15 S., R. 35 E., at culvert on Mount Whitney road, Inyo National Forest, 7 miles west of Lone Pine.	1.54	Sept. 1963-	Crest-stage gage, Sept. 11, 1963-	1963	Aug. 8, 1963	9.08	29																																			
1964	June 15, 1964	3.65	.8																																													
1965	Aug. 16, 1965	4.57	5.7																																													
Water-stage recorder, May 9, 1968-	1966	May 18, 1966	3.75	.7																																												
	1967	Apr. 22, 1967	5.17	9.6																																												
	1968	Aug. 8, 1968	5.45	11																																												
1969	Aug. 2, 1969	7.57	42																																													
1970	July 9, 1970	5.74	16																																													
1971	July 21, 1971	2.68	1.8																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0</td> <td>January</td> <td>0</td> <td>April</td> <td>0</td> <td>July</td> <td>0.22</td> </tr> <tr> <td>November</td> <td>2.21</td> <td>February</td> <td>0</td> <td>May</td> <td>0</td> <td>August</td> <td>0</td> </tr> <tr> <td>December</td> <td>.54</td> <td>March</td> <td>0</td> <td>June</td> <td>0</td> <td>September</td> <td>0</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>2.97</td> </tr> </tbody> </table>										Monthly and annual precipitation, in inches								October	0	January	0	April	0	July	0.22	November	2.21	February	0	May	0	August	0	December	.54	March	0	June	0	September	0	Total for water year, October 1, 1970-September 30, 1971						
Monthly and annual precipitation, in inches																																																
October	0	January	0	April	0	July	0.22																																									
November	2.21	February	0	May	0	August	0																																									
December	.54	March	0	June	0	September	0																																									
Total for water year, October 1, 1970-September 30, 1971							2.97																																									
10-2762. Deadman Creek near Big Pine, Calif.																																																
382	Lat 37°08'40", long 118°07'15", in NW¼NW¼ sec. 26, T. 9 S., R. 35 E., 0.1 mile north of Waucoba road at Devils Gate, Inyo National Forest, 9.6 miles east of Big Pine.	2.48	Sept. 1963-	Crest-stage gage, Sept. 12, 1963-	1964			No flow																																								
					1965			No flow																																								
					1966			No flow																																								
					1967	Dec. 6, 1966	13.89	b4																																								
					1968			No flow																																								
					1969			No flow																																								
					1970			No flow																																								
1971			No flow																																													
10-2662. Paradise Creek near Paradise Camp, Calif.																																																
383	Lat 37°27'45", long 118°34'35", in NE¼NW¼ sec. 4, T. 6 S., R. 31 E., at culvert on U.S. Highway 395, 2.0 miles southeast of Paradise Camp.	4.75	Sept. 1963-	Crest-stage gage, Sept. 12, 1963-	1963	Feb. 1, 1963	32.0	185																																								
					1964			No flow																																								
					1965			No flow																																								
					1966			No flow																																								
					1967	Dec. 6, 1966	34.30	238																																								
					1968			No flow																																								
					1969	Apr. 6, 1969	28.08	58																																								
					1970			No flow																																								
1971			No flow																																													

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-2686.3. Blind Creek near Benton, Calif.								
384	Lat 37°49'30", long 118°30'42", in NW¼NW¼ sec. 36, T. 1 S., R. 31 E., at culvert on dirt road, 0.1 mile north of State Highway 120 and 1.8 miles northeast of Benton.	1.93	Sept. 1963-	Crest-stage gage, Sept. 17, 1963-Sept. 30, 1969.	1964 1965 1966 1967 1968 1969	Aug. 15, 1965 June 15, 1969	(r) 2.62	No flow b0.1 No flow No flow No flow b0.2
10-2872.4. Dry Creek near June Lake, Calif.								
385	Lat 37°53'00", long 118°53'05", in SW¼SW¼ sec. 3, T. 1 S., R. 28 E., at culvert on State Highway 120, Inyo National Forest, 12.5 miles northeast of June Lake.	2.33	Sept. 1963-	Crest-stage gage Sept. 17, 1963-Sept. 30, 1969.	1964 1965 1966 1967 1968 1969	April 1964 July 18, 1965 March 1966 May 27, 1967 April 1968 May 1969	3.51 2.75 s3.37 3.20 (r) 3.98	b9 b3 b1.5 b5 b.2 12
10-2872.1. Bridgeport Creek near Bodie, Calif.								
386	Lat 38°04'45", long 119°02'40", in NW¼ sec. 31, T. 3 N., R. 27 E., at culvert on Pole Line road, 9.3 miles south of Bodie.	13.1	Sept. 1963-	Crest-stage gage, Sept. 18, 1963-	1963 1964 1965 1966 1967 1968 1969 1970 1971	jJan. 31, 1963 March 1966 Mar. 16, 1967 May 12, 1969 Jan. 17, 1970 Mar. 26, 1971	47 No flow b2.5 28 No flow 115 8 4.95	
10-2923. Bridgeport Reservoir tributary near Bridgeport, Calif.								
387	Lat 38°17'15", long 119°12'50", in SE¼SE¼ sec. 16, T. 5 N., R. 25 E., at culvert on State Highway 22, 2.4 miles north of Bridgeport.	.79	Sept. 1963-	Crest-stage gage, Sept. 18, 1963- Water-stage recorder, Oct. 11, 1963-	1963 1964 1965 1966 1967 1968 1969 1970 1971	jJan. 31, 1963 Apr. 19, 1964 Aug. 1, 1965 Mar. 13, 1966 Mar. 16, 1967 Jan. 15, 1968 Mar. 31, 1969 Jan. 14, 1970 Feb. 5, 1971	7.1 3.56 3.59 (s) 10.91 3.49 5.16 4.60 4.21	56 b.2 b.2 t1.3 98 .1 20 12 5.7

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	10-2968.			Slinkard Creek tributary near Topaz, Calif.				
389	Lat 38°38'50", long 119°33'40", in NE½NE½ sec. 9, T. 9 N., R. 22 E., at culvert on State Highway 89, 2.1 miles west of junction with U.S. Highway 395 and 3.4 miles northwest of Topaz Post Office.	0.14	Sept. 1963-	Crest-stage gage, Sept. 24, 1963-	1963	jJan. 31, 1963	8.00	22
					1964	September 1964		b.2
					1965	Dec. 22, 1964	6.53	7.6
					1966	March 1966	5.89	b2
					1967	July 16, 1967	12.8	640
					1968			No flow
					1969	April 1969	(m)	b5
					1970	Jan. 26, 1970	6.52	b8
					1971	July 18, 1971	6.80	5.0
	10-3081.			Millberry Creek at Markleeville, Calif.				
390	Lat 38°42'00", long 119°47'00", in SW½NE½ sec. 21, T. 10 N., R. 20 E., at culvert on State Highway 89 and 4, 0.4 mile northwest of Markleeville.	5.10	Sept. 1963-	Crest-stage gage, Sept. 24, 1963-	1963	jJan. 31, 1963	17.1	u291
					1964			b1
					1965	Dec. 22, 1964	8.42	81
					1966	March 1966	6.28	16
					1967	Mar. 16, 1967	11.34	156
					1968	April 1968	6.43	19
					1969	Mar. 31, 1969	12.07	168
					1970	Jan. 21, 1970	10.88	146
					1971	May 1971	7.48	48
	10-2954.5.			Hot Creek tributary near Bridgeport, Calif.				
391	Lat 38°21'06", long 119°23'53", in NW½SE½ sec. 24, T. 6 N., R. 23 E., at culvert on U.S. Highway 395, in Toiyabe National Forest, 12.2 miles northwest of Bridgeport.	.97	Nov. 1964-	Crest-stage gage, Nov. 24, 1964-	1965	April 1965	4.37	1.4
					1966	March 1966	4.31	1.1
					1967	Mar. 16, 1967	s7.28	b15
					1968			No flow
					1969	April 1969	5.17	15
					1970	April 1970	4.36	b1
					1971	May 28, 1971	4.62	.2

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)

11-0919.5. Limekiln Canyon Wash near Chatsworth, Calif.

401	Lat 34°16'26", long 118°33'28", in SW¼NE¼ sec. 9, T. 2 N., R. 16 W., at culvert on private road 3 miles northeast of Chatsworth.	3.41	Sept. 1959-	Crest-stage gage, Sept. 29, 1959-	1960	Jan. 11, 1960	3.24	74
					1961	Nov. 5, 1960	3.23	74
					1962	Feb. 10, 1962	6.26	249
					1963	Feb. 10, 1963	2.50	12
					1964	Apr. 3, 1964	2.37	7
					1965	Apr. 9, 1965	3.74	99
					1966	Nov. 22, 1965	8.20	380
					1967	Dec. 6, 1966	5.85	220
					1968	Nov. 21, 1967	6.45	260
					1969	Jan. 25, 1969	9.25	470
					1970	Mar. 1, 1970	3.77	100
					1971	Nov. 29, 1970	10.41	540

11-0934.9. North Fork Mill Creek near La Canada, Calif.

402	Lat 34°19'05", long 118°08'00", at culvert on Angeles Forest Highway, Angeles National Forest, 8.7 miles northeast of La Canada.	5.80	Sept. 1959-	Crest-stage gage, Sept. 29, 1959-	1960	Apr. 28, 1960	5.55	b.5	
					1961	Aug. 8, 1961	5.63	b1	
					1962	Feb. 10, 1962	7.80	98	
					1963	Feb. 9, 1963	5.73	7.5	
					Water-stage recorder, June 14, 1966-	1964	Jan. 1, 1964	5.69	5.5
						1965	Apr. 9, 1965	5.50	.8
						1966	Dec. 29, 1965	12.21	480
						1967	Dec. 6, 1966	70.06	178
						1968	Nov. 19, 1967	7.48	43
						1969	Jan. 25, 1969	21.96	1,280
						1970	Nov. 7, 1969	6.57	6.5
						1971	Nov. 29, 1970	4.24	110

Monthly and annual precipitation, in inches*

October	0	January	1.16	April	0.62	July	0
November	8.30	February	1.15	May	.99	August	0
December	5.95	March	1.25	June	0	September	0
Total for water year, October 1, 1970-September 30, 1971 19.42							

*Precipitation from USNWS station at La Crescenta.

11-1070. Honda Barranca near Somis, Calif.

403	Lat 34°16'08", long 119°02'56", in Las Posas Grant, at culvert on Price road 3.1 miles west of Somis.	2.57	July 1954-	Crest-stage gage, Sept. 29, 1959-	1955	Jan. 18, 1955	2.50	23	
					1956	Jan. 26, 1956	3.40	79	
					1957	Feb. 28, 1957	2.32	16	
					1958	Apr. 6, 1958	4.09	150	
					Water-stage recorder, June 29, 1954-Sept. 30, 1963.	1959	Feb. 16, 1959	1.80	3.3
						1960	Feb. 1, 1960	2.10	9.3
						1961	Nov. 6, 1960	2.00	7.0
						1962	Feb. 19, 1962	8.21	450
						1963	Feb. 9, 1963	3.20	63
						1964	Jan. 21, 1964	4.65	180
						1965	Apr. 9, 1965	5.93	285
						1966	Nov. 24, 1965	6.37	320
						1967	Jan. 24, 1967	7.76	420
						1968	Mar. 8, 1968	14.78	145
						1969	Jan. 21, 1969	15.34	184
						1970	Mar. 1, 1970	14.39	106
					1971	Nov. 28, 1970	14.10	86	

11-1077. Soledad Canyon tributary near Acton, Calif.

404	Lat 34°29'20", long 118°06'55", in E½ sec. 27, T. 5 N., R. 12 W., at culvert on Angeles Forest Highway, Angeles National Forest, 4.8 miles northeast of Acton.	4.08	Sept. 1959-	Crest-stage gage, Sept. 29, 1959-	1960	Feb. 2, 1960		b.2
					1961	Aug. 5, 1961	3.25	4.5
					1962	Feb. 11, 1962	3.14	b.1
					1963	June 12, 1963	3.13	.1
					1964	Oct. 20, 1963	3.16	.3
					1965	Apr. 9, 1965	3.15	.1
					1966	Dec. 29, 1965	3.55	7.5
					1967	Sept. 4, 1967	3.15	3.2
					1968	Mar. 8, 1968	3.15	3.2
					1969	Feb. 24, 1969	3.30	5.0
					1970			No flow
					1971	Nov. 29, 1970	3.17	3.5

See footnotes at end of table.

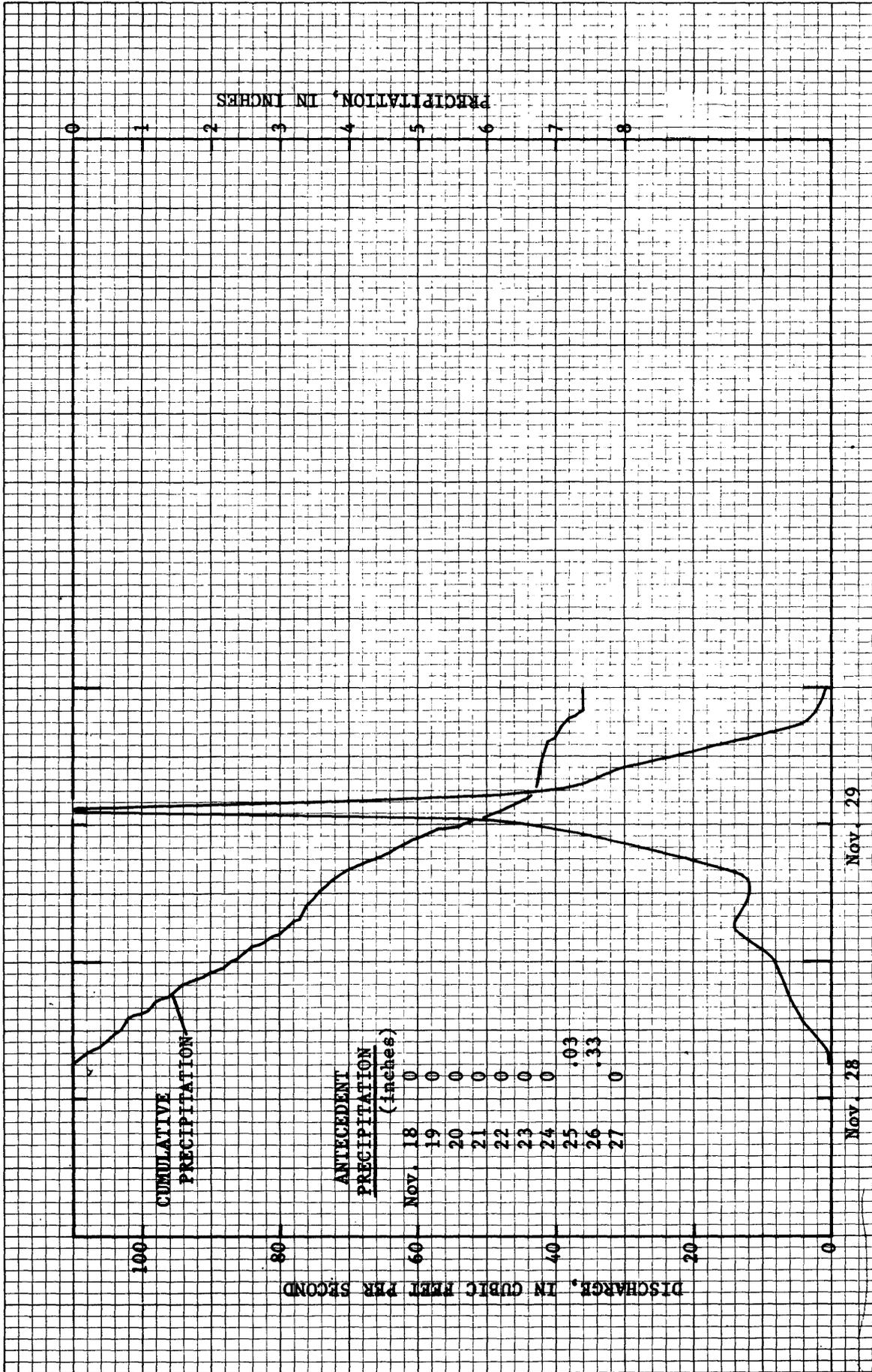


FIGURE 27.--Storm hydrograph and precipitation for North Fork Mill Creek near La Canada, November 28-29, 1970.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-1082.			Santa Clara River tributary near Val Verde, Calif.				
405	Lat 34°25'28", long 118°38'46", in San Francisco Grant, at culvert on State Highway 126, 2.8 miles southeast of Val Verde.	0.65	Sept. 1959-	Crest-stage gage, Sept. 30, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 10, 1960 Feb. 9, 1963 Jan. 22, 1964 Apr. 9, 1965 Dec. 29, 1965 Dec. 6, 1966 Nov. 21, 1967 Jan. 25, 1969 Mar. 1, 1970 Nov. 28, 1970	 10.17 8.23 7.29 11.6 7.35 7.67 8.88 6.93 8.57	b0.2 No flow No flow 120 36 9 190 10 18 57 2.4 48
	11-1187.			Casitas Creek tributary near Sea Cliff, Calif.				
406	Lat 34°23'36", long 119°25'24", in SE½SE¼ sec. 30, T. 4 N., R. 24 W., at culvert on State Highway 150, Los Padres National Forest, 3.4 miles north of Sea Cliff.	.76	Oct. 1959-	Crest-stage gage, Oct. 5, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 10, 1960 Nov. 5, 1960 Feb. 19, 1962 Feb. 9, 1963 Nov. 11, 1963 Apr. 9, 1965 Nov. 24, 1965 Dec. 6, 1966 Mar. 8, 1968 Jan. 25, 1969 Feb. 28, 1970 Dec. 21, 1970	 19.64 22.3 19.69 19.68 21.03 23.00 21.72 19.80 23.62 19.80 20.84	b1 b.1 111 3.2 3.1 47 153 80 9 195 9 40
	11-1234.8.			Los Laureles Canyon tributary near Goleta, Calif.				
407	Lat 34°30'55", long 119°49'50", in Los Padres National Forest at culvert on State Highway 150, 4.5 miles north of Goleta.	.28	Oct. 1959-	Crest-stage gage, Oct. 5, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 2, 1960 Nov. 5, 1960 Feb. 10, 1962 Feb. 10, 1963 Jan. 21, 1964 Apr. 9, 1965 Nov. 22, 1965 Jan. 24, 1967 Apr. 2, 1968 Jan. 25, 1969 Mar. 1, 1970 Dec. 21, 1970	4.26 4.25 8.75 5.35 4.66 4.93 9.61 12.48 4.37 10.00 4.94 4.30	11 11 112 37 23 28 130 163 16 135 29 14
	11-1323.			El Jaro Creek near Las Cruces, Calif.				
408	Lat 34°31'38", long 120°17'22", at culvert on Rancho Los Llanito road 3.9 miles northwest of Las Cruces.	a3.54	Oct. 1959-	Crest-stage gage, Oct. 5, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 1, 1960 Dec. 1, 1960 Feb. 9, 1962 Feb. 9, 1963 Mar. 22, 1964 Apr. 9, 1965 Dec. 29, 1965 Jan. 24, 1967 Mar. 8, 1968 Jan. 25, 1969 Feb. 28, 1970 Dec. 21, 1970	3.12 4.06 12.7 4.38 2.66 3.84 7.04 14.20 4.60 13.68 2.88 3.10	16 45 345 56 5.6 38 150 499 64 370 42 52

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																										
					Water year	Date	Gage height (ft)	Discharge (cfs)																																							
	11-1361.5.	San Antonio Creek tributary near Casmalia, Calif.																																													
409	Lat 34°48'45", long 120°31'29", at culvert on county road 1.8 miles south of Casmalia.	0.28	Sept. 1959-	Crest-stage gage, Sept. 28, 1959-	1960 Feb. 2, 1960 1961 Nov. 26, 1960 1962 Feb. 10, 1962 1963 Mar. 17, 1963 1964 Jan. 21, 1964 1965 Nov. 9, 1964 1966 Jan. 30, 1966 1967 Jan. 24, 1967 1968 Mar. 18, 1968 1969 Feb. 24, 1969 1970 Feb. 28, 1970 1971	Feb. 2, 1960 Nov. 26, 1960 Feb. 10, 1962 Mar. 17, 1963 Jan. 21, 1964 Nov. 9, 1964 Jan. 30, 1966 Jan. 24, 1967 Mar. 18, 1968 Feb. 24, 1969 Feb. 28, 1970	5.17 5.16 5.51 5.43 5.05 5.48 5.33 5.28 (m) 5.32 4.87	3.0 3.0 8.4 6.4 2 7.3 5 4.3 b.3 5.0 1.0 No flow																																							
	11-1364.5.	Dry Canyon tributary near Stauffer, Calif.																																													
410	Lat 34°43'35", long 119°13'45", at culvert on county road, Los Padres National Forest, 9½ miles southwest of Stauffer.	.15	Sept. 1959-	Crest-stage gage, Sept. 30, 1959-	1960 Dec. 24, 1959 1961 Nov. 5, 1960 1962 Feb. 10, 1962 1963 June 11, 1963 1964 Apr. 1, 1964 1965 Apr. 9, 1965 1966 Dec. 29, 1965 1967 Jan. 24, 1967 1968 Nov. 21, 1967 1969 Feb. 24, 1969 1970 Mar. 1, 1970 1971 Dec. 21, 1970	Dec. 24, 1959 Nov. 5, 1960 Feb. 10, 1962 June 11, 1963 Apr. 1, 1964 Apr. 9, 1965 Dec. 29, 1965 Jan. 24, 1967 Nov. 21, 1967 Feb. 24, 1969 Mar. 1, 1970 Dec. 21, 1970	4.65 5.25 5.30 5.32 4.60 4.55 4.88 3.86 4.40 5.14 4.03 5.21	11 25 26 22 10 9.5 14 2 7.5 19 3.4 20																																							
	11-1366.5.	Aliso Creek near New Cuyama, Calif.																																													
411	Lat 34°59'00", long 119°46'30", in Cuyama Grant, at culvert on State Highway 166, 5.8 miles northwest of New Cuyama, Santa Barbara County.	16.1	Sept. 1959-	Crest-stage gage, Sept. 30, 1959-	1960 1961 1962 Feb. 10, 1962 1963 June 12, 1963 1964 1965 1966 1967 Dec. 6, 1966 1968 1969 Feb. 24, 1969 1970 1971 May 11, 1971	Feb. 10, 1962 June 12, 1963 Dec. 6, 1966 Feb. 24, 1969	3.00 4.20 6.47 10.66 6.51	No flow No flow 78 66 No flow No flow No flow 208 No flow 552 No flow 210																																							
<table border="1"> <thead> <tr> <th colspan="7">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0</td> <td>January</td> <td>0.2</td> <td>April</td> <td>0.3</td> <td>July</td> <td>0</td> </tr> <tr> <td>November</td> <td>1.9</td> <td>February</td> <td>.1</td> <td>May</td> <td>.5</td> <td>August</td> <td>0</td> </tr> <tr> <td>December</td> <td>1.0</td> <td>March</td> <td>.1</td> <td>June</td> <td>0</td> <td>September</td> <td>0</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>4.1</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches							October	0	January	0.2	April	0.3	July	0	November	1.9	February	.1	May	.5	August	0	December	1.0	March	.1	June	0	September	0	Total for water year, October 1, 1970-September 30, 1971							4.1
Monthly and annual precipitation, in inches																																															
October	0	January	0.2	April	0.3	July	0																																								
November	1.9	February	.1	May	.5	August	0																																								
December	1.0	March	.1	June	0	September	0																																								
Total for water year, October 1, 1970-September 30, 1971							4.1																																								
	11-1393.	Foxen Creek near Los Alamos, Calif.																																													
412	Lat 34°47'40", long 120°11'05", at culvert on county road 7 miles northeast of Los Alamos.	a6.64	Oct. 1959-	Crest-stage gage, Oct. 6, 1959-	1960 1961 1962 Feb. 9, 1962 1963 1964 1965 1966 Jan. 30, 1966 1967 Apr. 11, 1967 1968 1969 Feb. 24, 1969 1970 1971	Feb. 9, 1962 Jan. 30, 1966 Apr. 11, 1967 Feb. 24, 1969	4.20 1.06 1.18 3.07	No flow No flow 116 No flow No flow No flow .4 7 No flow 72 No flow No flow																																							

See footnotes at end of table.

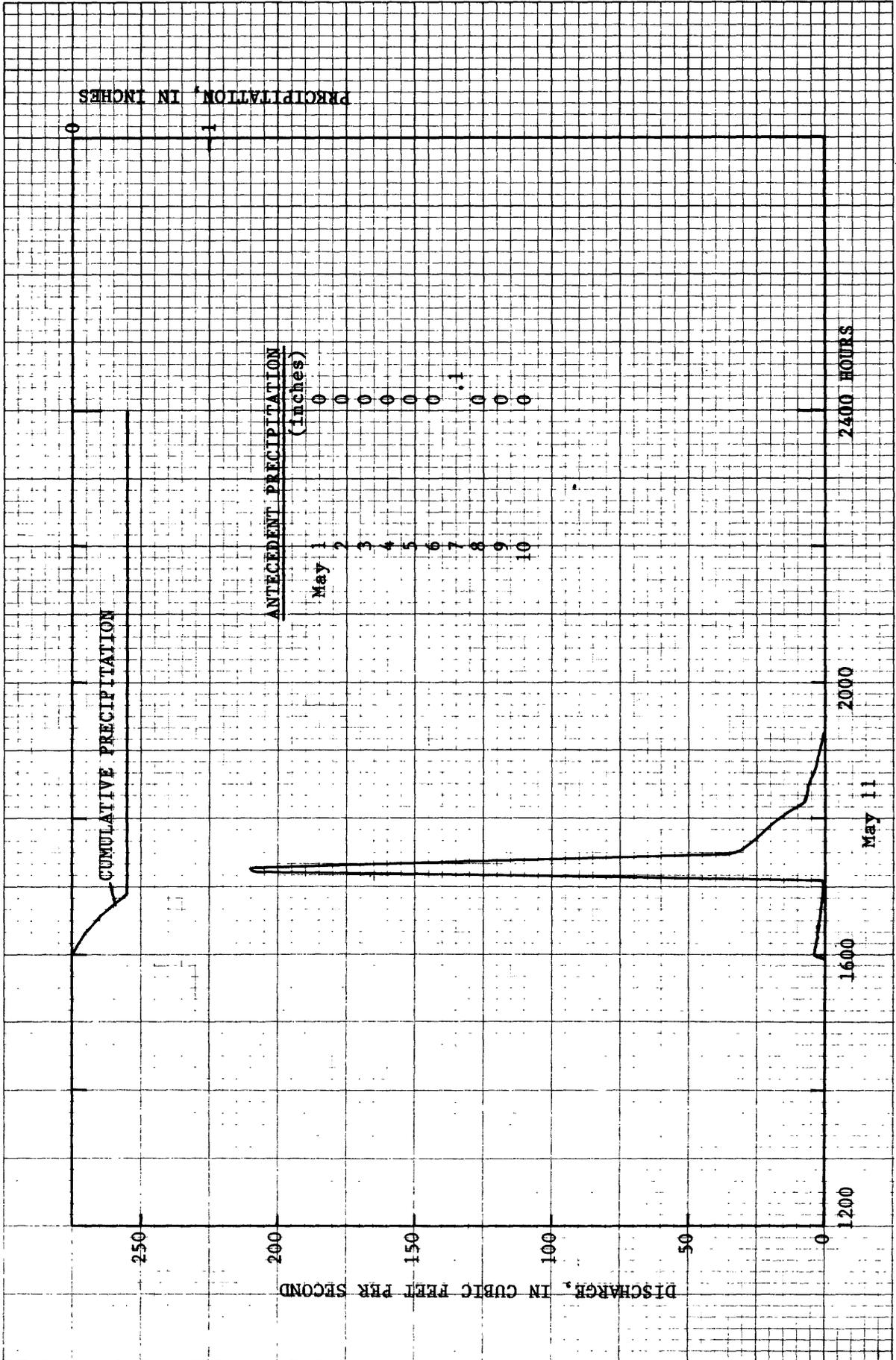


FIGURE 28.--Storm hydrograph and precipitation for Aliso Creek near New Cuyama, May 11, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-1394.8. Tepusquet Creek tributary near Sisquoc, Calif.								
413	Lat 34°54'10", long 120°13'35", at culvert on county road 4.2 miles northeast of Sisquoc.	a2.44	Oct. 1959-	Crest-stage gage Oct. 6, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 8-10, 1960 Feb. 9, 1962 Feb. 10, 1963 Nov. 20, 1963 Nov. 9, 1964 Nov. 22, 1965 Dec. 6, 1966 Feb. 24, 1969 Mar. 1, 1970 Dec. 21, 1970	1.66 2.94 1.97 1.86 1.97 1.91 2.76 3.52 2.15 1.79	b5 No flow 37 10 8 10 9 31 No flow 60 14 7
11-1421.5. Cottontail Creek tributary near Cayucos, Calif.								
414	Lat 35°28'55", long 120°52'25", in SE¼SE¼ sec. 22, T. 28 S., R. 10 E., at culvert on county road 2.8 miles northeast of Cayucos.	1.33	Oct. 1959-	Crest-stage gage, Nov. 5, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 1, 1960 Jan. 26, 1961 February 1962 Mar. 27, 1963 Nov. 19, 1963 Apr. 10, 1965 Dec. 28, 1965 Jan. 24, 1967 Mar. 13, 1968 Jan. 25, 1969 Jan. 17, 1970 Nov. 28, 1970	14.39 10.04 14.19 15.10 11.85 11.74 11.32 15.36 (r) 20.66 (c) 11.24	167 160 193 81 75 69 215 b5 295 (c) 66
11-1452. Rinconada Creek tributary near Pozo, Calif.								
415	Lat 35°18'25", long 120°29'45", in N½ sec. 20, T. 30 S., R. 14 E., at culvert on State Highway 178, 6.8 miles west of Pozo.	.34	Nov. 1959-	Crest-stage gage, Nov. 4, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 1, 1960 Jan. 26, 1961 Feb. 9, 1962 Feb. 9, 1963 Jan. 20, 1964 Nov. 12, 1964 Nov. 23, 1965 Dec. 6, 1966 Mar. 13, 1968 Jan. 19, 1969 Mar. 1, 1970 Dec. 21, 1970	50.64 50.67 51.06 50.60 50.21 52.35 50.57 51.69 (r) 54.82 50.86 50.92	(c) (e) 10 (c) (c) 49 7.5 26 b1 182 6.7 7.6
11-1476.3. San Marcos Creek tributary near Paso Robles, Calif.								
416	Lat 35°41'22", long 120°47'50", in NW¼NW¼ sec. 9, T. 26 S., R. 11 E., at culvert on county road 7.3 miles northwest of Paso Robles.	.59	Nov. 1959-	Crest-stage gage, Nov. 3, 1959- Water-stage recorder, Mar. 1, 1965- June 30, 1971.	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 1, 1960 Jan. 26, 1961 Feb. 14, 1962 March 1963 Apr. 9, 1965 Dec. 28, 1965 Dec. 6, 1966 Mar. 13, 1968 Feb. 24, 1969 Jan. 17, 1970 Dec. 21, 1970	48.82 50.61 51.54 51.16 50.69 48.66 54.52 (r) 52.62 50.88 50.96	b5 b.8 19 12 b.1 b.1 3.5 135 b.1 52 6.5 7.7

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	10-2639.			Buckhorn Creek near Valyermo, Calif.				
428	Lat 34°20'35", long 117°55'13", in SW¼ sec. 15, T. 3 N., R. 10 W., at culvert on State Highway 2, Angeles National Forest, 8 miles southwest of Valyermo.	0.48	Sept. 1960-	Crest-stage gage, Sept. 30, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Nov. 6, 1960 Feb. 11, 1962 Sept. 18, 1963 Apr. 10, 1964 Apr. 27, 1965 Nov. 22, 1965 Dec. 6, 1966 Nov. 21, 1967 (m) Nov. 29, 1970	1.91 2.66 1.66 1.36 1.93 4.73 2.65 2.19 5.68 1.71	9.3 28 5.9 1.9 9.4 120 26 15 169 (m) 6
	10-2646.8.			Mescal Creek tributary at Big Pines, Calif.				
429	Lat 34°22'28", long 117°41'59", in NW¼SE¼ sec. 3, T. 3 N., R. 8 W., at culvert on State Highway 2, Angeles National Forest, 0.7 mile southwest of Big Pines.	.059	Sept. 1960-	Crest-stage gage, Sept. 22, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Apr. 9, 1962 Apr. 9, 1965 Nov. 22, 1965 Dec. 6, 1966 Nov. 30, 1967 May 5, 1969 Mar. 1, 1970 (m)	69.43 69.45 71.73 71.51 - 72.56 (m)	No flow .3 No flow No flow .4 9.2 7.8 .1 21 b.2 (m)
	11-0488.			Forsee Creek near Camp Angelus, Calif.				
430	Lat 34°09'25", long 116°55'50", in SE¼NE¼ sec. 24, T. 1 N., R. 1 W., at culvert on Santa Ana River road, San Bernardino National Forest, 2.9 miles east of Camp Angelus.	2.82	Sept. 1960-	Crest-stage gage, Sept. 20, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Aug. 21, 1961 Apr. 16, 1962 Oct. 25, 1962 May 22, 1964 Nov. 22, 1965 Dec. 6, 1966 July 24, 1968 Jan. 25, 1969 Nov. 7, 1969 (d)	17.26 17.21 16.98 17.20 20.81 22.15 18.49 20.47 17.12 (m)	14 3.9 1.3 10 No flow 340 390 170 320 6 b3
	11-0489.			Caribou Creek at Big Bear City, Calif.				
431	Lat 34°16'10", long 116°50'45", in SE¼ sec. 11, T. 2 N., R. 1 E., at culvert on State Highway 30, San Bernardino National Forest, 0.5 mile north of Big Bear City.	7.02	Sept. 1960-	Crest-stage gage, Sept. 21, 1960-	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Apr. 8, 1962 Sept. 18, 1963 Oct. 18, 1963 Aug. 16, 1965 Nov. 22, 1965 Dec. 6, 1966 July 24, 1968 Jan. 25, 1969 Jan. 8, 1970 (d)	2.93 2.29 2.29 5.00 5.09 5.31 2.30 6.03 (m)	No flow 22 4.7 4.7 128 140 195 4.8 350 b.5 b3

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-0553.		Little Mill Creek near Running Springs, Calif.						
432	Lat 34°10'55", long 117°08'56", in NE¼SW¼ sec. 12, T. 1 N., R. 3 W., at culvert on State Highway 30, San Bernardino National Forest, 3.0 miles southwest of Running Springs.	1.73	Sept. 1960-	Crest-stage gage, Sept. 21, 1960-	1961	Nov. 6, 1960	38.45	12
					1962	Dec. 2, 1961	41.02	143
					1963	Feb. 10, 1963	39.39	56
					1964	Apr. 4, 1964	38.50	14
					1965	Aug. 12, 1965	38.53	14
					1966	Nov. 22, 1965	44.66	459
					1967	Dec. 6, 1966	42.93	310
					1968	Mar. 8, 1968	39.82	64
					1969	Jan. 25, 1969	46.26	620
					1970	Mar. 1, 1970	39.29	40
1971	Dec. 21, 1970	42.55	270					
11-0616.		Lytle Creek tributary near Lytle Creek, Calif.						
433	Lat 34°14'02", long 117°28'29", in NE¼ sec. 26, T. 2 N., R. 6 W., at culvert on Lytle Creek road, San Bernardino National Forest, 2.4 miles southeast of Lytle Creek.	.53	Sept. 1960-	Crest-stage gage, Sept. 6, 1960- Sept. 30, 1969.	1961			No flow
					1962	Dec. 2, 1961	4.10	16
					1963	Feb. 10, 1963	3.84	b.2
					1964	Jan. 21, 1964	3.89	4.1
					1965			No flow
					1966	Dec. 29, 1965	(d)	b200
					1967	Dec. 6, 1966	5.29	35
					1968	Nov. 19, 1967	2.74	b3
					1969	Feb. 25, 1969	(m)	260
					11-0724.		Icehouse Canyon Creek near Mount Baldy, Calif.	
434	Lat 34°14'48", long 117°38'29", in NW¼ sec. 20, T. 2 N., R. 7 W., at culvert on Mount Baldy road, Angeles National Forest, 1.1 miles northeast of Mount Baldy.	a4.45	Sept. 1960-	Crest-stage gage, Sept. 6, 1960- Sept. 30, 1970.	1961			No flow
					1962	Feb. 10, 1962	14.70	86
					1963			No flow
					1964			No flow
					1965			No flow
					1966	Nov. 22, 1965	(d)	1,300
					1967	Dec. 6, 1966		1,100
					1968	July 28, 1968	14.93	172
					1969	Jan. 25, 1969	(d)	7,600
					1970	(m)		(m)
11-0812.		North Fork San Gabriel River at Coldbrook Guard Station, Calif.						
435	Lat 34°17'26", long 117°50'22", at culvert on State Highway 39, Angeles National Forest, at Coldbrook Guard Station.	6.79	Sept. 1960-	Crest-stage gage, Sept. 2, 1960-	1961	Nov. 6, 1960	5.06	b8
					1962	Feb. 10, 1962	8.00	1,120
					1963	Feb. 9, 1963	5.85	64
					1964	Apr. 1, 1964	5.43	22
					1965	Apr. 9, 1965	5.28	14
					1966	Dec. 29, 1965	17.35	2,080
					1967	Dec. 6, 1966	6.63	250
					1968	Nov. 21, 1967	6.60	240
					1969	Jan. 25, 1969	13.04	1,740
					1970	Mar. 1, 1970	6.57	230
1971	Nov. 29, 1970	5.35	17					

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data				
					Water year	Date	Gage height (ft)	Discharge (cfs)	
	11-1052.			Cold Creek tributary near Malibu Beach, Calif.					
436	Lat 34°05'55", long 118°40'18", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 1 S., R. 17 W., at culvert on Mulholland Highway, 4.6 miles north of Malibu Beach.	0.30	Sept. 1960-	Crest-stage gage, Sept. 7, 1960-	1961	Nov. 5, 1960	16.11	56	
					1962	Dec. 2, 1961	17.30	94	
						1963	Mar. 16, 1963	15.02	26
						1964	Jan. 21, 1964	14.46	14
						1965	Nov. 9, 1964	14.83	28
						1966	Dec. 29, 1965	15.54	40
						1967	Jan. 24, 1967	15.43	36
						1968	Nov. 21, 1967	17.25	92
						1969	Feb. 25, 1969	16.72	74
						1970	Mar. 1, 1970	14.25	11
						1971	Nov. 29, 1970	17.48	102
	11-1057.			Little Sycamore Creek near Newbury Park, Calif.					
437	Lat 34°05'30", long 118°56'55", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T. 1 S., R. 20 W., at culvert on Yerba Buena road, 6.7 miles south of Newbury Park,	1.35	Sept. 1960-	Crest-stage gage, Sept. 7, 1960-	1961	Nov. 27, 1960	2.79	b1	
					1962	Feb. 10, 1962	7.20	206	
						1963	Sept. 18, 1963	2.62	b.2
						1964	Jan. 21, 1964	2.53	.1
						1965	Apr. 9, 1965	3.26	7
						1966	Dec. 29, 1965	10.83	377
						1967	Jan. 24, 1967	7.39	215
						1968	Nov. 21, 1967	7.34	212
						1969	Jan. 25, 1969	7.89	240
						1970	Mar. 1, 1970	4.13	55
						1971	Nov. 29, 1970	4.68	78

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																																						
					Water year	Date	Gage height (ft)	Discharge (cfs)																																																			
10-2516.		Salsberry Creek near Shoshone, Calif.																																																									
455	Lat 35°55'10", long 116°26'05", in sec. 15, T. 21 N., R. 5 E. (unsurveyed), at culvert on Shoshone-Death Valley road 10 miles southwest of Shoshone.	0.008	Jan. 1959-	Crest-stage gage, Jan. 15, 1959-	1959			q No flow																																																			
					1960	Sept. 2, 1960	10.82	2.2																																																			
					1961	Sept. 16, 1961	10.10	b.1																																																			
					1962	Sept. 26, 1962	10.20	b.2																																																			
					1963	Sept. 19, 1963	10.80	2.2																																																			
					1964	July 16, 1964	10.71	1.8																																																			
					1965			No flow																																																			
					1966	Dec. 29, 1965	10.15	.2																																																			
					1967			No flow																																																			
					1968	July 28, 1968	11.24	4.1																																																			
					1969	July 20, 1969	11.39	4.9																																																			
					1970	Aug. 16, 1970	10.50	1.5																																																			
					1971	Aug. 24, 1971	10.75	2																																																			
10-2523.		China Spring Creek near Mountain Pass, Calif.																																																									
456	Lat 35°28'05", long 115°30'30", in E½ sec. 31, T. 16 N., R. 14 E., at culvert on U.S. Highway 91 and 466, 2.0 miles east of Mountain Pass.	.94	Jan. 1959-	Crest-stage gage, Jan. 15, 1959-	1959			q No flow																																																			
					1960			No flow																																																			
					1961			No flow																																																			
					1962			No flow																																																			
				Water-stage recorder, Jan. 14, 1959-	1963			No flow																																																			
					1964	Aug. 5, 1964	2.76	113																																																			
					1965			No flow																																																			
					1966			No flow																																																			
					1967	Aug. 10, 1967	1.75	b10																																																			
					1968	July 24, 1968	2.20	10																																																			
					1969	Sept. 15, 1969	2.37	28																																																			
					1970			No flow																																																			
					1971	Aug. 29, 1971	1.90	46																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="10">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0</td> <td>January</td> <td>0</td> <td>April</td> <td>0</td> <td>July</td> <td>0.7</td> <td></td> <td></td> </tr> <tr> <td>November</td> <td>.6</td> <td>February</td> <td>0</td> <td>May</td> <td>1.0</td> <td>August</td> <td>1.1</td> <td></td> <td></td> </tr> <tr> <td>December</td> <td>.2</td> <td>March</td> <td>0</td> <td>June</td> <td>0</td> <td>September</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td colspan="8">Total for water year, October 1, 1970-September 30, 1971</td> <td>3.6</td> <td></td> </tr> </tbody> </table>										Monthly and annual precipitation, in inches										October	0	January	0	April	0	July	0.7			November	.6	February	0	May	1.0	August	1.1			December	.2	March	0	June	0	September	0			Total for water year, October 1, 1970-September 30, 1971								3.6	
Monthly and annual precipitation, in inches																																																											
October	0	January	0	April	0	July	0.7																																																				
November	.6	February	0	May	1.0	August	1.1																																																				
December	.2	March	0	June	0	September	0																																																				
Total for water year, October 1, 1970-September 30, 1971								3.6																																																			
10-2527.		Creosote Creek near Cadiz, Calif.																																																									
457	Lat 34°34'15", long 115°28'55", in NE¼ sec. 35, T. 6 N., R. 14 E., at culvert on U.S. Highway 66, 4 miles northeast of Cadiz.	.023	Oct. 1958-	Crest-stage gage, Jan. 14, 1959-	1959	Aug. 17, 1959	10.99	9.2																																																			
					1960	Mar. 2, 1960	11.10	12																																																			
					1961	Nov. 5, 1960	5.33	5.3																																																			
					1962			No flow																																																			
					1963	Sept. 18, 1963	10.70	b.5																																																			
					1964			No flow																																																			
					1965			No flow																																																			
					1966			No flow																																																			
					1967	Aug. 16, 1967	10.72	4.4																																																			
					1968			No flow																																																			
					1969			No flow																																																			
					1970			No flow																																																			
					1971			No flow																																																			
10-2530.		Gourd Creek near Ludlow, Calif.																																																									
458	Lat 34°40'35", long 116°01'20", in SW¼ sec. 23, T. 7 N., R. 9 E., at culvert on U.S. Highway 66, 8.5 miles southeast of Ludlow.	.30	Jan. 1959-	Crest-stage gage, Jan. 13, 1959-	1959			q No flow																																																			
					1960	Nov. 1, 1959	13.78	65																																																			
					1961	Sept. 12, 1961	16.19	106																																																			
					1962			No flow																																																			
					1963	Sept. 18, 1963	13.01	49																																																			
					1964	Oct. 18, 1963	13.66	63																																																			
					1965			No flow																																																			
					1966	Dec. 29, 1965	11.91	25																																																			
					1967			No flow																																																			
					1968	July 6, 1968	17.28	125																																																			
					1969	July 18, 1969	13.46	59																																																			
					1970	Aug. 14, 1970	16.00	103																																																			
					1971			No flow																																																			

See footnotes at end of table.

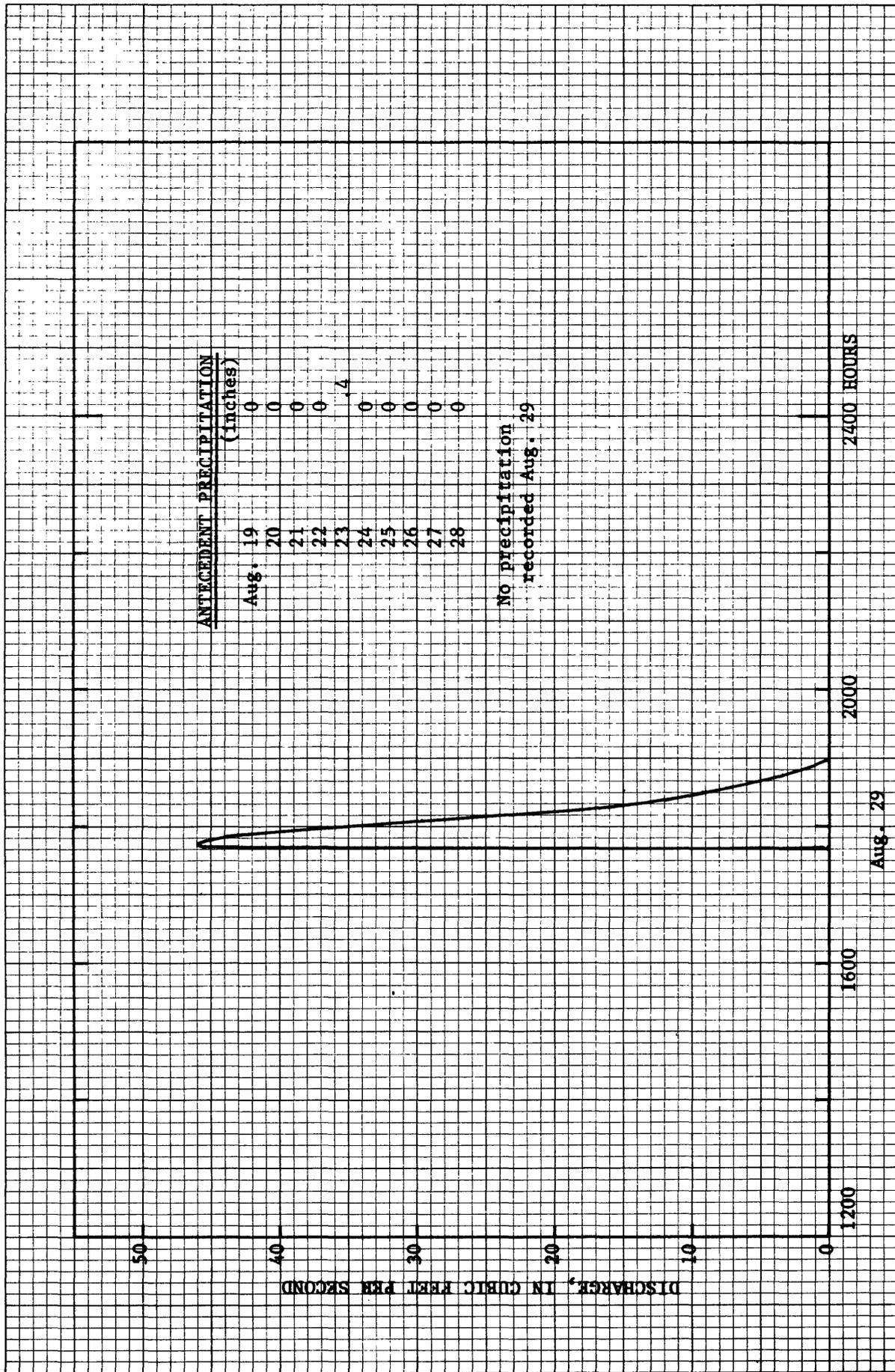


FIGURE 29.---Storm hydrograph for China Spring Creek near Mountain Pass, August 29, 1971.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-2618. Beacon Creek at Helendale, Calif.								
459	Lat 34°45'00", long 117°18'53", in SE¼ sec. 29, T. 8 N., R. 4 W., at culvert on U.S. Highway 66 and 91, 0.5 mile northeast of Helendale.	0.72	Oct. 1958-	Crest-stage gage, Jan. 13, 1959-Sept. 30, 1970. Water-stage recorder, Oct. 24, 1960-Feb. 7, 1967.	1959 Sept. 13, 1959 1960 Dec. 24, 1959 1961 Nov. 6, 1960 1962 Dec. 2, 1961 1963 Sept. 19, 1963 1964 Oct. 18, 1963 1965 Aug. 17, 1965 1966 1967 July 13, 1967 1968 Aug. 7, 1968 1969 June 16, 1969 1970 (m)	13.12 10.52 10.53 10.50 11.25 10.44 14.06 12.27 15.84 13.64	28 .5 b.1 b.1 5.3 .3 43 No flow 16 b360 36 (m)	
10-2626. Boom Creek near Barstow, Calif.								
460	Lat 34°54'20", long 116°56'55", in NW¼NE¼ sec. 2, T. 9 N., R. 1 W., at culvert on U.S. Highway 91 and 466, 4 miles east of Barstow.	.24	Oct. 1958-	Crest-stage gage, Jan. 13, 1959- Water-stage recorder, Feb. 8, 1967-	1959 Sept. 13, 1959 1960 Sept. 1, 1960 1961 Aug. 22, 1961 1962 Dec. 2, 1961 1963 Sept. 19, 1963 1964 Oct. 18, 1963 1965 July 17, 1965 1966 Nov. 23, 1965 1967 July 15, 1967 1968 June 7, 1968 1969 Sept. 6, 1969 1970 Aug. 26, 1970 1971	12.93 14.23 9.25 7.73 8.19 8.90 12.61 9.14 9.36 10.13 10.53 10.12	36 125 15 b.1 1.8 9.1 107 14 17 33 43 33 No flow	
Monthly and annual precipitation, in inches								
October	0	January	0	April	0	July	0	
November	.4	February	0	May	.2	August	0	
December	.1	March	0	June	0	September	0	
Total for water year, October 1, 1970-September 30, 1971							0.7	
10-2631. Zzyzx Creek near Baker, Calif.								
461	Lat 35°11'40", long 116°09'05", in sec. 20, T. 13 N., R. 8 E. (unsurveyed), at culvert on U.S. Highway 91 and 466, 6.5 miles southwest of Baker.	.23	Jan. 1959-	Crest-stage gage, Jan. 15, 1959-Sept. 30, 1969.	1959 1960 1961 July 13, 1961 1962 Aug. 16, 1962 1963 Sept. 19, 1963 1964 1965 1966 Nov. 22, 1965 1967 Aug. 30, 1967 1968 July 6, 1968 1969	10.28 10.48 10.28 (d) 14.79 14.98	q No flow No flow 1.0 2.3 b1 No flow No flow b2 46 6.6 No flow	
10-2645.2. Amargosa Creek tributary near Palmdale, Calif.								
462	Lat 34°37'51", long 118°19'32", in SE¼ sec. 2, T. 6 N., R. 14 W., at culvert on Pine Canyon road, 12.5 miles northwest of Palmdale.	.05	Oct. 1958-	Crest-stage gage, Jan. 19, 1959-	1959 Feb. 11, 1959 1960 Dec. 24, 1959 1961 1962 Dec. 2, 1961 1963 Apr. 13, 1963 1964 Jan. 21, 1964 1965 Nov. 9, 1964 1966 Nov. 22, 1965 1967 Apr. 22, 1967 1968 Mar. 8, 1968 1969 Feb. 25, 1969 1970 Mar. 1, 1970 1971 Nov. 29, 1970	10.72 10.34 11.11 10.82 10.88 10.35 11.31 11.03 10.67 11.95 10.93 12.1	b2.7 .7 No flow 6.6 3.6 4 .8 8.2 5.4 3 17 4.5 19	

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-2645.3. Pine Creek near Palmdale, Calif.								
463	Lat 34°36'09", long 118°14'48", in SW¼ sec. 15, T. 6 N., R. 13 W., at culvert on Pine Canyon road 7½ miles northwest of Palmdale.	1.37	Oct. 1958-	Crest-stage gage, Dec. 12, 1958-	1959	Jan. 6, 1959	10.41	b0.8
					1960	Apr. 28, 1960	10.32	.5
					1961	Aug. 5, 1961	10.69	2.0
					1962	Feb. 10, 1962	14.88	58
					1963	June 12, 1963	10.92	3.5
					1964	Jan. 21, 1964	11.21	5.2
					1965	Apr. 9, 1965	10.67	1.9
					1966	Dec. 29, 1965	12.05	13
					1967	Dec. 6, 1966	10.78	2.4
					1968	Mar. 8, 1968	10.75	2.3
					1969	Feb. 25, 1969	15.33	69
					1970	Mar. 1, 1970	10.66	1.8
					1971	Nov. 29, 1970	11.3	6
10-2645.6. Spencer Canyon Creek near Fairmont, Calif.								
464	Lat 34°46'33", long 118°34'08", in SE¼SW¼SW¼ sec. 15, T. 8 N., R. 16 W., at culvert on county road, 8.5 miles northwest of Fairmont.	3.60	Oct. 1958-	Crest-stage gage, Jan. 19, 1959-	1959	Jan. 6, 1959		b10
					1960			No flow
					1961			No flow
					1962	Feb. 11, 1962	11.90	215
					1963	Aug. 7, 1963	11.11	126
					1964	Oct. 18, 1963	10.60	78
					1965	Mar. 31, 1965	9.95	13
					1966	Dec. 29, 1965	10.71	85
					1967	Sept. 24, 1967	11.15	130
					1968	Nov. 21, 1967	11.00	114
					1969	Feb. 25, 1969	12.50	290
					1970			No flow
					1971	Nov. 29, 1970	10.64	78
10-2646.05. Joshua Creek near Mojave, Calif.								
465	Lat 35°00'45", long 118°20'40", in SW¼ sec. 26, T. 11 N., R. 14 W., at culvert on Willow Springs road 10 miles southwest of Mojave.	3.83	Oct. 1958-	Crest-stage gage, Dec. 12, 1958-	1959	Jan. 6, 1959	10.63	b3
					1960	Feb. 29, 1960	10.41	b1
					1961	Nov. 5, 1960	10.43	b.2
					1962	Dec. 2, 1961	10.59	b.4
					1963	Aug. 8, 1963	10.72	4.0
					1964	Jan. 21, 1964	10.20	b.1
					1965	Aug. 16, 1965		2,540
					1966	Nov. 22, 1965		b1
					1967	Sept. 24, 1967	5.56	17
					1968	Nov. 19, 1967	5.39	13
					1969	Feb. 25, 1969	5.35	13
					1970	Feb. 10, 1970	6.08	28
					1971	Nov. 29, 1970	5.24	11
10-2647. Peewee Creek near Randsburg, Calif.								
466	Lat 35°27'40", long 117°39'20", in SW¼NE¼ sec. 34, T. 28 S., R. 40 E., at culvert on U.S. Highway 395, 6.5 miles north of Randsburg.	.14	Jan. 1959-	Crest-stage gage, Jan. 20, 1959-	1959			q No flow
					1960			No flow
					1961	Nov. 5, 1960	10.26	b.2
					1962	Mar. 9, 1962	10.25	.3
					1963	Sept. 19, 1963	10.65	.8
					1964	Oct. 18, 1964	10.28	.3
					1965			No flow
					1966	Nov. 22, 1965	10.47	.6
					1967	Dec. 6, 1966	10.20	.2
					1968	July 28, 1968	10.69	1
					1969	Jan. 25, 1969	10.80	1.3
					1970			No flow
					1971			No flow

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-2648.4. Sand Creek near Inyokern, Calif.								
467	Lat 35°37'25", long 117°53'25", in SW¼SE¼ sec. 33, T. 26 S., R. 38 E., at culvert on U.S. Highway 6, 4.8 miles southwest of Inyokern.	1.02	Jan. 1959-	Crest-stage gage, Jan. 20, 1959-	1959	Feb. 16, 1959		b q0.5
					1960	Feb. 2, 1960		b.1
					1961	Aug. 23, 1961	2.59	b.1
					1962	Feb. 19, 1962		b.2
					1963	Aug. 8, 1963	5.53	22
					1964	Oct. 18, 1963	3.62	b.5
					1965	Apr. 9, 1965	3.01	.2
					1966	Jan. 30, 1966	3.41	.4
					1967	Sept. 4, 1967		b.6
					1968	Nov. 21, 1967	2.77	.1
					1969	July 20, 1969	2.70	.1
					1970			No flow
					1971			No flow
10-2649. Salt Wells Creek near Westend, Calif.								
468	Lat 35°39'20", long 117°26'50", in NE¼NW¼ sec. 27, T. 26 S., R. 42 E., at culvert on Trona road, 4.8 miles southwest of Westend.	61.6	Jan. 1959-	Crest-stage gage, Jan. 20, 1959-	1959	Feb. 16, 1959	10.36	q10
					1960	Dec. 25, 1959	10.22	b7
					1961	Nov. 5, 1960	11.04	49
					1962	Mar. 9, 1962	10.62	25
					1963	Aug. 8, 1963	12.48	167
					1964	Oct. 18, 1963	12.67	185
					1965	Aug. 16, 1965		b270
					1966	Nov. 22, 1965		b180
					1967	Aug. 30, 1967	16.86	612
					1968	July 28, 1968	12.72	213
					1969	Jan. 25, 1969	10.50	34
					1970			No flow
					1971			No flow
10-2649.15. Crust Creek near Westend, Calif.								
469	Lat 35°41'25", long 117°22'50", in NW¼ sec. 8, T. 26 S., R. 43 E., at culvert on Trona Railroad, 1.2 miles southeast of Westend.	.13	Jan. 1959-	Crest-stage gage, Jan. 20, 1959-	1959	Sept. 13, 1959		b q.2
					1960			No flow
					1961	Aug. 22, 1961	9.93	b.3
					1962			No flow
					1963	Aug. 8, 1963	9.94	.3
					1964	Oct. 17, 1963	10.41	2.8
					1965	July 17, 1965	10.57	4.3
					1966	Dec. 29, 1965	10.50	3.5
					1967	Dec. 6, 1966	10.09	.8
					1968	July 28, 1968	10.94	9
					1969	Feb. 25, 1969	10.58	4.4
					1970			No flow
					1971	Nov. 29, 1970	10.30	2.0

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
11-0138.5. Cedar Creek near Jamul, Calif.								
479	Lat 32°39'05", long 116°51'10", in NW¼ sec. 35, T. 17 S., R. 1 E., at dip in highway on Otay Road, 4.7 miles south of Jamul.	6.66	Nov. 1961-	Crest-stage gage, Nov. 21, 1961-	1962	Feb. 26, 1962	11.07	11
					1963			No flow
					1964			No flow
					1965	Apr. 9, 1965	11.14	16
					1966	Nov. 22, 1965	11.47	50
					1967	Dec. 6, 1966	12.52	660
					1968			No flow
					1969	Feb. 25, 1969	11.79	160
					1970			No flow
					1971			No flow
11-0233. Rattlesnake Creek near Poway, Calif.								
480	Lat 32°58'36", long 117°01'20", in N½ sec. 7, T. 14 S., R. 1 W., at culvert on county road, 1.4 miles northeast of Poway.	a3.74	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Jan. 20, 1962	3.95	39
					1963			No flow
					1964	Apr. 1, 1964	1.38	.9
					1965	Apr. 9, 1965	1.66	3
					1966	Nov. 22, 1965	4.45	51
					1967	Dec. 6, 1966	4.99	64
					1968	Nov. 21, 1967	4.54	53
					1969	Feb. 25, 1969	4.24	46
					1970	Mar. 1, 1970	3.36	26
					1971	May 8, 1971	1.84	4.6
11-0298. Lake Hodges tributary near Escondido, Calif.								
481	Lat 33°05'19", long 117°06'48", in NW¼ sec. 32, T. 12 S., R. 2 W., at culvert on Del Dias Highway, 2.7 miles southwest of Escondido.	.18	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Feb. 20, 1962	6.32	9.8
					1963	Feb. 9, 1963	5.96	5.1
					1964	Nov. 20, 1963	6.62	15
					1965	Dec. 28, 1964	6.20	8.2
					1966	Nov. 23, 1965	6.80	19
					1967	Dec. 6, 1966	7.12	27
					1968	Dec. 18, 1967	7.14	28
					1969	Jan. 25, 1969	6.86	20
					1970	Mar. 2, 1970	6.90	21
					1971	Dec. 21, 1970	6.88	21
11-0404. San Luis Rey River tributary No. 2 near Fallbrook, Calif.								
482	Lat 33°21'36", long 117°12'10", in SE¼SW¼ sec. 28, T. 9 S., R. 3 W., at culvert on Live Oak Park Road, 3.2 miles southeast of Fallbrook.	.36	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Jan. 21, 1962	1.44	2.7
					1963	Feb. 10, 1963	1.75	6.0
					1964	Jan. 21, 1964	1.27	1.4
					1965	Apr. 9, 1965	1.34	2
					1966	Nov. 22, 1965	3.63	46
					1967	Dec. 6, 1966	3.84	50
					1968	Mar. 8, 1968	2.20	15
					1969	Feb. 25, 1969	4.41	62
					1970	Mar. 1, 1970	3.21	35
					1971	Dec. 21, 1970	2.01	10

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-0446.			Santa Margarita River tributary near Fallbrook, Calif.				
483	Lat 33°24'39", long 117°16'45", in SE¼NE¼ sec. 10, T. 9 S., R. 4 W., at culvert on De Luz Road, 2.6 miles northwest of Fallbrook.	0.52	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 20, 1962 Feb. 9, 1963 Jan. 22, 1964 Dec. 27, 1964 Nov. 23, 1965 Dec. 6, 1966 Nov. 21, 1967 Feb. 25, 1969 Mar. 1, 1970 Dec. 21, 1970	2.03 1.98 2.12 1.95 2.87 4.34 3.65 6.43 2.84 2.75	1.6 1.4 2.3 1.2 11 45 26 109 11 9.5
	11-0463.2.			San Mateo Creek tributary near San Onofre, Calif.				
484	Lat 33°25'23", long 117°32'43", in NW¼SE¼ sec. 6, T. 9 S., R. 6 W., at culvert on a military road in Camp Joseph Pevdleton, 3.3 miles northeast of San Onofre.	.65	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 22, 1962 Mar. 16, 1963 Jan. 22, 1964 Apr. 9, 1965 Nov. 23, 1965 Dec. 6, 1966 Nov. 21, 1967 Jan. 25, 1969 Nov. 7, 1969	7.20 2.05 2.23 2.13 6.65 5.37 2.27 8.42 2.18	68 2.1 3.6 2.7 62 45 4.1 268 3.2 No flow
	11-0463.9.			San Juan Creek tributary near Elsinore, Calif.				
485	Lat 33°36'10", long 117°27'08", in NE¼SE¼ sec. 36, T. 6 S., R. 6 W., at culvert on State Highway 74, Cleveland National Forest, 9.5 miles southwest of Elsinore.	.39	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 12, 1962 Feb. 10, 1963 Oct. 18, 1963 Nov. 22, 1965 Dec. 6, 1966 Nov. 20, 1967 Feb. 25, 1969 (m) (m)	9.76 9.97 9.05 10.21 10.30 9.81 (m) (m)	6.5 10 .4 No flow 16 18 7.2 2,130 (m) No flow
	11-0464.1.			San Juan Creek tributary near San Juan Capistrano, Calif.				
486	Lat 33°33'05", long 117°32'53", in SE¼SE¼ sec. 18, T. 7 S., R. 6 W., at culvert on State Highway 74, 7.7 miles northeast of San Juan Capistrano.	a.15	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Feb. 12, 1962 Feb. 10, 1963 Apr. 9, 1965 Nov. 22, 1965 Jan. 24, 1967 Mar. 8, 1968 Jan. 25, 1969	11.32 11.38 11.11 13.44 11.54 11.09 14.45	9.0 10 No flow 5.6 24 12 5.5 29 No flow No flow

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	11-0467.			Live Oak Creek near Modjeska, Calif.				
487	Lat 33°39'54", long 117°35'59", in W½ sec. 10, T. 6 S., R. 7 W., at culvert on a county road 3.3 miles southeast of Modjeska.	1.31	Nov. 1961-	Crest-stage gage, Nov. 28, 1961-	1962	Feb. 15, 1962	2.94	31
					1963	Feb. 9, 1963	2.80	26
					1964	Nov. 20, 1963	2.88	30
					1965	Apr. 9, 1965	2.50	18
					1966	Nov. 22, 1965	4.96	123
					1967	Dec. 6, 1966	4.43	96
					1968	Nov. 21, 1967	3.15	39
					1969	Feb. 25, 1969	11.74	590
					1970	(m)		(m)
					1971	Dec. 21, 1970	4.67	108
	11-0759.			Black Star Creek near Silverado, Calif.				
488	Lat 33°46'58", long 117°39'58", in NE¼ sec. 36, T. 4 S., R. 8 W., at at slope area site along Black Star Canyon Road, Cleveland National Forest, 3.3 miles northwest of Silverado.	a4.65	Nov. 1961-	Crest-stage gage, Nov. 28, 1961-	1962	Jan. 21, 1962	21.03	47
					1963	Feb. 10, 1963	20.46	15
					1964	Jan. 20, 1964	21.19	60
					1965	Apr. 9, 1965	21.52	90
					1966	Nov. 22, 1965	22.9	388
					1967	Dec. 6, 1966	24.0	697
					1968	Mar. 8, 1968	22.95	400
					1969	Feb. 25, 1969	28.8	2,340
					1970	(m)		(m)
					1971	Nov. 29, 1970	22.23	218

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-2556.5. Chariot Creek near Julian, Calif.								
503	Lat 33°03'58", long 116°33'08", in SE½ sec. 3, T. 13 S., R. 4 E., at culvert on State Highway 78, Cleveland National Forest, 3 miles east of Julian.	a7.95	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Feb. 21, 1962	5.30	1.4
					1963	Aug. 15, 1963	5.29	1.3
					1964	Apr. 2, 1964	5.71	5.5
					1965	Apr. 9, 1965	7.15	29
					1966	Dec. 29, 1965	8.20	220
					1967	Dec. 6, 1966	8.86	340
					1968	Feb. 14, 1968	5.86	3
					1969	Jan. 25, 1969	8.03	170
					1970	Mar. 1, 1970	6.56	16
					1971	Mar. 13, 1971	6.30	10

10-2581. Palm Canyon Creek tributary near Anza, Calif.

504	Lat 33°34'05", long 116°30'45", in NW¼ sec. 18, T. 7 S., R. 5 E., at culvert on State Highway 74, San Bernardino National Forest, 9.5 miles east of Anza.	.47	Nov. 1961-	Crest-stage gage, Nov. 17, 1961-	1962	Dec. 2, 1961	4.52	.1
					1963	Sept. 4, 1963	5.06	b7.0
					1964	Oct. 18, 1963	5.08	11
					1965			No flow
					1966	July 30, 1966	5.68	23
					1967	Aug. 30, 1967	6.23	28
					1968			No flow
					1969	Jan. 25, 1969	4.92	4.1
					1970	Feb. 28, 1970	4.91	3.8
					1971	Aug. 17, 1971	5.28	16

Monthly and annual precipitation, in inches							
October	0.1	January	0.7	April	0.4	July	0.3
November	2.3	February	.6	May	.5	August	1.6
December	2.3	March	.4	June	0	September	0
Total for water year, October 1, 1970-September 30, 1971							9.2

11-0109. Wilson Creek tributary near Dulzura, Calif.

505	Lat 32°43'22", long 116°42'06", in NW¼ sec. 5, T. 17 S., R. 3 E., at culvert on Japatul-Lyons Valley road, Cleveland National Forest, 7.0 miles northeast of Dulzura.	.61	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Feb. 20, 1962	7.37	1.5
					1963			No flow
					1964			No flow
					1965	Apr. 9, 1965	8.01	7.3
					1966	Nov. 22, 1965	10.63	62
					1967	Dec. 6, 1966	12.22	98
					1968	Dec. 19, 1967	7.73	4.5
					1969	Feb. 25, 1969	10.17	49
					1970	Mar. 5, 1970	7.28	.8
					1971	Dec. 21, 1970	11.07	72

Monthly and annual precipitation, in inches							
October	0	January	0.5	April	1.1	July	0
November	1.4	February	1.5	May	.2	August	0
December	2.0	March	.2	June	0	September	0
Total for water year, October 1, 1970-September 30, 1971							6.9

11-0119. Potrero Creek tributary near Barrett Junction, Calif.

506	Lat 32°36'04", long 116°41'04", in SW¼ sec. 16, T. 18 S., R. 3 E., at culvert on State Highway 94, 1.4 miles southeast of Barrett Junction.	.78	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Feb. 25, 1962	10.05	.2
					1963			No flow
					1964			No flow
					1965	Apr. 9, 1965	10.23	1.3
					1966	Nov. 22, 1965	15.25	294
					1967	Dec. 7, 1966	13.42	122
					1968	Mar. 8, 1968	13.16	104
					1969	Jan. 25, 1969	10.82	7.1
					1970	Mar. 1, 1970	10.43	2.3
					1971			No flow

See footnote at end of table.

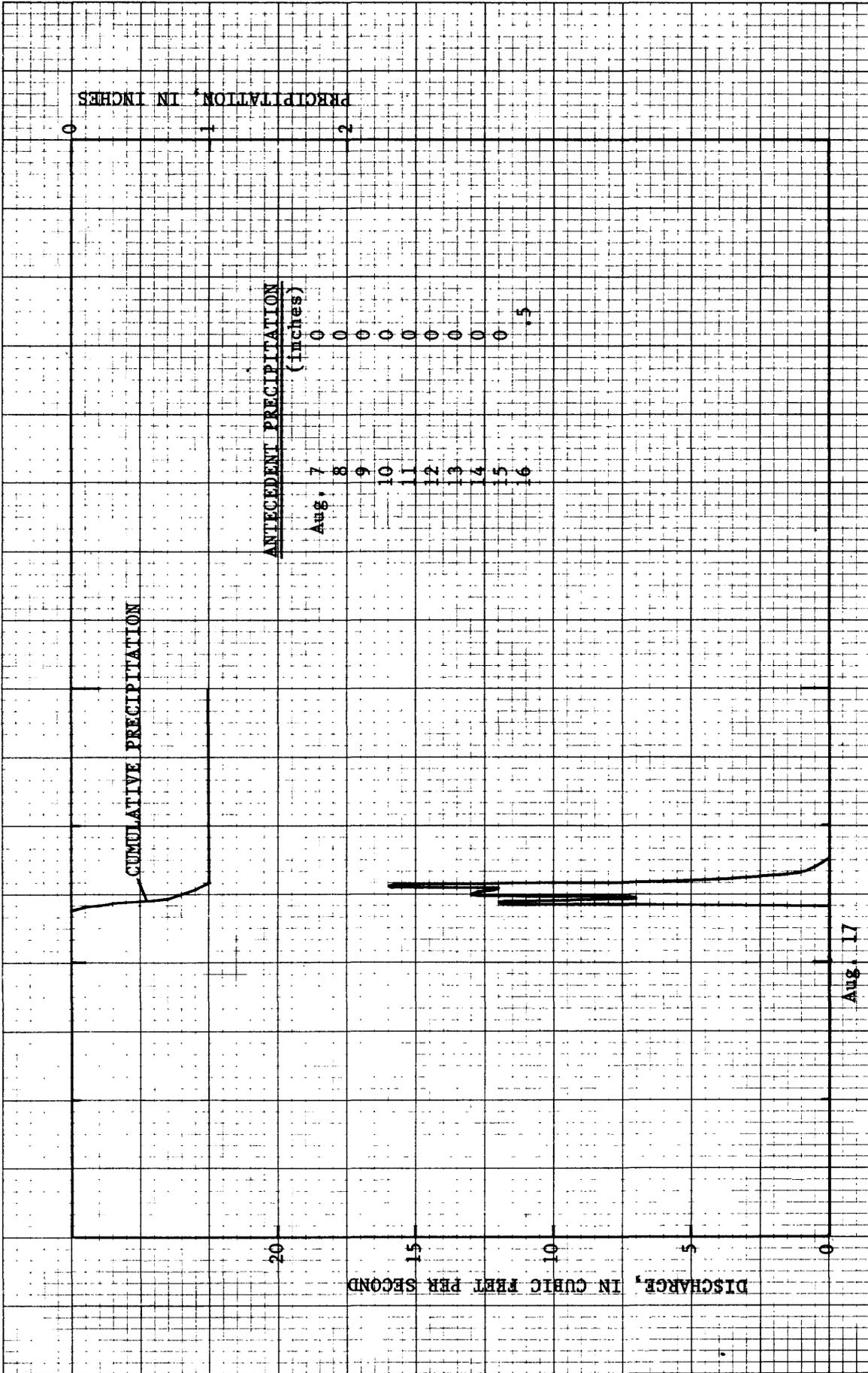


FIGURE 30.--Storm hydrograph and precipitation for Palm Canyon Creek tributary near Anza, August 17, 1971.

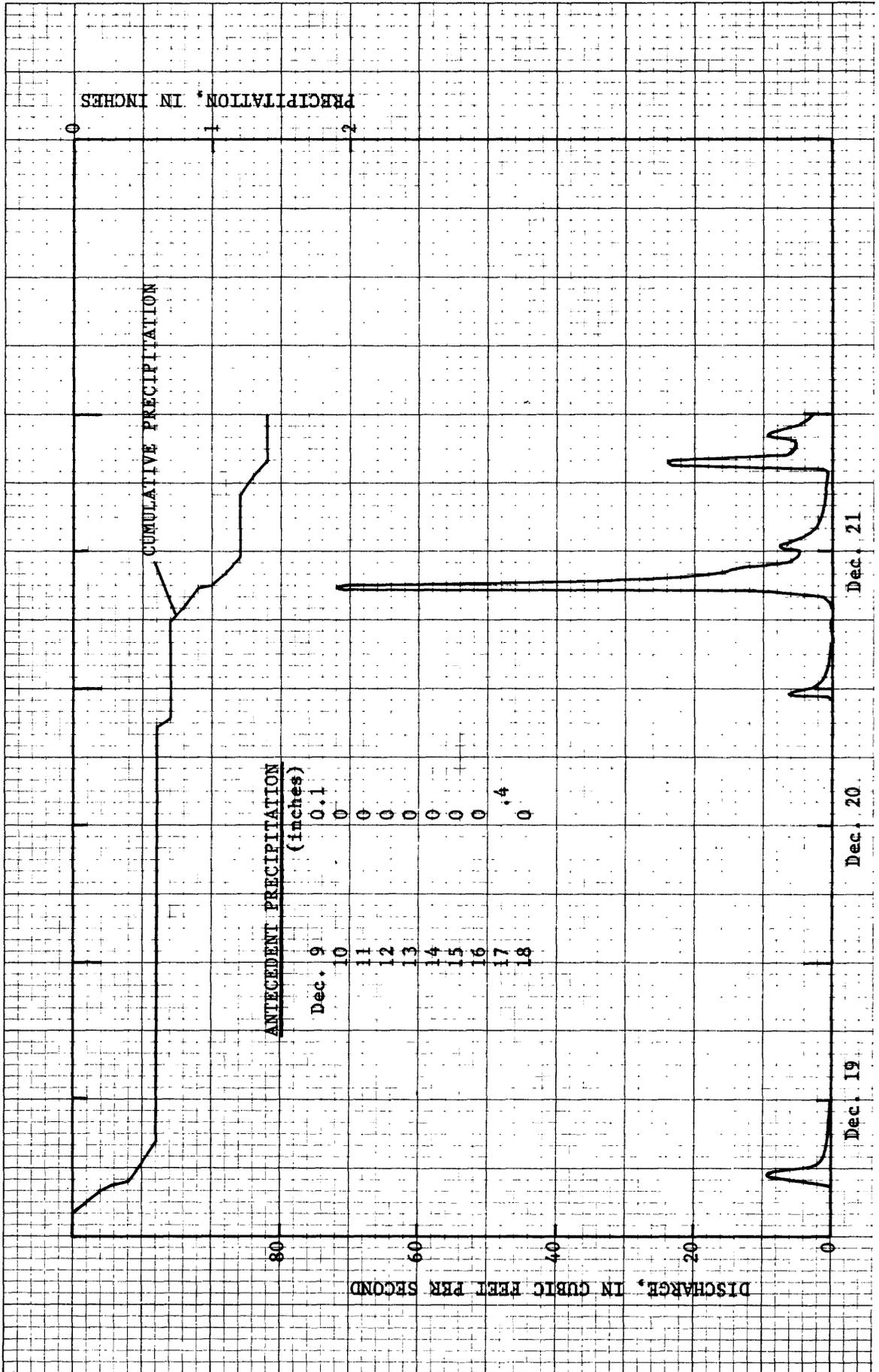


FIGURE 31.--Storm hydrograph and precipitation for Wilson Creek tributary near Dulzura, December 19-21, 1970.

HYDROLOGIC REGION XXI

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-0148.5.	Japacha Creek near Descanso, Calif.					
508	Lat 32°55'04", long 116°34'14", in Cuyamaca State Park, at culvert on State Highway 79, 5.2 miles northeast of Descanso.	2.40	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 Feb. 25, 1962 1963 May 13, 1963 1964 Apr. 1, 1964 1965 Apr. 10, 1965 1966 Nov. 23, 1965 1967 Dec. 6, 1966 1968 Dec. 18, 1967 1969 Feb. 25, 1969 1970 Mar. 14, 1970 1971 Dec. 21, 1970	2.70 3.06 3.80 8.56 2.37 5.55 2.62	11 .1 6 13 35 178 2.4 97 b3 5.2	
		11-0211.	Wildcat Creek near Lakeside, Calif.					
509	Lat 32°53'56", long 116°53'16", in NW¼ sec. 4, T. 15 S., R. 1 E., at culvert on Wildcat Canyon road, 3.1 miles northeast of Lakeside.	.82	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 Feb. 12, 1962 1963 Mar. 16, 1963 1964 Jan. 22, 1964 1965 Mar. 31, 1965 1966 Nov. 22, 1965 1967 Dec. 6, 1966 1968 Mar. 8, 1968 1969 Jan. 25, 1969 1970 Mar. 1, 1970 1971 Dec. 21, 1970	4.27 3.02 2.28 2.08 2.75 4.19 2.52 3.48 2.03 3.19	38 11 2.2 .9 8.0 35 4.5 20 .6 14	
		11-0258.	Clevenger Creek tributary near Ramona, Calif.					
510	Lat 33°04'11", long 116°53'33", in Valle De Pamo Grant, at culvert on State Highway 78, 2.7 miles north of Ramona.	.45	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 Feb. 20, 1962 1963 Feb. 10, 1963 1964 Apr. 1, 1964 1965 Apr. 9, 1965 1966 Nov. 23, 1965 1967 Dec. 6, 1966 1968 Dec. 18, 1967 1969 Jan. 25, 1969 1970 Mar. 1, 1970 1971 Dec. 21, 1970	4.01 4.84 4.53 4.99 7.10 5.01 4.71 4.94 5.14 5.05	b.1 8.9 b2 17 47 14 5 12 14 13	
		11-0321.	Agua Caliente Creek tributary near Warner Springs, Calif.					
511	Lat 33°16'05", long 116°39'17", in San Jose Del Valle Grant, at culvert on State Highway 79, 1.6 miles southwest of Warner Springs.	.050	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 Jan. 21, 1962 1963 Aug. 8, 1963 1964 Apr. 1, 1964 1965 1966 Nov. 22, 1965 1967 Aug. 30, 1967 1968 Mar. 8, 1968 1969 Oct. 3, 1968 1970 Mar. 1, 1970 1971 Aug. 28, 1971	5.30 6.00 5.37 5.66 6.95 5.3 5.68 5.78 5.81	b.1 2.8 .2 b.1 .8 13 b.1 .9 1.3 1.5	

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data								
					Water year	Date	Gage height (ft)	Discharge (cfs)					
11-0391. San Luis Rey River tributary near Pala, Calif.													
512	Lat 33°21'45", long 117°02'55", in SW¼ sec. 25, T. 9 S., R. 2 W., at culvert on State Highway 76, 1.5 miles east of Pala.	1.01	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Jan. 21, 1962	16.38	17					
					1963	Feb. 10, 1963	15.12	1.9					
					1964	Oct. 18, 1963	15.58	5.8					
					1965	Apr. 9, 1965	15.25	2.8					
					Water-stage recorder, Sept. 20, 1965-	1966	Nov. 22, 1965	16.77	25				
						1967	Dec. 6, 1966	15.52	6.9				
						1968	Mar. 8, 1968	15.85	6.4				
					1969	Feb. 25, 1969	15.95	10					
					1970	Mar. 2, 1970	15.24	2.7					
					1971	Dec. 19, 1970	15.42	1.3					
					Monthly and annual precipitation, in inches								
October	0	January	1.1	April	0.8	July	0						
November	2.2	February	.2	May	1.3	August	0						
December	4.0	March	.5	June	0	September	0						
Total for water year, October 1, 1970-September 30, 1971								10.1					
11-0424.3. Coahuila Creek tributary at Anza, Calif.													
513	Lat 33°33'20", long 116°41'15", on the section line between sections 17 and 20, T. 7 S., R. 3 E., on Coahuila Road, San Bernardino National Forest, 0.8 mile west of Anza.	4.90	Nov. 1961-	Crest-stage gage, Nov. 17, 1961-	1961	Aug. 18, 1961		w102					
					1962	Dec. 2, 1961	1.41	b10					
					1963	Sept. 3, 1963	1.67	b12					
					1964	Apr. 1, 1964		b.2					
					1965	Mar. 7, 1965		b.1					
					1966	Nov. 22, 1965	1.68	27					
					1967	Dec. 6, 1966	1.75	45					
					1968	Dec. 18, 1967	1.35	8					
					1969	Jan. 25, 1969	2.06	91					
					1970	Aug. 16, 1970	1.38	10					
					1971			No flow					
					11-0543. Mill Creek tributary near Yucaipa, Calif.								
					514	Lat 34°04'16", long 117°02'15", in NE¼ sec. 24, T. 1 S., R. 2 W., at culvert on Bryant Street, 2.6 miles north of Yucaipa.	a2.01	Nov. 1961-	Crest-stage gage, Nov. 17, 1961-	1962	Dec. 2, 1961	10.34	17
1963	Feb. 10, 1963	10.13	11										
1964	Oct. 18, 1963	10.12	10										
1965	Dec. 27, 1964	9.86	1.7										
1966	Dec. 29, 1965	10.41	20										
1967	Dec. 6, 1966	11.61	98										
1968	Nov. 21, 1967	10.77	37										
1969	Feb. 25, 1969	13.28	199										
1970	Nov. 7, 1969	10.52	25										
1971	(d)	(m)	b2										
11-0693. South Fork San Jacinto River tributary near Valle Vista, Calif.													
515	Lat 33°43'20", long 116°48'00", in W¼ sec. 20, T. 5 S., R. 2 E., at culvert on State Highway 74, San Bernardino National Forest, 5.7 miles southeast of Valle Vista.	2.20	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962	Mar. 6, 1962	3.54	3.0					
					1963	Sept. 18, 1963	3.24	b.8					
					1964	Apr. 1, 1964	3.65	5.1					
					1965	Apr. 10, 1965	3.86	5.8					
					Water-stage recorder, Nov. 17, 1961-	1966	Nov. 22, 1965	5.56	36				
						1967	Dec. 6, 1966	5.53	36				
						1968	Nov. 21, 1967	3.96	8.7				
					1969	Feb. 25, 1969	6.93	51					
					1970	Aug. 16, 1970	3.97	13					
					1971			No flow					

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		11-0701.9.		Laborde Creek near San Jacinto, Calif.				
516	Lat 33°51'44", long 117°01'29", in SW¼ sec. 31, T. 3 S., R. 1 W., at culvert on State Highway 79, 5.6 miles northeast of Lakeview.	7.57	Nov. 1961-	Crest-stage gage, Nov. 17, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 21, 1962 Feb. 10, 1963 Nov. 20, 1963 Aug. 12, 1965 Nov. 22, 1965 Dec. 4, 1966 Mar. 8, 1968 Feb. 25, 1969 Nov. 7, 1969 Dec. 21, 1970	3.97 8.4 8.12 8.36 7.92 3.67 8.22 9.38 4.73 2.30	b10 1,530 250 1,400 190 46 500 1,690 84 4
		11-0703.8.		St. Johns Creek near Sage, Calif.				
517	Lat 33°37'23", long 116°56'07", in N¼ sec. 25, T. 6 S., R. 1 W., at culvert on State Highway 79, 2.8 miles north of Sage.	.37	Nov. 1961-	Crest-stage gage, Nov. 17, 1961-	1962 1963 1965 1966 1967 1968 1969 1970 1971	Feb. 10, 1963 Apr. 9, 1965 Nov. 22, 1965 Dec. 6, 1966 Nov. 21, 1967 Feb. 25, 1969 Mar. 1, 1970	3.32 4.20 3.51 3.13 4.08 3.71	No flow 2.0 b.1 12 3.3 .2 10 5 No flow
		11-0713.		Temescal Creek tributary near Elsinore, Calif.				
518	Lat 33°43'30", long 117°22'09", in NE¼ sec. 23, T. 5 S., R. 5 W., at culvert on State Highway 71, 4.7 miles northwest of Elsinore.	.36	Dec. 1961-	Crest-stage gage, Dec. 15, 1961-	1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 20, 1962 Nov. 22, 1965 Nov. 21, 1967 Jan. 25, 1969 Dec. 21, 1970	2.54 3.58 4.11 2.40	b.1 No flow No flow No flow 23 No flow b.2 33 No flow 1
		11-0353.		Wigham Creek near Lake Henshaw, Calif.				
519	Lat 33°15'30", long 116°47'55", in SE¼SW¼ sec. 32, T. 10 S., R. 2 E., at culvert on State Highway 76, 0.6 mile north of San Luis Rey Camp and 2.5 miles northwest of dam at Lake Henshaw.	1.40	Jan. 1965-	Crest-stage gage, Jan. 6, 1965-	1965 1966 1967 1968 1969 1970 1971	Apr. 9, 1965 Nov. 22, 1965 Dec. 6, 1966 Dec. 18, 1967 Feb. 25, 1969 Apr. 27, 1970 Apr. 18, 1971	4.33 5.13 7.84 3.80 7.50 4.82 3.92	10 30 161 2.6 142 21 4

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																										
					Water year	Date	Gage height (ft)	Discharge (cfs)																																							
9-4240.5. Chemehuevi Wash tributary near Needles, Calif.																																															
526	Lat 34°30'30", long 114°36'10", at culvert on county road 22 miles south of Needles.	2.04	Dec. 1959-	Crest-stage gage, Dec. 15, 1959-	1960	Dec. 25, 1959	6.18	60																																							
					1961	Sept. 13, 1961	6.47	69																																							
					1962	Sept. 26, 1962	8.51	114																																							
					1963			No flow																																							
					1964			No flow																																							
					1965			No flow																																							
					1966	Dec. 29, 1965	6.73	74																																							
					1967	Sept. 25, 1967	5.47	46																																							
					1968			No flow																																							
					1969			No flow																																							
					1970	Aug. 14, 1970	8.33	110																																							
1971	Aug. 19, 1971	3.59	9.4																																												
9-4285.3. Arch Creek near Earp, Calif.																																															
527	Lat 34°09'55", long 114°22'20", in NE¼ sec. 20, T. 1 N., R. 25 E., at culvert on county road 4.0 miles west of Earp.	1.52	Jan. 1960-	Crest-stage gage, Jan. 14, 1960-	1959	Sept. 13, 1959	13.24	674																																							
					1960	Dec. 25, 1959	6.45	196																																							
					1961	Aug. 18, 1961	3.99	5.6																																							
					1962			No flow																																							
					1963	Sept. 17, 1963	3.82	2.0																																							
					1964			No flow																																							
					1965	Mar. 11, 1965	5.10	68																																							
					1966	Dec. 29, 1965	4.55	30																																							
					1967	Nov. 7, 1966	4.00	5.8																																							
					1968	July 6, 1968	8.38	379																																							
					1969	July 17, 1969	4.62	34																																							
					1970	Mar. 1, 1970	8.22	366																																							
					1971	Aug. 19, 1971	21.74	z7,160																																							
					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0</td> <td>January</td> <td>0</td> <td>April</td> <td>0</td> <td>July</td> <td>-</td> </tr> <tr> <td>November</td> <td>.1</td> <td>February</td> <td>0</td> <td>May</td> <td>0</td> <td>August</td> <td>-</td> </tr> <tr> <td>December</td> <td>.1</td> <td>March</td> <td>0</td> <td>June</td> <td>0</td> <td>September</td> <td>-</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>-</td> </tr> </tbody> </table>									Monthly and annual precipitation, in inches							October	0	January	0	April	0	July	-	November	.1	February	0	May	0	August	-	December	.1	March	0	June	0	September	-	Total for water year, October 1, 1970-September 30, 1971		
Monthly and annual precipitation, in inches																																															
October	0	January	0	April	0	July	-																																								
November	.1	February	0	May	0	August	-																																								
December	.1	March	0	June	0	September	-																																								
Total for water year, October 1, 1970-September 30, 1971							-																																								
9-4285.6. Colorado River tributary No. 2 near Vidal, Calif.																																															
528	Lat 33°59'11", long 114°29'45", in SW¼NE¼ sec. 19, T. 2 S., R. 24 E., at culvert on U.S. Highway 95, 9.3 miles south of Vidal.	.42	Dec. 1959-	Crest-stage gage, Dec. 15, 1959-	1960	Sept. 1, 1960	4.92	b60																																							
					1961			No flow																																							
					1962			No flow																																							
					1963	Aug. 15, 1963	5.72	118																																							
					1964			No flow																																							
					1965	Mar. 11, 1965	3.80	b2																																							
					1966			No flow																																							
					1967	Sept. 2, 1967	5.56	102																																							
					1968	July 6, 1968		b5																																							
					1969	Sept. 6, 1969	5.00	67																																							
					1970			No flow																																							
1971	Aug. 11, 1971	9.94	400																																												
9-4285.7. Colorado River tributary near Vidal, Calif.																																															
529	Lat 33°58'47", long 114°30'23", in SW¼SW¼ sec. 19, T. 2 S., R. 24 E., at culvert on U.S. Highway 95, 10 miles south of Vidal.	1.12	Dec. 1959-	Crest-stage gage, Dec. 15, 1959-	1960	Sept. 1, 1960	8.83	b130																																							
					1961	Aug. 18, 1961	3.93	b.2																																							
					1962			No flow																																							
					1963	Aug. 15, 1963	8.97	189																																							
					1964			No flow																																							
					1965	Mar. 11, 1965	7.10	b7																																							
					1966			No flow																																							
					1967	Sept. 2, 1967	12.18	312																																							
					1968	July 6, 1968	5.49	51																																							
					1969	Sept. 6, 1969	4.54	16																																							
					1970			No flow																																							
1971	Aug. 11, 1971	12.55	460																																												

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
	9-4292.4.	Ogilby Wash near Palo Verde, Calif.						
530	Lat 33°20'20", long 114°46'45", in sec. 5, T. 10 S., R. 21 E. (unsurveyed), at culvert on county road 7 miles southwest of Palo Verde.	0.042	Dec. 1959-	Crest-stage gage, Dec. 16, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Dec. 25, 1959 Sept. 13, 1961 Sept. 17, 1963 Mar. 11, 1965 Dec. 29, 1965 Aug. 16, 1967 Nov. 21, 1967 Oct. 4, 1968 Aug. 26, 1970 Aug. 28, 1971	4.14 4.54 3.25 3.52 3.03 6.60 3.14 3.88 5.53 3.20	12 18 No flow 2.9 No flow 5 1.6 39 2 8.8 30 2.5
	9-4292.5.	Ogilby Wash No. 2 near Palo Verde, Calif.						
531	Lat 33°20'25", long 114°46'45", in sec. 5, T. 10 S., R. 21 E. (unsurveyed), at culvert on county road 7 miles southwest of Palo Verde.	.018	Dec. 1959-	Crest-stage gage, Dec. 16, 1959-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Dec. 25, 1959 Sept. 13, 1961 Sept. 15, 1963 Mar. 11, 1965 Dec. 29, 1965 Aug. 16, 1967 Nov. 21, 1967 Oct. 4, 1968 Aug. 26, 1970 Aug. 28, 1971	2.56 3.41 2.06 2.47 2.01 3.98 1.48 2.93 3.55 2.70	11 23 No flow 6.4 No flow 10 5.6 32 .4 16 25 13
	10-2532.5.	Granite Wash near Rice, Calif.						
532	Lat 34°02'50", long 115°13'05", in sec. 32, T. 1 S., R. 17 E. (unsurveyed), at culvert on county road 21½ miles west of Rice.	.008	Jan. 1960-	Crest-stage gage, Jan. 4, 1960-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 12, 1960 Nov. 5, 1960 Sept. 17, 1963 July 22, 1966 Oct. 10, 1966 July 6, 1968 July 18, 1969 Aug. 14, 1970 Aug. 19, 1971	3.00 2.76 3.22 3.97 3.74 - 3.38 4.58 3.39	b1 b.2 No flow b4 No flow No flow 14 13 b.2 8.4 22 7
	10-2532.55.	Granite Wash No. 2 near Rice, Calif.						
533	Lat 34°02'55", long 115°13'00", in sec. 32, T. 1 S., R. 17 E. (unsurveyed), at culvert on county road 21½ miles west of Rice.	.015	Jan. 1960-	Crest-stage gage, Jan. 4, 1960-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Jan. 12, 1960 Sept. 17, 1963 July 22, 1966 Oct. 10, 1966 July 6, 1968 July 18, 1969 Aug. 14, 1970 Aug. 19, 1971	2.91 3.06 4.16 4.16 3.30 3.38 4.71 3.69	b.5 No flow No flow b.8 No flow No flow 18 18 2 2.6 27 6.2

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
		10-2537.	Palen Dry Lake tributary near Desert Center, Calif.					
534	Lat 33°41'45", long 115°28'45", at culvert on U.S. Highway 60/70, 4.7 miles southwest of Desert Center.	0.043	Jan. 1960-	Crest-stage gage, Jan. 4, 1960-	1960	Sept. 4-6, 1960	4.50	38
					1961	Nov. 5, 1960	3.86	24
					1962			No flow
					1963	Aug. 15, 1963	4.25	31
					1964	Aug. 2, 1964	2.58	4
					1965	Aug. 16, 1965	5.52	52
					1966	Nov. 22, 1965	2.12	b.02
					1967	Aug. 30, 1967		b10
					1968			No flow
					1969	Sept. 6, 1969	3.17	b3
					1970	Aug. 26, 1970	3.47	41
					1971	Aug. 27, 1971	3.52	45
		10-2537.5.	Monument Wash near Desert Center, Calif.					
535	Lat 33°42'30", long 115°21'50", at culvert on U.S. Highway 60/70, 2.1 miles east of Desert Center.	4.29	Jan. 1960-	Crest-stage gage, Jan. 4, 1960-	1960	July 22, 1960	4.75	77
					1961	July 24, 1961	3.02	27
					1962	Sept. 26, 1962	2.04	6.9
					1963	Sept. 17, 1963	3.00	27
					1964	Aug. 2, 1964	2.42	14
					1965	Aug. 16, 1965	5.10	89
					1966	Dec. 29, 1965		b.02
					1967	Sept. 5, 1967		b100
					1968			No flow
					1969	Sept. 6, 1969	4.88	b6
					1970	Aug. 26, 1970	4.63	b2
					1971	Aug. 27, 1971	5.32	40
		10-2538.	Coxcomb Wash near Desert Center, Calif.					
536	Lat 33°48'25", long 115°17'10", in NW¼SE¼ sec. 22, T. 4 S., R. 16 E., at culvert on County road 9½ miles northeast of Desert Center.	.035	Jan. 1960-	Crest-stage gage, Jan. 4, 1960-	1960	Mar. 24, 1960	2.88	12
					1961	Nov. 5, 1960	2.23	5.6
					1962			No flow
					1963	Aug. 15, 1963	2.93	12
					1964	Oct. 18, 1963	2.46	7.7
					1965	July 17, 1965	2.18	5.2
					1966			No flow
					1967	Sept. 3, 1967	2.95	12
					1968			No flow
					1969	Sept. 6, 1969	6.47	75
					1970	Mar. 1, 1970	2.48	8.3
					1971	Aug. 11, 1971	2.58	9.2
		10-2540.2.	Betz Wash near Salton Beach, Calif.					
537	Lat 33°29'53", long 115°54'16", in NE¼NE¼ sec. 11, T. 8 S., R. 10 E., at culvert on Southern Pacific Railroad 2.3 miles northwest of Salton Beach.	5.95	Dec. 1959-	Crest-stage gage, Dec. 18, 1959-	1960			No flow
					1961			No flow
					1962			No flow
					1963			No flow
					1964	Oct. 18, 1963	3.29	79
					1965	Apr. 10, 1965		b.2
					1966	Dec. 29, 1965	4.15	133
					1967	Jan. 24, 1967		b.1
					1968	June 7, 1968	-	b.1
					1969	Oct. 4, 1968	2.71	62.0
					1970	Mar. 1, 1970		b1
					1971			No flow

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data			
					Water year	Date	Gage height (ft)	Discharge (cfs)
10-2544.75. Glamis Wash at Glamis, Calif.								
538	Lat 32°59'53", long 115°04'10", at culvert on county road at Glamis.	0.60 approx.	Jan. 1960-	Crest-stage gage, Jan. 6, 1960-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Dec. 25, 1959 Sept. 13, 1961 Sept. 17, 1963 Apr. 3, 1965 Jan. 30, 1966 Oct. 4, 1966 Nov. 21, 1967 Sept. 15, 1969 Aug. 26, 1970	4.18 1.24 5.35 3.61 5.77 5.33 4.70 2.81 1.01	45 .8 No flow 67 No flow 35 86 66 55 21 1 No flow
10-2552. Myer Creek tributary near Jacumba, Calif.								
539	Lat 32°40'25", long 116°04'50", in NE¼SE¼ sec. 20, T. 17 S., R. 9 E., at culvert on U.S. Highway 80, 7-3/4 miles northeast of Jacumba.	.11	Jan. 1960-	Crest-stage gage, Jan. 6, 1960- Water-stage recorder, Feb. 16, 1966- June 30, 1971.	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Sept. 1, 1960 Aug. 5, 1961 Apr. 17, 1963 Oct. 18, 1963 Aug. 12, 1965 Dec. 29, 1965 July 28, 1968 Oct. 4, 1968 Aug. 16, 1970	10.88 10.95 10.82 12.97 11.24 - 11.29 12.85	4.9 b3 No flow b.1 b.1 41 .8 No flow b.1 b.3 35 No flow
10-2552.3. Myer Creek tributary No. 2 near Coyote Wells, Calif.								
540	Lat 32°43'15", long 116°02'45", in SE¼NE¼ sec. 3, T. 17 S., R. 9 E., at culvert on U.S. Highway 80, 5 miles southwest of Coyote Wells.	.082	Jan. 1960-	Crest-stage gage, Jan. 6, 1960-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Sept. 1, 1960 Oct. 18, 1963 Aug. 12, 1965 July 30, 1966 July 28, 1968 Mar. 1, 1970 Aug. 28, 1971	1.65 1.71 4.02 2.10 3.32 2.53 3.31	.9 No flow No flow No flow b1.0 21 3.8 No flow 15 No flow 7.7 15
10-2557.3. Pinyon Wash near Borrego, Calif.								
541	Lat 33°06'55", long 116°19'00", in SW¼ sec. 24, T. 12 S., R. 6 E., at slope-area site, 1.2 miles upstream from State Highway 78, 6.7 miles south of Borrego.	19.6	Jan. 1960-	Crest-stage gage, Jan. 7, 1960-	1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	Sept. 12, 1961 Sept. 18, 1963 Oct. 18, 1963 May 20, 1966 Oct. 4, 1966 Sept. 6, 1969 Mar. 16, 1970 Dec. 21, 1970	(m) (m) 77.69 77.88 77.48 78.26 78.43 (m)	No flow 19,200 No flow b2 545 No flow b10 b80 No flow b30 344 b17

See footnotes at end of table.

Site and map reference	Location	Drainage area (sq mi)	Period of record	Gage	Annual maximum data																																						
					Water year	Date	Gage height (ft)	Discharge (cfs)																																			
10-2558.2. Ysqui Pass Wash near Borrego, Calif.																																											
542	Lat 33°08'45", long 116°21'00", in SE¼ sec. 9, T. 12 S., R. 6 E., at culvert on county road 5.3 miles southwest of Borrego and 7.6 miles south of Borrego Springs.	0.041	Jsn. 1960-	Crest-stage gage, Jan. 7, 1960-	1960	Aug. 31, 1960	4.23	11																																			
					1961	Sept. 12, 1961	5.00	21																																			
					1962	Feb. 25, 1962	(m)	b.2																																			
					1963	Aug. 8, 1963	2.97	b.5																																			
					1964	Oct. 18, 1963	5.67	28																																			
					1965			No flow																																			
					1966	Nov. 15, 1965	2.84	2.4																																			
					1967	Dec. 6, 1966	3.19	2.7																																			
					1968	July 28, 1968	2.88	1.1																																			
					1969			No flow																																			
					1970	Aug. 16, 1970	6.77	38																																			
					1971	Aug. 28, 1971	3.44	5																																			
10-2558.25. Ysqui Pass Wash No. 2 near Borrego, Calif.																																											
543	Lat 33°09'05", long 116°20'55", in NE¼ sec. 9, T. 12 S., R. 6 E., at culvert on county road 5.0 miles southwest of Borrego.	.038	Jan. 1960-	Crest-stage gage, Jan. 7, 1960-	1960	Aug. 31, 1960	3.98	9.5																																			
					1961	Sept. 12, 1961	4.50	15																																			
					1962	Feb. 25, 1962	(m)	b.2																																			
					1963	Aug. 8, 1963	3.35	b2																																			
					1964	Oct. 18, 1963	5.46	20																																			
					1965			No flow																																			
					1966	Mar. 25, 1966	3.33	2.0																																			
					1967	Oct. 4, 1966	3.31	b.3																																			
					1968	July 28, 1968	3.36	2																																			
					1969	Feb. 25, 1969		b.1																																			
					1970	Aug. 16, 1970	7.00	25																																			
					1971	Aug. 28, 1971	3.65	4.4																																			
10-2595. Thermal Canyon tributary near Mecca, Calif.																																											
544	Lat 33°40'50", long 115°59'25", in SW¼NW¼ sec. 6, T. 6 S., R. 10 E., at culvert on U.S. Highway 60/70, 9.2 miles northeast of Mecca.	.18	Jan. 1960-	Crest-stage gage, Jan. 4, 1960-	1960			No flow																																			
					1961	Aug. 23, 1961	6.40	14																																			
					1962			No flow																																			
					1963	Sept. 17, 1963	(m)	b1																																			
					1964	Oct. 18, 1963	7.43	44																																			
					1965			No flow																																			
					1966	Dec. 29, 1965	7.04	2.4																																			
					1967	Aug. 16, 1967	9.08	128																																			
					1968	July 28, 1968	8.23	80																																			
					1969			No flow																																			
					1970			No flow																																			
					1971	Aug. 27, 1971	6.84	1																																			
10-2596. Cottonwood Wash near Cottonwood Spring, Calif.																																											
545	Lat 33°44'40", long 115°49'35", in SE¼SW¼ sec. 10, T. 5 S., R. 11 E., at culvert on county road 1.2 miles northwest of Cottonwood Spring.	.71	Jan. 1960-	Crest-stage gage, Jan. 11, 1960-	1960	Sept. 5, 1960		b1																																			
					1961			No flow																																			
					1962			No flow																																			
					1963	Sept. 17, 1963	3.30	b.2																																			
					1964	Oct. 17, 1963	3.80	b11																																			
					1965	Apr. 3, 1965	2.75	b.1																																			
					1966			No flow																																			
					1967	Oct. 3, 1966	3.77	34																																			
					1968	Mar. 8, 1968	2.67	2.6																																			
					1969	Oct. 3, 1968	3.39	13																																			
					1970	Aug. 26, 1970	2.95	1.4																																			
					1971	Aug. 27, 1971	3.50	22																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Monthly and annual precipitation, in inches</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>0.</td> <td>January</td> <td>0.3</td> <td>April</td> <td>0</td> <td>July</td> <td>0.1</td> </tr> <tr> <td>November</td> <td>.4</td> <td>February</td> <td>.2</td> <td>May</td> <td>0</td> <td>August</td> <td>.9</td> </tr> <tr> <td>December</td> <td>.3</td> <td>March</td> <td>0</td> <td>June</td> <td>0</td> <td>September</td> <td>.1</td> </tr> <tr> <td colspan="7">Total for water year, October 1, 1970-September 30, 1971</td> <td>2.3</td> </tr> </tbody> </table>					Monthly and annual precipitation, in inches							October	0.	January	0.3	April	0	July	0.1	November	.4	February	.2	May	0	August	.9	December	.3	March	0	June	0	September	.1	Total for water year, October 1, 1970-September 30, 1971							2.3
Monthly and annual precipitation, in inches																																											
October	0.	January	0.3	April	0	July	0.1																																				
November	.4	February	.2	May	0	August	.9																																				
December	.3	March	0	June	0	September	.1																																				
Total for water year, October 1, 1970-September 30, 1971							2.3																																				

See footnotes at end of table.

- a. Revised.
- b. Estimated.
- c. To be determined.
- d. Unknown.
- e. Affected by backwater.
- f. Current-meter measurement.
- g. New local datum.
- h. New site and datum.
- i. Tailwater gage.
- j. Prior to installation of gage; peak discharge computed from high-water marks along highway embankment at culvert.
- k. Previous site and datum.
- m. Not determined.
- n. Peak discharge possibly affected by road fill.
- p. Road and culvert washed out.
- q. Greater peak discharge may have occurred during the period October 1, 1962, to September 19, 1963.
- r. Peak discharge did not reach base of gage.
- s. Gage height unreliable.
- t. Maximum daily discharge.
- u. Discharge, 480 cfs January 31, 1963, diverted into pond upstream from culvert.
- v. Datum change caused by extending culvert upstream.
- w. Prior to installation of gage; peak discharge computed from slope-area measurement.
- x. Channel and rating conditions at gage modified by highway reconstruction.
- y. Gage relocated; discharge adjusted to present site.
- z. At site $\frac{1}{4}$ mile downstream; caused by failure of highway embankment.

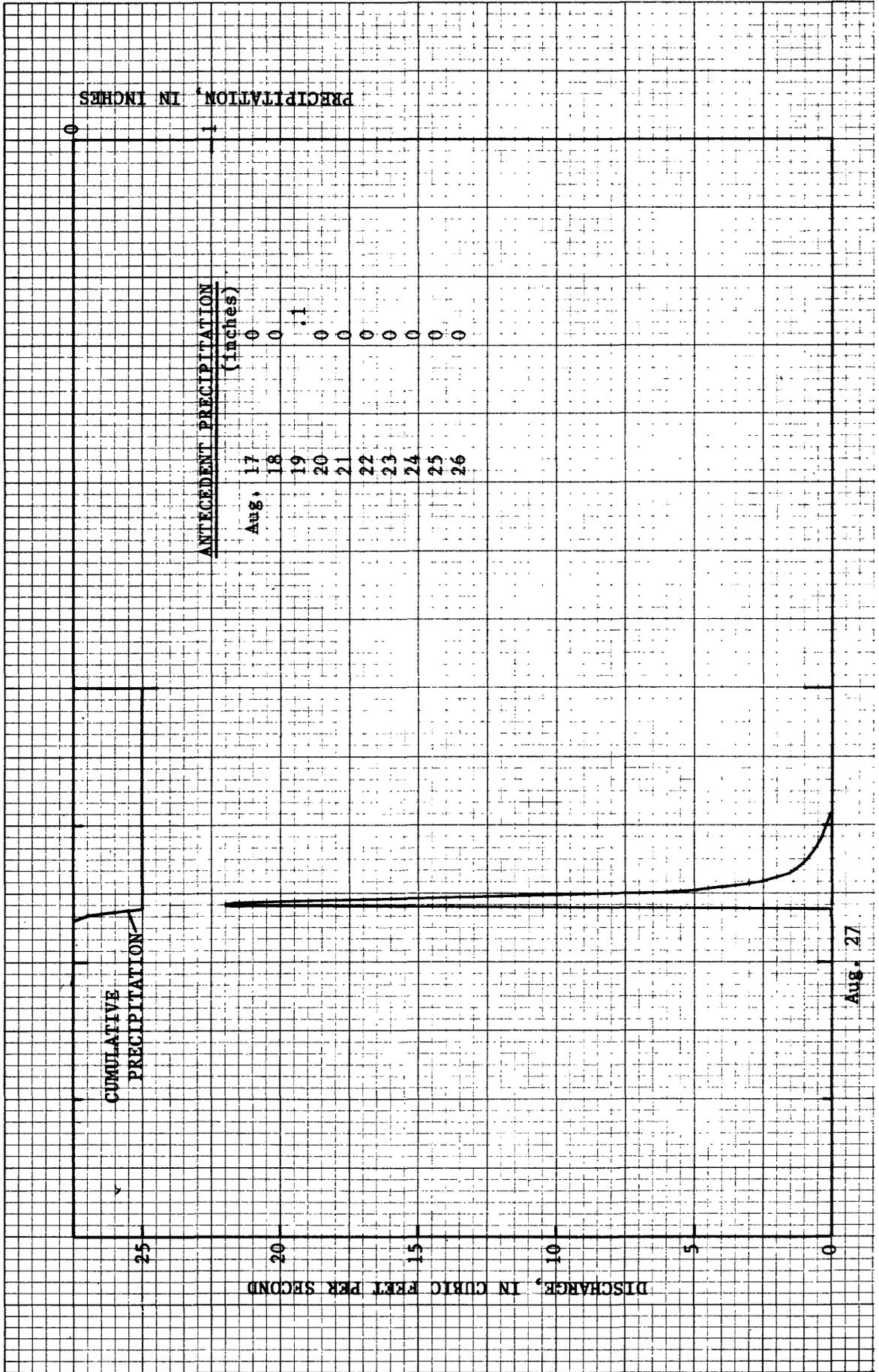


FIGURE 32.--Storm hydrograph and precipitation for Cottonwood Wash near Cottonwood Spring, August 27, 1971.

SUPPLEMENTAL INFORMATION

Gaging stations that have drainage areas of less than about 20 square miles are listed in table 1 as an aid to anyone interested in surface-water data from small drainage areas. Both active and inactive stations are included in the list, but stations on streams affected appreciably by regulation or diversion have been excluded.

Complete surface-water data for these stations are available in the annual water-supply papers and basic-data reports published by the Geological Survey. In addition, two compilation reports, covering records through 1960, contain station data, including the momentary maximum discharge for each water year, monthly and annual mean discharge, and monthly and annual runoff.

The compilation of surface-water records through September 1950 for the listed stations is in Water-Supply Papers 1314 (Part 10) and 1315-A and B (Part 11); records for the period October 1, 1950, to September 30, 1960, are in Water-Supply Papers 1734 (Part 10) and 1735 (Part 11); records for the period October 1, 1960, to September 30, 1965, are in Water-Supply Papers 1927 (Part 10) and 1928 through 1931 (Part 11). Data collected subsequent to September 30, 1965, are available in the annual basic-data reports (through 1970) and the files of the Geological Survey.

Summaries of peak stages and discharges for the more significant floods at most of these stations are listed in the following water-supply papers in the series, Magnitude and Frequency of Floods in the United States; Water-Supply Paper 1684, Part 10, The Great Basin, through September 30, 1963; and Water-Supply Papers 1685 and 1686, Part 11, Pacific Slope Basins in California, through September 30, 1965.

The stations are grouped by hydrologic regions. The station numbers shown for each site are those assigned as part of the Geological Survey's nationwide numbering system. The first two digits of the number indicate the water-supply-paper part number; the other digits are assigned in downstream order with the numbers becoming larger in the downstream direction. The years in the "Records available" column of table 1 are the water years for which the records are available.

TABLE 1.--Gaging stations having less than about 20 square miles drainage area

Station identification number	Station name	Drainage area (sq mi)	Records available
<u>Region I</u>			
11-4800	Jacoby Creek near Freshwater, Calif.	² 6.05	1955-
<u>Region II</u>			
11-3720.5	Churn Creek near Redding, Calif.	² 9.35	1961-66
11-3720.6	Churn Creek below Newtown Creek, near Redding, Calif.	11.9	1965-
11-3732	Oak Run Creek near Oak Run, Calif.	11.0	1958-66
11-5183	Sugar Creek near Callahan, Calif.	12.0	1958-60
11-5190	Shackleford Creek near Mugginsville, Calif.	17.7	1957-60
14-3685	Powell Creek near Williams, Oreg.	¹ 8.6	1947-58
<u>Region III</u>			
10-3592.5	Pine Creek near Westwood, Calif.	24.8	1951-61
10-3602.3	Eagle Creek at Eagleville, Calif.	6.36	1961-64; 1965-
11-4895	Antelope Creek near Tennant, Calif.	18.6	1953-
11-5135	Beaver Creek at Pinehurst, Oreg.	12.9	1944-48

See footnotes at end of table.

TABLE 1.--Gaging stations having less than about 20 square miles drainage area--Continued

Station identi- fication number	Station name	Drainage area (sq mi)	Records available
<u>Region IV</u>			
11-4485	Adobe Creek near Kelseyville, Calif.	6.36	1955-
11-4490	Highland Creek near Kelseyville, Calif.	² 12.6	1955-62
11-4493.5	Burns Valley Creek near Clearlake Highlands, Calif.	4.37	1963-69
11-4494.5	Copsey Creek near Lower Lake, Calif.	13.2	1961-68
11-4494.6	Seigler Creek at Lower Lake, Calif.	12.5	1966-
11-4735.3	Mill Creek below Alder Creek, near Covelo, Calif.	17.1	1962-65
11-4736	Short Creek near Covelo, Calif.	15.2	1959-69
11-4755.6	Elder Creek near Branscomb, Calif.	6.50	1968-
<u>Region V</u>			
11-3090	Cosgrove Creek near Valley Springs, Calif.	21.1	1930-69
11-3290	Goose Creek near Elliott, Calif.	8.44	1928-33
<u>Region VI</u>			
11-2571	Miami Creek near Oakhurst, Calif.	10.6	1961-
11-2693	Maxwell Creek at Coulterville, Calif.	17.0	1960-
11-2845	Big Creek near Groveland, Calif.	25.0	1931-33; 1959-
11-2847	North Fork Tuolumne River near Long Barn, Calif.	23.1	1962-
11-3070	Esperanza Creek near Mokelumne Hill, Calif.	16.6	1951-59; 1961-
11-3085	Murray Creek near San Andreas, Calif.	23.6	1950-59; 1961-
11-3150	Cole Creek near Salt Springs Dam, Calif.	20.4	1928-42; 1944-
11-3168	Forest Creek near Wilseyville, Calif.	20.8	1961-
11-3325	Sly Park Creek near Pollack Pines, Calif.	18.2	1946-55
11-3946.2	Fall River near Feather Falls, Calif.	9.89	1964-
11-3953	Lost Creek above Sly Creek Reservoir, Calif.	14.1	1961-70
11-3964	Sucker Run near Forbestown, Calif.	18.7	1966-
11-4093	Oregon Creek at Camptonville, Calif.	23.0	1967-
11-4120	Rock Creek at Goodyears Bar, Calif.	8.98	1911-33
11-4125	Goodyears Creek at Goodyears Bar, Calif.	12.9	1914-33
11-4171	Poorman Creek near Washington, Calif.	23.1	1961-
11-4200	Dry Creek near Brownsville, Calif.	20.4	1948-60
11-4264	North Shirttail Creek near Dutch Flat, Calif.	9.10	1957-
11-4318	Pilot Creek above Stumpy Meadows Reservoir, Calif.	11.7	1961-
11-4325	Pilot Creek near Georgetown, Calif.	15.1	1946-60
11-4331	Long Canyon Creek near French Meadows, Calif.	18.0	1961-65
11-4334	Canyon Creek near Georgetown, Calif.	12.5	1966-
11-4400	Alder Creek near White Hall, Calif.	22.1	1922-
11-4405	Plum Creek near Riverton, Calif.	7.32	1923-39
<u>Region VII</u>			
10-3366.6	Blackwood Creek near Tahoe City, Calif.	11.2	1961-
11-2831	Lily Creek near Pinecrest, Calif.	11.9	1964-
11-2832	Bell Creek near Pinecrest, Calif.	9.11	1964-
11-3948	South Fork Feather River above Little Grass Valley Reservoir, Calif.	8.09	1961-
11-4040	Grizzly Creek near Storrie, Calif.	5.20	1930-44
11-4104	Haypress Creek near Sierra City, Calif.	18.2	1961-66
11-4139	Upper Castle Creek at Soda Springs, Calif.	3.96	1958-63
11-4261.1	Onion Creek tributary No. 3 near Soda Springs, Calif.	.65	1959-67
11-4261.2	Onion Creek tributary No. 5A near Soda Springs, Calif.	.39	1959-66
11-4261.3	Onion Creek tributary No. 2 near Soda Springs, Calif.	.48	1958-67
11-4261.4	Onion Creek tributary No. 1 near Soda Springs, Calif.	.19	1958-67
11-4261.5	Onion Creek near Soda Springs, Calif.	3.58	1960-
11-4261.6	Onion Creek tributary No. 7 near Soda Springs, Calif.	.80	1959-64
11-4277	Duncan Creek near French Meadows, Calif.	9.94	1961-

See footnote at end of table.

TABLE 1.--Gaging stations having less than about 20 square miles drainage area--Continued

Station identi- fication number	Station name	Drainage area (sq mi)	Records available
<u>Region VIII</u>			
10-3399	Alder Creek near Truckee, Calif.	7.47	1959-69
10-3435	Sagehen Creek near Truckee, Calif.	10.8	1954-
<u>Region IX</u>			
11-4601	Arroyo Corte Madera del Presidio at Mill Valley, Calif.	4.69	1966-
11-4601.6	Morses Creek at Bolinas, Calif.	.70	1967-69
11-4601.7	Pine Creek at Bolinas, Calif.	7.83	1967-70
11-4609.2	Salmon Creek at Bodega, Calif.	15.7	1962-
11-4680.1	Albion River near Comptche, Calif.	14.4	1962-69
11-4685.4	Pudding Creek near Fort Bragg, Calif.	12.5	1964-
<u>Region X</u>			
11-1814	Wildcat Creek at Richmond, Calif.	8.69	1964-
11-1820.3	Rheem Creek at San Pablo, Calif.	1.09	1961-
11-1821	Pinole Creek at Pinole, Calif.	10.0	1939-
11-1824	Arroyo del Hambre at Martinez, Calif.	15.1	1964-
11-1825	San Ramon Creek at San Ramon, Calif.	5.89	1953-
11-1850	Grayson Creek near Hookston, Calif.	² 1.96	1955-60
11-4532	Dry Creek near Middletown, Calif.	8.35	1960-70
11-4570	Dry Creek near Napa, Calif.	17.4	1951-66
11-4582	Redwood Creek near Napa, Calif.	² 9.79	1959-
11-4609.4	Russian River near Redwood Valley, Calif.	14.1	1964-68
11-4639.4	Franz Creek near Kellogg, Calif.	15.7	1956; 1958-62; 1964-68
11-4658	Santa Rosa Creek near Santa Rosa, Calif.	12.5	1960-70
<u>Region XI</u>			
<u>Region XII</u>			
11-1433	Arroyo Del Rey at Del Rey Oaks, Calif.	14.3	1967-
11-1591.5	Corralitos Creek near Corralitos, Calif.	10.6	1958-
11-1597	Aptos Creek at Aptos, Calif.	12.2	1959-
11-1598	West Branch Soquel Creek near Soquel, Calif.	12.2	1959-
11-1600.2	San Lorenzo River near Boulder Creek, Calif.	² 6.17	1969-
11-1603	Zayante Creek at Zayante, Calif.	11.1	1958-
11-1615	Branciforte Creek at Santa Cruz, Calif.	17.3	1941-43; 1953-68
11-1625.4	Butano Creek near Pescadero, Calif.	18.3	1959-
11-1626	Purisima Creek near Half Moon Bay, Calif.	4.83	1959-69
11-1627.2	Colma Creek at South San Francisco, Calif.	² 10.8	1961-
11-1627.22	Spruce Branch at South San Francisco, Calif.	.70	1965-69
11-1628	Redwood Creek at Redwood City, Calif.	1.82	1960-
11-1632	Los Trancos Creek tributary near Stanford University, Calif.	² .42	1959-66
<u>Region XIII</u>			
11-1529	Cedar Creek near Bell Station, Calif.	12.8	1962-
11-1539	Uvas Creek above Uvas Reservoir, near Morgan Hill, Calif.	21.0	1962-
11-1541	Bodfish Creek near Gilroy, Calif.	7.40	1960-
11-1660	Matadero Creek at Palo Alto, Calif.	7.24	1953-
11-1676.6	Ross Creek at San Jose, Calif.	5.72	1962-70
11-1805	Dry Creek at Union City, Calif.	9.41	1917-19; 1960-
<u>Region XIV</u>			

See footnote at end of table.

TABLE 1.--Gaging stations having less than about 20 square miles drainage area--Continued

Station identification number	Station name	Drainage area (sq mi)	Records available
<u>Region XV</u>			
11-1853	Golden Trout Creek near Cartago, Calif.	23.6	1956-67; 1969-
11-1863.4	Salmon Creek tributary B near Fairview, Calif.	.46	1963-69
11-1863.6	Salmon Creek tributary C near Fairview, Calif.	² .30	1963-69
11-1863.8	Salmon Creek tributary E near Fairview, Calif.	² .23	1963-69
11-2030	Bear Creek near Springville, Calif.	² 13.5	1912-16
11-2142	Fleming Creek near Blackcap Mountain, Calif.	15.0	1957-65
11-2158	Teakettle Creek at site No. 3 near Patterson Mountain, Calif.	.86	1958-69
11-2158.1	Teakettle Creek tributary No. 7 near Patterson Mountain, Calif.	² .11	1958-63
11-2158.2	Teakettle Creek tributary No. 2 near Patterson Mountain, Calif.	.85	1958-69
11-2158.3	Teakettle Creek tributary No. 2A near Patterson Mountain, Calif.	.27	1958-69
11-2158.4	Teakettle Creek tributary No. 1 near Patterson Mountain, Calif.	.77	1958-69
11-2168	Rock Creek at Dinkey Creek, Calif.	7.60	1961-
11-2175	Dear Creek below East Fork, Calif.	19.0	1923-35
11-2325	Jackass Creek near Bass Lake, Calif.	12.1	1922-28; 1952-68
11-2375	Pitman Creek below Tamarack Creek, Calif.	22.9	1927-
11-2424	North Fork Willow Creek near Sugar Pine, Calif.	16.9	1965-
11-2589.2	Middle Fork Chowchilla River near Nipinnawasee, Calif.	13.6	1959-67
11-2602	Bear Creek near Catheys Valley, Calif.	24.9	1958-69
<u>Region XVI</u>			
10-2506	Wildrose Creek near Wildrose Station, Calif.	23.7	1961-
10-2648.78	Ninemile Creek near Brown, Calif.	10.4	1961-
10-2818	Independence Creek below Pinyon Creek, near Independence, Calif.	² 18.1	1924-
10-2824.8	Mazourka Creek near Independence, Calif.	15.6	1961-
10-3045	Silver Creek below Pennsylvania Creek, near Markleeville, Calif.	19.6	1947-
10-3060	Hot Springs Creek near Markleeville, Calif.	14.3	1946-57
<u>Region XVII</u>			
11-0950	Fox Creek near Colby Ranch, Calif.	² 9.22	1932-38
11-0960	Haines Creek near Tujunga, Calif.	1.26	1917-67
11-0965	Little Tujunga Creek near San Fernando, Calif.	21.1	1929-
11-1105	Hopper Creek near Piru, Calif.	23.6	1931-32; 1934-36; 1938-
11-1160	North Fork Matilija Creek at Matilija Hot Springs, Calif.	15.6	1934-
11-1176	Coyote Creek near Oak View, Calif.	13.2	1959-
11-1178	Santa Ana Creek near Oak View, Calif.	9.11	1959-
11-1195	Carpinteria Creek near Carpinteria, Calif.	13.1	1942-
11-1200	Atascadero Creek near Goleta, Calif.	18.8	1942-
11-1205	San Jose Creek near Goleta, Calif.	5.51	1942-
11-1205.5	Gaviota Creek near Gaviota, Calif.	18.8	1967-
11-1206	Jalama Creek near Lompoc, Calif.	20.5	1966-
11-1207	Canada Honda Creek near Lompoc, Calif.	3.09	1960-62
11-1208	Canada Honda Creek near Point Arguello, Calif.	² 8.47	1960-62
11-1250	Cachuma Creek near Santa Ynez, Calif.	23.8	1951-62
11-1275	Zanja Cota near Santa Ynez, Calif.	² 13.8	1955-61
11-1284	Alisal Creek near Solvang, Calif.	² 12.3	1955-
11-1393.5	Foxen Creek near Sisquoc, Calif.	16.8	1965-
11-1411.5	Arroyo Grande above Phoenix Creek, near Arroyo Grande, Calif.	² 13.5	1967-

See footnotes at end of table.

TABLE 1.--Gaging stations having less than about 20 square miles drainage area--Continued

Station identification number	Station name	Drainage area (sq mi)	Records available
<u>Region XVII--Continued</u>			
11-1411.6	Wittenberg Creek near Arroyo Grande, Calif.	² 3.11	1967-
11-1412.8	Lopez Creek near Arroyo Grande, Calif.	² 21.6	1967-
11-1414	Tar Spring Creek near Arroyo Grande, Calif.	³ 18.2	1967-
11-1416	Los Berros Creek near Nipomo, Calif.	15.0	1969-
11-1422	Santa Rosa Creek near Cambria, Calif.	12.5	1958-
11-1440	Toro Creek near Pozo, Calif.	9.56	1961-69
11-1470.4	Santa Rita Creek tributary near Templeton, Calif.	2.95	1968-
11-1470.7	Santa Rita Creek near Templeton, Calif.	18.2	1961-
<u>Region XVIII</u>			
10-2602	Pipes Creek near Yucca Valley, Calif.	15.1	1959-
10-2604	Cushenbury Creek near Lucerne Valley, Calif.	6.36	1958-
11-0558	City Creek near Highland, Calif.	19.6	1920-
11-0585	East Twin Creek near Arrowhead Springs, Calif.	8.80	1920-
11-0586	Waterman Canyon Creek near Arrowhead Springs, Calif.	4.65	1921-
11-0635	Lone Pine Creek near Keenbrook, Calif.	15.1	1920-38; 1950-
11-0636.8	Devil Canyon Creek near San Bernardino, Calif.	5.61	1914; 1920-
11-0670	Day Creek near Etiwanda, Calif.	² 4.56	1929-
11-0730	San Antonio Creek near Claremont, Calif.	16.5	1917-
11-0734.7	Cucamonga Creek near Upland, Calif.	10.1	1929-
11-0815	North Fork San Gabriel River at Camp Rincon, Calif.	² 18.6	1930-36
11-0840	Rogers Creek near Azusa, Calif.	6.64	1918-62
11-0845	Fish Creek near Duarte, Calif.	6.36	1918-
11-0865	Little Dalton Creek near Glendora, Calif.	2.72	1939-
11-0980	Arroyo Seco near Pasadena, Calif.	16.0	1911-
11-1000	Santa Anita Creek near Sierra Madre, Calif.	9.71	1917-
11-1005	Little Santa Anita Creek near Sierra Madre, Calif.	1.84	1917-62
11-1010	Eaton Creek near Pasadena, Calif.	6.47	1919-66
11-1040	Topanga Creek near Topanga Beach, Calif.	18.0	1930-38; 1940-
<u>Region XIX</u>			
10-2513.5	Horse Thief Creek near Tecopa, Calif.	3.06	1961-70
10-2525.5	Caruthers Creek near Ivanpah, Calif.	1.13	1963-
10-2536	Eagle Creek at Eagle Mountain, Calif.	² 7.74	1961-66
10-2635	Big Rock Creek near Valyermo, Calif.	22.9	1923-
10-2646	Oak Creek near Mojave, Calif.	15.8	1958-
<u>Region XX</u>			
11-0270	Guejito Creek near San Pasqual, Calif.	22.5	1947-
11-0475	Aliso Creek at El Toro, Calif.	² 7.91	1931-
11-0757.4	Carbon Creek near Yorba Linda, Calif.	² 20.1	1950-61
11-0758	Santiago Creek at Modjeska, Calif.	12.5	1961-
<u>Region XXI</u>			
10-2558.1	Borrego Palm Creek near Borrego Springs, Calif.	21.8	1951-
10-2565	Snow Creek near White Water, Calif.	10.8	1960-
10-2580	Tahquitz Creek near Palm Springs, Calif.	16.8	1948-
10-2590	Andreas Creek near Palm Springs, Calif.	8.61	1949-
11-0315	Agua Caliente Creek near Warner Springs, Calif.	19.0	1961-
11-0377	Pauma Creek near Pauma Valley, Calif.	11.0	1964-
11-0555	Plunge Creek near East Highlands, Calif.	16.9	1920-
11-0565	Little San Geronio Creek near Beaumont, Calif.	3.23	1949-

See footnotes at end of table.

TABLE 1.--Gaging stations having less than about 20 square miles drainage area--Continued

Station identifi- cation number	Station name	Drainage area (sq mi)	Records available
<u>Region XXII</u>			
10-2530.8	Sunflower Wash near Essex, Calif.	3.04	1963-70
10-2533.5	Fortynine Palms Creek near Twentynine Palms, Calif.	8.55	1963-
10-2535.4	Corn Springs Wash near Desert Center, Calif.	24.1	1963-
10-2578	Long Creek near Desert Hot Springs, Calif.	19.4	1963-

¹Approximate drainage area.

²Revised.

³Area at site used prior to May 20, 1969, 17.7 square miles.

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Agua Caliente Creek tributary near Warner Springs-----	120	Cayton Creek tributary near Dana-----	28
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Alameda Creek tributary No. 2 near Warm Springs-----	68	Chariot Creek near Julian-----	117
Alameda Creek tributary near Niles-----	69	Chemehuevi Wash tributary near Needles-----	123
Albion River tributary near Comptche-----	66	China Gulch at Gualala-----	65
Alder Creek near Potter Valley-----	34	China Spring Creek near Mountain Pass-----	109
Alec Canyon near Morgan Hill-----	82	Cholame Creek tributary near Cholame-----	85
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Antelope Creek near West Point-----	50	Coahuila Creek tributary at Anza-----	121
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Arroyo del Hambre near Martinez-----	69	Cold Creek tributary near Malibu Beach-----	107
Arroyo Valle tributary near Livermore-----	68	Colorado River tributary No. 2 near Vidal--	123
Aspen Creek near Westwood-----	30	Colorado River tributary near Vidal-----	123
Atwell Creek near Hammond-----	93	Corbin Creek near Elk Creek-----	42
		Cottontail Creek tributary near Cayucos---	104
Beacon Creek at Helendale-----	111	Cottonwood Creek near Sierraville-----	62
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Bear Creek tributary near Valley Springs---	43	Cottonwood Wash near Cottonwood Spring---	127
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Big Canyon Creek near Dublin-----	68	Curtis Creek tributary near Standard-----	49
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Big Lagoon tributary near Trinidad-----	7	Dan Rice Creek near Callahan-----	21
Big Sage Reservoir tributary near Alturas--	26	Darlingtonia Creek at Darlingtonia-----	8
Big Sandy Creek tributary near Tollhouse---	92	Deadman Creek near Big Pine-----	95
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Budd Creek near Tuolumne Meadows-----	55	Dow Creek near Susanville-----	30
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Butler Creek near Somes Bar-----	21	Dry Creek tributary near Hopland-----	71
Butte Creek tributary near Old Station-----	28	Dry Creek tributary near Roseville-----	47
		Dry Canyon tributary near Stauffer-----	102
Campbell Creek near Hoopa-----	8	Dry Lake tributary at Perez-----	28
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Gilmore Creek near Lodoga-----	44	Los Laureles Canyon tributary near Goleta--	101
Glamis Wash at Glamis-----	126	Lyons Creek tributary near Lakeport-----	34
Goforth Creek at Dos Rios-----	35	Lytile Creek tributary near Lytle Creek-----	106
Gold Run tributary near Nelson-----	45	Madeline Plains tributary near Ravendale---	24
Gourd Creek near Ludlow-----	109	Magnolia Creek near Auburn-----	51
Granite Creek at Tobin-----	58	Maple Creek near Blue Lake-----	6
Granite Wash No. 2 near Rice-----	124	Mareep Creek near Weitchpec-----	8
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Green Valley Creek near Corralitos-----	80	Mescal Creek tributary at Big Pines-----	105
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Hayfork Creek tributary near Hyampom-----	23	Mill Creek at Milford-----	60
Hayward Creek near La Grange-----	43	Mill Creek near Burnt Ranch-----	22
Highland Creek above Highland Creek Dam----	34	Mill Creek near Quincy-----	56
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Horse Creek near Clayton-----	74	Mill Creek tributary near Yucaipa-----	121
Horsethief Creek near Macdoel-----	30	Millberry Creek at Markleeville-----	98
Hot Creek tributary near Bridgeport-----	98	Mon Canyon Creek near Oildale-----	88
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