UNITED STATES DEPARTMENT OF THE INTERIOR
RAY LYMAN WILBUR, Secretary
GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

Water-Supply Paper 648

SURFACE WATER SUPPLY *of the* UNITED STATES

1927

PART VIII
WESTERN GULF OF MEXICO BASINS

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Prepared in cooperation with the State of
TEXAS

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SURFACE WATER SUPPLY OF WESTERN GULF OF MEXICO BASINS, 1927

AUTHORIZATION AND SCOPE OF WORK

This volume is one of a series of 14 reports presenting results of measurements of flow made on streams in the United States during the year ending September 30, 1927.

The data presented in these reports were collected by the United States Geological Survey under the following authority contained in the organic law (20 Stat. L., p. 394):

Provided, That this officer [the Director] shall have the direction of the Geological Survey and the classification of public lands and examination of the geological structure, mineral resources, and products of the national domain.

The work was begun in 1888 in connection with special studies relating to irrigation. Since the fiscal year ending June 30, 1895, successive appropriation bills passed by Congress have carried the following items:

For gaging the streams and determining the water supply of the United States, and for the investigation of underground currents and artesian wells, and for the preparation of reports upon the best methods of utilizing the water resources.

Annual appropriations for the fiscal years ending June 30, 1895–1928

1895	$12,500.00	1918	$175,000.00
1896	24,500.00	1919	148,244.10
1897–1899	50,000.00	1920	175,000.00
1900	70,000.00	1921–1923	180,000.00
1901–2	100,000.00	1924–1925	170,000.00
1903–1906	200,000.00	1926	165,000.00
1907	150,000.00	1927	151,000.00
1908–1910	100,000.00	1928	147,000.00
1911–1917	150,000.00		

In the execution of the work many private and State organizations have cooperated either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 9.

Measurements of stream flow have been made at about 5,330 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July, 1927, 1,750 gaging stations were being maintained by the Geological Survey and the cooperating organiza-

tions. Many miscellaneous discharge measurements are made at other points. In connection with this work data were also collected in regard to precipitation, evaporation, storage reservoirs, river profiles, and water power in many sections of the country and will be made available in water-supply papers from time to time.

DEFINITION OF TERMS

The volume of water flowing in a stream—the "run-off" or "discharge" —is expressed in various terms, each of which has become associated with a certain class of work. These terms may be divided into two groups—(1) those that represent a rate of flow, as second-feet, gallons per minute, miner's inches, and discharge in second-feet per square mile, and (2) those that represent the actual quantity of water, as run-off in inches, acre-feet, and millions of cubic feet. The principal terms used in this series of reports are second-feet, second-feet per square mile, and run-off in inches, acre-feet, and millions of cubic feet. They may be defined as follows:

"Second-feet" is an abbreviation for "cubic feet per second." A second-foot is the rate of discharge of water flowing in a channel of rectangular cross section 1 foot wide and 1 foot deep at an average velocity of 1 foot per second. It is generally used as a fundamental unit from which others are computed.

"Second-feet per square mile" is the average number of cubic feet of water flowing per second from each square mile of area drained on the assumption that the run-off is distributed uniformly both as regards time and area.

"Run-off in inches" is the depth to which an area would be covered if all the water flowing from it in a given period were uniformly distributed on the surface. It is used for comparing run-off with rainfall, which is usually expressed in inches.

An "acre-foot," equivalent to 43,560 cubic feet, is the quantity required to cover an acre to the depth of a foot. The term is commonly used in connection with storage for irrigation.

The following terms not in common use are here defined:

"Stage-discharge relation," an abbreviation for the term "relation of gage height to discharge."

"Control," a term used to designate the section or stretch of the channel or artificial structure below the gage which determines the stage-discharge relation at the gage.

EXPLANATION OF DATA

The data presented in this report cover the year beginning October 1, 1926, and ending September 30, 1927. At the beginning of January in most parts of the United States much of the precipitation in the preceding three months is stored in the form of snow or ice, or in ponds,

lakes, and swamps, or as underground water, and this stored water passes off in the streams during the spring break-up. At the end of September, on the other hand, the only stored water available for run-off is possibly a small quantity in the ground; therefore the run-off for the year beginning October 1 is practically all derived from precipitation within that year.

The base data collected at gaging stations consist of records of stage, measurements of discharge, and general information used to supplement the gage heights and discharge measurements in determining the daily flow. The records of stage are obtained either from direct readings on a staff gage or chain gage or from a water-stage recorder that gives a continuous record of the fluctuations. Measurements of discharge are made with a current meter by the general

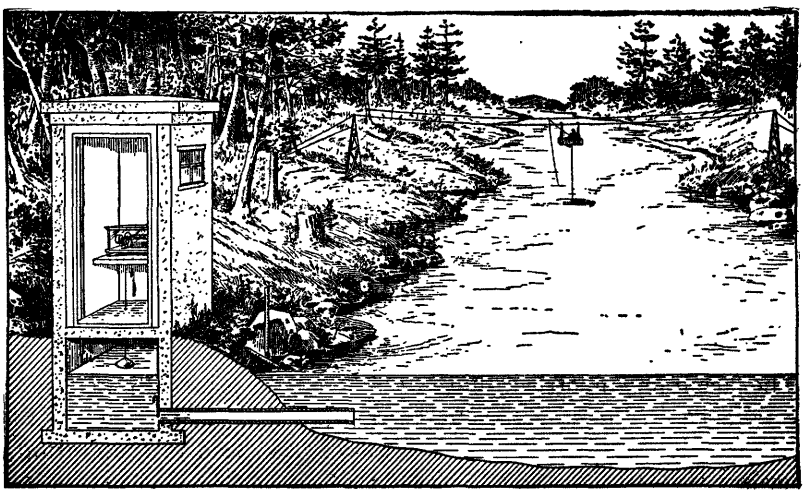

FIGURE 1.—Typical gaging station

methods outlined in standard textbooks on the measurement of river discharge. A typical gaging station, equipped with water-stage recorder and measuring cable and car, is shown in Figure 1.

From the discharge measurements rating tables are prepared that give the discharge for any stage. The application of the daily gage heights to these rating tables gives the discharge from which the monthly and yearly mean discharge is computed.

The data presented for each gaging station in the area covered by this report comprise a description of the station, a table showing the daily discharge of the stream, and a table of monthly and yearly discharge and run-off.

The description of the station gives, in addition to statements regarding location and type of gage, information as to diversions that decrease the flow at the gage, artificial regulation, maximum and minimum recorded stages, and the accuracy of the records. The

maximum discharge given under "Extremes" does not represent the crest discharge unless a water-stage recorder was in operation or unless a nonrecording gage was read at the time of the crest.

The table of daily discharge gives, in general, the discharge in second-feet corresponding to the daily gage height which may be once-daily reading or the mean of twice-daily readings of a nonrecording gage, or the mean daily gage height obtained from a water-stage recorder graph.

At stations on streams subject to sudden or rapid diurnal fluctuation the discharge obtained from the rating table and the mean daily gage height may not be the true mean discharge for the day. If such stations are equipped with water-stage recorders, the mean daily discharge may be obtained by averaging discharge at regular intervals during the day or by using the discharge integrator, an instrument for obtaining mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

In the table of monthly discharge the column headed "Maximum" gives the maximum daily discharge, and not the discharge when the water surface was at crest height. Likewise, in the column headed "Minimum" the quantity given is the minimum daily discharge. The column headed "Mean" is the average flow in cubic feet per second during the month. On this average flow are based computations recorded in the remaining columns, which are defined on page 2.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily (1) on the permanence of the stage-discharge relation and (2) on the accuracy of observation of stage, measurements of flow, and interpretation of records.

The station description gives a statement in regard to the general accuracy of the records. "Excellent" indicates that records are accurate within 5 per cent; "good," within 10 per cent; "fair," within 15 per cent; and "poor," 20 per cent or more.

The monthly means for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and run-off in inches may be subject to gross errors caused by the inclusion of large noncontributing districts in the measured drainage area, by lack of information concerning water diverted for irrigation or other use, or by inability to interpret the effect of artificial regulation of the flow of the river above the station. "Second-feet per square mile" and "run-off in inches" are therefore not computed if such errors appear probable. The computations are also omitted for stations on streams draining areas in which the annual rainfall is less than 20 inches.

The table of monthly discharge gives a general idea of the flow at the station. The table of daily discharge allows more detailed studies of the variation in flow. It should be borne in mind, however, that the observations in each succeeding year may be expected to throw new light on data previously published.

Many gaging stations on streams in the irrigated areas of the United States are situated above most of the diversions from those streams, and the discharge recorded does not show the water supply available for further development, as prior appropriations below the stations must first be satisfied.

PUBLICATIONS

Investigation of water resources by the United States Geological Survey has consisted in large part of measurements of the volume of flow of streams and studies of the conditions affecting that flow, but it has comprised also investigation of such closely allied subjects as irrigation, water storage, water powers, underground waters, and quality of waters. Most of the results of these investigations have been published in the series of water-supply papers, but some have appeared in the bulletins, professional papers, monographs, and annual reports.

The results of stream-flow measurements are now published annually in 12 parts, each part covering an area whose boundaries coincide with natural-drainage features as indicated below:

Part I. North Atlantic slope basins (St. John River to York River).
II. South Atlantic slope and eastern Gulf of Mexico basins (James River to the Mississippi).
III. Ohio River Basin.
IV. St. Lawrence River Basin.
V. Upper Mississippi River and Hudson Bay Basins.
VI. Missouri River Basin.
VII. Lower Mississippi River Basin.
VIII. Western Gulf of Mexico basins.
IX. Colorado River Basin.
X. The Great Basin.
XI. Pacific slope basins in California.
XII. North Pacific slope basins, in three parts:
A, Pacific slope basins in Washington and upper Columbia River Basin.
B, Snake River Basin.
C, Pacific slope basins in Oregon and lower Columbia River Basin.

Water-supply papers and other publications of the United States Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as indicated below.

1. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will, on application, furnish lists giving prices.

2. Sets of the reports may be consulted in the libraries of the principal cities in the United States.

3. Sets are available for consultation in the local offices of the water-resources branch of the Geological Survey, as follows:

Augusta, Me., Statehouse.
Boston, Mass., 2500 Customhouse.
Hartford, Conn., 64 State Capitol.
Albany, N. Y., 506 Broadway-Arcade Building.
Trenton, N. J., 423 Statehouse Annex.
Charlottesville, Va., Brooks Museum, University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.
Asheville, N. C., 608 City Hall.
Chattanooga, Tenn., 630 Power Building.
Tuscaloosa, Ala., Post Office Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Chicago, Ill., 1510 Consumers Building.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 202 Old State Capitol.
Topeka, Kans., 23 Federal Building.
Rolla, Mo., Rolla Building, School of Mines and Metallurgy.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Capitol.
Tucson, Ariz., 104 Agriculture Building, University of Arizona.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 313 Federal Building.
Idaho Falls, Idaho, 228 Federal Building.
Boise, Idaho, Federal Building.
Helena, Mont., 45-46 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 751 South Figueroa Street.
Honolulu, Hawaii, Territorial Office Building.

A list of the Geological Survey's publications may be obtained by applying to the Director, United States Geological Survey, Washington, D. C.

Stream-flow records have been obtained at about 5,330 points in the United States, and the data obtained have been published in the reports tabulated on pages 6–8.

Stream-flow data in reports of the United States Geological Survey

[A = Annual Report; B = Bulletin; W = Water-Supply Paper]

Report	Character of data	Year
10th A, pt. 2	Descriptive information only	
11th A, pt. 2	Monthly discharge and descriptive information	1884 to September, 1890.
12th A, pt. 2	do	1884 to June 30, 1891.
13th A, pt. 3	Mean discharge in second-feet	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871 to 1893)	1888 to Dec. 31, 1893.
B 131	Descriptions, measurements, gage heights, and ratings	1893 and 1894.

Stream-flow data in reports of the United States Geological Survey—Continued

Report	Character of data	Year
16th A, pt. 2	Descriptive information only	
B 140	Description, measurements, gage heights, ratings, and monthly discharge (also many data covering earlier years).	1895.
W 11	Gage heights (also gage heights for earlier years)	1896.
18th A, pt. 4	Descriptions, measurements, ratings, and monthly discharge (also similar data for some earlier years).	1895 and 1896.
W 15	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with the Kansas.	1897.
W 16	Descriptions, measurements, and gage heights, western Mississippi River below junction of Missouri and Platte Rivers, and western United States.	1897.
19th A, pt. 4	Decriptions, measurements, ratings, and monthly discharge (also some long-time records).	1897.
W 27	Measurements, ratings, and gage heights, eastern United States, eastern Mississippi River, and Missouri River.	1898.
W 28	Measurements, ratings, and gage heights, Arkansas River and western United States.	1898.
20th A, pt. 4	Monthly discharge (also for many earlier years)	1898.
W 35 to 39	Descriptions, measurements, gage heights, and ratings	1899.
21st A, pt. 4	Monthly discharge	1899.
W 47 to 52	Descriptions, measurements, gage heights, and ratings	1900.
22d A, pt. 4	Monthly discharge	1900.
W 65, 66	Descriptions, measurements, gage heights, and ratings	1901.
W 75	Monthly discharge	1901.
W 82 to 85	Complete data	1902.
W 97 to 100	do	1903.
W 124 to 135	do	1904.
W 165 to 178	do	1905.
W 201 to 214	do	1906
W 241 to 252	do	1907–8.
W 261 to 272	do	1909.
W 281 to 292	do	1910.
W 301 to 312	do	1911.
W 321 to 332	do	1912.
W 351 to 362	do	1913.
W 381 to 394	do	1914.
W 401 to 414	do	1915.
W 431 to 444	do	1916.
W 451 to 464	do	1917.
W 471 to 484	do	1918.
W 501 to 514	do	1919–20.
W 521 to 534	do	1921.
W 541 to 554	do	1922.
W 561 to 574	do	1923.
W 581 to 594	do	1924.
W 601 to 614	do	1925.
W 621 to 634	do	1926.
W 641 to 654	do	1927.

The records at most of the stations discussed in these reports extend over a series of years. Miscellaneous measurements at many points other than regular gaging stations have been made each year and are published under "Miscellaneous dischage measurements" at the end of each report in the same relative order as the regular gaging stations. An index of the reports containing records obtained prior to 1904 has been published in Water-Supply Paper 119.

The following table gives, by years and drainage basins, the numbers of the papers on surface-water supply published from 1899 to 1927. The data for any particular station will, as a rule, be found in the reports covering the years during which the station was maintained. For example data from 1910 to 1920 for any station in the area covered by Part III are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and in 503 which contain records for the Ohio River Basin for those years.

Numbers of water-supply papers containing results of stream measurements, 1899–1927

[For basins included see p. 5]

Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII-A	XII-B	XII-C
1899 [a]	35	[b] 35, 36	36	36	36	[c] 36, 37	37	37	[d] 37, 38	38, [e] 39	38, [f] 39	38	38	38
1900 [g]	47, [h] 48	48	48, [i] 49	49	49	49, [j] 50	50	50	50	51	51	51	51	51
1901	65, 75	65, 75	65, 75	65, 75	[k] 65, 66, 75	66, 75	[k] 65, 66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75	66, 75
1902	82	[b] 82, 83	83	[l] 82, 83	[k] 83, 85	84	[k] 83, 84	84	85	85	85	85	85	85
1903	97	[b] 97, 98	98	97	[k] 98, 99, [m] 100	99	[k] 98, 99	99	100	100	100	100	100	100
1904	[n] 124, [e] 125 [p] 126	[p] 126, 127	128	129	[k] 128, 130	130, [q] 131	[k] 128, 131	132	133	133, [r] 134	134	135	135	135
1905	[n] 165, [e] 166, [p] 167	[p] 167, 168	169	170	171	172	[k] 169, 173	174	175, [e] 177	176, [r] 177	177	178	178	[s] 177, 178
1906	[n] 201, [e] 202 [p] 203	[p] 203, 204	205	206	207	208	[k] 205, 209	210	211	212, [r] 213	213	214	214	214
1907–8	241	242	243	244	245	246	247	248	249	250, [r] 251	251	252	252	252
1909	261	262	263	264	265	266	267	268	269	270, [r] 271	271	272	272	272
1910	281	282	283	284	285	286	287	288	289	290	291	292	292	292
1911	301	302	303	304	305	306	307	308	309	310	311	312	312	312
1912	321	322	323	324	325	326	327	328	329	330	331	332–A	332–B	332–C
1913	351	352	353	354	355	356	357	358	359	360	361	362–A	362–B	362–C
1914	381	382	383	384	385	386	387	388	389	390	391	392	393	394
1915	401	402	403	404	405	406	407	408	409	410	411	412	413	314
1916	431	432	433	434	435	436	437	438	439	440	441	442	443	444
1917	451	452	453	454	455	456	457	458	459	460	461	462	463	464
1918	471	472	473	474	475	476	477	478	479	480	481	482	483	484
1919–20	501	502	503	504	505	506	507	508	509	510	511	512	513	514
1921	521	522	523	524	525	526	527	528	529	530	531	532	533	534
1922	541	542	543	544	545	546	547	548	549	550	551	552	553	554
1923	561	562	563	564	565	566	567	568	569	570	571	572	573	574
1924	581	582	583	584	585	586	587	588	589	590	591	592	593	594
1925	601	602	603	604	605	606	607	608	609	610	611	612	613	614
1926	621	622	623	624	625	626	627	628	629	630	631	632	633	634
1927	641	642	643	644	645	646	647	648	649	650	651	652	653	654

[a] Rating tables and index to Water-Supply Papers 35–39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in Twenty-first Annual Report, Part IV.
[b] James River only.
[c] Gallatin River.
[d] Green and Gunnison Rivers and Grand River above junction with Gunnison.
[e] Mohave River only.
[f] Kings and Kern Rivers and south Pacific slope basins.
[g] Rating tables and index to Water-Supply Papers 47–52 and data on precipitation, wells, and irrigation in California and Utah contained in Water-Supply Paper 52. Tables of monthly discharge for 1900 in Twenty-second Annual Report, Part IV.
[h] Wissahickon and Schuylkill Rivers to James River.
[i] Scioto River.
[j] Loup and Platte Rivers near Columbus, Nebr., and all tributaries below junction with Platte.
[k] Tributaries of Mississippi from east.
[l] Lake Ontario and tributaries to St. Lawrence River proper.
[m] Hudson Bay only.
[n] New England rivers only.
[o] Hudson River to Delaware River, inclusive.
[p] Susquehanna River to Yadkin River, inclusive.
[q] Platte and Kansas Rivers.
[r] Great Basin in California, except Truckee and Carson River Basins.
[s] Below junction with Gila.
[t] Rogue, Umpqua, and Siletz Rivers only.

COOPERATION

The work of measuring streams in Texas during the year ending September 30, 1927, was carried on in cooperation with the State through the Board of Water Engineers, consisting of John A. Norris, chairman, C. S. Clark, and A. H. Dunlap, to whom special acknowledgments are due for the efficient and cordial manner in which they represented the State in the investigations.

The following have aided in the collection of records by furnishing funds or otherwise assisting: United States Weather Bureau; American and Mexican sections of the International Boundary Commission; Corpus Christi; Dallas; Fort Worth; San Antonio; Brownwood; Longview; Walker-Caldwell Water Co.; Medina Valley Irrigation Co.; Breckenridge Chamber of Commerce; Electra Chamber of Commerce; Tarrant County Water Improvement District No. 1; St. Louis Southwestern Railway; Texas & New Orleans Railroad; International & Great Northern Railway; Galveston, Harrisburg & San Antonio Railway; Gulf, Colorado & Santa Fe Railway; and E. N. Cory.

Acknowledgment is made in the description of the gaging stations for records furnished by cooperating parties.

DIVISION OF WORK

Data for stations in Texas and New Mexico were collected and prepared for publication under the direction of C. E. Ellsworth, district engineer, assisted by C. E. McCashin, W. E. Armstrong, Trigg Twichell, H. C. Pritchett, S. D. Breeding, Tate Dalrymple, W. C. Dodd, A. C. Cook, N. C. Magnuson, R. G. Fisher, E. S. Altgelt, J. E. Stewart, A. B. Goodwin, C. A. Young, B. M. Pember, B. S. Odom, V. W. Rupp, D. M. Corbett, P. H. Holland, and Kate Casparis.

The records were reviewed and the manuscript assembled by Otto Lauterhahn.

GAGING-STATION RECORDS

SABINE RIVER BASIN

SABINE RIVER NEAR LONGVIEW, TEX.

LOCATION.—Staff gage just below the International & Great Northern Railway bridge and 3 miles southwest of Longview, Gregg County.

DRAINAGE AREA.—3,010 square miles.

RECORDS AVAILABLE.—January, 1904, to December, 1906, and October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 18,700 second-feet March 16 (gage height, 29.0 feet); minimum, 53 second-feet October 13.

1904–1906, 1923–1927: Maximum discharge, 19,500 second-feet May 19, 1905 (gage height, 35.05 feet); minimum discharge, 14 second-feet August 29–31, 1925 (gage height, 1.10 feet).

REMARKS.—Records fair. No diversions of consequence. Slight regulation at extremely low stages caused by pumping just above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	172	140	7,070	3,210	1,010	830	9,330	272	2,470	1,840	69
2	61	159	133	7,650	3,250	1,450	790	8,690	257	2,780	1,840	72
3	58	146	133	7,980	3,250	1,780	850	7,980	227	2,990	1,590	74
4	57	227	133	8,060	2,920	2,020	1,040	7,340	212	2,640	1,120	74
5	56	614	126	7,900	2,440	2,350	1,080	6,430	212	1,470	614	74
6	55	830	126	7,500	2,080	2,710	1,490	4,920	757	632	332	79
7	55	971	133	6,880	2,290	3,290	4,150	2,820	1,570	378	257	79
8	56	1,060	185	5,900	2,540	4,380	5,520	1,360	1,360	332	212	79
9	57	1,150	378	4,240	2,680	5,740	6,430	750	910	317	185	79
10	56	1,040	890	2,440	2,780	6,550	7,070	632	770	287	166	79
11	55	650	1,550	950	2,920	7,140	7,900	560	870	272	146	74
12	54	317	1,900	710	3,250	7,730	9,220	542	810	227	146	74
13	53	212	2,140	690	3,880	8,500	10,800	560	596	212	146	74
14	101	172	2,380	730	4,330	10,200	12,800	690	442	212	146	120
15	332	302	2,640	810	4,570	18,000	13,800	870	710	198	140	172
16	578	378	2,820	890	4,720	18,700	12,600	1,060	850	185	172	172
17	690	347	2,850	1,060	4,870	17,300	11,600	1,190	750	172	227	146
18	790	287	2,500	1,240	5,020	15,800	12,000	1,330	730	172	185	107
19	890	242	1,620	1,430	5,180	13,800	11,600	1,450	870	146	152	74
20	830	242	930	1,870	5,240	12,600	11,000	1,330	1,190	146	126	74
21	578	287	890	2,990	4,920	11,600	11,600	1,080	1,450	368	114	74
22	332	332	1,310	3,790	4,150	10,200	12,300	810	1,670	850	107	74
23	198	302	1,780	4,240	2,780	9,000	12,600	632	1,640	1,360	101	74
24	166	257	2,260	4,330	1,570	7,500	12,600	560	1,380	1,900	90	74
25	140	212	2,640	4,200	1,060	5,740	12,600	542	1,220	2,570	79	74
26	133	185	2,960	3,970	910	3,880	12,600	525	1,310	3,210	74	64
27	152	172	3,370	3,740	810	2,540	11,800	474	1,500	3,570	79	65
28	198	159	4,060	3,570	770	1,520	11,200	442	1,670	3,740	95	69
29	227	152	4,870	3,410	-------	1,040	10,500	378	1,900	3,450	90	69
30	227	146	5,620	3,290	-------	910	9,960	347	2,170	2,740	73	69
31	198	-------	6,430	3,330	-------	850	--------	317	-------	2,080	70	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	890	53	242	14,900
November	1,150	146	391	23,300
December	6,430	126	1,930	119,000
January	8,060	690	3,770	232,000
February	5,240	770	3,160	175,000
March	18,700	850	6,960	428,000
April	13,800	790	8,680	516,000
May	9,330	317	2,130	131,000
June	2,170	212	1,010	60,100
July	3,740	146	1,360	83,600
August	1,840	70	346	21,300
September	172	64	85	5,060
The year	18,700	53	2,500	1,810,000

SABINE RIVER AT LOGANSPORT, LA.

LOCATION.—Chain gage on highway bridge 200 feet above Houston East & West Texas Railway bridge and a quarter of a mile west of Logansport, De Soto County. Zero of gage is 147.5 feet above mean sea level.

DRAINAGE AREA.—4,860 square miles.

RECORDS AVAILABLE.—July, 1903, to December, 1906, and October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 20,900 second-feet April 19 (gage height, 29.1 feet); minimum, 60 second-feet October 9–12 (gage height, 0.0 foot).

1903–1906, 1923–1927: Maximum discharge not determined; maximum gage height, 35.8 feet May 26, 1905; minimum discharge, probably less than 27 second-feet September, 1925.

Maximum stage known, 39.4 feet reached during 1884.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. No diversions. Gage-height record furnished by United States Weather Bureau.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	828	60	263	16,200
November	1,080	159	510	30,400
December	9,340	215	2,970	182,000
January	9,180	1,530	4,720	290,000
February	8,280	3,170	5,310	295,000
March	14,500	3,960	8,870	545,000
April	20,900	4,220	11,500	684,000
May	12,800	1,260	5,970	367,000
June	3,500	963	1,810	107,000
July	3,720	294	1,520	93,200
August	3,620	110	1,260	77,300
September	322	81	118	7,010
The year	20,900	60	3,720	2,690,000

SABINE RIVER NEAR BON WIER, TEX.

LOCATION.—Chain gage on Gulf, Colorado & Santa Fe Railway bridge 1¼ miles east of Bon Wier, Newton County. Zero of gage is 45.4 feet above mean sea level.

DRAINAGE AREA.—8,390 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 45,600 second-feet April 21 (gage height, 20.6 feet); minimum, 260 second-feet September 26 (gage height, 0.80 foot).

1923–1927: Maximum discharge, that of April 21, 1927; minimum, 185 second-feet September 11, 22, and 24, 1925 (gage height, 0.50 foot).

REMARKS.—Monthly records fair. Records of daily discharge not sufficiently accurate for publication. No diversion. Gage-height record furnished by United States Weather Bureau.

Monthly discharge of Sabine River near Bon Wier, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,040	320	655	40,300
November	1,730	760	1,240	73,800
December	30,300	800	7,410	455,000
January	31,400	6,240	14,500	892,000
February	21,600	6,460	12,200	676,000
March	36,100	7,940	19,800	1,220,000
April	45,600	10,000	23,800	1,420,000
May	24,800	3,820	14,400	887,000
June	12,700	1,800	5,260	313,000
July	8,070	990	3,490	215,000
August	4,920	720	1,940	119,000
September	800	260	466	27,800
The year	45,600	260	8,750	6,340,000

SABINE RIVER NEAR RULIFF, TEX.

LOCATION.—Staff gage on Kansas City Southern Railway bridge 1½ miles east of Ruliff, Newton County, and 5 miles below mouth of Cypress Creek. Zero of gage, 4.7 feet above mean sea level.

DRAINAGE AREA.—9,450 square miles.

RECORDS AVAILABLE.—October, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 54,400 second-feet January 4 (gage height, 14.14 feet); minimum, 714 second-feet September 29 (gage height, 2.30 feet).

1924–1927: Maximum discharge, that of January 4, 1927; minimum, 372 second-feet September 11, 1925 (gage height, 1.10 feet).

The river reached a stage of 15.5 feet April 15, 1923.

REMARKS.—Records fair. No diversion above gage.

Daily discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	945	1,610	1,160	36,400	14,500	13,000	17,100	27,400	6,260	10,800	4,420	1,020
2	876	1,670	1,120	45,400	13,000	12,200	17,100	25,200	5,000	10,200	4,560	1,020
3	876	1,840	1,120	50,000	11,800	11,100	15,700	25,200	4,020	9,580	4,700	1,090
4	842	1,720	1,160	52,200	10,400	10,800	15,700	21,800	3,450	9,050	4,850	1,090
5	910	1,500	1,160	45,400	9,580	10,800	15,100	21,800	3,050	8,350	4,700	1,090
6	842	1,400	1,160	25,200	8,580	10,800	14,500	20,500	2,700	7,450	4,700	1,090
7	842	1,310	1,200	18,200	8,350	10,800	15,100	19,200	2,550	6,260	4,420	1,120
8	910	1,270	1,240	17,100	7,900	10,400	15,100	19,200	2,700	5,600	4,150	1,120
9	945	1,240	1,240	16,400	8,350	9,850	15,100	17,100	3,050	5,300	3,650	1,090
10	945	1,160	1,270	16,400	8,800	9,300	15,100	17,100	3,250	5,150	3,250	1,050
11	876	1,090	1,310	14,500	9,300	9,850	15,100	15,700	3,350	5,150	2,960	1,020
12	876	1,240	1,400	14,000	11,100	11,100	14,500	15,700	3,450	5,150	2,700	1,020
13	842	1,400	1,500	13,000	11,100	13,000	14,000	15,700	3,450	4,700	2,400	945
14	842	1,400	1,610	18,200	10,800	15,100	13,500	15,100	3,450	4,150	2,250	910
15	876	1,310	1,720	11,100	11,400	19,200	12,600	14,500	3,650	3,250	1,970	910
16	945	1,270	1,900	10,200	12,600	25,200	11,800	14,500	3,900	2,700	1,780	876
17	1,090	1,200	2,180	9,300	13,500	29,700	11,800	14,500	4,150	2,400	1,610	876
18	1,090	1,240	2,400	9,050	15,100	29,700	12,600	14,500	4,420	2,100	1,400	876
19	1,020	1,360	2,700	8,800	17,100	29,700	14,500	14,500	4,700	1,970	1,310	910
20	945	1,560	2,870	8,800	17,100	29,700	17,100	14,000	5,000	1,840	1,270	945
21	876	1,720	2,870	9,300	18,200	32,000	20,500	12,600	5,300	1,720	1,270	876
22	876	1,720	3,650	9,580	18,200	32,000	25,200	10,800	5,450	1,610	1,310	876
23	842	1,670	3,780	10,200	17,100	29,700	34,200	9,850	5,910	1,500	1,270	809
24	876	1,610	4,150	11,400	16,400	29,700	38,700	9,580	6,650	1,560	1,240	809
25	876	1,500	4,700	12,200	15,700	27,400	38,700	10,200	7,900	1,500	1,160	777
26	910	1,400	11,800	13,500	15,100	25,200	36,400	11,100	9,050	1,840	1,090	745
27	1,020	1,310	15,100	15,700	14,000	21,800	34,200	11,400	10,200	2,180	1,050	745
28	1,160	1,240	15,700	17,100	13,500	20,500	32,000	11,400	10,800	2,250	1,020	745
29	1,270	1,240	17,100	19,200	-------	19,200	29,700	10,800	11,100	2,870	980	714
30	1,400	1,160	20,500	18,200	-------	19,200	29,700	9,300	10,800	3,450	945	745
31	1,500	-------	21,800	16,400	-------	18,200	-------	7,680	-------	4,020	945	-------

Monthly discharge of Sabine River near Ruliff, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,500	842	966	59,400
November	1,840	1,090	1,410	84,000
December	21,800	1,120	4,920	303,000
January	52,200	8,800	19,100	1,180,000
February	18,200	7,900	12,800	711,000
March	32,000	9,300	19,200	1,180,000
April	38,700	11,800	20,400	1,210,000
May	27,400	7,680	15,400	948,000
June	11,100	2,550	5,290	315,000
July	10,800	1,500	4,380	269,000
August	4,850	945	2,430	149,000
September	1,120	714	930	55,400
The year	52,200	714	8,930	6,460,000

NECHES RIVER BASIN

NECHES RIVER NEAR REESE, TEX.

LOCATION.—Inverted staff gage at Texas & New Orleans Railroad bridge 2 miles west of Reese, Cherokee County, 500 feet above highway bridge, and 1½ miles below mouth of Killough Creek. Zero of gage 310.90 feet above mean sea level.

DRAINAGE AREA.—851 square miles.

RECORDS AVAILABLE.—April, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 7,490 second-feet April 9 (gage height, −11.6 feet); minimum, 9.0 second-feet October 1–9 (gage height, −26.0 feet).

1924–1927: Maximum discharge, that of April 9, 1927; no flow July 25–30 and September 10–11, 1925.

River reached stage of −11.0 feet April, 1914.

REMARKS.—Monthly records fair. Daily discharge not sufficiently accurate for publication. No diversion above gage.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	151	----------	61	3,750
November	151	71	109	6,510
December	2,650	91	993	61,100
January	6,610	390	1,470	90,200
February	2,010	558	1,180	65,400
March	2,060	432	998	61,400
April	7,340	390	3,010	179,000
May	1,260	195	504	31,000
June	1,140	243	714	42,500
July	750	----------	338	20,800
August	151	----------	* 73	4,490
September	----------	----------	* 70	4,170
The year	7,340	----------	788	570,000

* Estimated.

NECHES RIVER NEAR ROCKLAND, TEX.

LOCATION.—Staff gage half a mile above Texas & New Orleans Railroad bridge 1 mile north of Rockland, Tyler County. Zero of gage, 95.50 feet above mean sea level.

DRAINAGE AREA.—3,540 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,100 second-feet April 21 (gage height, 22.0 feet); minimum, 57 second-feet for several periods (gage height, −0.50 foot).

1923–1927: Maximum discharge, about 15,100 second-feet April 26 and 27, 1926 (gage height, 22.7 feet); minimum, 7.0 second-feet August 23 and 24, 1925 (gage height, −1.2 feet).

Highest stage recorded, 28.9 feet by the United States Weather Bureau April 2, 1922 (discharge, about 24,200 second-feet).

REMARKS.—Records fair. No diversions above gage. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	135	300	360	7,050	1,620	4,400	8,310	6,560	1,100	3,440	1,400	67
2	119	270	360	6,700	2,080	4,400	7,400	6,350	1,060	3,200	995	67
3	104	435	330	6,350	1,580	5,240	6,490	6,350	1,030	3,140	785	78
4	91	375	300	6,350	1,780	5,120	5,570	6,280	890	3,080	615	78
5	78	330	270	5,380	1,530	4,920	4,920	6,280	820	2,960	555	78
6	67	270	330	5,240	1,780	4,600	4,340	5,960	680	2,570	525	78
7	67	243	615	5,050	2,240	4,220	3,860	5,830	820	2,350	525	78
8	67	330	615	4,340	2,620	5,050	3,500	5,640	785	2,080	525	67
9	57	330	1,100	3,800	3,200	9,710	3,200	5,310	750	2,130	495	67
10	57	555	1,440	3,500	3,440	9,500	2,900	5,180	680	4,600	495	67
11	57	525	1,920	3,200	3,380	9,780	2,680	4,980	615	2,080	375	67
12	495	615	2,020	3,020	4,920	10,600	2,400	4,920	525	1,720	330	67
13	270	435	1,820	3,080	7,610	10,300	2,080	5,240	465	1,680	300	67
14	188	525	1,530	3,800	8,100	9,920	3,100	5,440	525	1,530	243	67
15	151	555	1,620	3,800	8,450	10,500	9,010	5,240	960	1,400	219	91
16	151	555	1,620	3,680	8,380	10,900	7,610	4,720	1,300	1,260	208	78
17	151	495	1,480	3,680	6,560	10,700	8,310	4,530	1,300	785	151	78
18	119	435	1,400	3,500	5,830	10,200	10,300	4,100	1,580	785	151	67
19	104	375	1,300	4,460	6,380	9,500	12,300	3,500	1,720	615	151	67
20	104	330	1,220	7,750	5,050	8,660	13,600	2,900	1,720	495	135	67
21	104	435	1,140	9,150	4,720	8,100	14,100	2,960	1,920	435	135	57
22	104	435	1,220	9,080	4,530	7,890	13,800	3,020	2,350	375	119	57
23	104	435	1,540	8,380	4,340	7,610	12,800	3,620	2,740	360	119	57
24	91	435	5,310	7,190	4,280	7,400	12,700	2,080	3,140	360	119	57
25	270	435	7,540	5,640	4,100	7,540	12,000	1,920	3,320	375	119	57
26	300	435	7,750	4,100	4,100	9,150	11,000	1,780	3,380	360	104	57
27	270	375	7,400	3,500	4,100	9,990	10,400	1,580	3,560	495	91	57
28	219	360	7,750	2,960	4,160	10,200	9,920	1,480	3,800	785	78	57
29	243	360	7,400	2,620	-------	10,100	8,310	1,350	3,800	1,530	78	57
30	300	435	7,400	1,820	-------	9,710	7,260	1,720	2,840	2,020	67	57
31	330	-------	7,260	1,780	-------	9,010	-------	1,180	-------	1,820	67	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	495	57	160	9,850
November	615	243	414	24,600
December	7,750	270	2,690	165,000
January	9,150	1,780	4,840	297,000
February	8,450	1,530	4,280	238,000
March	10,900	4,220	8,220	506,000
April	14,100	2,080	7,810	464,000
May	6,560	1,180	4,130	254,000
June	3,800	465	1,670	99,500
July	4,600	360	1,640	101,000
August	1,400	67	331	20,400
September	91	57	67	3,990
The year	14,100	57	3,020	2,180,000

NECHES RIVER AT EVADALE, TEX.

LOCATION.—Staff gage at Gulf, Colorado & Santa Fe Railway bridge at Evadale, Jasper County. Zero of gage, 7.20 feet above mean sea level.

DRAINAGE AREA.—7,910 square miles.

RECORDS AVAILABLE.—July, 1904, to December, 1906, and October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 27,800 second-feet March 18 (gage height, 17.34 feet); minimum, 348 second-feet September 27 (gage height, 0.98 foot).

1904–1906, 1923–1927: Maximum discharge, 40,700 second-feet June 1–7, 1924 (gage height, 19.0 feet); minimum, about 148 second-feet September 10, 1925.

Maximum stage known, 33.4 feet in 1884 from records of Gulf, Colorado & Santa Fe Railway.

REMARKS.—Records fair. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	629	820	876	19,500	8,550	9,060	18,800	25,500	4,090	8,720	3,26	508
2	577	936	876	21,000	6,710	9,060	18,800	24,000	3,610	8,720	3,470	485
3	531	906	876	21,000	5,600	9,060	18,800	23,200	3,260	8,890	3,260	485
4	508	848	876	21,000	5,120	9,420	18,000	21,800	2,910	8,890	2,660	462
5	485	820	848	20,200	4,790	9,800	18,000	19,500	2,660	8,890	2,150	462
6	462	820	820	18,800	4,680	10,200	16,500	17,200	2,450	8,720	1,830	485
7	462	792	792	17,200	5,010	10,200	15,200	15,200	2,400	8,060	1,630	462
8	462	764	820	15,200	5,840	10,200	13,800	13,800	2,350	7,580	1,510	442
9	462	708	906	13,800	6,580	10,000	12,700	12,700	2,450	6,840	1,440	442
10	485	792	1,470	12,700	6,980	10,200	11,500	12,100	2,450	6,200	1,400	442
11	485	876	1,870	11,500	7,120	11,300	10,400	11,300	2,250	5,600	1,330	442
12	462	966	2,400	10,400	7,120	13,800	9,240	10,600	2,100	5,120	1,260	442
13	462	1,100	3,330	9,800	7,420	16,500	8,380	10,600	2,100	4,680	1,190	422
14	485	1,160	4,180	9,060	8,220	19,500	7,580	10,400	2,200	4,180	1,130	402
15	554	1,100	4,580	8,720	9,610	22,500	7,740	10,400	2,350	3,750	1,060	442
16	655	1,060	4,580	8,550	11,500	25,500	8,890	10,600	2,500	3,400	966	422
17	603	1,130	4,280	8,720	13,400	27,000	11,000	10,400	2,780	3,120	906	422
18	554	1,190	4,000	8,890	15,200	27,800	13,800	10,000	3,190	2,840	848	402
19	508	1,130	3,750	8,720	16,500	27,800	17,200	9,420	3,750	2,550	792	402
20	462	1,030	3,540	8,380	18,000	27,800	21,000	8,720	4,580	2,250	736	402
21	442	936	3,330	8,220	17,200	27,000	24,800	8,720	5,010	1,960	708	402
22	422	906	3,050	8,890	16,500	26,200	26,200	8,380	5,480	1,750	681	384
23	422	906	2,780	10,400	14,600	24,800	26,200	7,740	5,600	1,590	629	384
24	422	936	2,720	12,100	12,700	24,000	27,000	7,580	6,320	1,510	603	366
25	422	1,030	3,540	14,200	11,000	23,200	26,200	7,120	7,420	1,510	577	366
26	485	1,030	4,480	15,800	10,200	21,800	26,200	6,710	8,060	1,510	554	348
27	554	998	7,580	17,200	9,420	21,000	26,200	6,080	8,380	1,710	554	348
28	603	936	10,800	18,000	9,060	19,500	26,200	5,600	8,380	1,960	531	348
29	603	906	13,000	17,200	-------	18,800	26,200	5,120	8,550	2,150	508	366
30	629	876	15,200	14,200	-------	18,000	26,200	4,900	8,720	2,600	508	366
31	681	-------	18,000	11,000	-------	18,000	-------	4,480	-------	2,910	531	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	681	422	515	31,700
November	1,190	708	947	56,300
December	18,000	792	4,200	258,000
January	21,000	8,220	13,600	834,000
February	18,000	4,680	9,810	545,000
March	27,800	9,060	18,000	1,110,000
April	27,000	7,580	18,000	1,070,000
May	25,500	4,480	11,600	714,000
June	8,720	2,100	4,280	255,000
July	8,890	1,510	4,520	278,000
August	3,470	508	1,260	77,800
September	508	348	418	24,900
The year	27,800	348	7,250	5,250,000

MUD CREEK AT PONTA, TEX.

LOCATION.—Inverted staff gage at Texas & New Orleans Railroad bridge three-quarters of a mile west of Ponta, Cherokee County. Zero of gage, 280.20 feet above mean sea level.

DRAINAGE AREA.—481 square miles.

RECORDS AVAILABLE.—April, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 2,900 second-feet April 22 (gage height, −13.75 feet); minimum, 1.0 second-foot August 20 (gage height, −25.10 feet).

1924–1927: Maximum discharge, about 4,000 second-feet May 30, 1924 (gage height, −12.72 feet); no flow during several periods.

Highest known flood for past 40 years, −9.2 feet May, 1908.

REMARKS.—Monthly records poor. Daily discharge not sufficiently accurate for publication. No diversions above station.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			2.65	163
November			11.6	691
December			296	18,201
January			360	22,200
February			553	30,700
March			808	49,700
April	2,800		1,040	61,600
May			261	16,000
June			143	8,520
July		13	121	7,470
August		1.0	15.2	938
September			5.03	300
The year	2,800	1.0	299	216,000

NOTE.—Daily discharge was estimated for numerous days.

ANGELINA RIVER NEAR LUFKIN, TEX.

LOCATION.—Chain gage on highway bridge 1 mile above Houston East & West Texas Railway bridge and 8 miles north of Lufkin, Angelina County.

DRAINAGE AREA.—1,580 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 10,700 second-feet April 15 (gage height, 13.85 feet); minimum, 20 second-feet October 2 (gage height, 2.21 feet).

1923–1927: Maximum discharge, about 30,200 second-feet November 19–21, 1925 (gage height, 15.99 feet; gage on railroad bridge 1 mile downstream); minimum, 14 second-feet August 27, 28, 31, and September 1–3, 1925.

REMARKS.—Records fair. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	39	107	3,210	730	1,670	3,550	4,560	276	890	309	32
2	21	48	102	3,210	680	1,570	3,040	4,120	247	890	320	39
3	21	54	102	3,210	680	1,570	2,460	3,550	231	1,020	309	34
4	21	56	97	3,040	680	1,480	2,090	3,040	215	1,160	287	27
5	22	52	97	2,890	600	1,230	1,670	2,460	199	780	239	26
6	22	48	97	2,460	530	1,160	1,310	2,090	256	479	183	29
7	22	48	102	2,210	500	1,230	1,090	1,670	395	437	137	27
8	22	64	144	1,870	479	2,330	950	1,160	350	437	112	27
9	26	102	309	1,390	458	3,740	780	830	276	416	97	27
10	34	118	458	1,160	458	4,120	680	560	239	395	84	27
11	48	118	530	830	479	4,560	680	479	231	380	76	26
12	50	102	500	640	560	4,780	680	458	223	365	68	29
13	50	97	437	640	950	4,340	780	500	215	320	64	30
14	43	112	395	730	1,390	3,740	3,110	600	320	298	56	30
15	38	130	395	730	1,670	3,550	10,700	680	395	256	54	29
16	60	130	416	730	1,770	3,930	8,120	730	416	239	52	26
17	68	124	416	640	1,570	4,560	6,880	680	335	215	54	27
18	64	112	395	600	1,670	4,780	7,160	640	276	191	54	26
19	56	102	365	600	2,090	4,780	9,900	640	265	167	60	24
20	54	102	365	640	2,330	5,260	9,540	730	287	151	72	22
21	64	118	380	640	2,890	7,160	8,800	830	2,480	144	60	22
22	64	124	437	640	2,890	7,160	7,800	1,230	2,460	137	48	27
23	60	130	560	600	2,590	6,020	6,020	1,310	2,740	137	43	29
24	60	130	1,390	640	2,590	5,260	5,510	890	2,590	137	38	27
25	56	124	2,740	640	2,330	4,780	5,000	640	1,770	144	39	24
26	50	118	3,040	640	2,090	4,560	4,780	560	1,160	137	39	22
27	46	124	3,040	640	1,980	5,000	4,780	500	950	159	36	23
28	41	124	3,040	680	1,670	5,000	5,260	458	890	215	32	26
29	39	118	2,890	680	-------	5,000	5,510	395	890	256	34	39
30	39	112	2,740	680	-------	4,560	5,000	350	890	287	36	43
31	39	-------	3,040	680	-------	4,120	-------	309	-------	298	32	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	68	21	42.6	2,620
November	130	39	99.3	5,910
December	3,040	97	940	57,800
January	3,210	600	1,240	76,200
February	2,890	458	1,400	77,800
March	7,160	1,160	3,970	244,000
April	10,700	680	4,450	265,000
May	4,560	309	1,210	74,400
June	2,740	199	749	44,600
July	1,160	137	372	22,900
August	320	32	101	6,210
September	43	22	28.2	1,680
The year	10,700	21	1,220	879,000

VILLAGE CREEK NEAR KOUNTZE, TEX.

LOCATION.—Chain gage on Gulf, Colorado & Santa Fe Railway bridge 4 miles east of Kountze, Hardin County. Gage reading indicates distance between water surface and base of rail. Zero of gage, 53.9 feet above mean sea level.

DRAINAGE AREA.—838 square miles.

RECORDS AVAILABLE.—May, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,700 second-feet December 29 (gage height, −13.2 feet); minimum discharge not determined.

1924–1927: Maximum discharge, not determined; maximum stage −11.19 feet June 2, 1924; minimum discharge, 38 second-feet August 20 and 21, 1925.

REMARKS.—Monthly records fair. Daily discharge not sufficiently accurate for publication. No diversion above station.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	----------	----------	234	14,400
November	496	199	300	17,800
December	11,700	244	1,940	119,000
January	4,580	440	1,620	99,700
February	----------	599	1,660	92,200
March	7,100	221	2,350	145,000
April	6,020	296	2,070	123,000
May	2,620	256	748	46,000
June	2,240	158	768	45,700
July	1,800	148	475	29,200
August	----------	----------	185	11,400
September	----------	----------	148	8,810
The year	11,700	----------	1,040	752,000

NOTE.—Daily discharge for numerous days was estimated. Monthly discharge for August and September was estimated.

TRINITY RIVER BASIN

WEST FORK OF TRINITY RIVER AT BRIDGEPORT, TEX.

LOCATION.—Staff gage at Chicago, Rock Island & Gulf Railway Co.'s pumping plant half a mile southwest of Bridgeport, Wise County.

DRAINAGE AREA.—1,010 square miles.

RECORDS AVAILABLE.—October, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, about 6,820 second-feet March 1 (gage height, 20.98 feet; from graph); no flow August 31, September 1, and 23–30.

1908–1927: Maximum discharge, not determined; maximum stage, 28.9 feet June 8, 1915, recorded by United States Weather Bureau; no flow during several periods.

REMARKS.—Records fair. Small amount of water diverted above station for water supply of Bridgeport.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	4.0	0.9	22	81	5,600	32	63	2.9	9	45	0
2	.6	7.1	.8	21	65	3,740	30	54	2.3	8.4	65	2.6
3	.5	3.7	.8	19	54	2,550	27	50	1.7	6.4	68	24
4	1,380	2.9	.6	18	45	1,660	21	45	1.5	5.2	30	564
5	816	2.9	.4	17	41	1,280	17	37	84	4.2	16	1,040
6	655	2.9	.9	16	28	432	16	32	240	3.7	9.7	511
7	538	2.3	860	16	86	1,240	32	30	240	2.6	7.1	212
8	149	2.1	1,280	16	91	925	145	27	188	1.8	4.5	79
9	54	1.5	1,630	15	175	538	286	23	59	1.5	3.4	28
10	30	1.2	1,520	12	1,160	240	108	21	28	1.1	3.4	19
11	64	1.1	1,220	11	1,580	203	79	16	17	.7	3.2	12
12	614	.9	250	11	1,790	371	90	22	10	.5	1.7	7.8
13	745	.7	96	13	1,400	486	1,040	37	346	.7	49	5.2
14	212	3.4	50	16	620	164	715	36	276	2,120	43	3.7
15	655	4.0	30	11	224	115	1,680	76	655	761	98	2.9
16	595	4.5	21	11	147	98	2,490	37	715	68	48	2.1
17	538	2.3	16	11	105	84	1,740	25	393	371	25	1.6
18	538	1.7	13	11	88	68	2,950	16	105	91	12	1.1
19	126	3.4	11	9.7	70	63	2,310	16	54	41	8.4	.7
20	65	3.4	362	9.7	61	54	511	16	34	18	7.1	.4
21	34	3.4	2,480	9.0	54	54	3,340	11	28	13	5.8	.1
22	21	2.6	2,180	8.4	52	48	2,760	9.7	74	8.4	4.2	.1
23	17	1.8	1,840	78	50	45	2,990	9.7	142	9.7	2.6	0
24	13	1.8	1,520	835	41	39	3,620	8.4	312	6.4	4.5	0
25	11	1.7	881	1,160	39	34	3,010	7.1	312	5.2	1.7	0
26	8.4	1.4	164	1,100	37	34	1,120	7.1	118	4.2	1.1	0
27	7.1	1.2	96	715	34	32	224	7.1	54	3.7	.8	0
28	5.8	1.2	63	331	1,290	30	128	5.8	32	5.8	1.1	0
29	5.8	1.0	50	188	-------	34	98	5.8	21	4.5	.3	0
30	5.8	1.0	37	133	-------	59	84	4.2	12	17	.1	0
31	4.5	-------	30	96	-------	41	-------	3.7	-------	156	0	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,380	0.5	255	15,700
November	7.1	.7	2.44	145
December	2,480	.4	539	33,100
January	1,160	8.4	159	9,800
February	1,790	28	340	18,900
March	5,600	30	657	40,400
April	3,620	16	1,060	62,900
May	76	3.7	24.5	1,500
June	715	1.5	152	9,040
July	2,120	.5	121	7,440
August	98	0	18.4	1,130
September	1,040	0	83.9	4,990
The year	5,600	0	283	205,000

WEST FORK OF TRINITY RIVER AT LAKE WORTH DAM, ABOVE FORT WORTH, TEX.

LOCATION.—Water-stage recorder just above Lake Worth Dam and 4½ miles northwest of Tarrant County courthouse in Fort Worth.
DRAINAGE AREA.—1,870 square miles.
RECORDS AVAILABLE.—October, 1923, to September, 1927.
EXTREMES.—Maximum discharge during year, 6,510 second-feet April 25 (gage height, 1.89 feet); no flow during several periods.
1923–1927: Maximum discharge, about 8,390 second-feet November 18, 1923 (gage height, 2.25 feet); no flow during several periods.
REMARKS.—Records fair. Diversions for municipal use only; amount not known.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	14	0	256	302	349	156	735	1.6	86	38	0
2	0	17	0	190	225	782	156	437	0	94	70	0
3	0	14	0	168	179	1,620	144	334	0	62	94	0
4	30	9.2	0	122	156	2,880	122	214	0	46	94	0
5	202	6.6	0	102	156	5,270	102	168	0	25	94	1.0
6	418	3.2	0	94	156	5,030	86	144	0	22	78	90
7	782	3.2	0	78	156	4,560	156	122	0	14	78	334
8	735	20	0	70	190	3,280	168	133	0	4.0	38	456
9	551	0	.8	46	225	2,050	144	110	0	0	25	349
10	380	0	214	25	287	1,940	202	78	0	0	17	225
11	225	0	712	25	494	1,940	302	38	0	0	17	133
12	156	0	1,080	38	889	1,260	256	94	0	0	9.2	70
13	110	0	1,080	102	1,520	916	418	133	6.6	0	2.4	30
14	179	0	617	62	1,980	834	735	190	27	0	.8	22
15	380	0	318	38	2,210	688	1,360	168	86	0	0	14
16	494	0	168	46	1,760	532	1,870	133	302	53	0	9.2
17	570	0	110	62	1,140	437	2,090	102	475	540	0	6.6
18	617	0	78	62	513	456	3,080	94	551	944	0	4.0
19	570	0	62	54	256	380	4,560	86	513	712	0	.8
20	475	0	86	62	214	240	4,340	78	349	418	0	0
21	287	0	122	78	156	179	4,120	86	318	380	0	0
22	202	0	318	62	156	122	5,270	78	225	418	0	0
23	133	0	972	38	144	122	4,800	70	144	318	0	0
24	86	0	1,720	54	133	102	4,800	46	110	202	0	0
25	62	0	2,130	133	122	122	6,510	54	110	133	0	0
26	30	0	2,400	712	102	94	5,760	38	156	94	0	0
27	27	0	2,680	1,230	102	94	4,800	22	214	86	0	0
28	22	0	1,900	1,520	144	110	4,340	25	179	86	0	0
29	22	0	759	1,230	-------	168	3,700	14	122	70	0	0
30	22	0	437	759	-------	168	1,720	9.2	94	62	0	0
31	17	------	318	437	-------	168	-------	3.2	-------	54	0	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	782	0	251	15,400
November	20	0	2.91	173
December	2,680	0	590	36,300
January	1,520	25	257	15,800
February	2,210	102	502	27,900
March	5,270	94	1,190	73,200
April	6,510	86	2,210	131,000
May	735	3.2	130	8,010
June	551	0	133	7,900
July	944	0	159	9,760
August	94	0	21.1	1,300
September	456	0	58.2	3,460
The year	6,510	0	457	330,000

WEST FORK OF TRINITY RIVER AT FORT WORTH, TEX.

LOCATION.—Water-stage recorder in old pump house of Fort Worth Power & Light Co.'s plant in Fort Worth, Tarrant County, and 150 feet above Paddock viaduct.

DRAINAGE AREA.—2,430 square miles.

RECORDS AVAILABLE.—October, 1920, to September, 1927.

EXTREMES.—Maximum and minimum stages during year not recorded.

1910–1927: Maximum discharge determined by slope-area method 85,000 second-feet April 25, 1922 (gage height, 23.95 feet); no flow for several periods.

REMARKS.—Monthly records poor. Daily discharge not sufficiently accurate for publication. About 15 second-feet diverted by city of Fort Worth for municipal use. Flow is partly regulated at Lake Worth.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	----------	4.0	271	16,600
November	90	10	24.4	1,450
December	----------	8.5	659	40,500
January	1,510	42	288	17,700
February	1,860	106	477	26,500
March	4,000	106	1,100	67,700
April	4,540	155	2,080	124,000
May	1,040	5.5	159	9,810
June	717	4.0	160	9,510
July	----------	12	179	11,000
August	----------	3.3	25.3	1,560
September	----------	----------	72.9	4,340
The year	4,540	----------	456	331,000

NOTE.—Daily discharge for numerous days estimated because of missing gage heights.

WEST FORK OF TRINITY RIVER AT GRAND PRAIRIE, TEX.

LOCATION.—Chain gage on highway bridge on Grand Prairie-Irving road 1 mile northeast of Grand Prairie, Dallas County.

DRAINAGE AREA.—2,890 square miles.

RECORDS AVAILABLE.—March, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,000 second-feet April 27 (gage height, 22.10 feet); minimum, 7.6 second-feet August 31 (gage height, 2.02 feet).

1925–1927: Maximum discharge not determined; maximum stage, 25.0 feet May 8, 1925, and April 22, 1926; minimum discharge, 3.2 second-feet June 6, 1925.

During April, 1922, a stage of about 29 feet was attained.

REMARKS.—Records fair. Numerous small diversions above gage; amount not known. Largest diversion about 15 second-feet is by city of Fort Worth. Flow regulated by storage at Lake Worth.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	39	21	340	491	232	261	2,090	36	82	85	8.6
2	25	35	22	246	372	405	232	752	34	97	71	34
3	21	40	22	218	292	847	204	439	34	109	66	165
4	38	43	24	191	232	1,380	191	372	40	91	103	65
5	191	33	18	178	204	2,080	178	292	39	51	97	56
6	324	29	25	146	204	3,560	165	232	41	36	97	60
7	456	29	134	121	191	4,220	152	178	36	41	71	36
8	809	18	232	127	191	4,680	261	165	40	32	53	254
9	771	13	109	115	261	3,600	292	439	39	22	44	456
10	619	98	115	115	340	1,810	204	292	35	20	36	372
11	439	28	261	121	324	1,660	204	152	29	24	28	232
12	276	19	733	91	527	1,710	324	165	30	22	91	165
13	191	15	1,060	91	885	1,220	528	204	36	18	54	127
14	146	20	1,040	218	1,240	885	1,340	232	103	20	32	79
15	146	15	676	146	1,510	790	1,020	232	103	332	20	50
16	405	22	388	121	1,710	676	1,200	204	103	146	22	39
17	456	48	232	97	1,420	545	1,540	178	387	56	17	25
18	581	60	165	97	980	456	1,780	146	456	292	17	21
19	619	63	139	115	581	356	3,800	121	545	847	15	34
20	545	40	115	121	276	491	4,640	115	509	733	14	109
21	473	26	115	109	246	422	4,750	103	581	405	14	67
22	308	29	204	115	204	292	4,360	97	909	324	16	40
23	218	23	372	109	204	204	4,330	84	276	372	15	30
24	191	21	923	109	191	218	4,470	83	178	276	24	26
25	133	23	1,480	158	165	178	3,940	75	139	178	18	25
26	109	22	1,710	178	158	158	4,680	73	103	133	14	20
27	86	18	1,980	790	146	178	4,920	67	121	103	15	25
28	54	22	2,260	1,240	139	158	4,300	57	178	90	18	33
29	47	26	1,680	1,360	-------	218	3,630	23	178	79	14	97
30	56	21	809	1,100	-------	527	3,040	32	152	91	12	72
31	35	-------	473	790	-------	276	-------	43	-------	86	8.6	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	809	21	284	17,400
November	98	13	31.3	1,860
December	2,260	18	566	34,800
January	1,360	91	293	18,000
February	1,710	139	487	27,100
March	4,680	158	1,110	68,300
April	4,920	152	2,030	121,000
May	2,090	23	250	15,300
June	909	29	183	10,900
July	847	18	168	10,300
August	103	8.6	38.8	2,380
September	456	8.6	94.1	5,600
The year	4,920	8.6	460	333,000

TRINITY RIVER AT DALLAS, TEX.

LOCATION.—Chain gage on Commerce Street viaduct in Dallas, Dallas County. Zero of gage is 368.05 feet above mean sea level.

DRAINAGE AREA.—6,000 square miles.

RECORDS AVAILABLE.—October, 1898, to December, 1899; July, 1903, to December, 1906; and October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,000 second-feet April 21 (gage height, 33.05 feet); minimum, 23 second-feet August 19–21 and September 1 (gage height, 4.58 feet).

1898–99, 1903–1906, 1920–1927: Maximum discharge, 75,100 second-feet April 27, 1922 (gage height, 42.35 feet); minimum, 6.8 second-feet September 11, 1924 (gage height, 4.27 feet).

Maximum flood from United States Weather Bureau records, 52.6 feet May 26, 1908. During drought of 1917–18, discharge was practically zero.

REMARKS.—Records fair. Only known diversions are for municipal uses. Low-water flow partly regulated by dams upstream. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	68	259	31	1,900	1,140	4,680	1,690	7,140	61	194	107	23
2	55	162	27	1,750	861	7,550	1,270	5,050	44	152	183	52
3	55	123	27	1,630	757	9,710	737	3,820	44	132	183	99
4	189	96	27	1,540	737	9,140	737	3,420	55	115	162	172
5	1,880	55	31	1,360	677	5,910	1,420	3,260	55	115	162	272
6	2,200	61	31	817	797	5,960	927	2,900	68	85	132	242
7	717	61	850	797	1,330	7,700	1,160	2,520	44	85	115	86
8	717	55	2,230	597	1,160	10,000	3,260	2,410	44	71	85	130
9	971	50	918	377	2,230	10,900	2,900	6,240	44	64	71	395
10	797	40	395	347	1,840	8,350	817	4,340	55	64	52	485
11	1,090	96	246	332	2,230	6,180	485	2,230	44	58	64	362
12	521	68	395	332	2,420	5,800	449	1,570	44	58	115	142
13	377	61	1,020	362	3,700	5,800	1,640	2,940	693	58	162	183
14	302	68	1,120	539	3,700	4,080	6,880	2,630	2,460	110	172	123
15	246	162	971	637	3,900	3,300	7,890	1,570	764	788	52	82
16	287	61	617	431	3,990	3,060	6,240	1,360	302	7,710	37	61
17	757	40	362	362	4,080	2,860	3,940	949	194	6,820	31	44
18	717	55	233	317	3,540	2,660	3,900	617	577	2,800	27	44
19	777	55	183	317	2,940	3,460	7,040	317	557	1,750	23	44
20	757	61	194	347	2,460	2,900	10,800	246	737	1,420	23	88
21	717	44	1,420	332	2,260	2,660	12,700	207	1,430	757	23	132
22	597	44	2,520	332	2,140	2,490	13,200	207	3,740	521	27	68
23	431	34	2,660	362	2,080	2,320	13,000	183	3,180	777	27	44
24	395	34	2,560	828	2,080	2,140	12,000	172	1,810	797	27	34
25	287	34	1,510	2,360	2,020	2,140	11,400	142	717	395	31	31
26	183	34	3,220	2,980	1,990	2,020	10,500	115	233	259	47	31
27	107	34	3,420	2,490	1,960	1,930	10,000	96	183	172	27	40
28	88	34	3,780	2,170	2,170	1,840	9,620	96	172	172	27	107
29	144	31	4,260	2,080	-------	1,660	8,900	82	233	152	27	40
30	1,140	31	3,180	2,020	-------	1,840	8,150	74	233	194	27	115
31	1,300	-------	2,200	1,630	-------	1,840	--------	61	-------	132	27	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	2,200	55	609	37,400
November	259	31	68.1	4,050
December	4,260	27	1,310	80,600
January	2,980	317	1,050	64,800
February	4,080	677	2,190	121,000
March	10,900	1,660	4,610	283,000
April	13,200	449	5,790	344,000
May	7,140	61	1,840	113,000
June	3,740	44	627	37,300
July	7,710	58	870	53,500
August	183	23	73.4	4,510
September	485	23	126	7,480
The year	13,200	23	1,590	1,150,000

TRINITY RIVER NEAR OAKWOOD, TEX.

LOCATION.—Chain gage on International & Great Northern Railway bridge 4 miles northeast of Oakwood, Anderson County.

DRAINAGE AREA.—12,800 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 29,200 second-feet April 23 (gage height, 40.5 feet); minimum, 58 second-feet October 1–3 (gage height, 3.8 feet).

1923–1927: Maximum discharge, about 50,800 second-feet December 25 and 26, 1923 (gage height, 43.3 feet); minimum, probably less than 28 second-feet in August, 1925.

On June 4, 1908, river reached stage of about 53.5 feet.

REMARKS.—Monthly records fair. Daily-discharge record not sufficiently accurate for publication. No diversions above station. Gage-height record furnished by United States Weather Bureau.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	5,260	58	1,430	87,900
November	2,830	326	932	55,500
December	15,700	251	6,200	381,000
January	13,800	1,390	5,400	332,000
February	12,600	2,870	7,140	396,000
March	28,600	3,200	12,400	762,000
April	29,200	2,530	14,500	864,000
May	23,400	665	9,660	594,000
June	13,800	429	5,700	339,000
July	7,920	280	2,690	166,000
August	1,060	92	296	18,200
September	429	86	243	14,500
The year	29,200	58	5,540	4,010,000

TRINITY RIVER AT RIVERSIDE, TEX.

LOCATION.—Chain gage on International & Great Northern Railway bridge at Riverside, Walker County. Zero of gage is 93.7 feet above mean sea level.

DRAINAGE AREA.—15,500 square miles.

RECORDS AVAILABLE.—January, 1903, to December, 1906; October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 56,300 second-feet April 15 (gage height, 36.2 feet; from graph based on daily gage readings); minimum, 170 second-feet September 6–10 (gage height, 0.60 foot).

1903–1906, 1923–1927: Maximum discharge, about 63,300 second-feet April 23, 1926 (gage height, 38.1 feet); minimum, 70 second-feet August 20–26 and September 8–13, 1925 (gage height, 0.2 foot).

The United States Weather Bureau records show stage of 49.7 feet (present datum) June 11, 1908.

REMARKS.—Monthly records fair. Daily-discharge record not sufficiently accurate for publication. No diversion of importance. Gage-height records furnished by the United States Weather Bureau.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	6,100	210	2,110	130,000
November	3,640	695	1,790	106,000
December	21,900	470	9,840	605,000
January	16,100	3,160	7,730	475,000
February	18,200	4,820	9,760	542,000
March	36,500	5,330	17,400	1,070,000
April	47,800	4,310	17,500	1,040,000
May	23,400	1,360	12,700	779,000
June	16,700	875	6,760	402,000
July	9,750	505	3,940	242,000
August	3,000	210	643	39,600
September	505	170	314	18,700
The year	47,800	170	7,530	5,450,000

TRINITY RIVER AT ROMAYOR, TEX.

LOCATION.—Chain gage on Gulf, Colorado & Santa Fe Railway bridge one-fourth mile west of Romayor, Liberty County. Gage reading indicates distance between base of rail and water surface. Zero of gage is 89.00 feet above mean sea level.

DRAINAGE AREA.—17,200 square miles.

RECORDS AVAILABLE.—May, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 40,900 second-feet April 18 (gage height, −22.84 feet); minimum, 390 second-feet September 13 and 14 (gage height, −52.25 feet).

1924–1927: Maximum discharge, 46,900 second-feet April 26 and 27, 1926 gage height, −20.90 feet); minimum, 132 second-feet August 21 and 22, 1925 (gage height, −53.46 feet).

Stage of −16.3 feet (present datum) reached June, 1908, from records of United States Engineer Corps.

REMARKS.—Records fair. No large diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	540	3,090	930	15,900	4,670	5,990	7,310	23,400	1,900	10,400	4,750	490
2	540	2,420	930	14,800	5,810	7,940	6,620	23,200	1,690	9,900	3,160	490
3	465	2,060	930	14,700	6,080	6,530	6,620	22,600	1,640	8,270	2,540	490
4	465	2,000	930	14,600	5,990	6,530	7,010	22,200	1,490	6,710	2,300	490
5	465	2,420	860	13,900	5,900	6,620	7,940	21,800	1,440	5,630	2,060	490
6	465	2,060	720	12,700	5,990	6,620	8,600	21,600	1,340	4,910	1,640	440
7	440	2,300	790	10,400	6,530	6,440	8,820	21,600	1,340	3,790	1,540	440
8	440	2,540	1,340	8,270	6,440	11,300	7,830	21,400	1,490	2,670	1,540	440
9	440	2,670	1,950	6,350	6,350	26,600	7,010	20,100	1,950	3,090	1,200	440
10	440	2,540	3,680	5,630	6,620	28,600	6,170	19,500	3,300	4,430	1,120	415
11	440	2,180	11,800	4,590	9,780	28,200	4,670	19,000	4,270	3,230	1,000	390
12	415	2,060	17,700	3,720	12,800	26,100	5,000	18,800	5,270	2,000	930	390
13	440	2,060	15,700	3,650	20,700	25,200	5,810	21,000	5,810	1,640	720	390
14	440	1,950	14,300	4,030	22,600	24,000	8,980	21,000	5,000	1,440	660	390
15	440	1,440	12,900	4,590	21,400	21,400	26,500	18,600	4,830	1,300	600	415
16	660	1,640	10,600	4,110	19,000	20,400	35,800	14,800	4,590	1,200	540	465
17	1,250	2,060	9,420	3,370	16,400	18,800	39,700	12,700	3,790	1,080	515	465
18	2,240	2,060	7,940	3,440	14,800	18,000	40,600	11,200	4,750	965	490	490
19	2,480	1,740	6,710	4,350	13,700	18,000	37,300	11,500	6,440	860	490	570
20	3,020	1,250	4,270	7,010	13,300	18,400	30,700	11,900	9,300	860	465	630
21	2,740	1,200	4,190	7,110	12,700	20,000	27,200	12,700	12,100	790	465	600
22	2,740	1,300	4,110	6,170	11,700	26,100	25,200	12,500	14,500	1,240	465	600
23	2,670	1,250	6,680	6,170	10,700	31,700	26,300	10,600	16,400	2,740	465	630
24	2,670	1,080	13,400	7,610	8,270	34,100	26,500	6,810	17,600	4,110	465	630
25	2,810	1,040	22,200	11,000	7,110	34,700	26,100	4,590	16,400	7,410	465	600
26	3,230	1,080	25,200	13,100	6,170	32,500	25,200	3,650	14,500	7,720	490	540
27	3,720	1,340	25,000	12,800	5,630	29,900	24,200	3,230	11,000	7,940	515	540
28	4,590	1,160	24,200	11,800	5,270	24,600	23,800	2,810	10,300	8,160	540	540
29	5,090	1,120	21,800	9,060	-------	16,200	23,800	2,670	9,900	8,600	515	540
30	5,450	1,080	19,600	8,600	-------	10,900	23,600	2,420	10,400	8,050	515	515
31	4,590	-------	17,200	6,970	-------	8,050	-------	2,240	-------	6,440	490	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	5,450	415	1,830	113,000
November	3,090	1,040	1,810	107,000
December	25,200	720	9,930	611,000
January	15,900	3,370	8,400	517,000
February	22,600	5,270	10,400	580,000
March	34,700	5,990	19,400	1,190,000
April	40,600	4,670	18,700	1,110,000
May	23,400	2,240	14,300	877,000
June	17,600	1,340	6,820	406,000
July	10,400	790	4,440	273,000
August	4,750	465	1,080	66,700
September	630	390	498	29,700
The year	40,600	390	8,130	5,880,000

CLEAR FORK OF TRINITY RIVER AT FORT WORTH, TEX.

LOCATION.—Water-stage recorder at Texas & Pacific Railway bridge 3 miles southwest of Tarrant County courthouse in Fort Worth.

DRAINAGE AREA.—522 square miles.

RECORDS AVAILABLE.—March, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year not determined; no flow during several periods.

1924–1927: Maximum discharge, about 7,400 second-feet May 7, 1925; no flow for several periods.

REMARKS.—Records for low stages good; for high stages poor. Discharge estimated October 16, April 28, September 30, and periods for which braced figures are given. Practically all low flow diverted 800 feet below gage by Texas & Pacific Railway; amount not known. Low flow regulated by dam just above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	0.8	3.4	4.8	4.7	3.8		18	3.4	2.5	0	0
2	2.3	.7	3.6	4.8	5.0	8.0		15	3.1	2.4	0	0
3	2.3	.8	3.6	4.8	6.0	4.4		14	2.9	2.1	0	0
4	11	1.2	3.8	5.0	7.0	4.1		12	2.8	1.9	0	0
5	97	1.3	3.8	5.0	10	4.0		12	2.5	1.8	.1	0
6	32	1.6	4.1	6.0	10	4.0		11	2.4	1.6	0	0
7	7.0	1.5	14	9.0	12	113		10	2.7	1.3	0	0
8	4.6	1.9	14	8.0	12	170		8.0	2.7	1.1	0	0
9	3.5	1.5	13	9.0	22	25		8.0	2.9	.9	0	0
10	3.3	.9	7.0	7.0	13	14		6.0	2.7	1.1	0	0
11	2.7	1.1	4.7	7.0		14		5.0	2.4	.1	0	0
12	2.8	1.3	4.7	6.0		96		4.8	2.3	1.7	0	0
13	2.8	1.5	4.6	8.0	14	28		15	2.2	2.7	0	0
14	2.0	1.2	4.1	7.0		15		18	2.1	.4	0	0
15	2.1	2.5	4.0	11	14	15	300	11	3.6	0	0	0
16	3.0	15	4.0	6.0	13			7.0	4.1	0	0	0
17	4.0	5.0	4.0	4.4	12			7.0	3.6	0	0	0
18	4.1	4.4	3.8	4.1	7.0			6.0	3.3	0	0	0
19	3.0	4.2	4.2	4.0	7.0			4.7	3.3	0	0	69
20	3.0	3.5	4.6	3.8	6.0			4.7	3.4	0	0	4.0
21	2.2	1.5	5.0	4.0	6.0			4.6	238	0	0	1.2
22	1.8	1.3	78	3.3	6.0			4.6	84	0	0	0
23	1.6	1.6	20	3.3	6.0			4.4	12	0	0	0
24	2.0	2.2	9.0	3.4	6.0	162		4.2	4.4	0	0	0
25	1.5	3.0	7.0	3.5	4.7			4.1	3.6	0	0	0
26	1.5	2.4	5.0	5.0	4.2			4.0	3.5	0	0	0
27	1.3	1.5	4.8	10	3.8			4.0	3.5	0	0	0
28	1.2	1.9	4.8	4.7	3.6		40	4.0	3.3	0	0	.2
29	1.1	3.1	4.8	4.6	------		30	3.8	2.9	0	0	
30	1.0	3.0	5.0	4.7	------		22	2.8	2.8	0	0	.2
31	.9	------	5.0	4.8	------		------	3.6	------	0	0	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	97	0.9	6.79	418
November	15	.7	2.45	146
December	78	3.4	8.43	518
January	11	3.3	5.68	349
February	22	3.6	9.18	510
March	------	3.8	100	6,170
April	------	22	273	16,200
May	18	2.8	7.78	479
June	238	2.1	13.9	826
July	2.7	0	.70	43
August	.1	0	0	0
September	69	0	2.49	148
The year	------	0	35.7	25,800

VILLAGE CREEK NEAR HANDLEY, TEX.

LOCATION.—Staff gage at Fort Worth-Webb road crossing 3½ miles south of Handley, Tarrant County.
DRAINAGE AREA.—130 square miles.
RECORDS AVAILABLE.—June, 1925, to September, 1927.
EXTREMES.—Maximum discharge during year, 1,210 second-feet during night of April 18 (gage height, 6.1 feet); no flow during several periods.
1925–1927: Maximum discharge, about 4,180 second-feet May 19, 1926 (gage height, 11.5 feet); no flow during several periods.
REMARKS.—Monthly records poor. Daily-discharge record not sufficiently accurate for publication. No diversion above station.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1.0	0	0.20	12.3
November	11	0	.65	38.9
December	1.0	.4	.64	39.5
January	1.0	.4	.73	45.0
February	33	1.0	5.05	281
March	371	.5	14.3	880
April	377	.4	29.1	1,730
May	139	0	14.7	905
June	39	0	3.93	234
July	19	0	.97	59.7
August	140	0	12.9	794
September	116	0	11.6	688
The year	377	0	7.88	5,710

MOUNTAIN CREEK NEAR GRAND PRAIRIE, TEX.

LOCATION.—Water-stage recorder at Grand Prairie-Duncanville highway bridge 3½ miles southeast of Grand Prairie, Dallas County.
DRAINAGE AREA.—267 square miles.
RECORDS AVAILABLE.—March, 1925 to September, 1927.
EXTREMES.—Maximum discharge during year, about 3,030 second-feet March 8 (gage height, 17.94 feet); no flow during several periods.
1925–1927: Maximum discharge, about 3,300 second-feet May 9, 1925; maximum stage, 18.00 feet April 22, 1926; no flow during several periods.
REMARKS.—Monthly records fair. Daily-discharge record not sufficiently accurate for publication. No diversion above station.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
December	5.5	0	0.23	13.9
February	2.3	0	.38	21.0
March	2,030	0	115	7,060
April	1,190	.8	117	6,980
May	1,330	.6	122	7,480
June	244	0	19.6	1,160
July	5.1	0	.19	11.9
August	7.8	0	.53	32.7
September	27	0	2.80	167
The year	2,030	0	31.7	22,900

NOTE.—No flow during October, November, and January.

ELM FORK OF TRINITY RIVER NEAR DENTON, TEX.

LOCATION.—Chain gage on Texas & Pacific Railway bridge 6 miles northeast of Denton, Denton County. Zero of gage is 500.62 feet above mean sea level.

DRAINAGE AREA.—1,100 square miles.

RECORDS AVAILABLE.—November, 1923, to January, 1927. Gage-height record obtained to March, 1927, when station was discontinued because of backwater from Garza Dam.

EXTREMES.—Maximum discharge during period, 6,870 second-feet December 21 (gage height, 26.5 feet); minimum, 10 second-feet November 12 (gage height 0.98 foot).

1924–1927: Maximum discharge, 8,330 second-feet March 20, 1924 (gage height, 29.05 feet); no flow for several periods.

The flood during 1908 reached a stage of 31.53 feet.

REMARKS.—Records poor. Daily discharge to March 5 for days for which no discharge is shown was not computed because of backwater from Garza Dam. The railroad diverts 100,000 gallons a day just above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Day	Oct.	Nov.	Dec.	Jan.
1	22	40	20	-------	16	357	119	38	122
2	19	30	20	-------	17	142	38	34	114
3	27	20	19	163	18	81	24	36	122
4	1,388	18	20	130	19	53	19	36	107
5	743	16	20	114	20	43	16	347	107
6	153	15	44	107	21	34	14	6,010	107
7	60	14	919	100	22	28	15	-------	114
8	40	13	970	100	23	25	16	-------	346
9	32	13	444	93	24	22	16	-------	5,120
10	34	12	130	87	25	22	17	-------	-------
11	206	11	93	81	26	20	16	-------	-------
12	110	11	72	81	27	18	16	-------	-------
13	88	12	60	164	28	17	25	-------	-------
14	130	33	50	359	29	24	22	-------	-------
15	732	247	43	183	30	135	20	-------	-------
					31	63	-------	-------	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,388	17	157	9,660
November	247	11	29.9	1,780
December 1–21	6,010	19	449	18,700
January 3–24	5,120	81	365	15,900

ELM FORK OF TRINITY RIVER NEAR CARROLLTON, TEX.

LOCATION.—Staff gage just above Carrollton Dam 40 feet below Dallas-Denton highway bridge and 1½ miles west of Carrollton, Dallas County.
DRAINAGE AREA.—2,540 square miles.
RECORDS AVAILABLE.—November, 1923, to September, 1927.
EXTREMES.—Maximum discharge during year, 15,200 second-feet July 15 (gage height, 8.60 feet); no flow September 25–27.
1923–1927: Maximum discharge not determined; maximum gage height, 12.75 feet December 14, 1923; no flow during several periods.
REMARKS.—Records fair. No diversions. Garza Dam, 20 miles upstream, regulates flow at low stages and partly regulates flows at high stages.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	110	9.4	1,200	447	9,120	1,070	3,180	37	55	46	8.0
2	43	52	9.4	1,360	447	10,400	539	3,040	37	55	125	17
3	43	40	9.4	1,360	447	3,910	418	3,040	34	52	174	195
4	76	34	9.4	1,110	447	2,900	303	2,900	32	49	100	187
5	1,880	27	9.4	847	447	2,630	572	2,760	32	49	62	68
6	607	27	19	704	774	2,370	506	2,250	32	46	49	65
7	199	27	1,890	671	1,110	3,180	298	1,910	32	43	40	46
8	157	27	1,070	308	1,110	4,420	1,370	1,300	32	43	27	34
9	149	27	476	282	1,420	3,460	241	1,300	32	43	25	27
10	672	27	199	277	1,420	2,630	195	1,200	32	43	23	30
11	412	27	125	264	1,800	2,760	157	1,160	32	43	32	32
12	145	27	121	264	3,040	3,610	157	1,160	32	43	65	30
13	141	27	107	427	2,760	2,900	1,730	1,420	1,290	43	34	27
14	141	83	79	447	2,500	2,370	5,590	1,110	1,090	43	19	25
15	141	62	68	383	2,370	2,250	4,420	1,030	241	9,260	8.0	17
16	293	32	40	324	2,370	2,130	2,250	810	104	3,870	2.9	6.8
17	245	27	37	282	2,370	2,130	1,800	447	55	1,160	2.9	2.9
18	241	27	34	282	2,370	2,630	3,170	204	55	1,110	2.9	17
19	241	27	32	282	2,250	2,630	8,380	90	79	774	2.9	17
20	236	27	221	282	2,020	2,250	7,850	82	199	153	2.9	9.4
21	204	27	1,910	282	2,020	2,020	7,350	82	1,480	104	2.9	9.4
22	199	21	2,370	287	1,910	2,020	6,410	76	2,630	86	4.6	8.0
23	213	14	2,250	444	1,910	1,910	5,790	76	1,580	514	12	1.1
24	153	9.4	2,250	1,470	1,910	1,910	5,190	76	1,050	145	30	.7
25	65	9.4	1,580	2,370	1,910	1,800	4,420	76	149	76	32	.1
26	27	9.4	1,470	2,500	1,910	1,800	3,760	68	79	55	15	.0
27	21	9.4	1,420	2,370	1,800	1,580	3,460	46	65	55	5.6	.4
28	17	9.4	1,690	774	2,020	1,360	3,320	37	62	55	2.2	4.6
29	15	9.4	1,580	605	-------	1,420	3,320	37	58	55	.7	4.6
30	1,470	9.4	1,470	539	-------	1,300	3,180	37	55	52	.2	2.9
31	410	-------	1,420	476	-------	1,250	-------	37	-------	49	2.9	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,880	15	287	17,600
November	110	9.4	29.7	1,770
December	2,370	9.4	773	47,600
January	2,500	264	757	46,600
February	3,040	447	1,690	93,800
March	10,400	1,250	2,870	177,000
April	8,380	157	2,910	173,000
May	3,180	37	1,000	61,600
June	2,630	32	357	21,300
July	9,260	43	588	36,100
August	174	.2	30.7	1,890
September	195	.0	29.8	1,770
The year	10,400	.0	939	680,000

ELM FORK OF TRINITY RIVER NEAR DALLAS, TEX.

LOCATION.—Staff gage at city of Dallas pumping plant and dam 2,800 feet above Rock Island Railroad bridge and 5 miles northwest of Dallas, Dallas County.

DRAINAGE AREA.—2,660 square miles.

RECORDS AVAILABLE.—October, 1920, to September, 1927.

EXTREMES.—Maximum discharge during year not determined; maximum gage height, 15.10 feet (affected by backwater from Trinity River, April 21; no flow during several periods.

1920–1927: Maximum discharge not determined; maximum gage height, 20.20 feet (affected by backwater from Trinity River) April 27, 1922; no flow during several periods.

REMARKS.—Records for low stages good, and those for other stages fair. Some water diverted for municipal use; the amount diverted is believed to be but a small percentage of run-off during years of ordinary flow. Flow partly regulated by reservoirs upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	209	0	1,490	450	3,990	1,330	3,740	29	45	17	0
2	2.0	79	0	1,410	422	6,770	705	2,630	25	45	23	0
3	2.0	55	0	1,330	406	10,500	450	2,540	25	34	133	0
4	114	25	0	1,330	450	6,230	300	2,460	21	34	110	59
5	1,760	15	0	970	450	2,290	1,020	2,460	21	42	58	113
6	1,060	17	0	742	570	2,130	510	2,130	29	29	32	42
7	268	17	961	705	1,330		406	2,050	25	34	15	39
8	152	14	1,650	330	1,010	4,100	2,090	1,410	21	21	8.3	27
9	168	10	635	254	1,810		602	2,970	17	32	1.1	21
10	1,090	8.3	268	245	1,490	4,670	245	1,410	15	25	0	17
11	245	8.3	152	209	1,650	1,490	192	1,250	15	21	14	14
12	152	8.3	148	222	2,290	3,140	160	1,730	12	25	55	10
13	140	8.3	132	300	2,540	2,630	1,220	1,650	376	21	45	10
14	140	12	120	510	2,290	2,130	4,840	1,250	1,810	21	7.2	7.2
15	120	99	58	384	2,050	2,050	5,960	1,090	406	2,050	1.7	3.2
16	236	37	39	300	1,970	1,970	3,310	1,010	152	6,500	.5	1.7
17	290	25	32	268	1,970	1,970	1,810	570	102	7,150	.3	0
18	236	18	25	254	1,970	1,970	1,810	315	79	1,570	0	0
19	222	5.0	32	245	1,810	2,540	6,230	120	50	1,090	0	0
20	209	3.2	50	245	1,810	2,130		92	180	254	0	0
21	192	1.4	1,130	245	1,810	1,970		96	705	152	0	0
22	160	.3	2,130	245	1,810	1,970		92	2,460	124	0	0
23	140	0	2,130	281	1,810	1,890		79	1,650	570	0	0
24	120	0	1,970	818	1,810	1,810	6,000	70	1,490	180	0	0
25	85	0	1,810	2,130	1,810	1,730		67	281	92	0	0
26	61	0	1,490	2,540	1,730	1,730		55	102	58	0	0
27	12	.5	1,490	1,810	1,730	1,650		47	67	37	0	0
28	2.0	.3	1,650	970	1,730	1,490		39	45	67	0	0
29	2.0	.3	1,650	705	-------	1,410	5,600	34	45	64	0	0
30	1,540	0	1,570	570	-------	1,410	4,670	29	52	55	0	0
31	905	-------	1,490	510	-------	1,330	-------	29	-------	25	0	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,760	2.0	317	19,500
November	209	0	22.5	1,340
December	2,130	0	736	45,200
January	2,540	209	728	44,800
February	2,540	406	1,530	85,200
March	10,500	1,330	2,880	177,000
April	-------	160	3,250	193,000
May	3,740	29	1,080	66,500
June	2,460	12	344	20,400
July	7,150	21	660	40,600
August	133	0	16.8	1,030
September	113	0	12.1	722
The year	10,500	0	961	695,000

DENTON CREEK NEAR ROANOKE, TEX.

LOCATION.—Chain gage on Fort Worth-Denton highway bridge 3 miles north of Roanoke, Denton County.

DRAINAGE AREA.—704 square miles.

RECORDS AVAILABLE.—October, 1923, to December, 1927, when station was discontinued.

EXTREMES.—Maximum discharge during period October 1, 1926, to December 31, 1927, 6,750 second-feet April 19 (gage height, 14.1 feet); no flow during several periods.

1923–1927: Maximum discharge, about 14,300 second-feet December 12, 1923 (gage height, 20.65 feet); no flow for several periods.

Highest known flood, 26 feet in April, 1922.

REMARKS.—Records poor. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926–27												
1	0	9	2.4	45	84	4,680	109	129	8.8	2.0	172	0
2	0	2.1	2.2	42	84	1,330	89	119	7.9	2.6	139	.3
3	.9	.8	2.4	38	79	832	79	109	6.7	3.0	89	161
4	170	.7	2.1	37	74	333	67	99	6.4	2.6	48	53
5	107	.6	2.1	32	69	240	61	94	6.4	2.1	27	20
6	11	.6	2.4	31	165	196	58	84	6.4	1.6	16	13
7	17	.4	72	30	129	1,060	67	79	6.0	1.4	9.7	6.7
8	22	.3	86	25	259	1,290	70	70	5.6	1.1	6.0	1.7
9	9.8	.2	39	23	292	529	64	62	5.2	.8	4.4	.8
10	6.4	.1	9.8	22	458	292	74	52	4.8	.6	3.0	.6
11	4.2	.1	22	19	549	224	84	45	4.2	.6	1.9	.5
12	2.6	.0	33	18	656	421	70	291	3.9	.5	1.3	.4
13	1.9	.3	23	71	294	240	1,070	174	4.4	.4	.9	.3
14	1.1	.6	13	104	184	184	2,160	89	41	4.5	.8	.2
15	135	.7	7.3	60	150	161	487	59	44	302	.6	.2
16	86	24	6.7	47	124	150	333	47	30	172	.4	.2
17	50	4.7	6.2	38	109	139	312	43	23	210	.2	.1
18	29	2.1	4.7	40	89	210	3,110	41	21	119	.1	0
19	20	.8	4.2	36	79	172	4,720	39	19	68	0	0
20	15	.4	45	31	84	150	2,780	37	32	56	.1	0
21	12	.3	672	33	79	139	2,660	37	52	42	.1	0
22	6.2	.2	656	37	79	129	2,010	34	67	25	.1	0
23	3.8	.2	929	41	74	124	2,060	32	40	17	.2	0
24	2.9	.1	497	379	66	114	742	28	20	15	.2	0
25	2.4	.1	184	628	61	104	458	24	11	14	.1	0
26	2.1	.0	150	339	56	99	274	21	5.6	62	0	0
27	1.6	.8	94	312	51	94	210	18	3.7	55	0	0
28	1.1	1.1	79	196	1,130	89	184	16	3.2	43	0	0
29	.7	1.6	70	161	-------	139	161	14	4.2	34	0	0
30	20	2.1	58	129	-------	119	139	12	3.7	31	0	0
31	28	-------	50	104	-------	139	-------	10	-------	94	0	-------

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1927				1927				1927			
1	249	0.8	3.2	11	270	0.3	3.9	21	3.0	0.3	3.5
2	109	.8	3.5	12	104	.2	3.5	22	2.3	.2	3.0
3	84	.8	2.8	13	53	.2	1,040	23	1.9	.2	3.2
4	44	.7	3.0	14	30	.2	261	24	1.7	.2	3.0
5	5.2	.6	4.2	15	18	.2	72	25	1.5	.2	3.5
6	2.6	.5	4.2	16	10	.2	15	26	1.3	.2	3.5
7	1.6	.5	4.4	17	15	.2	8.3	27	1.1	1.5	3.9
8	155	.4	4.4	18	6.7	.2	6.0	28	1.1	3.0	1,120
9	124	.4	4.8	19	4.4	.2	3.9	29	.9	3.5	199
10	184	.3	5.2	20	3.5	.2	3.5	30	.8	3.5	79
								31	.8	-------	42

Monthly discharge of Denton Creek near Roanoke, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1926–27				
October	170	0	24.8	1,530
November	24	0	1.83	109
December	929	2.1	123	7,590
January	628	18	102	6,240
February	1,130	51	200	11,100
March	4,680	89	456	28,000
April	4,720	58	825	49,100
May	291	10	64.8	3,980
June	67	3.2	16.6	986
July	302	.4	44.6	2,740
August	172	0	16.8	1,030
September	161	0	8.63	514
The year	4,720	0	156	113,000
1927				
October	270	.8	48.0	2,950
November	3.5	.2	.69	41
December	1,120	2.8	94.2	5,790

EAST FORK OF TRINITY RIVER NEAR ROCKWALL, TEX.

LOCATION.—Chain gage on State highway bridge 3 miles southwest of Rockwall, Rockwall County.

DRAINAGE AREA.—831 square miles.

RECORDS AVAILABLE.—November, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,900 second-feet July 15 (gage height, 17.25 feet); minimum, 0.2 second-foot September 27 and 28 (gage height, 0.80 foot).

1923–1927: Maximum discharge, 23,000 second-feet July 14, 1926 (gage height, 18.98 feet); no flow for several periods.

The highest flood known, about 25 feet in spring of 1922.

REMARKS.—Records fair. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	656	42	458	413	3,350	570	340	49	107	163	4.4
2	16	155	39	380	380	11,200	544	300	44	203	147	3.9
3	15	107	39	350	413	5,400	270	280	39	163	76	24
4	12	80	37	330	402	1,970	203	270	37	99	52	44
5	28	66	37	300	360	896	187	260	52	62	46	22
6	99	52	37	270	794	687	203	240	44	46	37	51
7	72	49	98	260	1,970	2,050	203	220	39	42	87	123
8	33	115	544	240	1,970	2,750	1,570	203	39	37	46	95
9	22	142	817	220	980	2,900	5,140	980	39	35	31	33
10	50	58	458	195	1,080	1,530	4,880	3,800	35	29	31	17
11	100	42	300	179	1,600	966	1,870	4,000	33	26	22	12
12	391	37	203	171	1,530	1,530	470	2,180	29	23	20	8.7
13	320	35	187	230	1,140	1,780	570	494	35	22	22	6.7
14	107	37	155	424	804	893	2,300	340	284	34	24	4.9
15	55	736	123	413	609	482	7,200	260	350	5,070	26	4.4
16	42	1,000	95	240	446	424	7,200	260	155	10,000	23	4.4
17	42	774	87	211	391	391	3,420	270	107	12,800	19	3.9
18	44	144	83	240	340	380	1,140	195	387	8,250	16	3.5
19	46	72	107	240	310	531	830	171	187	2,240	14	2.1
20	62	62	196	230	280	583	1,460	155	91	147	12	2.1
21	46	52	1,390	230	270	494	5,140	139	1,220	87	12	1.4
22	35	49	5,140	300	260	544	4,220	131	2,600	66	9.6	1.4
23	24	46	5,980	583	260	370	4,000	123	2,600	413	8.7	.8
24	22	46	1,680	948	250	310	2,900	115	3,250	1,100	8.1	.8
25	20	46	778	1,870	220	280	1,680	107	464	839	8.1	.7
26	20	46	674	2,900	203	260	1,970	95	155	171	8.1	.5
27	19	46	966	2,900	187	240	1,250	87	123	91	7.5	.2
28	19	46	1,600	1,970	356	220	648	80	95	207	6.7	.2
29	116	44	2,180	894	-------	582	482	69	83	635	6.2	2.1
30	1,100	44	1,970	687	-------	330	402	62	72	187	5.7	4.4
31	2,750	-------	745	544	-------	280	-------	55	-------	91	5.3	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	2,750	12	185	11,400
November	1,000	35	163	9,690
December	5,980	37	864	53,100
January	2,900	171	626	38,500
February	1,970	187	649	36,000
March	11,200	220	1,440	88,500
April	7,200	187	2,100	125,000
May	4,000	55	525	32,300
June	3,250	29	425	25,300
July	12,800	22	1,400	85,900
August	163	5.3	32.3	1,980
September	123	.2	16.1	957
The year	12,800	.2	702	509,000

SAN JACINTO RIVER BASIN

SAN JACINTO RIVER NEAR CONROE, TEX.

LOCATION.—Inverted staff gage at International & Great Northern Railway bridge 4 miles south of Conroe, Montgomery County.

DRAINAGE AREA.—832 square miles.

RECORDS AVAILABLE.—May, 1924, to September, 1927, when station was discontinued.

EXTREMES.—Maximum discharge during year, about 32,700 second-feet April 17 (gage height, −5.98 feet); minimum, 24 second-feet November 7 (gage height, −23.73 feet).

1924–1927: Maximum discharge, not determined; maximum stage, −1.0 foot April 22, 1926; minimum discharge, 11 second-feet August 17, 19, 21, and 22, 1925.

REMARKS.—Monthly records poor. Record of daily discharge not sufficiently accurate for publication. No diversion above station.

Monthly discharge of San Jacinto River near Conroe, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	40	26	32.9	2,030
November	45	24	30.2	1,800
December	8,200	42	876	53,900
January	970	60	204	12,500
February	880	105	299	16,600
March	8,100	60	1,690	104,000
April	29,500	63	2,200	131,000
May	1,450	48	327	20,100
June	10,300	60	1,100	65,300
July	612	51	199	12,300
August	208	45	67.0	4,120
September	40	35	36.5	2,170
The year	29,500	24	588	426,000

BRAZOS RIVER BASIN

DOUBLE MOUNTAIN FORK OF BRAZOS RIVER NEAR ASPERMONT, TEX.

LOCATION.—Chain gage on Aspermont-Hamlin highway bridge in the southeast corner of section 134, 11 miles south of Aspermont, Stonewall County.

DRAINAGE AREA.—7,980 square miles, a large part of which is probably noncontributing.

RECORDS AVAILABLE.—December, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year determined by slope-area method, about 45,800 second-feet October 15 (gage height, 18.14 feet, from floodmarks); no flow during several periods.

1924–1927: Maximum discharge, that of October 15, 1926; no flow during several periods.

REMARKS.—Monthly records poor. Record of daily discharge not sufficiently accurate for publication. No diversion above station.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	24,700	118	2,640	162,000
November	149	32	72.4	4,310
December	726	29	179	11,000
January	61	20	28.8	1,770
February	241	20	53.7	2,980
March	93		22.4	1,380
April	370	3.0	67.0	3,990
May	185	0	11.2	688
June	1,700	1.9	273	16,200
July	3,380	1.3	365	22,400
August	2,410	0	135	8,310
September	1,100	0	75.2	4,470
The year	24,700	0	331	239,000

BRAZOS RIVER AT SEYMOUR, TEX.

LOCATION.—Chain gage on Wichita Valley highway bridge three-fourths of a mile above Wichita Valley Railroad bridge and 1 mile southwest of courthouse in Seymour, Baylor County.

DRAINAGE AREA.—14,500 square miles, a large part of which is probably noncontributing.

RECORDS AVAILABLE.—November, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 52,100 second-feet October 16 (gage height, 15.16 feet, from floodmarks); no flow during several periods.

1924–1927: Maximum discharge, that of October 16, 1926; no flow during several periods.

REMARKS.—Monthly records poor. Record of daily discharge not sufficiently accurate for publication. No diversion above station.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	38,900	284	3,450	212,000
November	510	0	151	8,960
December	582	0	159	9,760
January	252	81	159	9,770
February	444	30	123	6,830
March	52	11	31.0	1,910
April	81	26	50.6	3,010
May	505	0	142	8,700
June	1,860	155	533	31,700
July	4,510	0	516	31,700
August	152	0	21.8	1,340
September	380	0	69.3	4,120
The year	38,900	0	456	330,000

BRAZOS RIVER NEAR MINERAL WELLS, TEX.

LOCATION.—Chain gage on Mineral Wells-Palo Pinto highway bridge 4 miles west of Mineral Wells, Palo Pinto County.

DRAINAGE AREA.—23,100 square miles, a large part of which is probably noncontributing.

RECORDS AVAILABLE.—January, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, not determined; maximum gage height, 17.35 feet October 18; minimum discharge, 14 second-feet June 3.

1924–1927: Maximum discharge not determined; maximum stage, that of October 18, 1926; no flow for several periods.

REMARKS.—Records poor. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.
1	129	712	137	585	294	1,920	804	412	18	470	1,520	31
2	109	712	129	507	267	3,340	546	350	16	419	902	109
3	1,960	626	122	448	235	1,650	300	294	14	412	804	119
4	9,960	585	119	391	225	1,120	240	250	97	370	546	230
5	2,940	507	115	350	215	955	200	215	712	278	357	724
6	13,500	507	222	313	278	804	155	200	758	205	272	1,380
7	6,220	448	1,920	284	350	712	119	177	902	160	215	666
8	3,360	419	11,600	256	300	626	302	155	585	164	164	500
9	2,350	405	5,540	225	267	1,010	902	109	440	182	119	278
10	1,910	391	5,540	205	546	955	585	78	546	370	76	195
11	2,520	391	3,600	186	585	758	391	64	384	284	66	126
12	1,780	433	2,040	177	902	585	405	95	267	220	59	89
13	1,460	384	1,650	205	1,010	419	962	426	210	293	51	210
14	1,880	363	1,180	191	902	377	12,200	398	325	5,590	37	215
15	5,880	332	1,010	169	758	325	6,730	325	1,720	5,920	31	164
16	6,360	306	804	160	902	289	2,480	289	22,60	2,150	30	133
17	26,000	284	712	151	1,010	267	2,040	313	3,120	1,400	24	112
18		262	585	144	955	235	4,120	230	2,350	1,520	20	95
19		245	546	137	585	210	3,370	173	1,590	1,840	17	74
20	9,020	235	838	133	433	186	1,590	103	1,180	1,230	16	68
21	6,220	220	3,840	129	363	169	4,790	76	1,180	850	52	95
22	3,840	210	6,920	126	289	144	8,700	66	9,390	666	262	64
23	2,720	210	3,120	147	230	129	2,610	57	5,440	585	215	57
24	2,110	200	2,720	210	169	119	1,590	47	2,440	850	182	49
25	1,780	177	2,040	585	144	109	3,260	38	1,460	455	144	41
26	1,460	169	1,460	585	137	103	2,420	33	955	350	119	37
27	1,280	151	1,120	546	133	98	1,230	27	1,180	492	95	43
28	1,180	151	955	455	196	92	804	24	902	1,120	68	47
29	1,010	144	758	391	-------	1,910	626	22	712	1,590	47	35
30	955	140	626	350	-------	1,400	546	21	626	1,650	38	243
31	804	-------	585	325	-------	1,010	-------	19	-------	1,230	34	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	----------	109	5,570	343,000
November	712	140	344	20,500
December	11,600	115	2,020	124,000
January	585	126	292	18,000
February	1,010	133	453	25,200
March	3,340	92	711	43,700
April	12,200	119	2,170	129,000
May	426	19	164	10,100
June	9,390	14	1,390	82,900
July	5,920	100	1,070	66,100
August	1,520	16	212	13,100
September	1,380	31	207	12,300
The year	----------	14	1,230	888,000

BRAZOS RIVER NEAR GLEN ROSE, TEX.

LOCATION.—Staff gage quarter of a mile above Glen Rose-Cleburne highway bridge and 4 miles northeast of Glen Rose, Somervell County.

DRAINAGE AREA.—24,800 square miles, a large part of which is probably noncontributing.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, about 41,400 second-feet October 19 (gage height, 14.00 feet); minimum, 39 second-feet June 3 and 8 (gage height, 0.26 foot).

1923–1927: Maximum discharge, about 45,700 second-feet May 8, 1925 (gage height, 15.10 feet); no flow, September 7–9, 1924.

REMARKS.—Records fair for low stages and poor for high stages. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	256	1,380	299	820	472	290	2,210	750	58	780	1,750	103
2	224	1,390	282	730	434	273	1,650	600	50	680	1,890	216
3	208	1,220	273	700	407	5,170	1,120	540	41	630	1,380	160
4	507	1,060	265	620	389	2,490	810	463	43	580	1,320	85
5	10,400	977	265	570	362	1,940	600	416	48	501	966	400
6	9,990	886	248	520	344	1,600	463	371	48	425	770	660
7	15,700	820	362	472	326	1,450	371	308	50	353	540	670
8	6,660	760	371	434	317	1,200	353	282	41	282	389	620
9	4,350	740	10,100	398	353	1,130	282	240	100	216	326	1,500
10	2,690	700	6,000	353	501	1,070	216	201	710	179	240	864
11	1,970	680	5,320	317	550	985	179	172	730	240	248	560
12	1,800	660	4,570	299	425	910	630	201	610	273	201	463
13	2,750	640	4,350	326	570	1,070	842	273	560	317	166	317
14	2,030	720	2,200	317	660	985	690	3,810	550	371	166	240
15	1,790	650	1,920	317	930	690	8,630	1,590	520	463	132	186
16	4,120	680	1,680	265	1,120	550	8,160	897	482	8,320	99	132
17	4,540	640	1,480	248	1,110	472	4,140	700	454	5,610	79	137
18	32,400	590	1,310	224	919	425	5,990	530	4,820	2,600	68	216
19	30,500	540	1,080	216	977	416	12,000	416	5,110	1,630	65	299
20	9,960	492	880	216	1,050	407	5,330	416	4,060	1,330	55	425
21	7,080	482	853	232	941	326	2,980	407	2,420	1,310	55	216
22	5,910	463	1,030	232	780	282	3,910	344	1,950	1,770	55	132
23	4,840	444	5,610	232	600	248	8,290	265	6,620	996	53	118
24	3,740	425	5,230	240	501	265	4,250	194	7,260	820	48	110
25	2,810	407	4,480	240	444	216	2,620	160	5,230	670	50	118
26	2,370	389	3,640	299	398	208	1,970	132	3,560	530	319	128
27	2,150	371	2,560	344	353	179	3,860	110	2,030	492	407	137
28	1,850	353	2,000	540	326	148	2,810	99	1,490	472	232	148
29	1,740	326	1,390	660	------	262	1,770	82	1,070	454	137	128
30	1,500	317	1,280	620	------	5,670	1,200	71	955	1,770	123	110
31	1,400	------	955	560	------	4,620	------	63	------	1,460	103	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	32,400	208	5,750	354,000
November	1,390	317	673	40,100
December	10,100	248	2,330	143,000
January	820	216	405	24,900
February	1,120	317	591	32,800
March	5,670	148	1,160	71,300
April	12,000	179	2,940	175,000
May	3,810	63	487	30,000
June	7,260	41	1,720	102,000
July	8,320	179	1,180	72,460
August	1,890	48	401	24,700
September	1,500	85	320	19,000
The year	32,400	41	1,510	1,090,000

BRAZOS RIVER AT WACO, TEX.

LOCATION.—Water-stage recorder at Texas Electric Co.'s bridge in Waco, McLennan County. Zero of gage is 360.88 feet above mean sea level.

DRAINAGE AREA.—28,500 square miles, a large part of which is probably noncontributing.

RECORDS AVAILABLE.—September, 1898, to December, 1911, and October, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 89,000 second-feet June 14 (gage height, 26.4 feet); minimum, 92 second-feet September 30.

1898–1927: Maximum discharge not determined; maximum gage height, 39.7 feet December 3, 1913; no flow August 20 and 21, 1918, and probably for several days in August, 1923.

REMARKS.—Records poor. Daily discharge February 12, 14, March 10 and 29 partly estimated. The numerous small diversions above station do not appreciably affect flow except during low stages.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	[illegible]	1,700	206	1,300	689	794	3,300	2,400	568	1,560	1,640	202
2	36.	1,520	192	1,180	647	703	2,840	1,990	532	2,060	1,700	171
3	351	1,420	171	1,060	568	640	2,620	1,700	498	1,380	1,790	162
4	306	1,340	142	920	509	604	2,290	1,520	476	1,300	1,890	177
5	718	1,180	128	850	544	2,950	2,240	1,380	41,300	1,260	1,520	180
6	5,250	990	120	808	1,580	2,450	2,140	1,220	14,700	1,100	1,470	230
7	4,280	955	120	759	1,340	2,340	2,040	1,140	1,700	920	1,180	220
8	8,300	857	135	675	913	5,150	1,990	1,020	1,650	703	955	654
9	4,800	766	665	622	1,490	3,090	1,890	920	1,140	745	745	520
10	3,510	675	5,010	562	2,290	2,240	1,840	1,600	1,140	829	586	333
11	3,090	622	3,510	514	1,700	2,190	1,790	1,520	990	689	514	1,050
12	2,840	586	3,740	476	2,670	2,140	1,700	2,190	1,060	622	520	1,060
13	2,780	526	3,300	498	1,470	1,840	5,440	12,200	20,600	492	738	724
14	2,500	520	2,500	443	1,220	1,840	8,600	4,890	60,800	416	766	580
15	3,090	514	1,940	416	1,140	1,790	4,980	4,430	9,660	416	544	460
16	3,370	532	1,650	410	1,220	1,650	8,500	3,580	3,660	6,740	410	338
17	3,580	526	1,470	395	1,340	1,420	5,950	2,670	2,900	8,110	315	297
18	14,400	432	1,260	380	1,520	1,220	3,980	2,190	2,400	3,900	274	262
19	36,600	448	1,100	375	1,560	1,180	8,010	1,890	2,750	3,020	223	223
20	23,600	400	990	370	1,380	1,370	10,600	1,650	5,000	2,400	189	168
21	8,600	375	1,260	351	1,340	1,650	12,700	1,420	19,800	1,940	192	186
22	6,650	356	955	351	1,420	1,140	6,070	1,300	13,500	1,700	142	465
23	5,650	346	766	346	1,300	871	5,100	1,260	16,300	1,890	125	346
24	4,330	333	3,240	342	1,140	780	8,000	1,180	9,420	1,890	125	216
25	3,440	320	3,440	342	990	759	4,870	1,260	7,700	1,470	120	152
26	3,160	310	2,840	338	892	710	3,740	1,020	4,960	1,300	105	120
27	2,670	234	3,020	333	822	710	3,090	920	3,660	1,100	109	115
28	2,290	254	2,500	333	787	731	3,310	850	2,840	955	115	118
29	2,040	238	1,890	338	-------	2,860	4,060	780	2,400	773	120	99
30	2,070	226	1,740	448	-------	5,540	2,960	696	2,090	787	375	94
31	2,240	-------	1,560	682	-------	3,260	-------	622	-------	654	234	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	36,600	306	5,400	332,000
November	1,700	226	650	38,700
December	5,010	120	1,660	102,000
January	1,300	333	555	34,100
February	2,670	509	1,230	68,400
March	5,540	604	1,830	112,000
April	12,700	1,700	4,550	271,000
May	12,200	622	2,040	126,000
June	60,800	476	8,540	508,000
July	8,110	416	1,710	105,000
August	1,890	105	636	39,100
September	1,060	94	331	19,700
The year	60,800	94	2,430	1,760,000

BRAZOS RIVER NEAR BRYAN, TEX.

LOCATION.—Chain gage on Pitts Bridge on State highway between Bryan and Caldwell 9 miles southwest of Bryan, Brazos County.

DRAINAGE AREA.—38,400 square miles, part of which is probably noncontributing.

RECORDS AVAILABLE.—September, 1925, to September, 1927. February, 1918, to September, 1925, record obtained 7½ miles downstream; discharge practically the same.

EXTREMES.—Maximum discharge not determined; minimum discharge, 328 second-feet September 2.

1925–1927: Maximum discharge not determined; minimum discharge, that of September 2, 1927.

Maximum stage of about 55.00 feet (present gage datum) occurred December, 1913.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. Discharge April 3–9 and June 12–19 estimated. The numerous small diversions above gage do not appreciably affect the flow except during low stages.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	28,500	635	5,960	367,000
November	3,380	565	1,320	78,500
December	10,200	388	3,020	186,000
January	11,100	840	2,290	141,000
February	19,000	1,120	6,360	353,000
March	23,200	2,440	6,190	381,000
April	30,800	2,020	8,800	523,000
May	17,600	1,460	4,040	248,000
June		778	10,500	627,000
July	5,700	1,200	2,730	168,000
August	2,220	340	1,020	62,900
September	1,280	328	635	37,800
The year		328	4,380	3,170,000

BRAZOS RIVER AT ROSENBERG, TEX.

LOCATION.—Chain gage on Rosenberg-Richmond highway bridge at Rosenberg, Fort Bend County.

DRAINAGE AREA.—44,000 square miles.

RECORDS AVAILABLE.—October, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 42,500 second-feet June 25 (gage height, 22.4 feet); minimum, 725 second-feet September 14 (gage height, 1.4 feet).

1922–1927: Maximum discharge, about 86,900 second-feet April 26, 1926 (gage height, 37.1 feet); minimum, 306 second-feet August 19–22, 1925 (gage height, 0.30 foot).

The flood of December 9, 1913, reached a stage of 55.5 feet (from flood-marks).

REMARKS.—Records poor. No diversion. Gage-height record furnished by the United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,820	7,440	1,380	8,530	3,920	5,790	8,690	9,680	3,190	11,500	3,070	930
2	1,680	6,540	1,380	7,590	4,700	5,490	13,300	9,170	2,950	10,400	2,640	930
3	1,560	6,390	1,380	6,990	4,700	8,850	10,600	9,170	2,560	11,900	2,470	885
4	1,500	7,590	1,330	6,690	4,700	9,510	9,680	8,530	2,230	13,300	2,160	845
5	1,560	7,590	1,330	6,390	4,440	9,170	7,740	8,050	2,230	14,100	2,090	845
6	1,380	6,390	1,450	5,940	5,220	7,140	6,990	6,840	2,090	12,900	1,950	885
7	1,440	5,790	2,820	5,490	4,440	6,090	6,390	6,240	2,090	10,000	2,090	885
8	1,380	4,700	3,190	5,220	5,010	7,810	6,090	5,350	2,760	8,530	2,230	885
9	1,220	4,180	5,480	4,700	11,800	13,600	5,490	4,960	7,290	7,890	2,230	885
10	1,960	3,920	26,600	4,180	13,700	17,200	5,220	4,700	8,210	6,990	2,300	845
11	8,250	3,190	29,300	3,670	13,100	24,400	4,960	4,440	7,590	6,390	2,160	845
12	7,740	2,950	25,300	3,430	13,500	23,300	4,960	3,790	6,690	5,490	1,820	805
13	5,790	2,380	24,400	3,310	21,200	17,600	5,790	3,430	4,960	4,700	1,950	805
14	4,830	2,230	23,300	2,950	22,800	13,700	5,220	3,190	3,430	3,920	1,820	725
15	3,790	2,230	15,800	2,840	20,200	12,000	8,090	5,260	2,950	3,430	1,750	885
16	3,190	2,560	13,100	2,470	15,600	10,900	31,800	17,100	15,300	2,950	1,620	845
17	3,670	2,560	13,500	2,380	12,700	9,680	32,300	16,200	37,500	2,740	1,500	1,020
18	3,670	2,230	10,200	2,840	12,000	8,690	28,300	11,700	32,900	2,470	1,280	1,020
19	4,180	2,230	8,530	2,840	10,900	7,740	26,400	9,850	21,000	2,300	1,220	1,220
20	4,830	2,090	7,590	2,950	9,510	6,540	19,300	9,010	17,800	2,160	1,380	1,380
21	8,920	2,090	6,690	2,640	8,850	7,890	18,300	7,140	13,100	3,430	1,440	1,120
22	23,400	2,090	6,090	3,370	8,530	12,000	29,500	6,390	10,400	5,790	1,330	1,020
23	18,700	2,020	7,460	7,800	8,210	13,700	36,500	5,790	18,300	4,960	1,280	975
24	12,200	1,820	14,200	8,530	7,890	15,400	38,900	5,350	38,000	4,180	1,160	1,220
25	10,400	1,750	18,500	7,290	7,440	14,600	29,700	5,350	42,500	3,920	1,120	1,440
26	11,300	1,560	20,200	5,790	6,990	11,700	24,100	4,440	37,100	4,180	1,120	1,440
27	11,100	1,560	15,600	5,220	6,390	10,000	21,000	4,050	28,100	4,050	1,060	1,160
28	9,680	1,380	16,000	4,440	5,790	9,010	15,400	4,180	20,700	3,920	1,020	975
29	7,890	1,380	12,000	3,920	-------	8,370	12,700	4,830	15,800	4,180	975	885
30	6,390	1,380	10,200	3,430	-------	7,590	11,100	4,570	12,900	4,050	975	930
31	7,890	-------	9,170	3,430	-------	6,990	-------	3,670	-------	3,790	975	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	23,400	1,220	6,240	383,000
November	7,590	1,380	3,410	203,000
December	29,300	1,330	11,400	701,000
January	8,530	2,380	4,750	292,000
February	22,800	3,920	9,790	544,000
March	24,400	5,490	11,000	679,000
April	38,900	4,960	16,200	961,000
May	17,100	3,190	6,850	421,000
June	42,500	2,090	14,100	838,000
July	14,100	2,160	6,150	378,000
August	3,070	975	1,680	104,000
September	1,440	725	984	58,600
The year	42,500	725	7,680	5,560,000

CLEAR FORK OF BRAZOS RIVER AT NUGENT, TEX.

LOCATION.—Staff gage at highway at Nugent, Jones County.
DRAINAGE AREA.—2,200 square miles.
RECORDS AVAILABLE.—February, 1924, to September, 1927.
EXTREMES.—Maximum discharge during year, 7,520 second-feet April 14 (gage height, 13.50 feet); minimum, 0.2 second-foot September 3.
1924–1927: Maximum discharge, 9,620 second-feet June 19, 1926 (gage height, 15.50 feet); minimum, 0.2 second-foot July 27 and 28, 1925, and September 3, 1927.
REMARKS.—Records fair. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.0	14	10	8.4	7.4	10	8.0	14	2.0	1.0	11	0.8
2	7.1	17	11	8.8	7.4	9.2	8.0	12	1.5	.9	8.8	.4
3	7.1	16	11	8.0	7.7	8.0	7.4	10	1.4	1.0	5.9	1.2
4	7.1	17	11	8.0	7.7	8.4	8.0	9.2	1.1	1.3	4.2	370
5	7.1	16	77	8.0	7.7	8.4	7.7	9.6	1.0	30	3.8	253
6	8.4	15	1,520	8.0	13	8.4	8.4	9.6	58	9.6	3.6	686
7	11	14	3,160	7.4	12	8.4	9.6	9.2	76	4.8	3.2	213
8	12	12	1,160	7.4	13	9.2	10	8.4	21	3.0	5.9	62
9	9.6	12	207	7.4	21	10	9.2	8.0	117	1.3	2.1	9.2
10	8.0	11	61	7.4	44	10	9.2	8.0	21	.6	1.5	6.2
11	7.1	11	36	7.4	30	14	11	6.2	48	.3	3.2	3.8
12	6.5	11	20	6.8	26	14	14	5.3	13	.4	2.8	3.2
13	41	11	18	8.0	18	20	2,610	9.6	8.0	140	1.3	2.7
14	305	11	17	8.0	14	13	5,060	9.2	7.1	331	18	2.0
15	1,080	10	13	8.0	11	11	365	8.8	44	42	5.9	7.4
16	730	9.2	11	7.7	10	9.2	36	6.8	10	17	3.6	12
17	979	9.2	11	7.4	8.8	8.0	34	6.2	7.1	6.5	2.6	5.0
18	885	9.2	11	7.4	8.0	8.0	42	5.6	5.6	4.4	7.1	4.7
19	183	9.2	11	7.4	8.0	8.0	50	4.8	4.8	3.4	3.8	4.4
20	69	9.2	197	7.4	7.7	8.0	45	4.2	3.8	2.0	2.6	66
21	39	9.2	659	7.4	7.4	8.0	1,230	4.0	3.0	1.5	2.8	18
22	30	9.2	258	7.4	7.4	7.7	4,750	4.0	2.6	1.0	2.8	15
23	28	9.2	58	8.1	7.1	7.4	873	3.8	2.8	1.2	2.6	9.2
24	25	9.2	30	8.8	7.4	7.7	92	3.8	2.4	1.5	2.4	7.1
25	21	10	16	8.8	7.1	7.7	58	3.4	2.0	621	2.0	52
26	18	9.2	11	8.8	6.8	7.4	44	3.0	1.6	597	1.6	467
27	17	8.8	11	9.6	6.8	7.4	40	2.7	1.4	110	1.3	1,340
28	15	9.6	10	8.8	17	8.8	39	2.7	1.4	110	1.0	2,140
29	15	10	9.2	8.0	------	8.8	29	2.2	1.2	669	.9	1,330
30	14	10	8.4	7.7	------	8.8	16	1.8	1.0	79	.8	107
31	14	------	8.4	7.4	------	8.8	------	2.2	------	18	1.0	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,080	6.5	149	9,140
November	17	8.8	11.3	671
December	3,160	8.4	247	15,200
January	9.6	6.8	7.91	486
February	44	6.8	12.5	693
March	20	7.4	9.41	579
April	5,060	7.4	517	30,800
May	14	1.8	6.40	393
June	117	1.0	15.7	934
July	669	.3	90.6	5,570
August	18	.8	3.87	238
September	2,140	.4	240	14,300
The year	5,060	.3	109	79,000

CLEAR FORK OF BRAZOS RIVER AT FORT GRIFFIN, TEX.

LOCATION.—Chain gage on Fort Griffin-Throckmorton highway bridge half a mile east of Fort Griffin, Shackleford County.

DRAINAGE AREA.—3,970 square miles.

RECORDS AVAILABLE. December, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,040 second-feet April 15 (gage height, 15.4 feet); no flow May 25, 26, and June 18–20.

1924–1927: Maximum discharge, about 12,500 second-feet June 21, 1926 (gage height, 27.0 feet); no flow for several periods.

REMARKS.—Records fair. Small diversion for municipal use; amount not known. Possibly slight regulatory effect at low stages by power plant at Stamford.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	10	6.9	21	9.0	273	47	24	16	5.8	63	5.0
2	20	10	6.9	21	6.6	129	37	22	16	7.5	31	7.8
3	17	13	6.9	17	5.4	79	30	18	18	11	24	254
4	16	8.4	6.9	12	6.0	61	27	14	24	9.4	24	111
5	12	8.4	84	9.0	7.8	44	19	11	21	7.5	16	19
6	12	10	1,420	18	8.4	61	30	11	14	6.3	12	6.6
7	13	8.4	1,620	11	7.2	207	36	8.4	39	5.4	8.4	6.0
8	12	6.9	3,210	11	7.5	76	47	8.4	102	6.3	9.0	32
9	9.8	8.4	1,960	11	64	47	19	7.8	52	7.5	7.2	241
10	9.8	8.4	423	11	291	38	11	6.0	36	6.3	7.2	51
11	8.4	8.4	220	9.0	124	44	16	6.6	25	6.3	6.0	24
12	8.4	8.4	124	11	124	42	142	6.0	28	19	11	21
13	14	6.9	57	6.0	162	51	869	5.6	25	408	47	10
14	827	6.9	42	7.5	122	26	2,640	5.6	368	460	23	9.4
15	1,300	6.9	33	9.0	155	20	4,340	11	509	165	16	7.5
16	1,350	6.9	21	7.5	103	25	1,300	11	91	22	15	8.1
17	1,200	6.3	19	6.0	69	18	213	11	9.9	14	13	8.1
18	1,050	6.3	17	6.0	48	26	187	11	0	8.4	11	7.5
19	1,110	6.3	14	7.5	36	26	482	12	0	7.2	11	7.5
20	314	5.8	52	7.5	20	26	213	9.0	0	5.6	11	8.7
21	130	5.8	858	5.0	22	15	167	5.6	80	6.0	6.3	8.7
22	67	5.4	897	7.5	14	13	590	2.8	17	45	14	6.9
23	43	5.0	757	9.0	13	12	3,510	1.2	21	345	14	5.0
24	33	5.0	506	21	11	8.4	800	1.6	116	28	13	5.4
25	23	4.6	333	16	11	6.6	340	0	116	14	11	5.0
26	16	5.8	108	10	16	7.2	140	0	26	16	6.9	4.6
27	14	5.4	50	11	162	14	64	2.0	13	644	5.4	16
28	10	5.0	35	8.4	182	14	52	24	10	412	5.0	1,290
29	10	5.0	30	11	-------	93	43	22	8.7	241	4.6	1,860
30	9.0	4.6	25	8.7	-------	56	41	12	8.7	460	3.8	1,820
31	4.6	-------	23	11	-------	44	---------	6.0	---------	348	4.2	--------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,350	4.6	248	15,200
November	13	4.6	7.09	422
December	3,210	6.9	418	25,700
January	21	5.0	10.9	670
February	291	5.4	64.5	3,580
March	273	6.6	51.7	3,180
April	4,340	11	548	32,600
May	24	0	9.57	588
June	509	0	60.3	3,590
July	644	5.4	121	7,430
August	63	3.8	14.6	960
September	1,860	4.6	196	11,600
The year	4,340	0	146	105,000

CLEAR FORK OF BRAZOS RIVER AT CRYSTAL FALLS, TEX.

LOCATION.—Staff gage at Walker-Caldwell Water Co.'s pumping plant a quarter of a mile north of Crystal Falls, Stephens County.

DRAINAGE AREA.—4,320 square miles.

RECORDS AVAILABLE.—November, 1921, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,900 second-feet April 13 (gage height, 7.50 feet); no flow during several periods.

1922–1927: Maximum discharge not determined; maximum stage, 18.25 feet April 30, 1922; no flow during several periods.

REMARKS.—Records for low stages good, for high stages poor. Daily discharge estimated October 28 and June 18–20. Discharge July 13 subject to error owing to probability of backwater. Large part of ordinary flow diverted for municipal use and mining. Low-water flow partly regulated by dam above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	22	4.4	32	10	629	12	32	0.8	8.0	207	0
2	1.6	16	4.4	26	10	241	82	26	4.4	5.2	62	29
3	3.6	14	3.6	26	10	230	36	26	257	5.2	40	26
4	10	8.0	4.4	32	10	155	19	19	146	29	16	201
5	16	12	20	10	8.0	98	12	16	52	16	12	74
6	6.0	12	809	14	12	71	10	14	36	12	8.0	22
7	3.6	10	1,480	14	14	515	10	14	29	8.0	3.6	8.0
8	3.6	8.0	3,230	14	10	234	10	10	16	5.2	2.0	11
9	3.6	6.0	3,560	10	36	82	48	10	85	2.0	2.0	184
10	16	5.2	2,360	10	78	62	19	4.4	62	1.2	1.2	104
11	8.0	5.2	481	10	281	52	19	4.4	36	0	.8	71
12	6.0	4.4	214	14	184	52	536	4.4	22	0	.4	36
13	8.0	4.4	123	19	155	44	11,300	6.0	22	5,340	.4	16
14	230	3.6	76	26	199	36	2,530	6.0	29	3,280	1.2	12
15	694	3.6	48	19	142	29	2,730	6.0	549	795	22	10
16	1,590	3.6	40	19	142	22	5,280	4.4	379	314	12	8.0
17	1,600	3.6	26	14	93	22	741	4.4	104	29	5.2	5.2
18	1,110	3.6	19	14	71	16	191	4.4	} 16	14	4.4	3.6
19	1,340	2.8	99	14	44	16	123	4.4		6.0	3.6	5.2
20	767	2.8	1,420	14	36	12	311	4.4		5.2	5.2	12
21	346	2.0	984	14	29	12	1,230	4.4	660	3.6	5.2	8.0
22	155	2.0	1,810	14	29	12	407	4.4	282	3.6	8.0	8.0
23	155	2.0	1,510	40	26	8.0	2,460	4.4	62	372	16	5.2
24	71	3.6	586	57	22	8.0	2,940	4.4	32	188	12	5.2
25	62	3.6	255	44	16	8.0	539	4.4	235	62	8.0	5.2
26	48	2.8	135	40	12	8.0	222	2.8	169	52	3.6	5.2
27	44	2.0	98	26	10	8.0	123	1.6	71	22	2.0	8.0
28	33	2.0	66	32	57	5.2	76	.8	36	726	2.0	60
29	22	3.6	48	29	-------	36	48	.8	22	641	1.2	1,400
30	16	3.6	48	29	-------	93	48	.8	16	182	.4	3,900
31	19	-------	40	26	-------	44	--------	.8	-------	495	0	--------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,600	1.6	271	16,600
November	22	2.0	5.93	353
December	3,560	3.6	632	38,900
January	57	10	22.6	1,390
February	281	8.0	62.4	3,460
March	629	5.2	92.3	5,670
April	11,300	10	1,070	63,700
May	32	.8	8.06	495
June	660	.8	115	6,870
July	5,340	0	407	25,000
August	207	0	15.1	927
September	3,900	0	208	12,400
The year	11,300	0	243	176,000

NORTH BOSQUE RIVER NEAR CLIFTON, TEX.

LOCATION.—Staff gage one-fourth mile above Gulf, Colorado & Santa Fe Railway bridge and 1⅞ miles northwest of Clifton, Bosque County.

DRAINAGE AREA.—974 square miles.

RECORDS AVAILABLE.—November, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, by slope-area method, 13,100 second-feet May 13 (gage height, 10.15 feet); minimum, 0.1 second-foot September 15 (gage height, 0.33 foot).

1924–1927: Maximum discharge, that of May 13, 1927; no flow June 25 and July 13–30, 1925.

REMARKS.—Records fair for low stages and poor for high stages. Railroad pumps about 100,000 gallons a day above dam and below gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	26	3.4	8.0	4.0	3.4	8.0	8.0	9.0	31	1.4	0.7
2	2.3	21	3.6	7.0	3.9	3.7	8.0	6.0	6.0	64	1.1	.5
3	2.0	14	3.6	4.0	3.7	3.7	6.0	4.0	3.7	41	.8	.5
4	2.6	12	3.9	3.9	3.7	3.9	4.0	4.0	14	22	.6	.6
5	3.7	10	4.0	4.0	6.0	4.0	6.0	3.6	955	16	.5	.8
6	4.0	10	4.0	4.0	13	4.0	5.0	3.3	192	11	.4	.8
7	3.7	8.0	12	4.0	21	5.0	3.7	3.0	64	9.0	.4	.9
8	3.7	6.0	22	4.0	12	238	3.9	3.2	122	8.0	.2	.5
9	4.0	6.0	31	4.0	14	93	3.7	2.4	89	22	.2	.5
10	4.0	6.0	19	3.9	19	44	3.7	1.9	41	17	.2	.3
11	4.0	6.0	13	3.6	26	31	3.6	6.0	24	11	.3	.2
12	4.0	6.0	11	2.9	28	28	3.4	1,060	14	7.0	5.6	.2
13	3.9	6.0	10	3.2	21	21	259	5,950	781	4.0	191	.2
14	6.0	6.0	8.0	3.2	14	21	324	312	355	6.4	68	.2
15	48	6.0	8.0	3.2	12	14	93	128	163	107	26	.2
16	47	5.0	7.0	3.2	12	12	36	71	64	36	17	138
17	21	11	7.0	3.4	10	8.0	21	41	36	26	12	54
18	14	14	8.0	3.2	6.0	10	111	28	26	14	9.0	24
19	10	8.0	6.0	3.4	6.0	9.0	64	22	21	11	8.0	14
20	8.0	9.0	8.0	3.2	6.0	11	71	17	13	10	10	11
21	7.0	8.0	11	3.4	4.0	10	963	13	220	8.0	7.0	6.0
22	5.0	8.0	10	3.4	4.0	12	300	11	1,450	4.0	4.0	5.0
23	3.9	7.0	9.0	3.7	4.0	10	93	11	2,380	3.6	3.3	4.0
24	3.6	6.0	7.0	3.7	4.0	9.0	47	11	261	3.2	3.0	3.2
25	3.3	6.0	8.0	3.7	4.0	9.0	29	12	93	2.6	2.7	2.7
26	3.4	6.0	8.0	4.0	3.7	8.0	24	29	52	2.1	2.5	3.6
27	3.4	3.7	8.0	3.8	3.7	8.0	19	31	34	1.7	2.2	68
28	3.7	3.6	7.0	3.7	5.0	8.0	14	26	24	1.6	2.0	2.0
29	3.4	3.6	8.0	4.0	-------	8.0	11	19	21	1.6	1.5	2.6
30	140	3.6	8.0	3.7	-------	10	10	14	31	1.8	1.0	2.0
31	61	-------	8.0	3.7	-------	8.0	-------	10	---------	1.6	.8	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	140	2.0	14.1	865
November	26	3.6	8.38	499
December	31	3.4	9.18	564
January	8	2.9	3.87	238
February	28	3.7	9.77	543
March	238	3.4	21.5	1,320
April	963	3.4	84.9	5,050
May	5,950	1.9	254	15,600
June	2,380	3.7	252	15,000
July	107	1.6	16.3	1,000
August	191	.2	12.3	759
September	138	.2	11.6	689
The year	5,950	.2	58.2	42,100

SOUTH BOSQUE RIVER NEAR SPEEGLEVILLE, TEX.

LOCATION.—Chain gage on highway bridge 2 miles south of Speegleville, McLennan County.

DRAINAGE AREA.—388 square miles.

RECORDS AVAILABLE.—March, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year determined by slope-area method, 54,500 second-feet June 14 (gage height, 29.37 feet, from floodmarks); minimum, 1.2 second-feet September 18.

1924–1927: Maximum discharge, that of June 14, 1927; no flow during several periods.

REMARKS.—Records for low and intermediate stages fair, and for high stages poor. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	12	11	26	26	131	92	138	68	257	19	2.5
2	5.8	14	9.2	26	22	112	83	136	64	278	13	1.9
3	4.6	12	11	27	25	107	83	126	58	215	14	3.5
4	4.0	11	12	26	25	107	83	160	61	231	13	2.5
5	2.8	10	14	23	88	107	83	131	5,000	187	13	58
6	2.3	9.6	12	23	431	110	81	124	322	168	10	7.0
7	1.7	9.6	23	23	143	489	76	105	187	150	9.0	4.0
8	1.9	9.6	16	24	112	658	92	114	162	240	8.0	3.0
9	2.3	8.8	100	24	722	308	76	112	152	150	7.0	3.0
10	3.4	8.2	24	23	868	236	66	101	136	133	6.5	2.0
11	9.2	8.5	21	23	576	275	63	90	126	127	10	1.8
12	7.6	9.2	19	23	454	194	66	715	116	116	12	2.0
13	*16	8.5	18	34	369	162	4,340	1,580	13,100	103	9.0	3.0
14		11	15	24	275	157	621	258	9,690	99	10	3.0
15	66	12	13	23	245	146	245	181	708	106	6.5	2.0
16	60	9.9	15	24	214	131	200	162	522	150	5.5	2.0
17	22	8.8	16	24	194	141	191	149	410	96	5.0	2.5
18	11	8.5	14	24	175	136	191	138	335	83	4.5	1.3
19	9.6	8.2	15	24	165	121	184	128	286	77	4.5	4.0
20	7.6	7.9	20	26	146	665	168	124	335	70	4.5	5.5
21	9.6	8.5	59	24	149	299	2,240	114	8,270	64	4.5	3.0
22	11	7.9	30	31	146	146	364	110	1,410	53	4.5	3.0
23	14	7.3	28	28	124	133	254	102	2,430	53	4.0	2.0
24	16	8.5	26	26	126	119	249	96	550	58	3.5	1.8
25	12	8.5	34	26	116	114	245	235	410	47	4.0	1.6
26	9.2	7.3	30	28	112	105	211	110	360	36	6.5	1.8
27	7.6	7.9	30	28	112	103	187	99	325	50	6.0	6.0
28	6.4	11	28	24	131	103	178	92	286	39	4.0	6.5
29	6.1	12	26	25	-------	162	160	88	269	30	3.5	5.0
30	6.7	12	28	28	-------	116	138	78	286	26	3.5	4.0
31	8.8	-------	25	26	-------	112	-------	74	-------	19	3.0	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	66	1.7	11.8	726
November	14	7.3	9.61	572
December	100	9.2	23.9	1,470
January	34	23	25.4	1,560
February	868	22	225	12,500
March	665	103	194	11,900
April	4,340	63	377	22,400
May	1,580	74	193	11,800
June	13,100	58	1,550	92,100
July	278	19	113	6,960
August	19	3.0	7.45	458
September	58	1.3	4.97	296
The year	13,100	1.3	225	163,000

* Estimated.

LEON RIVER NEAR HAMILTON, TEX

LOCATION.—Chain gage on St. Louis Southwestern Railway bridge 6 miles north of Hamilton, Hamilton County.
DRAINAGE AREA.—1,900 square miles.
RECORDS AVAILABLE.—January, 1925, to September, 1927.
EXTREMES.—Maximum discharge during year, 1,720 second-feet May 13 (gage height, 10.5 feet); no flow during several periods.
1925–1927: Maximum discharge not determined; maximum stage, 17.0 feet April 12, 1926; no flow during several periods.
A stage of 29.8 feet occurred in May, 1908.
REMARKS.—Records fair. No diversions of consequence above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	8.3	2.8	17	14	8.3	29	19	13	43	48	0.9
2	1.1	6.5	3.0	14	14	8.3	19	16	7.8	36	26	.9
3	1.4	4.0	3.5	10	14	8.3	19	13	7.8	26	12	.5
4	1.4	3.5	3.8	8.3	11	9.2	18	11	6.2	22	7.0	7.0
5	1.6	3.5	5.5	8.3	10	9.2	17	7.8	5.2	27	4.3	2.7
6	1.8	4.5	11	8.3	10	10	14	6.2	5.2	19	2.9	2.2
7	1.9	6.5	11	7.4	12	23	14	5.2	17	9.6	2.9	1.6
8	13	6.5	11	7.4	12	411	11	5.2	14	6.2	2.2	1.1
9	25	6.5	35	6.5	21	108	11	4.8	51	5.8	1.8	.7
10	18	6.0	55	6.5	72	52	11	3.9	56	4.3	1.4	.3
11	11	6.0	71	6.5	63	141	10	3.6	88	3.6	1.1	0
12	10	5.0	71	6.0	49	105	9.2	229	34	3.2	.8	0
13	10	5.0	71	5.5	49	50	109	1,300	26	2.9	3.6	0
14	10	11	55	5.0	36	50	314	549	19	2.6	3.2	0
15	111	38	32	5.0	52	38	66	861	20	15	1.9	0
16	51	25	28	5.0	52	31	26	1,520	8.8	305	1.1	0
17	126	5.0	11	6.0	55	32	22	1,090	9.6	144	.4	0
18	106	5.0	11	5.5	55	207	21	332	9.6	147	.5	0
19	92	4.0	11	6.0	36	53	24	182	5.8	84	.4	0
20	92	3.5	10	6.0	25	17	19	131	4.8	67	.1	0
21	55	2.8	8.3	6.0	25	14	894	97	153	54	0	0
22	19	2.3	6.5	7.4	19	24	833	79	1,530	20	0	0
23	14	2.3	7.4	7.4	17	17	530	57	1,210	11	0	0
24	14	2.3	10	7.4	15	14	163	60	652	11	0	0
25	7.4	2.6	14	7.4	14	14	75	244	600	23	0	3.6
26	4.5	2.6	18	7.4	14	14	59	112	425	33	.6	3.2
27	3.5	2.6	26	8.3	11	11	48	41	221	34	27	2.1
28	3.8	2.6	25	8.3	10	10	38	54	131	12	7.1	1.9
29	3.8	2.8	21	9.2	-------	25	31	36	92	3.9	2.6	1.3
30	3.8	2.8	18	14	-------	140	26	26	67	6.6	1.9	.9
31	11	-------	18	17	-------	49	-------	17	---------	100	1.4	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	126	1.1	26.6	1,640
November	38	2.3	6.30	375
December	71	2.8	22.1	1,360
January	17	5.0	8.06	496
February	72	10	28.1	1,560
March	411	8.3	54.9	3,380
April	894	9.2	116	6,900
May	1,520	3.6	229	14,100
June	1,530	4.8	183	10,900
July	305	2.6	41.3	2,540
August	48	0	5.23	322
September	7.0	0	1.03	61.3
The year	1,530	0	60.3	43,600

LEON RIVER NEAR BELTON, TEX.

LOCATION.—Staff gage 100 feet below Southwestern Traction Co.'s bridge and 2 miles east of Belton, Bell County.

DRAINAGE AREA.—3,550 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 15,400 second-feet June 14 (gage height, 10.80 feet); minimum discharge not determined.

1923–1927: Maximum discharge, about 20,100 second-feet April 22, 1926 (gage height, 12.50 feet); no flow during several periods in 1925.

Highest known stages, 21.0 feet September, 1921, and about 25 feet December, 1913.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. Several small pumping plants above gage; amount of water diverted not known.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	516	----------	91.4	5,620
November	114	14	30.1	1,790
December	215	28	74.5	4,580
January	66	50	57.6	3,540
February	4,330	58	708	39,300
March	1,020	207	415	25,500
April	4,550	170	942	56,000
May	2,710	164	638	39,200
June	9,930	114	1,640	97,300
July	478	58	178	10,900
August	74	13	26.5	1,630
September	78	11	18.0	1,070
The year	9,930	----------	396	286,000

LITTLE RIVER NEAR LITTLE RIVER, TEX.

LOCATION.—Chain gage on Missouri, Kansas & Texas Railway bridge 2 miles south of Little River, Bell County. Zero of gage is 400.32 feet above mean sea level.

DRAINAGE AREA.—5,250 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 16,300 second-feet June 14 (gage height, 37.70 feet); minimum, 40 second-feet September 14 and 18 (gage height 3.34 feet).

1923–1927: Maximum discharge, 24,100 second-feet April 22, 1926 (gage height, 41.3 feet); minimum, 8.9 second-feet August 12, 1925 (gage height, 3.26 feet).

River reached stage of 50.85 feet September, 1921.

REMARKS.—Records fair. Several small diversions above station; amount diverted not known. Waterworks on Leon River may regulate the flow at extremely low stages.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	98	80	180	146	894	920	660	299	946	208	51
2	69	272	80	188	139	790	790	635	263	686	180	51
3	69	299	80	180	139	686	842	635	241	560	154	51
4	69	263	74	180	146	660	738	1,500	241	712	132	56
5	60	208	74	180	337	635	660	1,290	527	560	118	56
6	51	163	74	172	3,940	635	635	1,050	4,180	510	104	220
7	51	154	98	172	2,500	842	610	560	2,920	738	104	146
8	48	139	146	163	1,370	2,890	842	510	998	460	132	69
9	45	125	240	154	5,420	2,380	610	460	560	385	111	51
10	44	111	585	139	10,400	1,340	585	435	460	311	98	50
11	51	104	311	154	5,620	1,100	535	385	360	335	91	47
12	56	98	197	154	2,920	1,290	535	614	299	287	86	43
13	60	98	154	172	2,140	1,020	1,200	3,550	1,380	252	91	42
14	304	91	146	163	1,690	894	8,420	4,060	10,600	241	91	40
15	1,690	91	125	163	1,480	868	3,390	1,910	10,200	230	91	43
16	1,670	91	118	163	1,290	842	1,320	1,480	6,040	230	86	41
17	1,150	91	125	154	1,150	816	1,230	1,050	3,280	410	86	40
18	385	80	163	154	1,080	816	1,320	1,210	1,050	263	69	40
19	360	69	163	154	972	790	2,860	1,610	972	241	64	42
20	1,130	60	163	154	946	1,340	1,530	1,750	1,370	241	64	47
21	435	60	163	154	894	2,500	4,200	1,050	1,610	385	69	64
22	180	69	188	154	868	1,500	4,720	712	6,310	335	69	64
23	435	69	208	154	842	1,210	2,230	585	3,460	435	74	64
24	1,100	69	219	154	790	920	1,800	510	1,640	1,370	74	64
25	460	64	252	154	764	868	1,940	635	1,690	712	74	51
26	275	60	275	154	712	842	1,500	635	2,020	410	69	44
27	197	86	287	154	660	816	1,210	946	1,670	299	69	43
28	163	80	263	154	686	790	998	686	1,370	635	64	104
29	132	80	241	163	-------	894	816	610	1,180	435	64	69
30	118	80	197	172	-------	1,480	712	585	1,020	230	60	180
31	104	-------	188	172	-------	1,180	-------	485	-------	219	56	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,690	44	356	21,900
November	299	60	114	6,790
December	585	74	183	11,300
January	188	139	162	9,980
February	10,400	139	1,790	99,300
March	2,890	635	1,110	68,500
April	8,420	535	1,660	98,800
May	4,060	385	1,060	65,000
June	10,600	241	2,270	135,000
July	1,370	219	454	27,900
August	208	56	93.6	5,760
September	220	40	65.8	3,910
The year	10,600	40	766	554,000

LITTLE RIVER AT CAMERON, TEX.

LOCATION.—Chain gage on highway bridge three-fourths mile above Gulf, Colorado & Santa Fe Railway bridge and 2 miles southeast of Cameron, Milam County.

DRAINAGE AREA.—7,030 square miles.

RECORDS AVAILABLE.—November, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 13,500 second-feet February 11 (gage height, 31.32 feet); minimum, 83 second-feet September 14–16 (gage height, 3.48 feet).

1916–1927: Maximum discharge by slope-area method, 647,000 second-feet September 10, 1921 (gage height, about 53.8 feet, present datum, and 49.5 feet, datum of gage used in 1921, and located half a mile upstream); minimum, 2.6 second-feet September 3, 5, and 7, 1918.

REMARKS.—Records fair. Numerous small diversions for irrigation and municipal uses affect flow at station only during extremely low stages. About 2,500 acres irrigated above station. Slight regulation by pumps above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	258	162	379	335	6,720	1,940	a 1,190	499	1,270	313	105
2	140	475	160	a 368	335	3,490	1,690	1,030	475	1,110	291	97
3	a 136	954	158	357	335	1,350	1,480	954	451	a 998	280	97
4	131	634	158	335	313	1,110	1,270	920	451	886	280	a 96
5	128	451	a 158	335	313	1,030	1,140	1,640	427	784	258	96
6	115	357	158	335	b 1,080	b 1,030	1,030	1,770	546	886	238	95
7	115	a 318	227	335	5,610	1,210	992	1,430	4,820	664	a 227	95
8	115	280	451	313	4,990	5,170	1,070	a 1,120	4,680	607	216	96
9	115	248	724	a 302	2,440	9,960	3,160	818	2,780		216	95
10	115	227	818	291	7,540	7,600	1,480	754	920		206	95
11	115	216	818	291	13,100	2,980	992	694	694		206	a 95
12	115	206	a 634	291	12,100	2,020	920	664	a 610		185	95
13	133	196	451	313	7,320	a 1,880	886	1,730	526		185	91
14	142	a 190	357	335	3,880	1,730	2,670	4,580	2,220		a 174	84
15	140	185	313	357	2,950	1,430	7,560	4,720	9,410		164	83
16	540	196	291	a 346	2,360	1,350	6,780	2,950	10,600	a 500	154	108
17	1,700	185	280	335	2,060	1,310	4,630	1,730	9,620		144	108
18	1,310	174	258	313	1,850	1,270	1,940	1,520	6,680		140	a 98
19	746	174	b 248	559	1,730	1,180	4,580	1,430	4,070		135	89
20	553	174	476	4,100	a 1,620	b 1,360	6,830	1,770	2,060		131	89
21	492	a 169	1,490	2,270	1,520	5,390	6,730	2,020	4,720		a 130	95
22	694	164	1,160	582	1,430	5,740	7,710	a 1,520	12,300		130	101
23	499	164	580	b 475	1,390	2,870	7,820	1,030	12,200		130	101
24	1,240	164	499	451	1,310	2,020	4,400	818	7,040		126	101
25	2,740	164	a 491	403	1,180	1,690	2,690	1,640	3,510	1,180	126	a 101
26	964	164	a 483	379	1,110	1,520	2,650	1,520	2,400	1,030	124	101
27	526	164	475	379	a 2,320	a 1,440	2,360	992	2,190	553	123	101
28	379	a 164	475	379	4,490	1,350	1,900	886	1,940	451	a 118	104
29	313	164	475	379	-------	1,310	1,520	a 835	1,520	580	113	112
30	357	164	427	a 368	-------	2,280	1,350	784	1,430	475	109	128
31	a 308	-------	403	357	-------	2,060	-------	553	-------	a 394	105	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	2,740	115	492	30,300
November	954	164	258	15,400
December	1,490	158	460	28,300
January	4,100	291	549	33,700
February	13,100	313	3,110	173,000
March	9,960	1,030	2,670	164,000
April	7,820	886	3,070	183,000
May	4,720	553	1,480	91,300
June	12,300	427	3,730	222,000
July			641	39,400
August	313	105	177	10,900
September	128	83	98.4	5,860
The year	13,100	83	1,380	997,000

a Estimated. b Partly estimated.

LAMPASAS RIVER AT YOUNGSPORT, TEX.

LOCATION.—Staff gage half a mile northeast of Youngsport, Bell County.
DRAINAGE AREA.—1,240 square miles.
RECORDS AVAILABLE.—February, 1924, to September, 1927.
EXTREMES.—Maximum discharge during year not determined; maximum stage, 11.20 feet June 14; minimum, 6.2 second-feet September 7 and 8 (gage height, 2.74 feet).

1924–1927: Maximum discharge not determined; maximum stage, 22.0 feet November 6, 1925; no flow July 17 to August 18, 1925.

REMARKS.—Records fair. Small amount of water diverted for municipal use.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	117	16	30	30	275	387	147	36	55	33	8.6
2	8.2	139	16	30	30	249	297	143	28	63	21	8.2
3	9.0	102	19	28	30	229	249	135	21	181	19	7.4
4	9.0	95	23	26	30	224	229	131	19	78	18	7.0
5	9.0	33	30	24	387	224	219	124	1,380	64	18	7.0
6	9.0	21	30	23	1,320	224	219	113	1,320	381	15	7.0
7	9.7	15	30	23	511	224	219	109	640	109	15	6.2
8	10	15	113	23	259	2,220	219	106	172	61	15	6.2
9	10	15	536	19	3,640	1,030	219	95	75	47	14	8.2
10	10	14	167	19	2,880	505	219	88	61	36	13	9.7
11	95	13	186	19	1,020	406	214	85	113	31	13	8.2
12	58	13	156	19	770	344	210	85	68	28	13	7.8
13	36	13	109	30	668	308	3,120	1,740	99	26	12	7.8
14	30	15	68	31	604	297	897	443	4,790	26	12	21
15	702	23	50	30	542	297	480	239	406	34	12	12
16	865	21	36	30	511	297	314	147	186	187	10	7.4
17	239	19	28	30	442	297	269	113	131	55	9.7	7.0
18	139	19	21	30	387	297	264	106	109	39	9.7	7.0
19	131	18	19	30	356	297	573	85	102	30	9.7	7.0
20	168	16	26	33	325	750	635	64	92	26	8.6	7.0
21	135	16	55	33	319	748	505	64	874	23	8.6	92
22	127	16	164	33	308	449	505	55	1,280	21	8.6	23
23	474	16	127	33	280	381	412	53	326	713	8.2	9.7
24	186	16	124	33	254	337	291	50	476	1,280	7.4	7.4
25	147	16	106	33	244	319	234	50	186	152	6.6	7.0
26	85	16	92	33	229	303	210	256	95	174	7.4	7.0
27	36	16	81	33	224	297	186	95	78	634	9.7	9.7
28	33	16	61	33	224	297	172	61	64	303	12	71
29	33	16	47	33	-------	780	160	55	61	177	13	95
30	222	16	41	30	-------	595	152	31	58	135	11	85
31	216	-------	36	30	-------	449	-------	64	-------	64	9.7	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	865	8.2	137	8,430
November	139	13	29.9	1,780
December	536	16	84.3	5,180
January	33	19	28.5	1,750
February	3,640	30	601	33,400
March	2,220	224	450	27,700
April	3,120	152	409	24,400
May	1,740	31	166	10,200
June	4,790	19	445	26,500
July	1,280	21	169	10,400
August	33	6.6	12.7	779
September	95	6.2	19.1	1,140
The year	4,790	6.2	209	152,000

SAN GABRIEL RIVER AT CIRCLEVILLE, TEX.

LOCATION.—Chain gage on highway bridge half a mile southeast of Circleville, Williamson County, and half a mile above Missouri, Kansas & Texas Railway bridge.

DRAINAGE AREA.—602 square miles.

RECORDS AVAILABLE.—February, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year not determined; maximum stage 20.4 feet February 9; minimum, 2.2 second-feet September 11 and 12 (gage height, 1.62 feet).

1924–1927: Maximum discharge not determined; maximum stage, 28.70 feet April 21, 1926; no flow September 5, 6, 8, and 11, 1924. The river reached a stage of 40.6±0.5 feet September, 1913.

REMARKS.—Records fair. Mean daily gage height, in feet, on days when stage was beyond limit of rating curve as follows: February 8, 11.35; February 9, 9.16; March 29, 8.35; April 8, 7.9; April 13, 5.42; April 19, 9.18; and June 6, 8.2. Several small diversions for municipal uses above station; amount diverted not known.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	31	23	61	67	210	272	186	71	83	22	6.2
2	20	90	26	62	62	210	248	181	67	68	20	5.8
3	19	85	26	62	61	198	235	179	66	60	19	5.8
4	16	67	25	59	58	198	222	179	63	56	19	5.8
5	17	52	23	59	61	210	210	174	67	49	19	5.4
6	15	44	23	59	531	210	210	174	-------	55	17	4.8
7	14	41	79	57	420	285	492	167	341	57	16	3.7
8	14	37	100	57	165	734	-------	158	169	55	16	3.0
9	14	33	129	54	-------	399	341	147	129	53	14	2.8
10	14	31	145	52	-------	299	248	136	114	50	14	2.6
11	19	29	87	54	922	285	235	127	100	49	12	2.4
12	16	26	62	54	698	248	222	154	90	49	12	5.1
13	22	23	62	67	560	235	-------	736	183	45	12	7.9
14	43	31	52	62	429	210	748	285	1,220	43	12	7.9
15	259	26	50	62	369	210	313	179	268	40	12	8.6
16	87	26	46	62	355	210	235	138	144	37	9.6	9.3
17	81	28	46	59	327	198	222	116	112	35	8.6	9.3
18	52	29	49	59	299	198	626	114	353	35	7.6	8.6
19	26	27	49	59	285	210	-------	112	548	34	6.8	9.0
20	47	26	58	100	285	810	594	112	129	33	6.5	16
21	50	26	72	72	285	770	932	110	471	31	6.8	18
22	55	27	59	70	272	429	429	108	288	30	7.2	14
23	1,240	26	59	65	260	313	341	108	470	31	7.6	12
24	653	26	59	64	235	285	299	104	658	37	7.9	11
25	119	26	61	65	210	260	285	108	181	35	7.9	10
26	59	27	72	67	210	260	260	125	104	33	7.6	9.6
27	44	26	64	70	210	260	248	100	83	31	7.6	11
28	35	26	65	70	248	294	222	90	88	30	7.2	19
29	39	26	65	67	-------	-------	210	80	78	29	6.8	19
30	39	25	65	67	-------	461	210	74	100	27	7.2	20
31	28	-------	64	67	-------	313	-------	74	-------	25	6.5	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,240	14	102	6,300
November	90	23	34.8	2,070
December	145	23	60.2	3,700
January	100	52	63.4	3,900
February	----------	58	----------	----------
March	----------	198	----------	----------
April	----------	210	----------	----------
May	736	74	156	9,590
June	----------	63	----------	----------
July	83	25	42.7	2,630
August	22	6.5	11.5	705
September	20	2.4	9.12	543
The year	----------	2.4	----------	----------

YEGUA CREEK NEAR SOMERVILLE, TEX.

LOCATION.—Chain gage on Gulf, Colorado & Sante Fe Railway bridge, 2 miles south of Somerville, Burleson County. Gage reading gives distance between water surface and base of rail.

DRAINAGE AREA.—990 square miles.

RECORDS AVAILABLE.—May, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,600 second-feet April 13 (gage height, −22.6 feet); no flow September 29 and 30.

1924–1927: Maximum discharge, about 29,500 second-feet April 22, 1926 (gage height, −18.02 feet); no flow during several periods.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. No diversions above station. Flow partly regulated by swamp upstream.

Daily and monthly discharge, in second-feet, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	868	0.2	73.8	4,540
November	1,560	3.4	201	12,000
December	6,250	3.4	828	50,900
January	290	17	63.9	3,930
February	1,560	28	322	17,900
March	1,450	48	489	30,100
April	8,700	20	1,020	60,400
May	64	11	25.4	1,560
June	660	4.4	137	8,130
July	1,560	5.5	242	14,900
August	----------	----------	[a] 2.5	154
September	----------	----------	[a] .4	23.8
The year	8,700	----------	282	205,000

[a] Estimated.

NAVASOTA RIVER NEAR EASTERLY, TEX.

LOCATION.—Inverted staff gage at International & Great Northern Railway bridge 6 miles northeast of Easterly, Robertson County. Zero of gage is 301.24 feet above mean sea level.

DRAINAGE AREA.—949 square miles.

RECORDS AVAILABLE.—March, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 9,400 second-feet January 22 (gage heights, −9.40 feet); minimum, 0.7 second-foot September 5–17 (gage height, −25.2 feet).

1924–1927: Maximum discharge, about 10,200 second-feet April 23, 1926 (gage height, −9.1 feet); no flow during several periods.

REMARKS.—Records fair. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	177	9.6	770	64	112	191	74	40	106	6.4	2.0
2	2.0	149	9.6	522	64	112	191	69	25	106	5.0	2.0
3	2.0	124	9.6	522	64	112	177	69	22	94	5.0	2.0
4	2.0	112	9.6	301	177	177	156	59	22	a89	3.8	a1.4
5	2.0	100	9.6	205	246	257	124	59	22	84	3.8	.7
6	2.0	69	14	136	770	366	112	59	22	74	2.8	.7
7	2.0	203	79	79	1,460	522	94	59	49	54	2.8	a.7
8	2.0	522	168	59	2,320	748	94	a111	332	49	2.8	.7
9	2.0	522	630	59	3,400	1,460	94	163	290	40	2.8	.7
10	2.0	502	1,400	112	2,800	1,460	94	502	268	36	2.8	.7
11	2.0	279	3,390	112	2,320	1,280	94	770	130	28	2.8	.7
12	2.0	257	3,230	112	2,010	950	94	704	a87	25	2.8	.7
13	2.0	177	1,940	79	1,400	950	177	662	44	25	2.8	.7
14	2.0	177	1,160	32	1,250	748	301	502	188	19	a2.8	.7
15	2.0	112	522	32	1,250	642	325	542	526	16	2.8	.7
16	12	59	239	79	980	542	312	990	1,340	14	2.8	.7
17	116	49	100	124	704	482	618	1,690	1,750	a13	2.0	.7
18	239	40	79	257	522	445	1,840	1,840	2,380	12	2.0	a5.2
19	312	32	69	191	522	411	2,700	757	3,600	12	2.0	9.6
20	338	25	59	290	381	381	2,450	248	2,380	12	2.0	9.6
21	351	25	69	1,210	257	366	1,600	79	1,750	12	2.0	8.0
22	366	19	163	8,040	177	351	1,560	79	1,830	12	2.0	6.4
23	381	19	250	9,060	112	351	1,460	54	2,210	12	2.0	5.0
24	366	14	627	7,360	112	279	894	54	1,960	12	2.0	3.8
25	351	12	820	1,920	112	248	482	100	1,340	9.6	2.0	a3.3
26	312	12	980	1,190	112	239	312	112	870	9.6	2.0	2.8
27	279	9.6	980	616	112	239	142	156	726	8.0	2.0	2.8
28	239	9.6	980	239	112	205	84	156	542	8.0	2.0	2.8
29	230	9.6	770	177	-------	191	84	a115	325	8.0	2.0	2.8
30	221	9.6	770	112	-------	191	79	74	142	6.4	2.0	2.8
31	191	-------	770	112	-------	191	-------	59	-------	6.4	2.0	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	381	2.0	140	8,600
November	522	9.6	128	7,590
December	3,390	9.6	655	40,300
January	9,060	32	1,100	67,700
February	3,400	64	850	47,200
March	1,460	112	484	29,800
April	2,700	79	564	33,600
May	1,840	54	354	21,800
June	3,600	22	840	50,000
July	106	6.4	32.6	2,010
August	6.4	2.0	2.74	168
September	9.6	.7	2.71	161
The year	9,060	.7	427	309,000

a Interpolated.

COLORADO RIVER BASIN

COLORADO RIVER NEAR ROBERT LEE, TEX.

LOCATION.—Staff gage 6 miles southeast of Robert Lee, Coke County.

DRAINAGE AREA.—15,900 square miles, large part of which is probably noncontributing.

RECORDS AVAILABLE.—October, 1923, to December, 1927, when station was discontinued.

EXTREMES.—Maximum discharge during the period October 1, 1926, to December 31, 1927, 9,990 second-feet April 13 (gage height, 9.90 feet); no flow May 26–28.

1923–1927: Maximum discharge, about 32,500 second-feet September 6, 1926 (gage height, 20.20 feet); no flow during several periods.

REMARKS.—Records fair. Discharge interpolated December 25, 1926, February 5, May 21, July 11, and December 28, 1927. About 1,700 acres declared irrigated above station.

Daily discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926-27												
1	24	45	9.6	28	17	9.6	1.7	3.2	1.0	1.4	45	5.2
2	27	50	9.6	25	14	7.8	1.4	4.8	.5	1,990	40	2.8
3	138	40	9.6	24	14	7.8	.8	9.6	1.0	956	128	2.0
4	211	39	9.0	22	13	7.2	.5	5.6	.4	136	71	5.2
5	2,030	39	9.6	20	22	8.4	.5	95	340	333	50	375
6	1,170	38	1,110	18	30	6.0	.5	38	1,050	142	38	432
7	538	37	475	18	24	24	1.1	20	369	161	28	292
8	332	36	441	18	20	22	1.1	6.0	107	59	24	150
9	161	31	211	17	27	17	1.1	5.2	227	43	20	116
10	112	27	133	17	24	13	.8	2.4	170	27	7.2	95
11	89	27	101	14	24	11	.6	1.1	85	20	4.0	40
12	75	24	68	17	20	12	24	1.1	50	12	46	34
13	65	24	64	15	20	11	3,960	54	32	7.2	24	25
14	4,170	23	50	14	20	7.2	257	15	83	90	11	18
15	2,180	22	41	12	20	5.6	62	6.0	29	356	5.2	14
16	1,990	20	39	12	18	5.2	36	3.6	15	708	1.7	9.6
17	3,550	19	33	12	25	5.2	38	1.7	17	508	1.2	9.0
18	1,100	17	29	13	25	5.2	31	1.1	30	170	1.1	5.6
19	647	17	29	13	22	4.4	22	.4	97	110	186	4.4
20	568	15	36	13	16	3.6	18	.4	567	65	107	2.8
21	227	15	44	13	16	3.2	31	.4	69	43	640	179
22	155	14	40	13	14	2.8	36	.4	68	31	170	89
23	133	14	68	14	12	2.8	29	.4	62	168	581	65
24	89	14	68	15	11	1.8	29	.3	39	264	208	50
25	75	12	59	16	9.0	1.8	22	.1	29	324	128	34
26	66	11	50	15	9.0	1.7	15	0	11	599	76	2,820
27	62	11	43	17	9.0	1.7	9.6	0	7.2	205	46	4,340
28	53	10	39	15	9.0	1.7	7.2	0	3.6	133	31	2,150
29	50	10	40	20	-------	1.7	6.6	5.2	2.0	240	22	676
30	48	9.6	36	19	-------	2.0	5.2	3.6	2.0	78	14	332
31	44	-------	31	17	-------	2.0	---------	2.0	---------	78	7.2	-------

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1927				1927				1927			
1	1,280	4.4	0.4	11	158	1.6	0.5	21	18	0.8	1.6
2	312	4.4	.4	12	152	1.4	.5	22	15	.6	1.7
3	182	3.6	.4	13	107	1.4	.8	23	14	.6	1.7
4	95	3.2	.3	14	73	1.4	1.4	24	13	.5	2.4
5	65	2.8	.3	15	50	1.4	1.2	25	11	.5	2.0
6	50	2.4	.3	16	40	1.2	.8	26	9.6	.5	2.8
7	45	2.0	.4	17	32	1.1	.6	27	8.4	.5	2.8
8	39	1.8	.4	18	27	1.0	.5	28	6.6	.5	4.2
9	36	1.8	.5	19	24	.8	.5	29	7.2	.4	5.6
10	33	1.8	.5	20	20	1.1	.5	30	6.0	.4	5.6
								31	5.2	-------	5.6

Monthly discharge of Colorado River near Robert Lee, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1926–27				
October	4,170	24	651	40,000
November	50	9.6	23.7	1,410
December	1,110	9.0	110	6,790
January	28	12	16.6	1,020
February	30	9.0	18.0	1,000
March	24	1.7	6.98	429
April	3,960	.5	155	9,220
May	95	0	9.25	568
June	1,050	.4	119	7,070
July	1,990	1.4	260	16,000
August	640	1.1	89.1	5,480
September	4,340	2.0	412	24,500
The year	4,340	0	157	113,000
1927				
October	1,280	5.2	94.6	5,820
November	4.4	.4	1.53	91.0
December	5.6	.3	1.52	93.6
The period				6,000

COLORADO RIVER AT BALLINGER, TEX.

LOCATION.—Staff gage two-thirds of a mile below Gulf, Colorado & Santa Fe Railway bridge at Ballinger, Runnels County.

DRAINAGE AREA.—16,800 square miles, large part of which is probably noncontributing.

RECORDS AVAILABLE.—December, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 13,700 second-feet October 14 (gage height, 16.1 feet); minimum, 2.8 second-feet June 1–5 (gage height, 1.18 feet).

1916–1927: Maximum discharge, about 28,000 second-feet April 26, 1922 (gage height, 26.0 feet, on United States Weather Bureau gage half a mile upstream); no flow during several periods.

REMARKS.—Records for low and medium stages fair, and for high stages poor. About 6,900 acres declared irrigated above station; during low stages the diversions are large part of total flow.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	66	30	40	27	24	17	18	2.8	10	102	15
2	38	73	30	37	26	22	15	15	2.8	7.0	55	14
3	40	70	30	37	26	21	14	14	2.8	1,640	33	7.5
4	152	64	30	33	26	21	14	14	2.8	829	88	12
5	1,200	59	30	32	28	21	12	75	2.8	113	66	1,490
6	1,560	59	3,650	30	304	22	10	104	281	303	47	386
7	666	55	4,160	30	102	1,330	11	75	748	186	33	338
8	263	53	582	30	197	142	17	40	438	102	27	282
9	299	51	410	27	91	57	22	24	198	66	17	143
10	194	47	257	27	124	44	15	18	186	49	12	93
11	146	47	164	26	102	35	13	15	213	35	7.5	80
12	118	44	127	24	66	33	10	1,240	107	26	829	62
13	91	44	107	27	47	27	3,930	467	73	27	91	38
14	5,570	44	102	27	40	26	3,240	83	57	148	37	47
15	3,830	40	64	24	35	24	291	53	60	276	17	32
16	1,880	38	55	24	33	24	156	35	66	537	8	20
17	4,960	35	53	24	33	21	86	24	38	582	5	15
18	1,810	35	51	24	30	21	75	18	27	316	5	13
19	1,000	33	47	24	33	21	75	14	57	171	40	12
20	582	35	46	24	33	18	57	11	116	121	91	66
21	361	38	134	24	32	18	47	11	688	70	447	55
22	240	35	104	24	30	16	38	7.5	305	53	1,090	24
23	183	33	64	27	30	16	51	7.5	821	42	912	53
24	146	33	57	27	30	16	47	6.5	102	998	551	86
25	124	33	80	27	27	14	47	5.5	53	1,640	171	59
26	107	33	70	27	24	14	42	5.5	44	748	127	1,840
27	91	33	60	27	24	15	37	5.5	37	438	73	4,240
28	83	30	66	27	24	16	30	4.5	26	1,410	55	7,170
29	73	30	60	27	-------	18	30	3.5	17	221	37	1,240
30	70	30	51	27	-------	17	24	4.0	13	175	28	582
31	68	-------	47	24	-------	21	-------	3.5	-------	102	20	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	5,570	38	886	51,500
November	73	30	44.0	2,620
December	4,160	30	349	21,500
January	40	24	27.7	1,700
February	304	24	58.0	3,220
March	1,330	14	68.9	4,230
April	3,930	10	282	16,800
May	1,240	3.5	78.1	4,800
June	821	2.8	159	9,490
July	1,640	7.0	369	22,700
August	1,090	5.0	165	10,200
September	7,170	7.5	617	36,700
The year	7,170	2.8	256	185,000

COLORADO RIVER NEAR MILBURN, TEX.

LOCATION.—Staff gage at steel highway bridge 1½ miles northwest of Milburn, McCullough County.

DRAINABLE AREA.—24,600 square miles, large part of which is probably non-contributing.

RECORDS AVAILABLE.—November, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 24,400 second-feet Aprl 21 (gage height, 28.1 feet); minimum, 13 second-feet June 4 (gage height, 3.79 feet). 1924–1927: Maximum discharge, 35,100 second-feet April 23, 1926 (gage height, 36.1 feet); minimum, 0.6 second-foot August 10, 1924 (gage height, 3.08 feet).

REMARKS.—Records fair. About 18,000 acres declared irrigated above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	66	150	46	167	108	98	382	81	16	55	252	52
2	65	150	54	153	105	98	219	57	14	44	175	42
3	e 62	207	54	145	103	96	153	50	13	36	129	37
4	58	164	52	142	101	94	122	46	13	322	115	30
5	51	158	50	137	103	85	98	45	361	580	83	24
6	52	e 147	79	132	103	89	94	39	2,960	322	e 62	e 477
7	1,650	e 135	9,230	127	108	269	70	33	1,560	210	42	930
8	930	124	13,400	127	615	2,430	63	81	1,930	195	38	430
9	720	105	1,740	122	755	755	57	139	1,150	219	46	342
10	515	101	e 1,560	117	685	382	54	213	486	167	42	304
11	304	101	1,380	112	456	286	48	137	322	108	36	219
12	252	87	430	105	361	236	42	430	e 296	78	31	150
13	252	87	304	103	322	198	46	3,160	269	63	28	122
14	e 9,900	87	286	103	269	169	1,630	2,540	219	9,290	22	98
15	e 14,500	83	e 258	103	236	164	2,880	860	142	8,170	219	78
16	e 7,360	79	e 230	103	204	153	825	404	92	304	158	52
17	e 3,900	62	e 203	103	181	382	486	286	85	e 547	74	42
18	e 2,130	62	175	103	164	930	304	e 217	72	755	46	37
19	e 1,530	55	167	105	148	404	236	148	51	515	31	e 61
20	930	55	167	105	132	210	198	103	94	342	25	85
21	1,000	54	183	e 107	127	145	13,700	92	e 182	252	23	66
22	1,080	52	181	e 108	120	129	486	81	269	192	342	57
23	548	48	181	110	117	115	236	60	156	1,080	515	46
24	382	46	404	112	117	103	153	51	167	1,150	515	42
25	304	e 46	269	117	112	96	269	44	145	269	e 460	63
26	252	e 47	219	115	112	96	98	37	304	1,150	404	57
27	236	47	192	112	108	96	89	31	252	1,080	269	87
28	192	e 52	192	115	108	150	94	28	164	515	e 210	5,950
29	150	58	189	117	-------	515	e 88	23	108	269	150	7,780
30	150	55	175	112	-------	1,560	81	21	78	615	101	2,130
31	150	-------	169	110	-------	1,000	-------	18	-------	e 434	68	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	14,500	51	1,600	98,500
November	207	46	90.1	5,360
December	13,400	46	1,040	63,960
January	167	103	118	7,240
February	755	101	221	12,300
March	2,430	85	372	22,900
April	13,700	42	777	46,200
May	3,160	18	308	19,000
June	2,960	13	399	23,700
July	9,290	36	946	58,200
August	515	22	152	9,340
September	7,780	24	663	39,500
The year	14,500	13	561	406,000

e Estimated or interpolated.

COLORADO RIVER NEAR TOW, TEX.

LOCATION.—Water-stage recorder at highway bridge 1¼ miles northeast of Tow, Llano County.

DRAINAGE AREA.—31,100 square miles, large part of which is probably non-contributing.

RECORDS AVAILABLE—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 18,900 second-feet April 23 (gage height, 14.55 feet); minimum, 115 second-feet May 12 (gage height, 5.75 feet).

1923–1927: Maximum discharge, 27,000 second-feet May 12, 1925 (gage height, 16.74 feet); minimum, 24 second-feet January 10, 1925 (gage height, 5.00 feet).

Highest known stage, 28.4 feet (on present gage) April, 1900.

REMARKS.—Records good. Numerous small diversions above station; amount diverted not known.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	159	304	132	399	261	362	2,300	205	159	344	713	205
2	148	387	132	393	265	350	1,060	196	151	266	463	196
3	142	545	136	368	244	350	746	179	142	288	333	187
4	171	456	136	368	234	333	517	215	136	229	293	183
5	187	393	132	350	288	327	393	183	412	201	229	179
6	316	316	136	339	816	322	322	175	4,020	191	201	179
7	201	266	544	333	603	468	277	163	5,570	640	191	175
8	151	244	949	327	423	849	282	159	3,780	574	183	500
9	753	220	9,709	316	2,760	1,270	239	148	2,430	418	179	930
10	1,070	215	3,740	304	6,770	2,300	220	139	2,040	339	171	589
11	796	201	1,840	293	3,320	1,360	201	129	1,300	339	167	497
12	596	183	1,350	282	1,840	921	183	120	903	322	163	387
13	470	179	987	288	1,370	688	196	1,710	771	250	159	333
14	2,270	179	762	282	1,130	596	489	7,870	5,350	220	151	271
15	8,310	175	634	271	1,060	504	1,110	5,710	4,860	3,440	148	215
16	13,700	175	538	271	958	456	4,960	2,450	2,290	7,870	144	191
17	10,600	159	490	266	822	430	1,720	1,240	940	2,010	142	191
18	4,280	148	444	255	696	424	987	805	649	746	142	191
19	4,200	142	411	255	603	688	762	589	497	483	142	201
20	3,180	139	387	261	560	1,040	538	463	393	649	142	229
21	1,840	136	424	271	510	849	450	362	418	704	142	304
22	1,480	132	444	277	476	596	11,900	288	387	524	139	314
23	1,400	132	411	271	450	476	14,300	244	570	411	227	424
24	1,500	129	393	271	430	411	2,360	215	949	344	377	282
25	958	129	424	277	405	362	729	902	688	4,060	279	220
26	649	132	574	282	393	344	476	563	779	1,200	688	210
27	517	132	649	282	374	316	380	255	1,060	696	696	220
28	411	139	531	288	362	504	316	191	805	1,700	560	1,780
29	350	136	463	288	------	5,480	266	187	567	1,100	444	5,260
30	490	132	430	277	------	3,500	225	183	444	746	316	8,650
31	362	------	411	271	------	3,560	------	171	------	1,030	239	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	13,700	142	1,990	122,000
November	545	129	212	12,600
December	9,790	132	930	57,200
January	399	255	299	18,400
February	6,770	234	1,010	56,400
March	5,480	316	982	60,400
April	14,300	183	1,630	97,000
May	7,870	120	852	52,400
June	5,570	136	1,450	86,200
July	7,870	191	1,040	64,100
August	713	139	277	17,000
September	8,650	175	790	47,000
The year	14,300	120	954	691,000

COLORADO RIVER AT AUSTIN, TEX.

LOCATION.—Water-stage recorder at Congress Avenue viaduct in Austin, Travis County. Zero of gage is 421.77 feet above mean sea level.

DRAINAGE AREA.—38,200 square miles, part of which is probably noncontributing.

RECORDS AVAILABLE.—February, 1898, to September, 1927.

EXTREMES.—Maximum discharge during year, 46,000 second-feet February 10 (gage height, 12.25 feet); minimum, 112 second-feet August 24 (gage height, 0.09 foot).

1898–1927: Maximum discharge, about 236,000 second-feet a few minutes after failure of Austin Dam April 7, 1900 (gage height, 33.5 feet). At the time of failure, the depth of water over dam was 11.07 feet (computed discharge, 151,000 second-feet); the flood appeared to be practically at its crest when the dam failed. Minimum discharge, 13 second-feet August 18, 1918.

REMARKS.—Records good. About 36,000 acres declared irrigated above station. Flow at low stages affected by storage in Lake Austin; power plant at dam not operated since 1918.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	307	840	367	930	679	994	4,340	1,170	530	1,310	1,460	520
2	283	1,330	374	855	679	870	4,020	1,040	446	1,060	1,080	420
3	240	1,580	374	798	668	885	3,070	945	404	900	1,100	367
4	319	2,850	367	786	668	840	2,010	900	381	825	945	301
5	255	2,700	395	750	679	855	1,650	798	367	900	714	260
6	225	1,990	404	714	750	870	1,350	798	1,610	774	580	225
7	195	1,520	530	702	1,690	945	1,110	738	14,800	750	480	195
8	154	1,310	570	690	3,990	1,220	6,410	762	12,000	762	412	183
9	230	994	624	679	8,730	1,440	11,100	762	8,190	635	395	158
10	480	774	2,140	657	36,600	2,880	4,520	702	5,220	602	339	154
11	472	657	8,360	602	17,300	2,580	2,550	635	3,520	738	307	144
12	490	613	5,390	568	10,500	3,090	1,750	602	3,010	657	260	395
13	960	550	3,150	690	6,440	2,500	1,440	702	2,300	580	230	591
14	900	602	2,380	646	4,690	1,970	1,600	1,060	2,100	540	207	540
15	930	580	1,940	613	3,640	1,600	3,070	3,210	1,860	530	203	490
16	2,600	490	1,560	646	2,930	1,390	2,780	8,890	5,650	510	183	446
17	12,200	570	1,330	624	2,550	1,260	2,580	6,160	6,440	2,760	183	381
18	15,500	446	1,150	668	2,260	1,130	4,860	3,490	3,880	6,790	164	367
19	9,040	454	1,030	646	1,970	1,030	4,690	2,380	2,380	3,370	144	332
20	5,390	463	945	646	1,840	1,520	7,230	1,900	1,920	1,880	132	307
21	5,220	454	915	591	1,610	3,170	4,210	1,480	1,840	1,260	125	360
22	3,990	404	825	646	1,520	3,890	3,580	1,150	1,880	885	128	325
23	2,900	404	855	602	1,390	2,420	3,180	930	2,170	798	125	295
24	2,980	404	915	624	1,270	1,800	16,700	870	2,010	915	125	265
25	3,610	388	870	635	1,220	1,440	9,930	1,100	1,630	840	138	332
26	3,290	429	840	657	1,100	1,240	4,090	1,060	1,750	738	199	367
27	2,750	388	870	646	1,040	1,100	2,480	762	1,750	2,400	301	490
28	1,920	381	870	657	1,030	1,010	1,900	1,030	1,390	2,620	395	520
29	1,440	412	945	702	-------	994	1,540	1,100	1,350	1,900	446	480
30	1,170	381	1,110	738	-------	1,710	1,330	825	1,520	1,670	624	632
31	977	-------	1,060	702	-------	5,040	-------	635	-------	1,880	613	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	15,500	154	2,630	161,000
November	2,850	381	845	50,300
December	8,360	367	1,400	86,200
January	930	568	681	41,900
February	36,600	668	4,270	237,000
March	5,040	840	1,730	106,000
April	16,700	1,110	4,040	240,000
May	8,890	602	1,570	96,400
June	14,800	367	3,140	187,000
July	6,790	510	1,380	84,900
August	1,460	125	411	25,300
September	632	144	361	21,500
The year	36,600	125	1,850	1,340,000

EVAPORATION NEAR AUSTIN, TEX.

LOCATION.—At reservoir on Hill ranch 5 miles southeast of Austin, Travis County. Elevation, 475 feet above sea level.

RECORDS AVAILABLE.—April, 1916, to September, 1927.

EQUIPMENT.—Two evaporation pans; one pan floating on surface of reservoir, and the otner on land 30 feet from reservoir. Auxiliary equipment consists of hook gage, rain gage, anemometer, maximum and minimum thermometers, and psychrometer.

REMARKS.—Reservoir is 250 feet long and 30 feet wide. Moss and weed growth in reservoir may at times affect results. Records from land pan more accurate than those from floating pan. Observations made daily at 8 a. m. Computations made by United States Weather Bureau.

Evaporation near Austin, Tex., 1926–27

Month	Temperature (°F.)					Mean relative humidity (per cent)[b]	Wind		Rainfall (inches)	Evaporation (inches)	
	Air			Water			Average velocity (miles an hour)	Prevailing direction		Floating pan	Land pan
	Mean maximum	Mean minimum	Mean	Floating pan (mean)	Land pan (mean)						
October	83.8	61.8	72.8	70.8	67.0	88	1.7	S.	4.26	[a]3.637	5.277
November	68.3	41.3	54.8	54.2	49.3	80	2.5	N.	2.76	[a]2.664	3.680
December	59.3	39.1	49.2	51.0	48.6b	87	2.8	N.	3.98	[a]1.701	1.838
January	62.7	38.2	50.4	50.3a	46.3a	85	2.7	N.	1.76	[a]1.502	2.397
February	69.4	44.5	57.0	55.0a	51.9a	86	2.3	N.	2.94	[a]1.677	3.546
March	71.6	48.0	59.8	59.1a	55.3	86	2.6	S.	2.57	2.787	3.908
April	82.1	58.7	70.4	69.1	65.3	87	1.8	S.	4.12	4.140	6.227
May	89.5	67.3	78.3	75.5	72.1	87	1.3	S.	2.92	5.333	7.773
June	89.4	68.9	79.2	79.3	74.9	90	.9	E.	5.37	5.517	6.749
July	94.8	71.1	83.0	81.4	77.5	86	.6	S.	1.37	6.455	8.269
August	97.8c	69.9c	83.8c	79.9c	75.4c	81	.7	S.	.27	7.162	8.855
September	90.2	65.7	78.0	77.3	71.6	88	1.0	S.	4.81	4.909	[a]6.294
The year	79.9	56.2	68.1	66.9	62.9	--------	1.7	S.	37.13	47.484	64.813

[a] Estimated.

[b] Humidty figures given are for the regular Weather Bureau station at Austin. The data furnished by Hill ranch station are questionable.

NOTE.—Letters following figures indicate number of days missing: a, 1 day; b, 2 days; etc.

COLORADO RIVER AT COLUMBUS, TEX.

LOCATION.—Water-stage recorder at county highway bridge in eastern edge of Columbus, Colorado County, and 400 feet below Galveston, Harrisburg & San Antonio Railway bridge.

DRAINAGE AREA.—40,800 square miles, large part of which is probably non-contributing.

RECORDS AVAILABLE.—January, 1903, to December, 1911, and May, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 42,600 second-feet April 14 (gage height, 27.15 feet); minimum, 212 second-feet August 29 and 30 (gage height, 5.60 feet).

1903–1911, 1916–1927: Maximum discharge, about 79,500 second-feet May 5, 1922 (gage height, 38.3 feet); minimum, 10 second-feet September 9 and 10, 1910.

Stage of about 44.6 feet was reached in 1869 and December 6, 1913, when the river divided into two channels and left Columbus on an island.

REMARKS.—Records fair. Discharge partly estimated October 29, 30, December 13, April 3, 9, 11, and 14. Daily gage heights February 1–12, April 21, 22, 25, and May 12 to June 24 furnished by United States Weather Bureau. About 36,000 acres declared irrigated above Austin. Flow during low stages is partly controlled by storage in Lake Austin.

Daily and monthly discharge, in second-feet, of Colorado River at Columbus, Tex., 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	862	2,360	710	1,230	830	2,100	1,600	2,600	992	2,700	2,140	328
2	806	5,160	698	1,300	812	2,680	2,800	2,230	1,090	4,760	1,860	400
3	770	4,410	716	1,300	770	2,480	4,670	1,930	960	5,800	1,930	570
4	728	4,150	710	1,230	764	1,710	4,540	1,710	734	3,520	1,710	764
5	904	2,800	704	1,120	764	1,480	4,150	1,560	535	2,100	1,410	600
6	692	2,320	698	1,090	764	1,410	3,330	1,410	716	1,970	1,300	575
7	590	3,000	800	1,020	764	1,340	3,060	1,340	960	1,740	1,230	520
8	565	2,900	6,440	1,020	859	2,160	2,180	1,200	1,200	1,520	1,090	460
9	550	2,360	14,100	960	2,220	3,720	1,900	1,160	8,000	1,260	862	432
10	525	2,010	6,810	960	1,520	5,950	3,700	1,090	9,030	1,120	764	414
11	682	1,820	3,570	928	18,000	3,570	6,040	1,020	7,120	1,090	680	368
12	590	1,600	2,460	928	18,500	2,700	5,800	960	5,650	992	628	336
13	490	1,370	5,710	960	13,100	3,330	4,800	992	4,940	960	570	324
14	862	1,500	5,520	960	9,200	3,330	27,400	992	5,650	862	510	306
15	1,600	1,240	4,410	960	7,020	3,440	15,900	1,340	5,360	895	445	356
16	1,310	1,120	3,440	960	5,800	2,700	5,220	1,670	6,550	862	432	324
17	2,500	1,060	2,800	960	5,080	2,360	4,150	1,420	4,090	830	418	580
18	2,010	1,020	2,410	928	4,280	2,010	4,670	4,250	6,970	818	340	722
19	7,120	992	2,050	895	3,910	1,820	4,030	6,860	6,860	812	306	656
20	10,000	928	1,860	895	3,440	2,160	4,760	4,820	5,800	2,720	320	545
21	7,210	928	2,450	895	3,000	4,900	7,580	3,440	4,540	4,670	392	485
22	5,610	862	2,900	1,090	2,800	4,030	9,400	2,800	4,150	3,170	299	436
23	5,220	830	2,600	1,160	2,800	3,910	6,860	2,460	4,540	2,280	274	404
24	5,500	830	3,510	960	2,360	4,280	5,500	2,230	4,150	1,710	282	388
25	4,280	824	3,300	862	2,180	3,790	5,200	1,820	3,000	1,440	268	384
26	3,550	776	1,930	830	2,050	2,900	11,400	1,560	2,700	1,740	235	388
27	3,440	746	1,600	824	1,900	2,320	7,980	1,410	2,410	1,480	254	384
28	3,670	740	1,480	824	1,780	1,970	5,650	1,800	2,140	1,370	226	364
29	3,800	722	1,340	830	-------	1,860	4,150	3,110	2,100	1,120	212	360
30	5,060	722	1,260	830	-------	1,710	3,220	2,800	2,280	2,340	212	414
31	3,120	-------	1,230	830	-------	1,630	-------	1,650	-------	2,700	235	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	10,000	490	2,730	168,000
November	5,160	722	1,740	103,000
December	14,100	698	2,910	179,000
January	1,300	824	985	60,600
February	18,500	764	4,190	233,000
March	5,950	1,340	2,770	170,000
April	27,400	1,600	6,050	360,000
May	6,860	960	2,120	130,000
June	9,030	535	3,840	229,000
July	5,800	812	1,980	122,000
August	2,140	212	704	43,300
September	764	306	453	26,900
The year	27,400	212	2,520	1,820,000

CONCHO RIVER NEAR SAN ANGELO, TEX.

LOCATION.—Water-stage recorder half a mile below confluence of North Concho and South Concho Rivers and 1¾ miles southeast of San Angelo, Tom Green County.

DRAINAGE AREA.—4,490 square miles.

RECORDS AVAILABLE.—September, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,730 second-feet October 15 (gage height, 6.37 feet); minimum, 1.8 second-feet August 10 and 11.

1915–1927: Maximum discharge, about 139,000 second-feet April 26, 1922 (gage height, 36.8 feet); no flow November 29, 1921.

REMARKS.—Records good except October 1–5, December 12–15, March 13–31, April 8–10, 14–16, and April 22 to June 23, for which periods discharge was estimated. About 11,000 acres above station and about 3,500 acres below have been declared irrigated. Flow at low water affected by diversions and storage above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	47	38	72	64	62	40			2.0	2.7	2.0
2		59	40	74	67	60	32			51	2.4	2.0
3		54	38	74	69	60	28			79	2.3	613
4		53	36	72	69	63	28			31	2.1	365
5	28	50	34	72	136	62	28			14	2.1	404
6	25	47	948	69	211	59	32			7.4	2.0	54
7	25	45	1,010	64	83	126	32			4.2	2.0	31
8	22	38	241	64	74	172	37			2.9	2.0	25
9	20	38	131	64	106	117	34			2.4	2.0	24
10	20	33	96	63	103	92	31			2.1	1.9	25
11	22	25	87	64	87	90	30	32	3.4	2.0	2.0	22
12	21	30	85	63	85	80	28			1.9	19	22
13	19	31	83	66	85	80	928			1.9	6.0	21
14	158	35	80	64	81		335			347	2.8	20
15	970	38	78	66	81		122			243	2.1	102
16	278	36	76	69	80		80			58	2.0	32
17	137	29	69	69	76		50			28	2.0	17
18	94	28	72	69	71		44			16	1.9	9.3
19	69	34	74	69	72		35			9.0	1.9	12
20	58	36	100	69	72		27			5.2	1.9	14
21	52	36	131	60	78	66	25			3.9	2.0	14
22	47	38	99	66	76		24			2.9	2.1	14
23	41	34	85	71	78				283	3.9	2.0	14
24	38	32	83	71	80				44	12	2.1	13
25	40	38	87	71	78				12	20	2.1	13
26	38	32	81	71	78		16	57	5.6	18	2.0	12
27	38	36	80	69	63				3.4	6.7	2.0	276
28	38	37	76	69	59				2.4	3.9	2.0	397
29	37	37	76	69					2.1	3.3	1.9	140
30	37	38	74	63					2.0	3.6	1.9	108
31	38		72	64		62				2.9	2.0	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	970	19	81.0	4,980
November	59	25	38.1	2,270
December	1,010	34	141	8,650
January	74	60	67.7	4,170
February	211	59	84.4	4,680
March			74.4	4,580
April	928		72.6	4,320
May			39.3	2,410
June	283		14.3	852
July	347	1.9	31.9	1,960
August	19	1.9	2.75	169
September	613	2.0	93.9	5,590
The year	1,010		61.6	44,600

CONCHO RIVER NEAR PAINT ROCK, TEX.

LOCATION.—Water-stage recorder at Concho, San Saba & Llano Valley Railroad bridge 2 miles northwest of Paint Rock, Concho County.

DRAINAGE AREA.—5,530 square miles.

RECORDS AVAILABLE.—September, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,610 second-feet October 14 (gage height, 6.86 feet); no flow during several periods.

1915–1927: Maximum discharge not determined; maximum stage, 27.5 feet April 27, 1922; no flow during several periods.

REMARKS.—Records good. Discharge estimated June 15–23. About 11,000 acres declared irrigated by diversion, practically all of which are above station. Flow during low stages materially affected by diversions and storage above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	35	35	69	61	52	61	3.6	2.4	3.2	0.3	0
2	21	44	40	71	65	52	51	3.0	2.0	2.2	.2	0
3	19	54	40	75	69	55	41	2.4	1.6	1.6	.1	105
4	19	52	41	75	69	55	35	1.8	1.3	1.2	0	730
5	21	49	43	75	69	59	30	150	1.2	5.2	0	857
6	20	47	1,820	75	377	61	27	74	278	16	0	186
7	20	47	976	75	180	164	24	158	73	9.0	0	67
8	20	46	310	69	212	188	25	77	25	4.7	0	30
8	19	41	169	65	122	185	27	44	11	2.8	0	16
10	17	35	127	63	119	130	28	27	6.9	1.5	0	9.8
11	16	34	111	63	119	111	30	19	4.7	1.0	0	6.4
12	15	34	100	65	95	98	24	287	2.8	.7	5.7	4.7
13	14	27	98	67	91	86	128	1,350	1.8	.6	11	3.4
14	1,620	27	86	65	84	84	1,060	309	1.6	1.2	5.6	3.2
15	899	27	77	63	79	79	237	133		115	2.8	11
16	696	28	71	65	77	77	133	86		149	1.7	103
17	208	30	67	67	75	258	91	63		69	1.2	41
18	127	28	65	69	69	95	67	49	1.4	40	.8	21
19	95	28	65	69	65	82	54	41		21	.7	17
20	73	25	71	71	65	75	46	33		9.8	.5	9.8
21	57	26	93	73	65	69	35	27		6.4	2.0	7.3
22	49	28	103	65	69	67	25	23	88	4.2	1.2	6.4
23	44	28	88	59	67	67	22	19	82	6.6	.7	4.7
24	43	33	73	67	69	65	19	16	218	3.0	.6	3.4
25	35	31	73	69	69	65	15	14	82	2.4	.4	3.2
26	35	31	75	71	67	61	15	11	41	1.6	.3	3.0
27	35	34	71	75	67	54	15	9.8	24	1.1	.2	2.8
28	35	34	73	73	59	52	14	7.8	14	.8	.1	512
29	35	34	67	73	------	74	11	6.4	7.3	.6	0	315
30	35	35	67	73	------	484	6.4	4.2	4.7	.5	0	133
31	34	------	69	67	------	114	------	3.0	------	.4	0	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,620	14	142	8,720
November	54	25	35.1	2,090
December	1,820	35	170	10,400
January	75	59	69.1	4,250
February	377	59	96.2	5,340
March	484	52	104	6,380
April	1,060	6.4	79.9	4,750
May	1,350	1.8	98.5	6,050
June	278	------	32.8	1,950
July	149	.4	15.6	957
August	11	0	1.16	71.6
September	857	0	107	6,370
The year	1,820	0	79.3	57,300

NORTH CONCHO RIVER NEAR CARLSBAD, TEX.

LOCATION.—Water-stage recorder just above State sanitorium dam 2 miles above Carlsbad, Tom Green County.

DRAINAGE AREA.—1,530 square miles.

RECORDS AVAILABLE.—March, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 5,360 second-feet April 13 (gage height, 7.50 feet); no flow during several periods.

1924–1927: Maximum discharge, about 35,600 second-feet May 30, 1925 (gage height, 14.45 feet); no flow during several periods.

REMARKS.—Records for low stages fair and for high stages poor. Discharge estimated December 14 to January 7, June 3–13, and 19–22. At low stages flow affected by pumping; capacity of pumps 40 second-feet, but actual amount of water diverted not known. Low-water flow partly regulated by small reservoir above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	5.1	15		16	7.9	6.8	12	3.8	0.2	0.6	0
2	.6	6.8	13		16	7.9	6.8	11	3.8	182	.4	0
3	.5	6.8	13		16	7.9	6.8	12	3.8	35	.3	198
4	.7	6.8	13	7.8	16	7.9	6.8	12		12	.2	75
5	.6	7.9	15		18	7.9	6.8	308		7.9	.1	11
6	.5	7.9	55		21	10	7.9	119		5.1	.1	5.1
7	.4	8.9	48		17	15	7.9	34		3.8	0	2.5
8	.3	8.9	26	6.8	15	15	8.9	21	3.8	2.5	0	.7
9	.3	10	17	6.8	15	11	8.9	15		1.7	0	.3
10	.3	12	15	6.8	15	10	8.9	12		1.1	0	.2
11	.3	5.8	12	5.8	15	8.9	10	10		.6	0	.1
12	.3	10	10	5.8	12	6.8	10	22		.5	0	0
13	.2	10	8.9	5.8	12	6.8	1,670	19		.3	0	0
14	123	10		5.8	12	5.8	99	26	1.5	768	0	0
15	56	11		6.8	12	5.1	29	18	1.7	78	0	0
16	45	11		7.9	11	5.1	21	13	1.7	21	0	0
17	21	10		8.9	10	5.1	16	10	1.2	12	0	0
18	11	7.9		11	8.9	5.1	15	8.9	1.1	5.8	0	0
19	7.9	10		12	8.9	5.1	13	7.9	1.1	3.2	0	0
20	6.8	16		13	7.9	5.1	12	7.9	1.7	3.2	0	0
21	5.1	17		15	7.9	5.1	11	7.9		2.2	0	0
22	4.5	19	7.8	15	7.9	5.1	11	7.9	112	1.5	0	0
23	5.1	19		15	7.9	5.1	11	6.8	7.9	2.5	0	0
24	4.5	21		15	7.9	5.8	11	6.8	2.5	19	0	0
25	4.5	18		16	7.9	5.8	11	6.8	1.5	2.5	0	0
26	5.1	17		16	7.9	6.8	11	6.8	.6	3.2	0	0
27	4.5	18		16	7.9	6.8	12	6.8	.4	3.8	0	0
28	3.8	19		17	7.9	6.8	12	5.8	.3	2.2	0	20
29	4.5	18		18	-------	6.8	12	5.1	.2	1.7	0	21
30	5.1	17		17	-------	17	12	5.1	.2	1.2	0	13
31	5.1	-------		16	-------	10	---------	4.5	-------	1.0	0	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	123	0.2	10.6	651
November	21	5.1	12.2	726
December	55	---------	12.9	796
January	18	5.8	10.8	662
February	21	7.9	12.1	670
March	17	5.1	7.76	477
April	1,670	6.8	69.5	4,140
May	308	4.5	24.8	1,530
June	112	.2	6.22	370
July	768	.2	38.2	2,350
August	.6	0	.05	3.37
September	198	0	11.6	688
The year	1,670	0	18.0	13,100

NORTH CONCHO RIVER AT SAN ANGELO, TEX.

LOCATION.—Water-stage recorder at county viaduct in San Angelo, Tom Green County, 1 mile above confluence with South Concho River.

DRAINAGE AREA.—1,800 square miles.

RECORDS AVAILABLE.—October, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,840 second-feet April 13 (gage height, 3.20 feet); no flow during several periods.

1915–1927: Maximum discharge not determined; maximum stage when backwater from Concho River probably existed, 19.3 feet April 26, 1922; no flow during several periods.

REMARKS.—Records fair except for estimated periods. About 600 acres declared irrigated above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1		4.4	5.0	9.4	12	13	12	6.8	2.3	0.2		0
2		5.0	5.0	9.4	13	13	9.4	6.8	1.8	56		
3		5.0	5.0	9.4	15	15	8.5	7.7	1.6	69		
4		5.0	5.0	9.4	15	15	9.4	6.8	1.3	22		300
5		5.0	5.0	9.4	78	15	9.4	105	7.7	9.4		
6		4.4	104	9.4	61	13	9.4	175	3.4	5.5	0	
7	0.1	4.4	22	9.4	25	61	12	46	2.0	3.1		
8		3.9	31	8.5	18	45	16	20	1.6	2.3		
9		3.9	16	8.5	29	25	12	12		1.8		
10		4.4	12	8.5	25	20	10	9.4		1.3		20
11		5.0	9.4	7.7	20	16	10	7.7		.7		
12		4.4	10	7.7	16	13	9.4	135		0	2.4	
13		3.9	8.5	7.7	15	12	883	62		0		
14		5.0	8.5	6.8	16	10	214	18		312		
15	43	5.5	8.5	6.8	16	10	62	25	1	154		50
16		3.9	8.5	6.0	16	10	34	15		43		
17		3.4	9.4	6.0	16	10	22	12		16		
18		3.1	9.4	6.0	15	10	18	8.5		9.4		
19		3.1	10	6.0	13	10	16	6.8		5.5		
20		3.1	21	5.5	13	9.4	15	6.8		3.9		
21		3.4	20	5.5	13	9.4	13	6.8		2.8		7.7
22	4	3.4	15		13	9.4	12	6.0	.4	2.0	0	
23		3.4	12		13	8.5	10	5.5	76	1.6		
24		5.0	12	8	13	8.5	10	5.0	8.5	4.8		
25		5.5	12		13	9.4	9.4	5.0	3.9	15		
26		5.0	10	10	13	8.5	9.4	4.4	2.6	9.4		
27	.5	5.5	10	12	13	9.4	9.4	3.9	1.8	3.9		
28	2.8	5.0	10	13	13	10	7.7	3.4	1.3	2.6		168
29	2.6	5.0	9.4	15	------	10	8.5	3.1	.7			
30	2.6	4.4	9.4	13	------	15	7.7	2.8	.4	1.3		
31	3.1	------	8.5	13	------	20	------	2.6	------			------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	------	------	5.87	361
November	5.5	3.1	4.38	261
December	104	5.0	14.2	876
January	15	------	8.74	538
February	78	12.	19.7	1,090
March	61	8.5	15.0	919
April	883	7.7	49.6	2,950
May	175	2.6	23.9	1,470
June	76	.4	4.34	258
July	312	0	24.6	1,510
August	------	------	.15	9.5
September	------	------	84.4	5,020
The year	------	0	21.1	15,300

PECAN BAYOU AT BROWNWOOD, TEX.

LOCATION.—Staff gage at pumping plant of city of Brownwood 800 feet above lower dam and 1 mile north of Brownwood, Brown County.

DRAINAGE AREA.—1,610 square miles.

RECORDS AVAILABLE.—May, 1917, to June, 1918, and October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,800 second-feet (revised) April 21 (gage height, 12.70 feet); no flow during several periods.

1917–18, 1923–1927: Maximum discharge, that of April 21, 1927; no flow during several periods.

REMARKS.—Records for low stages fair, and for high stages poor. Above station 590 acres declared irrigated. Flow regulated during normal stages by storage reservoir and pumping plants above gage.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	28	0	15	2.2	10	48	1.4	0	0	7.1	0
2	0	7.1	0	13	2.2	9.0	20	0	0	0	3.6	0
3	0	4.8	0	10	1.8	9.0	13	0	0	0	1.1	0
4	0	4.8	0	10	1.8	8.0	10	0	0	0	0	0
5	0	3.6	0	13	1.8	8.0	8.0	0	949	0	0	76
6	0	3.6	0	13	1.8	7.1	6.3	0	198	0	0	97
7	0	3.6	701	9.0	1.8	21	4.2	0	56	0	0	8.0
8	0	2.6	993	8.0	164	552	2.6	0	35	0	0	1.1
9	0	2.6	387	6.3	127	254	1.8	0	95	0	0	0
10	0	2.2	165	4.8	113	130	1.8	0	29	0	0	0
11	0	1.8	82	4.8	122	82	1.4	0	10	0	0	0
12	0	1.8	60	8.0	176	60	1.1	0	3.6	0	0	0
13	0	1.1	44	6.3	293	48	10	1,970	4.8	0	0	0
14	121	.5	41	6.3	256	41	11	290	6.3	2,680	0	0
15	272	0	35	4.8	146	35	6.3	82	2.6	1,070	0	0
16	567	0	35	5.5	104	29	4.8	38	0	174	0	0
17	322	0	29	5.5	73	23	3.6	15	0	52	0	0
18	197	0	20	4.8	56	17	2.2	9.0	0	15	0	0
19	127	0	23	3.6	38	17	.8	5.5	0	7.1	0	95
20	52	0	41	2.6	29	13	0	3.1	47	4.8	0	715
21	9.0	0	48	2.6	23	13	9,850	1.1	148	3.6	0	197
22	2.6	0	38	2.2	20	11	2,550	0	297	2.2	0	95
23	2.6	0	35	1.8	20	10	228	0	156	1.8	0	26
24	10	0	29	2.6	17	9.0	64	0	106	35	0	7.1
25	10	0	29	3.1	17	8.0	38	0	82	41	50	2.6
26	8.0	0	35	2.6	15	7.1	20	0	29	23	23	.5
27	7.1	0	29	2.6	13	6.3	10	0	11	11	.9	0
28	6.3	0	29	2.6	10	6.3	7.1	0	6.3	6.3	0	1,160
29	4.8	0	23	2.6	-------	5.5	4.2	0	2.6	2.6	0	653
30	3.6	0	20	2.6	-------	98	2.6	0	0	.1	0	211
31	1.8	-------	17	2.6	-------	108	---------	0	-------	0	0	--------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	567	0	55.6	3,420
November	23.0	0	2.10	125
December	993	0	96.4	5,930
January	15.0	1.8	5.88	362
February	293	1.8	65.9	3,660
March	552	5.5	53.4	3,280
April	9,850	0	431	25,600
May	1,970	0	77.9	4,790
June	949	0	75.8	4,510
July	2,680	0	133	8,180
August	50.0	0	2.76	170
September	1,160	0	111	6,600
The year	9,850	0	92.2	66,600

SAN SABA RIVER AT MENARD, TEX.

LOCATION.—Staff gage 1,000 feet above highway bridge in Menard, Menard County, and half a mile below mouth of Las Moras Creek.

DRAINAGE AREA.—1,150 square miles.

RECORDS AVAILABLE.—September, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, about 2,590 second-feet June 13 (gage height, 7.90 feet); minimum, 1.4 second-feet August 10 (gage height, 0.46 foot).

1915–1927: Maximum discharge, about 8,610 second-feet September 16, 1915 (gage height, 13.6 feet); no flow July 12–14, 19–31, August 1–4, and 26–31, 1918.

On June 5–6, 1899, river reached a stage of 25.4 feet.

REMARKS.—Records fair. Flow at low stages during irrigation season regulated by diversions to Noyes Canal, which diverts 4 miles above Menard. About 4,300 acres above gage and about 7,700 acres below declared irrigated.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	13	9.0	11	41	19	23	11	7.0	34	7.0	3.2
2	32	21	9.0	11	41	21	22	11	7.0	26	6.7	3.2
3	32	20	8.7	11	41	24	23	11	7.0	13	6.1	6.7
4	32	16	8.7	12	41	24	17	11	223	10	5.1	7.2
5	32	15	8.7	12	41	22	15	12	231	10	4.3	3.8
6	32	13	13	12	48	22	15	14	1,050	9.4	2.8	2.8
7	32	13	32	22	44	22	16	15	84	9.0	2.2	5.6
8	29	13	29	12	41	27	16	12	55	8.7	1.9	6.7
9	13	13	18	12	337	25	16	21	46	7.2	1.5	4.9
10	13	12	12	12	301	24	15	26	42	7.0	1.4	6.7
11	10	12	12	12	116	21	15	11	28	7.0	15	6.7
12	10	13	12	12	47	21	15	524	38	7.0	14	4.9
13	25	41	12	12	47	21	17	542	782	7.0	10	4.7
14	23	38	9.8	12	46	21	16	61	346	8.7	9.4	4.9
15	56	30	9.4	12	44	19	16	30	78	10	8.4	4.9
16	68	17	9.8	12	42	20	15	16	52	9.0	6.7	6.1
17	22	32	10	12	42	26	15	14	47	7.8	5.1	6.7
18	15	37	11	12	41	26	15	13	45	7.8	5.1	6.7
19	13	39	12	12	41	26	15	13	45	7.2	4.9	7.2
20	13	35	12	12	41	26	15	11	45	7.2	6.7	7.2
21	13	35	12	12	41	26	15	10	81	7.2	4.3	7.2
22	12	32	14	12	40	26	15	10	40	6.7	4.3	7.2
23	18	15	13	12	40	26	13	10	36	6.7	4.3	7.2
24	16	12	13	12	40	26	11	9.8	44	7.0	4.3	7.2
25	13	12	12	14	40	26	11	9.4	43	8.4	4.3	7.2
26	13	12	12	14	40	25	15	9.4	41	8.7	4.3	7.2
27	13	9.8	12	13	33	25	15	9.4	38	7.8	3.8	218
28	13	9.4	12	14	20	24	15	8.1	38	7.2	3.8	180
29	13	9.0	12	36	------	24	13	7.8	36	7.2	3.8	58
30	13	9.0	11	41	------	24	11	7.5	34	7.2	3.4	51
31	13	------	11	41	------	24	------	7.2	------	7.0	3.2	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	68	10	22.1	1,360
November	41	9.0	19.9	1,190
December	32	8.7	12.6	778
January	41	11	15.1	928
February	337	20	63.5	3,520
March	27	19	23.6	1,450
April	23	11	15.5	924
May	542	7.2	47.7	2,930
June	1,050	7.0	123	7,340
July	34	6.7	9.49	583
August	15	1.4	5.42	333
September	218	2.8	22.0	1,310
The year	1,050	1.4	31.3	22,600

SAN SABA RIVER NEAR SAN SABA, TEX.

LOCATION.—Staff gage 200 feet above Beveridge highway bridge and 2 miles northwest of San Saba, San Saba County.

DRAINAGE AREA.—3,040 square miles.

RECORDS AVAILABLE.—December, 1904, to December, 1906, and September, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,640 second-feet February 9 (gage height, 23.8 feet); minimum, 32 second-feet August 18 and 19 (gage height, 1.42 feet).

1905–6, 1915–1927: Maximum discharge not determined; maximum stage from floodmarks, about 37.0 feet April 26 or 27, 1922; no flow August 9 and 10, 1918.

REMARKS.—Records fair. Considerable water is diverted above gage. About 9,300 acres above and 2,700 acres below station declared irrigated. Flood waters from Brady Creek at Brady are stored for municipal use; capacity of reservoir not known but probably small.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	46	113	80	94	88	117	142	45	34	100	55	35
2	46	220	78	94	78	117	98	45	33	105	49	35
3	46	198	78	90	88	117	88	41	33	92	48	33
4	122	136	78	90	90	111	82	41	33	85	45	35
5	50	111	82	87	88	109	72	44	37	78	43	34
6	66	103	82	87	130	109	67	46	3,770	78	40	33
7	60	98	188	87	111	113	67	43	4,820	72	35	35
8	58	92	198	83	115	124	72	41	2,930	58	35	35
9	54	88	158	83	3,370	140	76	37	446	54	35	35
10	54	85	146	82	2,030	130	67	33	699	49	34	35
11	60	80	111	76	698	124	61	32	583	48	35	35
12	62	82	101	87	491	128	58	52	583	45	33	35
13	66	82	90	98	336	120	204	842	293	43	52	35
14	377	83	87	90	240	109	293	1,700	178	80	35	35
15	174	82	87	90	220	109	162	492	132	117	33	35
16	78	80	87	83	198	109	101	272	103	57	33	35
17	198	68	83	87	178	109	78	178	92	52	33	35
18	117	82	83	87	158	117	67	130	82	50	32	35
19	98	78	87	87	158	117	73	101	272	46	32	35
20	103	82	87	94	140	115	70	90	198	52	33	35
21	87	80	107	94	138	111	70	80	188	49	35	42
22	75	80	111	90	136	118	72	67	209	46	511	37
23	453	76	111	96	136	113	66	60	198	45	168	37
24	146	82	103	90	132	113	61	52	230	46	82	37
25	188	83	124	94	126	90	61	55	198	46	64	37
26	118	94	120	94	122	83	61	54	168	113	48	37
27	87	83	120	94	120	90	60	54	140	178	54	300
28	83	80	109	98	120	144	54	53	124	88	42	993
29	85	80	101	94	------	446	52	52	115	58	35	403
30	113	76	98	94	------	109	46	48	105	80	35	293
31	126	------	98	94	------	188	------	37	------	66	35	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	453	46	113	6,930
November	220	68	95.2	5,670
December	198	78	106	6,490
January	98	76	89.9	5,530
February	3,370	78	358	19,900
March	446	83	127	7,830
April	293	46	86.7	5,160
May	1,700	32	159	9,750
June	4,820	33	568	33,800
July	178	43	70.2	4,320
August	511	32	60.6	3,730
September	993	33	97.0	5,770
The year	4,820	32	159	115,000

NOYES CANAL AT MENARD, TEX.

LOCATION.—Staff gage 1,000 feet above highway bridge, in Menard, Menard County, and 4 miles below head gates.

RECORDS AVAILABLE.—March, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 55 second-feet May 12 and June 13 (gage height, 2.40 feet); no flow during several periods.

1924–1927: Maximum stage, that of May 12 and June 13, 1927; no flow during several periods.

REMARKS.—Records fair. Canal diverts from San Saba River 4 miles above Menard. Water used for irrigation near Menard; 10 acres are irrigated above station. Flow regulated at head gates.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	24	26	29	0	25	21	24	25	------	24	22
2	0	24	26	29	0	25	22	25	26	11	22	22
3	0	24	26	29	0	25	22	25	26	25	24	25
4	0	24	26	28	0	24	24	24	26	25	24	24
5	0	24	26	28	0	24	24	25	24	24	24	21
6	0	24	26	21	0	24	25	28	16	24	25	22
7	0	24	28	13	0	24	26	24	0	25	24	25
8	11	24	28	29	0	26	26	22	0	24	25	25
9	22	22	28	29	0	24	26	6.5	0	24	24	25
10	22	24	28	28	0	24	26	5.6	0	24	24	25
11	21	24	28	29	0	24	26	26	0	24	0	24
12	22	10	28	29	0	22	26	40	0	24	0	22
13	22	0	28	29	0	24	26	20	40	22	22	22
14	21	0	28	29	0	24	26	28	12	26	22	22
15	25	0	28	28	0	24	26	31	0	26	22	22
16	22	0	28	28	0	24	26	40	0	26	22	22
17	22	0	26	29	0	22	26	29	0	25	21	22
18	22	0	28	29	0	22	26	29	0	25	20	22
19	21	0	28	28	0	22	26	29	0	24	15	24
20	22	0	28	28	0	24	25	29	0	24	22	24
21	21	0	28	29	0	22	25	28	0	24	24	22
22	21	13	28	29	0	18	26	29	0	24	25	22
23	22	26	28	29	0	20	25	28	0	24	25	22
24	22	25	28	29	0	22	24	29	0	24	24	22
25	21	25	28	29	0	22	25	29	0	25	25	22
26	22	26	28	29	0	21	26	29	0	26	25	22
27	21	26	28	28	12	21	25	29	0	25	24	29
28	21	26	28	14	25	21	25	29	0	24	22	24
29	21	25	29	------	------	20	25	29	0	24	22	0
30	22	26	29	------	------	21	24	26	0	24	22	0
31	25	------	28	------	------	20	------	26	------	25	22	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October (24 days)	25	11	21.4	1,020
November (21 days)	26	10	23.3	972
December	29	26	27.6	1,700
January (28 days)	29	13	27.3	1,520
February (2 days)	25	12	18.5	73.4
March	26	18	22.7	1,400
April	26	21	25.0	1,490
May	40	5.6	26.5	1,630
June (8 days)	40	12	24.4	387
July (30 days)	26	11	24.0	1,430
August (29 days)	25	15	23.0	1,320
September (28 days)	29	21	23.1	1,280
The year				14,200

NORTH LLANO RIVER NEAR JUNCTION, TEX.

LOCATION.—Water-stage recorder 500 feet above remains of old Wilson Dam and 3 miles northwest of Junction, Kimble County.

DRAINAGE AREA.—914 square miles.

RECORDS AVAILABLE.—September, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,020 second-feet July 25 (gage height, 3.60 feet); no flow September 15–26.

1915–1927: Maximum discharge, about 43,100 second-feet April 24, 1923 (gage height, 23 feet); no flow during several periods.

REMARKS.—Records for low stages good, and for high stages poor. Discharge October 24 to November 22 estimated. About 1,200 acres have been declared irrigated by diversions above station. During low stages, diversions materially reduce flow at station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8		14	16	15	13	11	7.6	0.5	0.5	7.6	0.4
2	.7		14	16	15	12	10	7.6	.3	.5	6.6	.4
3	.7		14	16	15	12	10	7.1	.4	.4	6.1	.4
4	.6		14	16	15	12	10	7.1	1.1	.4	5.0	.4
5	.5		15	16	15	12	10	7.1	1.3	.4	4.0	.4
6	.5		27	16	18	13	10	7.1	2.2	.4	3.2	.3
7	.5		36	16	20	15	10	6.6	1.7	.4	2.7	.3
8	.5		27	16	17	18	13	5.6	1.3	.4	2.2	.2
9	.5		23	15	17	18	14	5.0	1.3	.4	1.7	.2
10	.5		20	15	17	18	14	4.5	1.2	.4	1.4	.2
11	.5	19	20	15	17	17	14	4.0	1.1	.4	1.2	.2
12	.5		18	14	17	16	13	4.0	1.1	.4	1.1	.2
13	.5		18	14	17	16	17	10	2.7	.4	1.0	.1
14	.5		18	14	16	14	15	7.1	1.4	.5	1.0	.1
15	78		17	14	17	14	14	6.1	1.0	.5	.9	0
16	108		17	14	16	14	14	5.6	1.0	.5	.7	0
17	22		17	14	16	14	13	5.6	1.0	.5	.6	0
18	13		16	14	16	13	11	5.0	1.0	.4	.6	0
19	11		16	14	16	13	12	4.5	1.2	.4	.6	0
20	11		16	14	15	14	11	3.7	1.2	.4	.6	0
21	10		16	14	14	12	11	3.5	1.1	.4	.6	0
22	10	13	16	15	14	12	10	3.0	1.1	.3	.6	0
23	53	13	16	14	14	12	10	2.7	1.0	.5	.6	0
24	25	12	17	14	14	12	10	2.7	1.0	7.5	.5	0
25		13	18	14	14	11	9.2	2.4	.9	181	.5	0
26		12	17	15	13	11	8.7	2.2	.8	74	.5	0
27	19	12	17	15	13	11	8.7	1.9	.6	20	.5	1.1
28		13	17	15	13	11	8.2	1.7	.5	14	.5	.5
29		13	16	15	------	11	8.2	1.4	.5	12	.5	.4
30		14	16	15	------	11	8.2	1.2	.5	10	.4	.4
31		------	16	15	------	11	------	1.1	------	8.7	.4	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	108	0.5	15.5	956
November	------	------	17.1	1,020
December	36	14	18.0	1,110
January	16	14	14.8	912
February	20	13	15.6	865
March	18	11	13.3	819
April	17	8.2	11.3	671
May	10	1.1	4.67	287
June	2.7	.3	1.07	63.5
July	181	.3	10.9	668
August	7.6	.4	1.75	108
September	1.1	0	.21	12.3
The year	181	0	10.3	7,490

LLANO RIVER NEAR JUNCTION, TEX.

LOCATION.—Water-stage recorder 100 feet north of Kerrville-Junction road, 3 miles below confluence of North Llano and South Llano Rivers, and 3½ miles east of Junction, Kimble County.

DRAINAGE AREA.—1,760 square miles.

RECORDS AVAILABLE.—September, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 607 second-feet July 23 (gage height, 2.52 feet); minimum, 42 second-feet July 1–13.

1915–1927: Maximum discharge, about 98,800 second-feet September 16, 1915 (gage height, 26.3 feet); minimum 13 second-feet August 23–28, 1918 (gage height, 1.32 feet).

REMARKS.—Records good. About 2,500 acres above station and 1,300 acres below declared irrigated. Diversions slightly reduce flow at station during low stages. Slight regulation by water-power plant on South Llano River.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	87	87	84	84	213	80	63	50	42	72	46
2	52	192	87	84	84	147	80	58	48	42	66	46
3	50	142	87	87	84	129	80	58	48	42	66	46
4	92	116	87	87	84	120	80	58	52	42	63	46
5	72	112	80	87	84	109	80	58	63	42	60	46
6	72	105	87	87	94	102	80	58	69	42	60	46
7	66	98	138	87	94	109	80	58	66	42	58	46
8	66	98	142	87	94	120	80	58	63	42	55	44
9	66	98	138	84	98	116	80	58	58	42	55	44
10	63	98	129	80	102	109	80	58	48	42	55	44
11	63	98	120	80	102	105	80	58	48	42	55	44
12	66	94	112	77	102	105	80	77	50	42	52	44
13	66	87	112	77	102	102	84	77	52	42	50	44
14	66	87	109	77	102	102	84	72	55	46	50	44
15	150	87	109	77	98	98	77	66	58	46	50	46
16	134	87	105	77	94	94	74	66	58	46	50	46
17	84	87	102	77	91	91	72	66	58	46	50	46
18	77	87	102	77	91	87	72	69	58	46	50	46
19	74	87	94	77	91	87	69	69	58	46	48	48
20	74	87	94	80	91	84	69	66	60	44	48	50
21	77	87	91	77	91	84	66	63	58	44	48	52
22	77	84	91	77	91	84	66	60	58	44	48	52
23	94	84	91	80	91	84	69	60	55	147	48	52
24	109	84	87	80	91	84	69	60	55	105	48	52
25	102	80	87	80	91	84	69	60	50	127	48	52
26	91	77	87	80	91	80	69	60	50	176	48	52
27	91	84	91	84	91	80	66	60	48	91	48	117
28	87	84	91	84	200	80	66	60	46	84	48	102
29	87	87	87	84	-------	77	63	58	46	77	48	87
30	87	87	87	84	-------	77	66	55	44	74	46	80
31	84	-------	87	84	-------	77	-------	50	-------	72	46	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	150	50	80.5	4,950
November	192	77	95.7	5,700
December	142	80	99.9	6,140
January	87	77	81.4	5,010
February	200	84	96.5	5,360
March	213	77	101	6,190
April	84	63	74.3	4,420
May	77	50	61.8	3,800
June	69	44	54.3	3,230
July	176	42	61.5	3,780
August	72	46	52.8	3,250
September	117	44	53.7	3,190
The year	213	42	76.0	55,000

LLANO RIVER NEAR CASTELL, TEX.

LOCATION.—Staff gage 4 miles above mouth of Hickory Creek and 6 miles east of Castell, Llano County.

DRAINAGE AREA.—3,510 square miles.

RECORDS AVAILABLE.—November, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,400 second-feet February 9 (gage height, 10.00 feet); minimum, 39 second-feet September 10 (gage height, 0.84 foot).

1924–1927: Maximum discharge, about 59,500 second-feet May 30, 1925 (gage height, 16.8 feet); minimum discharge, that of September 10, 1927.

REMARKS.—Records fair. Diversions slightly reduce flow at station during low stages. Slight regulation at extremely low stages by pumps upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52	143	110	136	136	212	143	104	60	88	88	42
2	48	584	110	136	130	252	136	104	58	88	82	41
3	53	420	110	136	130	264	130	98	56	82	76	41
4	58	324	110	130	136	242	130	98	53	98	72	41
5	417	212	110	130	156	204	130	93	4,160	81	69	41
6	238	182	124	130	212	204	130	93	3,750	76	63	41
7	143	162	286	130	232	408	174	88	642	70	61	41
8	110	150	264	130	182	515	556	88	330	68	61	40
9	98	136	212	130	6,540	344	182	82	300	66	59	40
10	98	130	190	130	1,180	222	150	82	288	62	57	39
11	104	124	169	130	870	204	143	80	288	59	52	51
12	93	124	156	130	600	197	143	112	276	57	50	54
13	98	124	150	130	440	176	458	480	330	57	48	51
14	104	130	143	136	380	169	657	271	660	63	48	48
15	104	124	124	136	315	169	222	162	354	63	47	45
16	1,360	117	130	130	276	169	162	130	190	68	46	46
17	438	117	136	130	252	162	162	110	143	66	44	50
18	240	117	136	130	222	169	150	98	130	64	44	53
19	150	117	143	130	212	169	176	93	530	63	44	44
20	204	110	150	136	204	162	162	88	258	60	42	46
21	136	110	150	143	197	162	143	82	212	57	57	52
22	117	117	156	136	190	156	130	81	182	57	117	62
23	534	117	143	136	182	150	124	81	319	54	104	57
24	1,100	117	143	143	182	150	124	80	212	624	70	54
25	332	117	150	143	176	143	124	80	143	442	61	54
26	182	117	156	143	169	143	124	79	124	420	56	54
27	150	117	150	143	169	150	124	79	110	242	52	93
28	130	117	150	143	190	143	117	78	98	190	50	298
29	185	110	150	143	------	143	117	73	93	150	46	232
30	455	110	143	143	------	143	110	67	93	110	44	136
31	156	------	143	136	------	143	------	63	------	98	44	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,360	48	248	15,200
November	584	110	160	9,510
December	286	110	152	9,320
January	143	130	135	8,310
February	6,540	130	509	28,300
March	515	143	201	12,400
April	657	110	184	11,000
May	480	63	110	6,740
June	4,160	53	481	28,600
July	624	54	124	7,620
August	117	42	59.8	3,680
September	298	39	66.2	3,940
The year	6,540	39	200	145,000

PEDERNALES RIVER AT STONEWALL, TEX.

LOCATION.—Staff gage at Stonewall, Gillespie County, 2 miles below mouth of South Grape Creek.

DRAINAGE AREA.—647 square miles.

RECORDS AVAILABLE.—July, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 7,380 second-feet February 9 (gage height, 6.80 feet); minimum, 4.0 second-feet for several periods (gage height, 0.40 foot).

1924–1927: Maximum discharge, about 10,700 second-feet May 9, 1925 (gage height, 8.20 feet); minimum, 1.8 second-feet July 30 and 31, 1925 (gage height, 0.33 foot).

River reached stage of about 24.0 feet in 1900.

REMARKS.—Records good. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.0	96	7.5	13	15	36	41	26	11	72	11	5.4
2	4.0	681	7.5	13	14	32	37	24	10	828	11	5.4
3	4.0	72	7.5	13	14	30	34	23	9.2	48	9.2	19
4	4.0	32	7.5	13	14	30	34	23	9.2	37	7.5	9.2
5	4.4	20	7.5	13	16	32	34	23	285	34	7.5	6.1
6	4.0	15	7.5	13	934	32	34	25	1,730	25	7.2	5.4
7	4.0	13	397	12	242	277	93	24	212	19	6.8	5.4
8	4.0	10	207	12	2,280	360	272	22	82	16	6.4	5.4
9	4.0	7.5	85	12	5,760	105	57	20	51	15	6.1	5.4
10	4.0	7.5	44	11	900	64	42	18	37	13	6.1	5.4
11	4.7	7.5	41	11	207	53	41	16	30	13	6.1	5.0
12	4.0	7.2	29	11	136	48	143	19	26	12	6.1	5.4
13	4.0	7.5	24	14	113	41	1,250	343	25	11	6.1	5.0
14	178	7.5	20	13	88	39	276	72	161	11	5.8	45
15	281	7.5	17	11	69	37	120	41	69	27	5.4	8.6
16	176	7.5	16	11	62	37	82	30	37	23	5.4	6.1
17	24	7.5	16	11	55	37	66	27	29	13	5.4	5.4
18	13	7.5	14	12	48	37	64	25	47	10	5.0	5.4
19	9.2	7.5	15	13	44	42	163	20	61	9.2	4.7	6.4
20	7.5	7.5	16	13	41	1,340	78	20	167	8.4	5.0	4.7
21	6.8	7.2	16	13	41	256	59	18	242	7.5	448	4.0
22	6.4	6.8	16	13	39	91	46	16	132	7.5	202	5.4
23	586	6.8	14	14	37	66	44	16	62	230	14	5.8
24	88	7.5	14	16	37	57	42	14	97	300	9.2	5.8
25	25	7.5	20	16	37	53	53	444	48	75	7.5	5.4
26	15	7.5	18	16	30	51	41	57	32	183	6.8	5.4
27	10	7.5	16	16	32	51	37	30	26	44	6.1	160
28	7.5	7.5	16	15	44	46	34	23	23	25	6.1	32
29	52	7.5	14	14	------	44	30	18	20	18	5.8	16
30	318	7.5	14	14	------	44	27	15	23	14	5.4	11
31	27	------	13	14	------	44	------	13	--------	13	5.4	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	586	4.0	60.8	3,740
November	681	6.8	36.7	2,190
December	397	7.5	37.3	2,290
January	16	11	13.1	805
February	5,760	14	405	22,500
March	1,340	30	113	6,970
April	1,250	27	112	6,690
May	444	13	48.5	2,990
June	1,730	9.2	126	7,520
July	828	7.5	69.7	4,290
August	448	4.7	27.4	1,690
September	160	4.0	14.0	833
The year	5,760	4.0	86.3	62,500

PEDERNALES RIVER NEAR SPICEWOOD, TEX.

LOCATION.—Staff gage 2½ miles below mouth of Fall Creek and 8 miles southeast of Spicewood, Burnet County, Tex.
DRAINAGE AREA.—1,290 square miles.
RECORDS AVAILABLE.—November, 1923, to September, 1927.
EXTREMES.—Maximum discharge during year, about 16,400 second-feet April 8 (gage height, 13.40 feet); minimum, 1.8 second-feet August 20–22 (gage height, 1.28 feet).

1924–1927: Maximum discharge, about 28,000 second-feet April 21, 1926 (gage height, 16.4 feet); no flow June 24 to August 3 and August 28–30, 1925.
REMARKS.—Records fair. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	136	19	39	42	108	161	116	32	50	29	6.0
2	3.0	302	19	39	39	105	152	107	27	48	23	4.8
3	3.0	849	19	40	39	107	143	101	23	186	19	6.0
4	2.8	264	19	37	39	96	136	98	22	189	15	3.8
5	2.8	143	21	35	42	94	130	92	24	112	13	2.9
6	2.6	101	22	33	56	94	126	87	4,260	222	11	2.7
7	2.5	62	56	32	437	116	122	86	1,830	110	9.6	2.5
8	2.4	62	62	30	390	390	4,810	80	390	79	8.6	2.3
9	2.5	50	202	30	6,190	528	642	80	201	59	6.8	2.1
10	2.7	40	166	28	4,640	322	282	76	134	42	5.2	11
11	2.7	35	128	27	674	230	201	70	101	33	4.8	8.6
12	2.6	31	98	27	442	177	177	65	79	29	4.2	6.8
13	2.7	29	86	32	366	156	343	286	70	25	4.0	5.2
14	4.2	29	74	30	301	143	1,210	596	370	22	3.2	4.2
15	483	28	62	31	247	134	470	230	499	20	2.8	3.5
16	301	26	54	34	201	128	264	150	216	18	2.6	3.2
17	177	24	48	37	189	124	216	118	132	18	2.4	2.9
18	150	22	46	35	175	124	177	91	110	25	2.3	2.6
19	82	21	44	33	152	120	2,410	77	154	30	2.0	2.8
20	54	22	44	32	141	2,360	632	68	99	29	1.8	3.2
21	39	21	44	32	134	1,820	848	62	134	22	1.8	5.5
22	35	21	44	33	130	556	247	58	495	18	1.9	23
23	206	19	44	39	126	343	201	52	322	16	2.1	20
24	1,170	19	44	43	118	264	177	46	216	34	101	15
25	329	19	44	44	114	230	177	54	216	208	62	13
26	134	19	42	46	108	216	170	44	141	214	39	11
27	84	19	44	47	103	201	159	174	101	114	31	12
28	59	19	54	50	105	201	147	107	82	120	18	11
29	66	19	52	50	------	189	136	72	68	87	14	8.6
30	60	19	47	46	------	175	126	54	58	58	11	88
31	33	------	43	42	------	168	------	42	------	32	8.2	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,170	2.4	113	6,950
November	849	19	82.3	4,900
December	202	19	57.8	3,550
January	50	27	36.5	2,250
February	6,190	39	562	31,200
March	2,360	94	323	19,900
April	4,810	122	506	30,100
May	596	42	111	6,820
June	4,260	22	354	21,000
July	222	16	73.2	4,500
August	101	1.8	14.8	913
September	88	2.1	9.8	584
The year	6,190	1.8	183	133,000

ONION CREEK NEAR DEL VALLE, TEX.

LOCATION.—Staff gage at Del Valle-Creedmoor highway crossing 2 miles below mouth of Williamson Creek and 2½ miles southwest of Del Valle, Travis County.

DRAINAGE AREA.—337 square miles.

RECORDS AVAILABLE.—May, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,780 second-feet June 14 (gage height, 7.60 feet); no flow August 22 to September 1.

1924–1927: Maximum discharge, 24,300 second-feet April 21, 1926 (gage height, 16.05 feet; from floodmark); no flow during several periods.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. No diversions above station.

Monthly discharge, 1926-27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	78	1.5	9.85	605
November	44	2.5	8.03	478
December	122	2.7	22.8	1,400
January	51	10	15.1	926
February	206	12	62.4	3,470
March	334	26	64.0	3,930
April	322	24	71.4	4,250
May	47	3.7	133	8,180
June	771	3.2	38.5	2,290
July	126	1.2	7.93	488
August	1.1	0	.34	21
September	33	0	2.80	166
The year	771	0	36.2	26,200

GUADALUPE RIVER BASIN

GUADALUPE RIVER NEAR COMFORT, TEX.

LOCATION.—Staff gage at low-water bridge and dam on State highway No. 27, 2.6 miles west of Comfort, Kendall County.

DRAINAGE AREA.—916 square miles.

RECORDS AVAILABLE.—December, 1917, to September, 1924. Records prior to August 10, 1924, at a point 1 mile upstream.

EXTREMES.—Maximum discharge during year, about 5,630 second-feet February 28 (gage height, 10.9 feet); minimum, 20 second-feet September 4 (gage height, 2.24 feet).

1918–1927: Maximum discharge not determined; maximum stage from floodmarks, about 41 feet August 21, 1919; minimum discharge, 0.40 second-foot August 2, 1918 (gage height, 0.80 foot).

REMARKS.—Records fair. About 400 acres declared irrigated above station. Several pumping plants 8 miles upstream. Regulation during low water caused by operation of water-power plants.

Daily and monthly discharge, in second-feet, of Guadalupe River near Comfort, Tex., 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	69	55	70	69	840	110	92	47	51	43	28
2	33	316	52	69	69	152	108	86	43	54	38	24
3	36	283	52	69	69	136	105	86	45	62	34	22
4	37	142	52	69	69	132	105	88	43	51	33	21
5	39	114	52	69	69	132	105	84	295	86	33	21
6	36	90	58	76	80	129	101	78	908	52	30	22
7	34	84	112	72	193	1,090	105	76	160	51	31	24
8	37	72	300	67	147	726	124	76	98	47	29	26
9	34	60	212	65	1,140	241	119	74	74	43	29	26
10	34	58	152	67	670	184	112	74	67	40	27	34
11	32	55	134	67	352	157	105	71	67	38	26	42
12	34	62	119	62	300	152	184	188	62	38	28	36
13	37	58	108	58	265	147	1,240	134	132	38	27	32
14	42	58	101	55	212	136	477	114	90	36	27	30
15	47	58	92	55	184	132	258	94	74	38	27	30
16	202	54	92	58	176	134	196	84	71	44	26	37
17	110	52	88	62	160	134	176	74	67	40	26	40
18	72	52	84	63	149	132	160	71	67	40	27	34
19	50	55	92	65	144	126	160	67	67	38	27	55
20	48	55	92	65	139	409	149	67	104	33	27	42
21	42	55	92	67	139	184	136	63	172	31	26	47
22	34	55	84	76	134	152	126	60	94	33	28	42
23	57	55	76	76	129	139	124	71	82	33	31	39
24	69	55	78	76	124	136	119	60	78	57	31	39
25	63	55	80	72	119	129	122	63	63	117	28	38
26	57	60	80	72	119	132	117	65	57	74	27	141
27	44	58	84	69	119	132	108	60	58	63	29	146
28	52	55	80	72	2,050	126	105	57	57	51	25	76
29	298	57	76	71	-------	119	103	54	54	45	25	69
30	116	55	76	69	-------	117	94	54	52	45	24	47
31	47	-------	72	69	-------	110	-------	51	-------	40	27	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	298	32	61.6	3,790
November	316	52	80.2	4,770
December	300	52	96.0	5,900
January	76	55	67.5	4,150
February	2,050	69	271	15,100
March	1,090	110	222	13,700
April	1,240	94	178	10,600
May	188	51	78.6	4,830
June	908	43	112	6,640
July	117	31	48.7	2,990
August	43	24	28.9	1,780
September	146	21	43.7	2,600
The year	2,050	21	106	76,800

GUADALUPE RIVER NEAR SPRING BRANCH, TEX.

LOCATION.—Water-stage recorder at New Braunfels-Blanco City highway bridge 4 miles southeast of Spring Branch, Comal County.

DRAINAGE AREA.—1,430 square miles.

RECORDS AVAILABLE.—June, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 8,260 second-feet June 5 (gage height, 11.80 feet); minimum, 30 second-feet September 3.

1922–1927: Maximum discharge, about 19,800 second-feet April 21, 1926 (gage height, 20.70 feet); minimum, about 4.7 second-feet August 18, 1923 (gage height, about 1.74 feet).

REMARKS.—Records fair. Discharge estimated or partly estimated October 19–21, December 13–29, and January 4–7. About 400 acres have been declared irrigated above station. Slight regulation caused by operation of water-power plants upstream during low water.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	112	79	103	96	1,150	261	200	92	127	73	32
2	42	151	79	96	96	338	254	191	88	162	67	31
3	42	280	77	96	96	274	241	182	81	173	65	30
4	44	326	75	95	98	245	235	176	86	145	63	35
5	44	206	71	94	101	229	232	170	1,880	124	59	35
6	41	156	79	93	117	225	229	170	3,180	127	55	31
7	46	129	132	92	122	225	248	170	1,380	122	53	31
8	44	119	163	90	197	1,710	406	162	376	110	53	31
9	46	108	310	90	679	689	300	159	274	98	50	31
10	44	96	238	88	1,280	493	254	156	225	98	50	33
11	44	90	206	90	901	414	232	148	194	94	48	35
12	48	81	197	94	532	372	337	148	176	90	48	36
13	41	79		90	414	338	777	962	162	88	39	37
14	42	79		90	357	314	1,320	364	670	86	39	39
15	61	77		88	314	300	632	225	394	83	39	44
16	86	77		92	290	287	406	200	222	83	37	42
17	81	79		92	270	280	334	176	200	88	37	41
18	153	77		88	254	280	390	159	194	79	36	42
19	108	75		88	235	277	852	145	229	79	36	46
20	86	77		88	225	744	380	135	185	73	35	57
21	65	77	129	88	216	796	307	132	197	69	33	69
22	57	79		92	213	406	280	127	261	65	50	59
23	63	77		96	209	331	270	127	232	65	69	53
24	92	79		96	197	307	264	117	248	112	53	53
25	98	79		98	194	293	261	294	188	96	46	48
26	81	79		98	188	287	254	207	165	122	39	48
27	79	77		103	182	284	245	135	153	181	39	50
28	71	81		98	352	284	232	119	140	127	36	128
29	65	83	108	98	------	277	222	117	132	105	36	156
30	94	81	108	98	------	267	209	110	127	92	35	103
31	149	------	103	98	------	264	------	96	------	81	33	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	153	41	67.7	4,170
November	326	75	109	6,490
December	310	71	132	8,110
January	103	88	93.5	5,750
February	1,280	96	301	16,700
March	1,710	225	419	25,800
April	1,320	209	362	21,500
May	962	96	193	11,900
June	3,180	81	404	24,000
July	181	65	105	6,430
August	73	33	46.8	2,880
September	156	30	50.2	2,990
The year	3,180	30	189	137,000

GUADALUPE RIVER AT NEW BRAUNFELS, TEX.

LOCATION.—Water-stage recorder at highway bridge 700 feet below International & Great Northern Railway bridge 1 mile below mouth of Comal River and 1 mile northeast of New Braunfels, Comal County. Zero of gage is 572.36 feet above mean sea level.

DRAINAGE AREA.—1,770 square miles.

RECORDS AVAILABLE.—March, 1898, to December, 1899, and January, 1915, to December, 1927, when station was discontinued because of backwater from Texas Power Corporation's dam.

EXTREMES.—Maximum discharge during period October 1, 1926, to December 18, 1927, 3,610 second-feet June 6 (gage height, 5.40 feet); minimum discharge not determined.

1898–99, 1915–1927: Maximum discharge, about 56,600 second-feet September 10, 1921 (gage height, 28.6 feet); no flow for short periods in 1922, 1923, and 1925, owing to regulation at dam 300 feet above gage.

REMARKS.—Records fair. Discharge estimated November 25 to December 1, 1926, March 16–24, April 28 to May 3, June 3–10, August 16 to September 27, and December 12–18, 1927. Water diverted above station for irrigation and municipal use; amount not known. Flow entirely regulated at times by operation of power plants upstream. For subsequent data see records of Guadalupe River above Comal River at New Braunfels, and of Comal River at New Braunfels.

Daily discharge, in second-feet, of Guadalupe River at New Braunfels, Tex., 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1926–27												
1	392	492	437	511	470	1,200	651		434	544	434	
2	385	565	434	499	470	1,080	630	591	423	544	405	
3	398	565	426	495	473	820	608		419	552	395	
4	388	630	437	499	473	745	608	552	416	608	398	
5	385	770	430	492	470	697	608	539		556	385	
6	385	651	448	503	495	674	586	526		522	388	
7	381	586	499	480	507	674	586	539	1,210	495	381	
8	381	545	526	484	514	978	586	535		507	368	
9	378	526	561	466	697	1,780	745	522		495	365	
10	398	499	745	477	1,400	1,080	674	511	697	488	358	
11	392	488	697	480	1,820	928	630	499	630	462	362	358
12	392	480	630	488	1,330	845	608	499	608	452	352	
13	392	477	608	470	1,110	820	674	544	586	444	335	
14	395	473	586	480	985	770	1,300	1,160	795	434	362	
15	419	473	561	484	900	745	1,360	745	1,110	430	348	
16	398	477	548	492	820	721	985	608	872	419	352	
17	409	477	535	480	795		795	586	721	419	358	
18	434	452	526	480	745		745	548	697	423	352	
19	455	441	518	477	721		1,190	514	651	430	362	
20	495	441	552	470	697	880	1,140	507	674	416	328	
21	462	434	539	480	674		872	488	674	409	342	
22	444	441	535	480	674		745	473	674	392	352	
23	434	434	522	466	674		697	470	745	395	352	
24	448	437	518	473	651	770	674	466	721	444	355	
25	437		514	470	651	721	651	462	697	434	368	395
26	452		511	477	630	900	651	548	651	531	358	
27	455	437	503	477	630	697	630	608	608	473	345	
28	437		514	477	630	674		499	586	507	362	395
29	437		511	480	-------	674	591	480	565	507	358	395
30	437		511	477	-------	651		459	552	466	348	470
31	423	-------	503	480	-------	651	-------	448	-------	430	358	-------

Daily discharge, in second-feet, of Guadalupe River at New Braunfels, Tex., 1926–27—Continued

Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.	Day	Oct.	Nov.	Dec.
1927				1927				1927			
1	631	461	380	11	535	360	390	21	385	397	-------
2	917	413	385	12	444	350		22	381	385	-------
3	503	406	376	13	402	375		23	368	387	-------
4	619	397	370	14	398	381		24	374	382	-------
5	674	379	388	15	392	368	380	25	380	377	-------
6	552	374	375	16	383	387		26	383	377	-------
7	488	387	390	17	391	393		27	387	376	-------
8	455	405	392	18	378	391		28	384	383	-------
9	477	384	349	19	380	390	-------	29	356	374	-------
10	561	362	383	20	374	377	-------	30	376	378	-------
								31	536	-------	-------

Monthly discharge of Guadalupe River at New Braunfels, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
1926–27				
October	495	378	417	25,600
November	770	434	496	29,500
December	745	426	529	32,500
January	511	466	482	29,600
February	1,820	470	754	41,900
March	1,780	651	853	52,500
April	1,360	586	747	44,400
May	1,160	448	552	33,900
June	-------	-------	742	44,100
July	608	392	472	29,000
August	434	328	364	22,400
September	-------	-------	372	22,100
The year	1,820	-------	563	408,000
1927				
October	917	356	460	28,300
November	461	350	385	22,900
December 1–18	-------	-------	380	13,600
The period	-------	-------	-------	64,800

GUADALUPE RIVER BELOW CUERO, TEX.

LOCATION.—Water-stage recorder three-fourths of a mile upstream from Heards Bridge on Arneckville Road and 2½ miles southeast of Cuero, De Witt County.

DRAINAGE AREA.—5,070 square miles.

RECORDS AVAILABLE.—August, 1916, to September, 1927. From December, 1902, to December, 1906, and August, 1915, to August, 1916, a station was maintained at Schliecher Bridge 4 miles above this point. Discharge at two sites practically the same.

EXTREMES.—Maximum discharge during year, 24,200 second-feet April 16 (gage height, 23.75 feet); minimum discharge not determined.

1916–1927: Maximum discharge not determined; maximum stage from floodmarks, about 32.2 feet October 20, 1919; minimum discharge, about 80 second-feet November 1, 1917 (gage height, 0.58 foot).

A stage of 37.6 feet was reached November 4, 1913.

REMARKS.—Records fair. Flow is probably not materially affected by numerous small diversions above station. Flow partly regulated by operation of power plants upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	444	5,500		a 945	760	955	1,100	955	671		623	444
2	593	4,940			754	890	1,160	1,060	671		671	422
3	575	6,780	a 515	623	760	792	955		677		545	400
4	557	6,220		766	728	1,160	955		629		557	383
5	629	a 3,500			641	1,270	1,020		647		545	394
6	641	a 1,130			806	1,020	922	a 922	635		521	383
7	629	955			1,160	922	922		990		510	350
8	599	955			1,940	1,020	890		1,160		493	438
9	557	858		a 740	1,340	1,060	858		2,200		515	400
10	533	a 605			806	1,380	858		2,350		482	432
11	527	a 575			1,340	1,750	922	890	1,490		482	444
12	605	a 545			2,350	1,820	1,020	825	1,160		488	438
13	521	504			2,050	1,410	4,740	955	1,020	a 890	438	422
14	665	527		721	1,980	1,300	8,370	1,060	1,240		476	410
15	629	432		659	1,640	1,200	13,800	1,300	2,280		454	378
16	714			635	1,380	1,130	22,200	1,300	3,260		476	361
17	812			635	1,240	1,100	20,300	1,380	3,260		432	444
18	760			780	1,130	1,060	7,730	1,200	2,280		482	454
19	799		a 945	714	1,020	990	1,900	990	1,680		510	388
20	689			708	922	1,020	1,560	922	1,380			322
21	659				922	1,100	1,410	858	1,520			361
22	714				1,060	2,120	1,710	858	1,560			334
23	728	a 515		a 740	922	1,940	2,050	858	1,790			290
24	858				825	1,820	1,820	786	1,860		a 460	306
25	714				955	1,520	1,450	754	1,450			366
26	955			740	858	1,270	1,300	86	a 1,450	1,200		339
27	740			766	799	1,520	1,200	740		955		306
28	740			780	858	2,280	1,100	754	a 890	1,130		280
29	1,920			728	-------	4,860	1,130	714		792	422	300
30	7,560			728	-------	2,200	1,060	812		671	488	432
31	8,380	-------		702	-------	1,240	-------	825	-------	599	460	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	8,380	444	1,180	72,300
November	6,780	-------	1,390	82,800
December	-------	-------	876	53,800
January	-------	-------	740	45,500
February	2,350	641	1,140	63,400
March	4,860	792	1,460	89,500
April	22,200	858	3,550	211,000
May	-------	-------	934	57,400
June	3,260	-------	1,430	85,000
July	-------	-------	890	54,700
August	-------	-------	491	30,200
September	454	280	381	22,700
The year	22,200	280	1,200	868,000

a Estimated.

SAN MARCOS RIVER AT OTTINE, TEX.

LOCATION.—Water-stage recorder at highway bridge one-fourth of a mile southwest of Ottine, Gonzales County.

DRAINAGE AREA.—1,250 square miles.

RECORDS AVAILABLE.—June, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,280 second-feet April 14 (gage height, 19.82 feet); minimum discharge not determined.

1915–1927: Maximum discharge by slope-area method, 125,000 second-feet April 21, 1926 (gage height, 40.6 feet, from floodmarks); no flow July 29, 1923, March 31, 1925, and June 24, 1926.

REMARKS.—Records fair except those for January 14, 31, February 1, April 22–30, May 1–13, and 22–31, which were estimated and are poor. Diversions above station for irrigation and municipal use are small. Flow regulated by operation of small cotton gin above gage. Most of normal flow from large springs near San Marcos.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	146	211	158	156	171	204	288		122	256	134	110
2	148	1,370	151	147	171	204	288		111	363	130	102
3	147	855	156	168	171	218	272		115	381	133	102
4	138	349	152	148	171	204	272		112	256	128	98
5	158	241	155	154	309	211	272		125	288	132	88
6	147	226	155	151	1,160	211	272		138	218	124	86
7	139	204	211	154	828	218	272	250	333	196	120	75
8	148	204	226	160	272	459	264		558	179	111	93
9	145	196	288	141	434	735	296		328	172	129	91
10	141	188	234	168	1,730	498	304		248	171	126	99
11	150	179	211	141	1,060	354	296		211	162	108	98
12	174	185	189	150	575	312	280		196	155	114	85
13	164	182	185	167	408	296	420		171	158	116	108
14	183	178	176	169	363	280	2,830	435	1,020	204	95	112
15	421	175	169	185	320	264	360	264	1,970	160	105	111
16	264	185	162	168	248	256	288	248	1,160	145	128	99
17	256	169	163	163	248	248	256	204	328	114	151	104
18	196	171	169	165	234	256	248	185	256	155	121	106
19	176	167	156	164	218	241	241	160	337	182	105	88
20	190	165	174	163	226	404	312	159	363	169	114	110
21	228	174	196	167	211	672	769	159	280	103	114	110
22	164	168	256	179	211	498			669	143	105	104
23	174	169	192	181	218	399			587	109	117	110
24	304	169	174	168	218	328			280	128	100	89
25	218	163	167	174	211	288			248	132	106	100
26	280	175	158	179	211	280	250	140	226	679	90	110
27	234	169	167	174	204	1,040			204	272	93	121
28	204	145	178	169	218	444			241	211	99	136
29	589	150	159	181	------	328			218	175	106	119
30	389	154	169	168	------	312			320	168	128	117
31	192	------	158	171	------	304	------		------	156	106	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	589	138	213	13,100
November	1,370	145	248	14,700
December	288	151	181	11,100
January	185	141	164	10,100
February	1,730	171	394	21,900
March	1,040	204	354	21,800
April	2,830	----------	378	22,500
May	435	----------	209	12,800
June	1,970	111	382	22,800
July	679	103	205	12,600
August	151	90	116	7,120
September	136	75	103	6,110
The year	2,830	75	244	177,000

PLUM CREEK NEAR LOCKHART, TEX.

LOCATION.—Staff gage at steel highway bridge 700 feet below mouth of Dry Creek and 7 miles southeast of Lockhart, Caldwell County. Zero of gage is 371.39 feet above mean sea level.

DRAINAGE AREA.—184 square miles.

RECORDS AVAILABLE.—January, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,020 second-feet February 9 (gage height, 18.00 feet); minimum, 0.4 second-foot for several periods (gage height, 0.76 foot).

1925–1927: Maximum discharge, 26,000 second-feet April 21, 1926 (gage height, 22.6 feet, from floodmarks); no flow July 2 to September 12, 1925. The flood of December, 1913, reached a stage of 26.8 feet, determined by levels to floodmarks.

REMARKS.—Records poor. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	20	2.0	4.8	8.8	6.5	7.2	4.5	1.6	19	0.6	0.5
2	.6	217	2.0	4.3	6.7	6.5	7.2	4.5	1.6	64	.6	.5
3	.6	103	2.0	3.8	6.2	6.5	7.2	4.5	1.6	36	.6	.5
4	.6	16	2.0	3.6	6.2	6.5	6.8	3.1	1.6	7.1	.6	.5
5	.6	3.7	2.0	3.2	27	6.5	5.5	2.6	1.8	4.2	.6	.4
6	.5	2.5	2.0	3.0	517	6.5	3.5	2.5	1.8	3.8	.6	.4
7	.5	2.3	7.4	3.0	206	6.5	3.5	2.3	3.0	3.3	.6	.4
8	.5	2.0	42	2.8	20	223	3.5	2.2	2.8	2.4	.5	.4
9	.5	2.0	39	2.8	1,310	113	5.0	2.0	2.2	2.4	.5	.4
10	.5	1.8	28	2.8	871	20	5.5	2.2	1.6	2.1	.5	.4
11	.6	1.7	15	2.8	186	13	4.5	2.1	1.6	1.7	.5	.4
12	.6	1.6	6.6	2.8	88	12	4.5	2.0	1.6	1.0	.5	.4
13	.6	1.6	5.0	3.0	35	10	4.5	105	1.7	.8	.5	.4
14	.8	1.6	4.0	19	17	8.3	65	48	1,510	.8	.5	.4
15	21	1.6	4.0	14	16	8.0	18	13	1,090	.8	.4	.4
16	15	1.6	3.0	7.4	13	7.4	11	6.8	46	.7	.4	.4
17	2.7	1.6	3.0	5.1	11	7.4	9.4	6.4	8.8	.7	.4	.4
18	2.0	1.6	3.0	4.6	10	7.0	5.3	3.2	26	.7	.4	.4
19	1.6	1.6	3.0	4.3	10	6.7	5.0	2.7	86	.7	.4	.4
20	50	1.7	3.0	6.0	10	13	52	2.7	18	.6	.4	.4
21	48	1.8	3.0	20	10	25	57	2.7	114	.5	.7	.4
22	3.5	1.8	13	18	8.8	14	80	2.5	206	.5	.8	.4
23	58	1.9	7.0	20	8.4	11	13	2.4	22	.7	.7	.4
24	56	1.9	7.0	15	7.4	8.8	8.6	2.3	12	.7	.7	.4
25	7.6	1.9	5.8	13	7.1	8.0	7.9	2.1	8.4	2.7	.6	.4
26	2.7	1.9	5.8	11	7.1	7.4	7.9	1.8	6.8	5.0	.6	.4
27	2.2	2.0	6.7	14	6.8	41	7.9	1.8	5.0	1.0	.6	1.1
28	1.6	2.0	6.0	15	6.5	16	4.7	1.8	6.0	.7	.4	1.7
29	2.4	2.0	5.3	14	----------	12	4.5	1.8	20	.6	.4	1.0
30	2.8	2.0	4.8	13	----------	8.6	4.5	1.8	19	.6	.4	.8
31	2.2	-------	4.8	11	----------	7.6	-------	1.6	----------	.6	.5	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	58	0.5	9.27	570
November	217	1.6	13.5	805
December	42	2.0	7.97	490
January	20	2.8	8.62	530
February	1,310	6.2	123	6,820
March	223	6.5	21.1	1,300
April	80	3.5	14.3	853
May	105	1.6	7.90	486
June	1,510	1.6	108	6,400
July	64	.5	5.37	330
August	.8	.4	.53	32.7
September	1.7	.4	.51	30.5
The year	1,510	.4	25.8	18,600

SAN ANTONIO RIVER AT SAN ANTONIO, TEX.

LOCATION.—Water-stage recorder at South Alamo Street Bridge in San Antonio, Bexar County. Zero of gage is 619.72 feet above mean sea level.

DRAINAGE AREA.—38 square miles.

RECORDS AVAILABLE.—January, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 845 second-feet June 14 (gage height, 5.18 feet); minimum, 7 second-feet April 3 (gage height, 1.03 feet).

1915–1927: Maximum discharge by slope-area method, 15,300 second-feet September 10, 1921 (gage height, 20.14 feet, from floodmarks); minimum 5.1 second-feet July 12, 1925; city of San Antonio turned flow from well into river during summer of 1925 to keep river from going dry.

REMARKS.—Records fair. Amount of water diverted above gage not known but believed to be small. Operation of mill just above gage causes sharp diurnal fluctuations. Normal flow of river comes from springs. Changes in mean daily stage during low flow are probably caused by pumping from deep wells for city water supply and for irrigation, thereby depleting underground reservoir which feeds river through springs.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32		33	33		30	38		30	41	24	18
2	31		32	35	a 33	31	36		25	41	22	18
3	34	a 37	33	35		31	32		26	42	21	18
4	34		34	32	a 28	32	32	a 26	26	40	18	18
5	32		36	32	29	34	29		120	42	20	22
6	31	37	35	32	38	a 36	28		96	37	a 20	21
7	32	37	52	32	30	58	27	a 24	32	36		21
8	32	41	38	32	29	101	26	21	32	36		18
9	33	38	38	31	65	41	26	24	32	33		78
10	32	37	38	30	33	41	27	23	32	33	a 45	22
11	a 34	36	41	29	33	41	33	20	32	32		22
12		37	41	30	34	40	66	56	31	30		23
13		39	41	31	33	36	30	38	71	28	a 20	22
14	a 42	38	38	26	37	37	30	26	324	26	19	20
15		38	37	a 21	36	36	22	26	50	26	20	46
16	a 39	36	36		36	35	27	27	54	26	20	24
17	36	36	36		36	32	25	26	53	26	21	22
18	39	33	38		35	35	29	28	56	25	17	20
19	38	31	41		35	36	27	28	50	24	19	21
20	37	32	47			42	26	28	48	26	19	24
21	37	32	38			39	41	28	198	22	21	26
22	38	33	38		a 34	39	26	26	47	22	21	26
23	49	32	38			39	31	29	50	25	20	26
24	41	34	37	a 33		37	26	41	50	a 27	21	24
25	36	33	a 37			36	33	47	49	a 29	18	24
26	37	36			a 32	37	31	26	46	27	20	24
27	37	35			32	34	28	30	47	28	20	22
28	36	33	a 35		34	39	27	33	45	22	18	24
29	37	34				37	27	33	40	23	19	22
30	a 37	32				39	26	32	41	24	18	24
31						40		29		23	20	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October		31	36.6	2,250
November	41	31	35.5	2,110
December	52	32	37.5	2,310
January		21	31.9	1,960
February	65	28	34.6	1,920
March	101	30	39.4	2,420
April	66	22	30.4	1,810
May	56	20	29.2	1,800
June	324	25	61.1	3,640
July	42	22	29.7	1,830
August		17	24.7	1,520
September	78	18	24.7	1,470
The year	324	17	34.6	25,000

a Estimated.

SAN ANTONIO RIVER NEAR FALLS CITY, TEX.

LOCATION.—Water-stage recorder at highway bridge half a mile above Scared Dog Creek and 3.4 miles southwest of Falls City, Karnes County.

DRAINAGE AREA.—2,070 square miles.

RECORDS AVAILABLE.—April, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 2,220 second-feet June 16 (gage height, 3.98 feet); minimum, 51 second-feet July 12 (gage height, 1.02 feet).

1925–1927: Maximum discharge, 9,260 second-feet April 23, 1926 (gage height, 10.53 feet); minimum, 48 second-feet August 2, 1925 (gage height, 1.01 feet).

In 1913, river reached stage of 28.36 feet (from floodmarks).

REMARKS.—Records fair. Slight regulation caused by operation of Medina Dam. For diversions see record of Medina Canal near Riomedina.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	84	106	129	124	145	129	145	109	81	140	62	
2	81	124	119	129	140	134	134	106	78	119	60	
3	81	155	119	129	145	129	134	102	74	109	62	
4	78	210	124	129	145	119	124	102	71	106	62	* 60
5	84	129	124	129	140	119	119	98	68	109	62	
6	84	114	129	134	160	119	119	98	132	109	62	
7	81	102	145	129	160	124	114	95	572	109	65	60
8	81	102	134	129	182	129	109	92	720	109	65	62
9	81	102	176	140	160	207	102	88	374	106	68	129
10	84	98	150	140	184	398	102	84	193	95	71	181
11	88	98	140	140	522	220	102	84	140	71	71	165
12	88	98	134	134	404	171	274	84	129	60	68	95
13	88	98	129	134	232	155	970	129	119	88	68	71
14	95	95	134	134	171	145	1,620	425	802	81	65	68
15	218	98	134	134	134	140	424	510	1,460	78	62	78
16	102	106	288	129	134	134	166	205	2,170	78	62	240
17	215	106	370	129	140	140	134	109	1,110	78	60	111
18	114	106	192	129	140	145	124	102	276	78	60	81
19	92	106	129	134	129	150	119	102	226	84	57	71
20	88	106	124	140	129	166	119	92	254	81	57	65
21	92	109	145	140	124	626	119	88	204	74	65	62
22	88	114	166	140	124	329	155	88	210	71		62
23	88	114	140	140	129	176	215	84	264	68		62
24	88	119	134	140	134	150	150	84	248	65		62
25	102	124	134	145	134	150	124	98	204	65		62
26	106	129	129	145	129	150	119	204	176	95	60	108
27	95	124	129	145	124	220	124	129	166	207		78
28	92	109	129	322	129	663	119	88	150	130		65
29	109	230	134	359	------	204	119	84	134	68		68
30	145	224	129	182	------	155	119	88	129	65		68
31	114	------	124	150	------	145	------	84	------	65		------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	218	78	101	6,200
November	230	95	122	7,250
December	370	119	149	9,160
January	359	124	150	9,240
February	522	124	169	9,370
March	663	119	198	12,200
April	1,620	102	221	13,100
May	510	84	127	7,800
June	2,170	68	364	21,700
July	207	60	92	5,670
August	71	----------	62	3,840
September	240	----------	84	5,030
The year	2,170	----------	153	111,000

* Estimated.

SAN ANTONIO RIVER AT GOLIAD, TEX.

LOCATION.—Chain gage on Galveston, Harrisburg & San Antonio Railway bridge in Goliad, Goliad County.

DRAINAGE AREA.—3,910 square miles.

RECORDS AVAILABLE.—June, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 5,410 second-feet April 16 (gage height, 22.50 feet); minimum, 44 second-feet for several periods.

1924–1927: Maximum discharge, 11,900 second-feet April 25, 1926 (gage height, 31.0 feet); minimum discharge, that of 1927.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. Discharge estimated April 1–3 and June 23 to July 6. For diversions see record of Medina Canal near Riomedina.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,920	85	233	14,300
November	580	97	185	11,000
December	575	124	188	11,600
January	323	143	162	9,980
February	624	143	204	11,400
March	1,010	133	299	18,400
April	4,060	102	492	29,300
May	481	97	149	9,180
June	2,190	85	418	24,900
July	190	81	115	7,040
August	81	44	53.7	3,300
September	310	48	91.2	5,430
The year	4,060	44	215	156,000

SAN PEDRO CREEK AT SAN ANTONIO, TEX.

LOCATION.—Water-stage recorder at Missouri, Kansas & Texas Railway culvert 200 feet south of Arsenal Street in San Antonio, Bexar County, 1 mile above mouth of Salsamora and Martinez Creeks, and 2½ miles above confluence with San Antonio River.

RECORDS AVAILABLE.—July, 1916, to September, 1927.

EXTREMES.—Maximum discharge during year, 728 second-feet June 15 (gage height, 5.00 feet); minimum, 0.2 second-foot October 11 (gage height, 0.27 foot).

1916–1927: Maximum discharge not determined; maximum stage, 8.6 feet September 9, 1921, when backwater from Alizan Creek existed; no flow August 16, 1926 (gage height, 0.26 foot).

REMARKS.—Records fair. No diversions. Flow partly regulated at small swimming pool dam above. Entire flow of San Pedro Creek, except during times of heavy precipitation, is furnished by San Pedro Springs 2 miles upstream and flow at this station is believed to be that which reaches San Antonio River. Martinez and Salsamora Creeks carry no water except during heavy local rains and have been known to be dry for several years at a time.

Daily and monthly discharge, in second-feet, of San Pedro Creek at San Antonio, Tex., 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.0	a25.0	6.0	6.0	a4.9	6.5	6.5	8.0	9.0	5.2	7.5	5.6
2	8.0		6.0	6.0	a5.1	6.5	6.5	10.2	10.8	7.0	5.9	4.0
3	9.6		6.0	6.0	a5.2	5.6	7.0	6.0	4.9	7.5	5.6	4.0
4	7.0	a7.5	6.0	6.6	5.2	6.0	7.0	7.5	16.8	7.5	6.5	4.8
5	7.5		6.0	6.0	5.6	6.0	7.0	8.5	23.0	5.4	5.1	5.2
6	7.5	8.0	6.0	6.0	a10.5	6.0	7.5	5.2	22.8	6.5	5.6	4.4
7	9.0	7.5	11.8	6.0	a5.6	17.0	8.0	8.5	7.5	7.5	6.5	4.8
8	8.3	7.0	7.0	6.0		17.7	8.0	8.5	7.5	4.6	7.5	6.5
9	6.5	8.5	7.0	6.5	a40	6.5	7.5	7.0	9.0	6.0	4.9	11.6
10	8.5	6.0	6.0	5.2	a6.0	6.0	8.5	4.0	9.0	6.5	6.5	4.0
11	5.6	5.6	6.0	4.4		6.5	9.6	5.6	9.6	7.0	6.5	5.2
12	6.0	6.5	6.0	7.0	6.0	6.5	20.4	19.3	9.0	4.4	4.4	6.0
13	6.0	7.0	6.0	5.6	6.0	6.5	8.5	5.6	16.8	6.5	4.8	3.3
14	6.5	6.5	6.0	5.2	6.0	6.5	6.5	6.5	68.0	7.0	5.6	4.4
15	19.6	6.5	5.6	4.8	6.0	6.5	6.5	7.0	9.0	4.8	6.0	6.5
16	8.5	7.0	5.6	4.8	6.0	6.5	7.0	7.0	8.5	6.0	4.6	3.4
17	7.0	7.0	5.6	a5.2	6.0	6.5	7.0	4.4	6.3	6.5	5.2	4.8
18	6.0	6.0	6.0		6.0	6.5	7.5	5.2	13.2	7.0	6.0	5.6
19	6.0	6.0	8.5		6.0	6.5	7.5	9.0	8.0	4.7	4.6	a5.2
20	6.0	6.0	9.0	a5.6	6.0	10.9	8.0	5.0	8.0	6.5	4.4	a5.3
21	6.5	6.5	6.0		8.0	8.0	11.5	10.8	16.6	7.0	6.0	a5.5
22	6.5	6.5	6.0		6.0	7.0	5.6	10.2	7.0	4.7	5.6	a5.6
23	9.1	6.5	6.0	5.2	5.6	6.5	7.0	10.2	9.0	6.5	4.0	2.8
24	6.5	7.0	6.0	3.7	5.6	6.5	8.0	12.3	6.2	a7.0	3.7	4.4
25	6.5	7.0	6.0	4.4	6.0	7.0	8.5	9.0	7.0	a7.5	4.8	4.8
26	6.5	6.5	6.0	6.0	6.5	7.0	8.5	9.6	7.5	4.7	3.6	5.2
27	6.0	6.5	6.5	5.2	6.5	7.0	8.0	6.0	8.5	6.5	4.4	2.5
28	6.5	6.5	5.6	5.2	6.5	7.0	10.2	9.6	4.8	7.5	5.2	4.4
29	7.0	6.5	6.0	5.6	-------	7.0	7.5	8.0	6.5	4.5	6.5	4.4
30	6.4	6.5	6.0	5.6	-------	6.5	6.5	9.0	7.0	6.5	4.3	2.5
31	6.4	-------	6.0	a4.8	-------	6.5	-------	4.8	-------	7.0	4.0	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	19.6	4.0	7.32	450
November	----------	5.6	7.99	475
December	11.8	5.6	6.39	393
January	7.0	3.7	5.50	338
February	40.0	4.9	7.30	405
March	17.7	5.6	7.39	455
April	20.4	5.6	8.11	483
May	19.3	4.0	7.98	491
June	68.0	4.8	11.9	708
July	7.5	4.4	6.24	384
August	7.5	3.6	5.35	329
September	11.6	2.5	4.89	291
The year	68.0	2.5	7.18	5,200

a Estimated.

MEDINA RIVER NEAR PIPE CREEK, TEX.

LOCATION.—Water-stage recorder 3½ miles above mouth of Pipe Creek and 4 miles southwest of Pipe Creek post office, Bandera County.

DRAINAGE AREA.—412 square miles.

RECORDS AVAILABLE.—December, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 4,760 second-feet March 7 (gage height, 8.56 feet); minimum, 2.2 second-feet September 9.

1923–1927: Maximum discharge not determined; maximum stage, 19.8 feet April 21, 1926; minimum discharge that of 1927.

The flood of 1919 reached a stage of about 42 feet.

REMARKS.—Records for low stages fair and for high stages poor. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	35	31	62	54	a 551	159	98	54	a 51	24	9.2
2	9.2	91	31	60	57	312	153	95	54	50	18	11
3	8.0	a 84	31	60	57	236	147	91	52	47	20	9.2
4	5.8	a 77	31	60	60	201	145	91	52	67	20	6.8
5	6.8	a 70	31	60	60	194	141	91	462	42	20	5.8
6	8.0	a 62	31	60	104	185	135	89	559	35	20	3.9
7	8.0	a 54	a 402	57	123	980	131	86	159	a 35	16	3.2
8	8.0	52	a 281	54	117	961	133	84	104	a 34	14	2.7
9	8.0	47	a 166	52	a 794	496	135	72	84	a 33	12	2.2
10	8.0	44	a 129	50	a 512	388	131	72	a 77	33	12	3.2
11	8.0	42	117	50	365	340	129	72	a 69	31	11	9.2
12	8.0	42	106	52	272	294	a 932	276	62	31	11	11
13	9.2	40	102	52	228	269	a 736	436	60	29	11	9.2
14	11	40	95	52	206	247	316	a 100	143	29	8.0	11
15	118	40	89	50	183	228	215	93	77	29	9.2	8.0
16	293	40	84	a 50	166	223	192	84	}	33	6.8	6.8
17	63	38	77	50	155	213	176	81	} a 67	33	6.8	4.8
18	42	38	69	52	141	208	182	79	}	29	8.0	4.8
19	33	38	69	54	131	196	257	74	64	29	9.2	5.8
20	29	38	69	52	127	a 695	155	74	64	29	8.0	5.8
21	27	a 35	69	54	119	332	143	72	67	29	13	5.8
22	22	}	69	54	119	256	131	69	}	27	29	6.8
23	24	}	69	54	115	228	127	69	} a 75	24	11	6.8
24	50	}	69	54	111	213	129	67	}	a 26	9.2	6.8
25	40	a 33	69	54	106	206	127	86	}	a 28	8.0	5.8
26	31	}	69	54	102	201	123	74	64	a 29	9.2	5.8
27	29	}	67	54	98	194	121	64	60	a 31	9.2	4.8
28	29	a 31	67	54	a 1,710	187	113	60	54	33	8.0	32
29	27	31	64	57	-------	181	109	57	52	29	6.8	24
30	27	31	62	54	-------	176	104	54	a 51	27	8.0	16
31	40	-------	62	54	-------	170	-------	54	-------	27	8.0	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	293	5.8	33.5	2,060
November	91	31	44.6	2,650
December	402	31	89.6	5,510
January	62	50	54.4	3,340
February	1,710	54	228	12,700
March	980	170	315	19,400
April	932	104	198	11,800
May	436	54	95.6	5,880
June	559	51	102	6,040
July	67	24	33.5	2,060
August	29	6.8	12.4	762
September	32	2.2	8.3	492
The year	1,710	2.2	102	72,700

a Estimated.

MEDINA RIVER NEAR RIOMEDINA, TEX.

LOCATION.—Water-stage recorder just above Medina Valley Irrigation Co.'s diversion dam, 6 miles northwest of Riomedina, Medina County.

DRAINAGE AREA.—606 square miles.

RECORDS AVAILABLE.—January, 1922, to September, 1927.

EXTREMES.—No flow over dam during year.

1922–1927: Maximum discharge, about 11,800 second-feet April 21, 1926 (gage height, 5.17 feet); no flow over dam for several periods.

REMARKS.—Yearly record fair. Record of monthly seepage not sufficiently accurate for publication. Water to irrigate about 5,000 acres is diverted to Medina Canal just above gage; see "Medina Canal near Riomedina." Flow regulated by main storage dam, 4 miles upstream, except when main reservoir is full and water flows over spillway. Medina Valley Irrigation Co furnishes daily gage readings of lake level which are used to determine seepage.

Seepage past diversion dam, measured at Haby crossing 1 mile downstream, was 17,700 acre-feet for year ending September 30, 1927.

MEDINA CANAL NEAR RIOMEDINA, TEX.

LOCATION.—Water-stage recorder just above upper end of flume No. 1 one-third of a mile below head of canal and 6 miles north of Riomedina, Medina County.

RECORDS AVAILABLE.—March, 1922, to September, 1927.

EXTREMES.—Maximum discharge during year, 71 second-feet May 24 (gage height, 1.58 feet); no flow during several periods.

1922–1927: Maximum discharge, 128 second-feet June 26, 1923, and June 5 and 6, 1925; no flow during several periods.

REMARKS.—Records fair. Station is above all diversions from canal. Flow controlled by head gates. Canal diverts from Medina River for irrigation near Lacoste and Natalia.

Daily discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	8.7	23	a 5.6	10	1.8	15	a 29	46	19	19	45
2	26	.4	22	6.1	11	.3	17		50	20	24	45
3	23	0	a 17	15	12	32	18	a 56	58	21	24	45
4	23	0	a 16	21	12	20	23	56	60	20	23	45
5	23	0	16	21	12	0	27	56	42	19	23	44
6	23	0	16	22	12	4.0	34	56	19	15	30	44
7	23	0	15	a 21	6.3	6.5	35	56	16	14	30	43
8	21	0	7.3	a 21	0	24	34	56	15	21	30	42
9	16	16	2.2	21	0	29	a 34	56	20	25	36	42
10		5.6	0	22	0	1.4		56	25	37	50	42
11		11	0	17	0	0		58	28	37	49	
12		8.4	0	10	0	0		56	30	38	50	
13		12	2.5	11	0	0		24	27	38	51	
14		14	4.7	9.2	0	0		15	12	34	51	
15		18	11	9.5	0	0		15	3.3	29	51	
16	a 23	22	a 14	9.7	0	0		15	3.4	38	50	
17		19	a 14	13	8.2	2.2		20	3.8	38	50	
18		18	a 14	16	15	7.2		26	3.6	37	51	
19		22	14	20	15	6.5		30	3.8	37	53	
20		24	7.0	21	15	5.6	a 29	31	11	37	51	a 24
21		24	4.7	21	15	4.5		33	18	38	a 54	
22		26	4.5	21	15	7.2		40	18	45		
23	a 12	27	1.8	16	15	12		49	9.8	48	a 56	
24	.7	27	0	9.5	15	18		55	4.3	50	56	
25	2.9	28	0	9.5	19	18		38	3.8	33	48	
26	23	28	0	9.7	16	18		39	3.8	17	45	
27	24	28	3.3	10	15	18		52	7.5	15	45	
28	23	28	a 5.6	11	11	18		50	18	18	a 45	
29	23	28	a 5.6	a 11	-------	19		45	19	17	45	
30	20	25	a 5.6	10	-------	19		46	19	16	44	
31	17	-------	a 5.6	9.7	-------	16	-------	47	-------	16	45	-------

a Estimated.

Monthly discharge of Medina Canal near Riomedina, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	----------	0.7	21.1	1,290
November (24 days)	28	.4	19.5	928
December (25 days)	23	1.8	10.1	501
January	22	5.6	14.5	894
February (18 days)	19	6.3	13.2	471
March (24 days)	32	.3	12.8	611
April	----------	----------	28.2	1,680
May	58	15	41.6	2,560
June	60	3.3	19.9	1,190
July	50	14	28.6	1,760
August	56	19	43.0	2,640
September	45	----------	30.6	1,820
The year	----------	----------	----------	16,300

CIBOLO CREEK AT SUTHERLAND SPRINGS, TEX.

LOCATION.—Staff gage at highway bridge in Sutherland Springs, Wilson County, 5½ miles below mouth of Elm Creek.

DRAINAGE AREA.—665 square miles.

RECORDS AVAILABLE.—June, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, about 3,890 second-feet March 26 (gage height, 12.20 feet); minimum, 7.7 second-feet August 2 (gage height, 2.00 feet).

1924–1927: Maximum discharge by slope-area method, 23,800 second-feet April 21, 1926 (gage height, 28.5 feet); minimum, 7.1 second-feet October 24, 1925 (gage height, 2.10 feet).

REMARKS.—Records for low and intermediate stages fair and for high stages poor. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	14	17	17	16	12	15	13	15	14	8.8	11
2	11	20	17	17	16	11	15	14	15	16	8.4	10
3	10	51	18	17	16	12	15	14	15	11	9.6	16
4	11	23	18	17	16	11	16	13	15	14	10	14
5	11	12	18	17	16	12	16	13	16	18	11	14
6	12	10	19	17	17	12	16	13	16	14	9.6	14
7	12	10	21	17	17	13	16	13	132	11	10	14
8	11	9.6	22	16	20	14	16	12	55	11	11	14
9	12	10	22	16	28	12	15	13	20	14	10	15
10	12	10	20	17	216	12	16	13	16	12	10	15
11	12	10	20	17	50	14	16	13	15	12	9.6	22
12	12	11	18	16	16	14	271	13	13	18	8.8	16
13	12	11	17	16	12	13	314	27	12	12	8.8	15
14	12	11	18	16	11	13	652	31	107	12	9.2	15
15	21	12	18	16	11	12	238	20	435	10	9.6	14
16	112	11	17	15	11	13	30	18	65	9.6	10	16
17	22	11	17	15	10	13	16	15	26	11	10	15
18	13	12	17	16	9.2	13	15	14	21	12	10	15
19	12	12	18	16	9.2	13	14	14	60	11	10	14
20	12	12	20	17	11	26	16	14	50	11	10	14
21	11	12	20	17	11	224	14	14	29	12	12	14
22	11	12	20	16	12	156	15	14	20	14	10	14
23	11	14	19	16	12	30	15	14	24	11	9.6	15
24	11	14	18	16	11	18	15	14	52	13	10	14
25	23	15	18	16	11	14	15	14	24	13	12	14
26	17	15	17	17	10	671	15	14	14	14	12	14
27	12	16	18	17	11	2,720	15	14	12	12	14	16
28	12	16	18	17	11	251	15	14	12	12	12	16
29	13	15	18	17	-------	29	14	14	14	11	9.6	15
30	13	18	18	17	-------	20	15	14	19	10	10	16
31	13	-------	18	17	-------	15	-------	14	-------	10	9.6	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	112	10	16.1	992
November	51	9.6	14.3	852
December	22	17	18.5	1,140
January	17	15	16.5	1,010
February	216	9.2	22.1	1,220
March	2,720	11	142	8,750
April	652	14	62.9	3,740
May	31	12	15.0	920
June	435	12	44.6	2,660
July	18	9.6	12.4	765
August	14	8.4	10.2	625
September	22	10	14.7	875
The year	2,720	8.4	32.5	23,500

NUECES RIVER BASIN

NUECES RIVER AT LAGUNA, TEX.

LOCATION.—Water-stage recorder 1 mile northwest of Laguna, Uvalde County.
DRAINAGE AREA.—764 square miles.
RECORDS AVAILABLE.—October, 1923, to September, 1927.
EXTREMES.—Maximum and minimum discharge for year not determined.
1924–1927: Maximum discharge, 27,000 second-feet July 23, 1926 (gage height, 14.88 feet); minimum, 8.9 second-feet September 9–11, 1924.
The floods of 1913 and September 21, 1923, reached stage of 26.5 feet, from floodmarks (discharge, 74,500 second-feet, by slope-area method). Floods in 1903 reached a slightly higher stage.
REMARKS.—Records for low stages fair and for high stages poor. No diversion above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	35	42	66	54		a 120	106			49	19
2	35	44	42	64	54		109	102			44	20
3	33	37	44	64	54		106	99			42	19
4	33	35	42	64	54		102	95			40	18
5	33	33	42	66	52		99	92			39	18
6	33	33	44	66	76		95	86	a 37		37	17
7	31	33	56	66	69		95	82			35	16
8	31	33	46	66	72		113	79			33	15
9	30	35	52	64	369		135	76			33	15
10	30	37	59	64	399		124	72			31	15
11	30	37	56	64	281		120	69			31	15
12	30	39	59	64	243		143	66			30	14
13	28	39	59	62	229		184	69			28	14
14	30	37	59	62	215		248	62	a 76		26	14
15	35	37	59	62	206	a 120	238	59			26	14
16	31	37	59	62	192		197	56		a 67	26	15
17	30	37	59	62	184		171	54	a 76		26	15
18	28	39	59	59	179		163	49			30	15
19	28	39	59	59	175		163	46			25	14
20	28	39	59	59	171		163	42			24	14
21	26	39	59	56	167		163	39	a 424		25	14
22	28	40	59	56	163		155	39	a 139		24	14
23	28	42	56	59	159		151	37			24	14
24	28	42	64	56	159		143	35			23	13
25	28	40	66	56	155		139				23	13
26	28	40	66	56	155		132		a 67		22	13
27	28	40	69	56	151		128	a 37			22	12
28	28	40	66	56	143		120				22	13
29	28	40	66	56	-------		117				20	13
30	28	42	66	56	-------		113				20	13
31	30	-------	66	54	-------		-------		-------		19	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	37	26	30.1	1,850
November	44	33	38.0	2,260
December	69	42	56.7	3,490
January	66	54	60.7	3,730
February	399	52	164	9,080
March	----------	----------	120	7,380
April	248	95	142	8,430
May	106	----------	60.3	3,710
June	424	----------	70.4	4,190
July	----------	----------	67.0	4,120
August	49	19	29.0	1,780
September	20	12	14.9	889
The year	424	12	70.3	50,900

a Estimated or partly estimated.

NUECES RIVER AT COTULLA, TEX.

LOCATION.—Staff gage 100 feet upstream from Farmer Dam, half a mile below International & Great Northern Railway bridge, and 1.9 miles, by road, from post office at Cotulla, LaSalle County.

DRAINAGE AREA.—5,260 square miles, large part of which is noncontributing at low stages, owing to water entering a fault near Uvalde.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,440 second-feet October 22 (gage height, 2.25 feet); no flow during several periods.

1923–1927: Maximum discharge, 49,500 second-feet June 3, 1925 (gage height, 14.89 feet); no flow during several periods.

REMARKS.—Records for low stages poor and for high stages fair. Most of low-water flow is diverted by pumping from storage reservoir above; amount not known. Low-water flow is regulated by storage reservoirs above.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	15	0	0	0	12	0	4.5	0	61	3.5	8.0
2	0	15	0	0	0	9.5	0	1.5	0	109	1.5	5.0
3	0	14	0	0	0	7.5	0	0	0	159	0	1.5
4	0	14	0	0	0	5.5	0	0	0	177	0	1.0
5	0	13	0	0	0	4.5	0	0	0	264	0	0
6	0	11	0	0	0	4.0	0	0	0	312	0	0
7	0	10		0	0	4.0	0	0	0	252	0	0
8	0	10	0	0	0		0	0	0	195	0	0
9	0	10	0	0	0	2.0	0	0	34	168	0	0
10	0	8.5	0	0	0		0	0	264	123	0	0
11	0	6.5	0	0	0	0	0	0	61	82	0	0
12	0	5.0	0	0	0		0	0	32	57	0	0
13	0	4.5	0	0	0	0	0	0	18	32	0	0
14	0	4.0	0	0	0	0	0	0	542	22	0	0
15	0	3.0	0	0	186	0	0	0	213	18	0	0
16	0	1.5	0	0	384	0	0	0	432	16	0	0
17	0	0	0	0	240	0	20	0	817	13	0	0
18	5.0	0	0	0	123	0	444	0	396	10	0	0
19	425	0	0	0	74	0	288	0	143	8.5	0	0
20	1,010	0	0	0	69	0	150	0	89	48	0	0
21	1,240	0	0	0	44	0	82	0	48	14	0	0
22	1,360	0	0	0	30	0	53	0	36	9.0	0	0
23	890	0	0	0	20	0	38	0	28	7.0	0	0
24	846	0	0	0	18	0	34	0	17	5.5	136	0
25	109	0	0	0	16	0	24	0	12	4.5	96	0
26	78	0	0	0	12	0	24	0	12	4.0	69	0
27	48	0	0	0	16	0	20	0	82	6.5	48	0
28	34	0	0	0	14	0	14	0	82	8.0	30	396
29	24	0	0	0	------	0	11	0	69	6.5	18	19
30	17	0	0	0	------	0	8.5	0	61	5.5	14	10
31	15	------	0	0	------	0	------	0	------	5.0	10	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,360	0	197	12,100
November	15	0	4.83	288
February	384	0	44.5	2,470
March	12	0	1.71	105
April	444	0	40.3	2,400
May	4.5	0	.19	11.9
June	817	0	116	6,920
July	312	4.0	71.0	4,370
August	136	0	13.7	845
September	396	0	14.7	874
The year	1,360	0	41.9	30,400

NUECES RIVER NEAR THREE RIVERS, TEX.

LOCATION.—Staff gage at San Antonio, Uvalde & Gulf Railroad bridge 2 miles southeast of Three Rivers, Live Oak County, and half a mile below Frio River.

DRAINAGE AREA.—15,600 square miles, part of which is noncontributing at low stages, owing to water entering faults near Uvalde.

RECORDS AVAILABLE.—July, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 11,600 second-feet June 16 (gage height, 32.7 feet); no flow during several periods.

1915–1927: Maximum discharge not determined; maximum stage, 46.0 feet (probably some backwater due to Gulf storm) September 18,1919; no flow during several periods.

REMARKS.—Records fair. About 10,000 acres declared irrigated above station. At very low stages flow is regulated for short periods by railroad pumping plant just above control. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	347	3.0	12	7.0	31	841	60	3.0	155	186	3.0
2	0	363	1.0	9.0	7.0	25	753	38	3.0	110	121	1.0
3	0	268	1.0	9.0	7.0	74	374	31	1.0	99	75	1.0
4	31	141	0	9.0	9.0	42	204	25	0	542	48	1.0
5	635	141	0	9.0	7.0	19	176	20	0	800	31	0
6	535	119	9.0	7.0	7.0	16	131	16	5.9	248	20	0
7	410	95	18	7.0	10	45	61	9.0	1,080	231	12	0
8	347	60	66	7.0	61	82	25	5.0	1,300	231	9.0	0
9	379	38	117	5.0	86	48	18	1.0	542	231	5.0	10
10	379	31	125	5.0	21	38	12	0	288	204	3.0	1,050
11	229	25	30	5.0	23	31	9.0	0	84	204	1.0	410
12	85	20	19	3.0	19	25	9.0	0	492	186	1.0	251
13	48	16	6.8	3.0	14	25	7.0	916	363	117	0	42
14	38	12	5.0	3.0	7.4	20	8.2	1,340	1,120	75	0	17
15	1,960	12	3.0	12	7.0	16	830	498	9,100	48	0	8.0
16	3,870	9.0	1.0	16	7.0	16	365	157	11,400	38	0	6.6
17	2,470	9.0	60	12	9.0	12	32	84	9,840	38	0	237
18	713	7.0	214	12	7.0	12	25	53	7,780	31	0	226
19	347	7.0	131	9.0	7.0	10	20	24	4,950	31	0	43
20	1,230	5.0	62	9.0	7.0	87	20	7.8	2,490	25	0	18
21	1,620	5.0	30	7.0	11	1,360	16	5.0	1,930	16	0	12
22	610	3.0	25	7.0	131	1,530	9.0	3.0	1,840	66	304	9.0
23	850	3.0	16	7.0	97	602	7.0	1.0	1,690	47	184	5.0
24	880	1.0	16	7.0	91	176	7.0	0	1,100	37	53	3.0
25	760	1.0	12	7.0	75	25	9.0	0	498	87	176	1.0
26	850	0	12	7.0	60	25	9.6	0	299	914	121	.3
27	910	0	9.0	9.0	60	20	158	.2	248	850	52	267
28	940	0	12	7.0	48	16	115	34	204	610	28	120
29	735	0	9.0	7.0	-------	12	95	22	231	174	20	24
30	299	0	7.0	7.0	-------	16	75	10	282	231	12	15
31	248	-------	5.0	5.0	-------	17	-------	7.0	----------	265	5.0	--------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	3,870	0	723	44,400
November	363	0	57.9	3,450
December	214	0	33.1	2,030
January	16	3.0	7.74	476
February	131	7.0	32.2	1,790
March	1,530	10	144	8,870
April	841	7.0	147	8,770
May	1,340	0	109	6,680
June	11,400	0	1,970	117,000
July	914	16	224	13,800
August	304	0	47.3	2,910
September	1,050	0	92.7	5,520
The year	11,400	0	298	216,000

NUECES RIVER AT CALALLEN, TEX.

LOCATION.—Staff gage at old pump house for city of Corpus Christi, half a mile northwest of Calallen, Nueces County, and half a mile above edge of tidewater and breakwater dam.

DRAINAGE AREA.—16,900 square miles, large part of area is noncontributing at low stages, owing to water entering faults near Uvalde.

RECORDS AVAILABLE.—August, 1915, to September, 1927.

EXTREMES.—Maximum stage during year, 8.60 feet June 22; minimum stage, 0.60 foot for several periods.

1915–1927: During September, 1919, the river reached a stage of about 12 feet, as determined from floodmarks on gage. This was not only the highest stage reached during the period covered by records but probably exceeds any that occurred for many years prior to the establishment of this station. No flow August 23–28, 1918.

REMARKS.—Discharge not computed. Gage-height record furnished by the city of Corpus Christi.

Daily gage height, in feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.60	3.65	2.18	3.22	2.45	3.20	2.82	2.82	1.28	3.15	2.95	2.12
2	.65	2.75	2.05	3.18	2.45	3.12	2.78	2.68	1.50	3.20	2.95	1.92
3	.65	2.88	1.90	3.15	2.48	2.95	2.70	2.45	1.80	3.15	3.10	1.82
4	.60	2.65	1.80	3.15	2.50	3.10	3.30	2.25	1.88	3.00	2.80	1.85
5	.70	2.42	1.90	3.10	2.55	3.28	3.72	2.10	1.98	2.90	2.55	1.80
6	1.00	2.58	2.05	3.02	2.62	3.25	3.42	1.95	2.08	2.95	2.48	1.65
7	3.52	3.18	1.98	3.00	2.70	3.08	3.32	1.80	2.12	3.52	2.42	1.58
8	3.28	3.22	2.10	3.00	2.68	3.00	3.12	1.78	1.80	3.40	2.20	1.40
9	3.00	3.02	2.35	3.00	2.62	2.92	2.95	1.72	2.30	3.10	2.05	1.35
10	2.68	2.90	2.58	3.05	2.72	2.78	2.85	1.55	4.42	3.10	2.05	3.38
11	2.45	2.80	2.72	2.95	3.18	2.92	2.65	1.25	4.00	3.15	2.00	3.95
12	2.65	2.68	2.90	2.88	3.20	3.10	2.45	.95	3.58	3.10	1.80	4.42
13	2.78	2.52	3.10	2.82	3.12	3.10	2.32	.98	3.38	3.10	1.62	3.68
14	2.50	2.45	3.02	2.75	3.05	3.05	2.28	1.08	3.78	3.10	1.58	3.20
15	2.38	2.40	2.90	2.68	3.00	2.92	2.22	1.15	5.02	3.10	1.50	2.82
16	2.12	2.28	2.85	2.65	3.00	2.72	2.75	4.00	5.72	2.98	1.35	2.50
17	3.35	2.22	2.80	2.60	3.00	2.60	4.55	3.82	6.38	2.80	1.10	2.05
18	5.25	2.20	2.80	2.40	2.92	2.50	4.12	3.30	6.90	2.65	.90	1.82
19	5.25	2.20	2.80	2.28	2.85	2.48	3.35	3.00	7.40	2.52	.88	1.68
20	3.95	2.28	2.80	2.25	2.82	2.55	2.85	2.85	7.98	2.45	.92	2.48
21	2.92	2.40	2.80	2.18	2.78	2.70	2.70	2.70	8.42	2.38	.95	2.70
22	3.78	2.60	2.80	2.18	2.75	2.70	2.58	2.70	8.58	2.25	.95	2.38
23	4.15	2.60	2.80	2.32	2.75	4.30	2.85	2.45	8.00	2.30	.95	2.10
24	3.32	2.45	3.08	2.48	2.75	4.65	2.82	2.25	7.12	2.20	.78	1.98
25	3.35	2.35	3.28	2.50	2.75	3.90	2.82	2.05	6.00	2.25	.65	1.85
26	3.40	2.30	3.22	2.45	3.35	3.42	2.78	1.82	4.60	2.25	2.55	1.75
27	3.35	2.28	3.10	2.40	3.38	3.25	3.15	1.65	3.80	3.22	2.65	1.50
28	3.35	2.38	3.05	2.32	3.28	3.15	3.18	1.38	3.40	3.55	2.90	1.42
29	3.42	2.42	3.10	2.32	-------	3.00	3.02	1.22	3.22	3.92	2.75	1.32
30	3.92	2.32	3.10	2.42	-------	2.92	2.90	1.30	3.20	3.68	2.50	2.28
31	5.02	-------	3.22	2.48	-------	2.88	-------	1.30	-------	3.15	2.32	-------

FRIO RIVER AT CONCAN, TEX.

LOCATION.—Staff and chain gages half a mile below Concan post office, Uvalde County, four-fifths of a mile below what is known as "Shut In."

DRAINAGE AREA.—485 square miles.

RECORDS AVAILABLE.—October, 1923, to September, 1927.

EXTREMES.—Maximum discharge during year, 800 second-feet July 15 (gage height, 3.30 feet); minimum, 25 second-feet September 7–18 (gage height, 1.49 feet).

1924–1927: Maximum discharge, about 30,400 second-feet July 13, 1926 (gage height, 14.50 feet); minimum, 12 second-feet July 29 to August 2, 1925.

Highest known stage, 28.8 feet (from floodmark) September 18, 1923.

REMARKS.—Records fair for low stages and poor for high stages. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	63	36	36	61	40	144	116	71	66	48	40	29
2	63	48	36	61	40	175	100	71	66	44	40	29
3	63	61	36	61	40	175	100	71	66	44	40	29
4	63	55	36	61	40	175	100	71	66	44	40	29
5	63	51	36	61	44	155	100	71	66	44	40	29
6	63	51	36	61	61	137	100	71	79	44	40	28
7	63	50	51	61	68	155	100	71	94	44	40	25
8	63	38	51	61	61	240	100	71	79	44	40	25
9	63	36	51	61	402	209	100	71	66	44	40	25
10	63	36	51	61	427	175	100	71	66	41	40	25
11	63	36	51	55	352	175	100	71	66	41	41	25
12	63	36	51	51	304	167	100	71	66	41	41	25
13	63	36	51	51	258	144	171	235	63	41	41	25
14	63	36	51	51	258	137	134	97	55	41	41	25
15	63	36	51	51	258	137	134	97	51	427	41	25
16	63	36	51	51	258	137	134	97	53	41	41	25
17	63	36	51	51	183	137	134	97	53	38	41	25
18	63	36	51	48	144	137	134	81	53	38	41	25
19	63	36	51	43	137	137	134	68	97	38	41	26
20	58	36	55	43	137	155	134	68	63	37	32	26
21	53	36	61	40	137	175	134	68	63	36	28	26
22	36	36	61	40	137	167	134	68	63	36	28	26
23	36	36	61	40	137	155	134	68	63	37	28	26
24	36	36	61	40	137	137	116	68	63	38	29	26
25	36	36	61	40	137	137	100	68	63	38	29	26
26	36	36	61	40	137	137	100	68	58	46	29	26
27	36	36	61	40	130	137	100	68	53	55	29	26
28	36	36	61	40	120	137	100	68	51	41	29	26
29	36	36	61	40	-------	137	100	68	50	48	29	26
30	36	36	61	40	-------	137	100	68	50	43	29	26
31	36	-------	61	40	-------	137	-------	68	-------	40	29	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	63	36	53.8	3,310
November	61	36	39.4	2,340
December	61	36	51.8	3,180
January	61	40	49.8	3,060
February	427	40	164	9,090
March	240	137	155	9,510
April	171	100	115	6,830
May	235	68	78.7	4,840
June	97	50	63.7	3,790
July	427	36	54.3	3,340
August	41	28	36.0	2,220
September	29	25	26.2	1,560
The year	427	25	73.3	53,100

FRIO RIVER NEAR FRIO TOWN, TEX.

LOCATION.—Staff and chain gage 300 feet below Frio ford, 1½ miles below Sabinal Creek, and 7 miles northwest of Frio Town, Frio County.

DRAINAGE AREA.—1,460 square miles, large part of which is noncontributing at low stages, owing to water entering fault near Uvalde.

RECORDS AVAILABLE.—April, 1924, to September, 1927, when station was discontinued.

EXTREMES.—Maximum discharge during year, 2,260 second-feet July 26 (gage height, 6.70 feet); no flow during several periods.

1924–1927: Maximum discharge determined by slope-area method, 30,200 second-feet April 20, 1926 (gage height, 30.5 feet); no flow during several periods each year.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. No diversions above station.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
April	230	0	12.3	730
June	238	0	13.2	787
July	1,110	0	44.3	2,730
The year	1,110	0	58.6	4,250

NOTE.—No flow during months for which discharge is not given.

FRIO RIVER NEAR DERBY, TEX.

LOCATION.—Staff gage at International & Great Northern Railway bridge 900 feet below Leona River and 4 miles south of Derby, Frio County.

DRAINAGE AREA.—3,490 square miles, large part of which is noncontributing at low stages, owing to water entering fault near Uvalde.

RECORDS AVAILABLE.—August, 1915, to September, 1927.

EXTREMES.—Maximum discharge during year, 874 second-feet June 8 (gage height, 3.29 feet); no flow during several periods.

1915–1927: Maximum discharge, about 34,400 second-feet September 18, 1919 (gage height, 18.5 feet); no flow during several periods of each year.

REMARKS.—Records good. Small areas are irrigated above station; amount diverted not known.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.3	1.4	1.4	0	0	0.2	1.7	0
2	0	0	0	0	1.1	1.4	1.4	0	0	.2	1.4	0
3	0	0	0	0	.8	1.4	1.4	0	0	.2	.8	0
4	0	0	0	0	1.4	1.4	1.1	0	0	4.1	.6	0
5	0	0	0	0	1.4	1.4	.4	0	0	15	.3	0
6	0	0	0	0	1.4	1.4	.3	0	0	7.6	0	0
7	0	0	0	0	1.4	1.4	.2	0	227	4.1	0	0
8	0	0	0	0	1.4	1.4	.2	0	658	1.4	0	0
9	0	0	0	0	1.4	1.4	.1	0	126	1.4	0	0
10	0	0	0	0	1.4	1.4	.1	0	22	.8	0	0
11	0	0	0	.2	1.4	1.4	.1	0	8.4	.6	0	0
12	0	0	0	.2	1.4	1.4	.1	0	3.0	.4	0	0
13	0	0	0	.2	1.4	1.4	.1	0	1.4	.3	0	0
14	0	0	0	.2	1.4	1.4	80	0	198	.1	0	0
15	0	0	0	.2	1.4	1.4	348	0	794	.1	0	0
16	0	0	0	.2	1.4	1.4	92	0	258	136	0	0
17	79	0	0	.2	1.4	1.4	46	0	83	53	0	0
18	211	0	0	.2	1.4	1.4	25	0	31	15	0	0
19	65	0	0	.2	1.4	1.4	13	0	14	6.8	0	0
20	18	0	0	.3	1.4	1.7	7.6	0	6.1	2.1	0	0
21	11	0	0	1.4	1.4	2.1	6.1	0	2.1	1.7	0	0
22	6.1	0	0	1.4	1.4	2.1	4.7	0	27	.6	0	0
23	1.4	0	0	1.4	1.4	1.7	2.1	0	17	.3	0	0
24	.4	0	0	1.7	1.4	1.4	1.4	0	8.4	.3	0	0
25	.1	0	0	2.1	1.4	1.4	.4	0	5.4	.1	0	0
26	0	0	0	2.1	1.4	1.4	.2	0	2.1	0	0	0
27	0	0	0	2.1	1.4	1.4	.1	0	1.4	496	0	0
28	0	0	0	2.1	1.4	1.4	.1	0	.8	48	0	0
29	0	0	0	2.1	-------	1.4	0	0	.5	32	0	0
30	0	0	0	2.1	-------	1.4	0	0	.5	20	0	0
31	0	-------	0	1.4	-------	1.4	-------	0	-------	11	0	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	211	0	12.6	778
January	2.1	0	.71	43.6
February	1.4	.3	1.33	73.8
March	2.1	1.4	1.46	90.0
April	348	0	21.1	1,260
June	794	0	83.2	4,950
July	496	0	27.7	1,700
August	1.7	0	.15	9.5
The period	794	0	12.3	8,900

LEONA RIVER NEAR DIVOT, TEX.

LOCATION.—Staff gage at Divot-Pearsall highway bridge, 2½ miles northeast of Divot, Frio County, and 12 miles above mouth of river.

DRAINAGE AREA.—565 square miles.

RECORDS AVAILABLE.—April, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, not determined; no flow during most of year.

1924–1927: Maximum discharge, about 4,810 second-feet April 23, 1926 (gage height, 14.9 feet); no flow during several periods each year.

REMARKS.—Monthly records fair. Record of daily discharge not sufficiently accurate for publication. Discharge estimated April 14–18. Several small diversions above station; amount not known. Low-water flow regulated by dams upstream.

Monthly discharge, 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	256	0	12.8	790
April		0	8.33	496
June	41	0	3.40	202
The period				1,490

NOTE.—No flow Oct. 1–14, Oct. 24 to Apr. 13, Apr. 19 to June 19, and June 24–30; no record obtained July 1 to Sept. 30.

RIO GRANDE BASIN

RIO GRANDE BELOW ELEPHANT BUTTE DAM, N. MEX.

LOCATION.—Water-stage recorder in sec. 25, T. 13 S., R. 4 W., just below Elephant Butte Dam. Mescal Canyon enters 1½ miles downstream.
RECORDS AVAILABLE.—October, 1916, to September, 1927.
EXTREMES.—No data.
REMARKS.—Records good. Considerable water is diverted above station; amount not known. Flow controlled by Elephant Butte Dam which forms reservoir having capacity of 2,638,000 acre-feet. Records furnished by United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	255	260	166	586	870	1,450	2,210	2,220	1,580	1,360	2,160
2	5	5	5	5	700	1,050	1,650	2,300	2,290	1,300	1,500	2,160
3	5	5	5	5	700	933	1,760	2,230	2,290	1,620	1,940	2,160
4	5	5	5	5	777	933	1,760	2,210	2,290	2,050	2,150	2,160
5	5	5	5	5	828	933	1,760	2,110	2,290	2,050	1,490	2,160
6	5	5	5	5	828	933	1,760	2,030	2,290	2,150	1,100	2,100
7	5	5	5	5	828	885	1,760	1,900	2,290	2,230	945	1,940
8	5	5	5	5	828	695	1,850	1,900	2,250	2,400	1,270	1,940
9	75	5	5	5	714	695	2,170	1,960	2,150	2,480	1,940	1,880
10	5	5	5	5	600	602	2,170	2,040	2,300	2,480	1,940	1,810
11	5	5	5	5	600	393	2,170	2,040	2,300	2,480	2,170	1,810
12	5	5	5	5	550	695	2,170	2,040	2,300	2,470	2,380	1,860
13	5	5	5	5	476	695	2,140	2,040	2,300	2,460	2,380	1,820
14	5	5	201	5	438	739	2,070	2,040	2,260	2,400	2,380	1,560
15	188	413	400	5	401	919	1,940	2,040	1,980	2,340	2,380	1,050
16	313	516	400	5	401	919	1,900	2,040	1,900	2,350	2,380	1,050
17	313	516	400	5	401	964	1,900	2,040	1,950	2,350	2,380	1,050
18	313	516	400	5	401	1,140	1,900	2,040	1,950	2,350	2,380	1,050
19	313	516	200	5	401	1,140	1,900	2,040	1,970	2,350	2,380	1,050
20	230	516	5	5	401	1,140	1,900	2,040	2,100	2,400	2,380	1,050
21	236	516	5	5	280	1,210	1,900	2,080	2,100	2,510	2,380	1,050
22	346	516	5	5	615	1,280	1,900	2,180	2,060	2,560	2,160	1,050
23	480	516	5	5	981	1,280	1,900	2,180	2,060	2,660	1,560	1,050
24	480	516	300	5	700	1,280	1,900	2,180	2,060	2,610	1,560	1,050
25	480	516	400	108	700	1,280	1,900	2,180	2,060	2,450	1,770	1,050
26	480	516	400	415	700	1,280	1,900	2,180	2,060	2,100	1,960	1,050
27	480	516	400	415	744	1,280	1,920	2,180	2,060	2,280	2,080	940
28	480	516	400	415	933	1,290	2,190	2,140	2,000	2,160	2,110	780
29	480	516	400	415	-------	1,360	2,120	1,940	1,880	1,630	2,160	780
30	480	516	400	415	-------	1,360	2,120	1,940	1,880	1,900	2,160	780
31	480	-------	400	415	-------	1,360	-------	2,120	-------	2,010	2,160	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	480	5	217	13,300
November	516	5	282	16,800
December	400	5	176	10,800
January	415	5	92.9	5,710
February	981	280	625	34,700
March	1,360	393	1,020	62,700
April	2,190	1,450	1,930	115,000
May	2,300	1,900	2,080	128,000
June	2,300	1,880	2,130	127,000
July	2,660	1,300	2,230	137,000
August	2,380	945	1,980	122,000
September	2,160	780	1,450	86,300
The year	2,660	5	1,190	859,000

RIO GRANDE NEAR EL PASO, TEX.

LOCATION.—Water-stage recorder in SE. ¼ sec. 9, T. 29 S., R. 4 E., at Courchesnes quarries 4 miles northwest of El Paso, El Paso County.

RECORDS AVAILABLE.—May, 1897, to September, 1927. May, 1889, to June, 1893, for station at Old Fort Bliss 1,500 feet above Mexican Dam; January, 1895, to May, 1897, for station at pumping house of smelter company, 1 mile below present gage.

EXTREMES.—Maximum discharge during year, 5,350 second-feet July 26 (gage height, 4.94 feet); minimum mean daily discharge, 127 second-feet January 29.

1889–1893, 1895–1927: Maximum mean daily discharge, 23,700 second-feet June 12, 1905; no flow for several periods previous to construction of Elephant Butte Dam.

REMARKS.—Records good. Considerable water is diverted above station; amount not known. Flow regulated by storage at Elephant Butte Dam. Records furnished by the United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	670	630	380	380	408	450	857	1,480	1,000	1,080	2,300	1,350
2	555	688	393	465	457	430	930	1,560	1,020	950	1,550	1,160
3	450	600	457	483	500	518	930	1,300	1,190	1,040	1,220	1,250
4	376	590	535	480	504	648	968	1,290	1,360	1,160	1,320	1,380
5	320	410	580	370	610	830	849	1,120	1,500	926	1,680	1,500
6	310	315	356	333	600	850	1,150	1,070	1,640	893	2,560	1,250
7	323	270	310	324	580	822	840	1,080	1,460	1,000	2,200	1,300
8	333	245	412	329	590	810	760	1,300	1,320	850	1,200	1,400
9	370	226	432	250	607	670	687	1,560	1,220	930	1,140	1,800
10	336	194	380	205	550	572	780	1,020	1,200	1,000	820	1,780
11	303	185	263	184	560	510	999	940	1,250	1,440	1,460	1,400
12	327	174	280	168	620	528	912	928	1,420	1,380	875	1,340
13	320	170	243	154	520	518	940	1,020	1,560	1,350	1,270	1,500
14	292	154	262	147	542	420	1,170	940	1,350	1,450	1,580	2,600
15	270	135	255	142	520	374	1,260	1,020	1,270	1,230	1,660	1,740
16	266	135	225	143	426	475	1,260	1,260	1,450	1,160	1,420	1,450
17	244	134	200	150	383	461	1,170	1,060	1,310	1,180	1,260	2,080
18	223	133	180	150	410	500	1,060	1,020	1,060	1,150	1,520	2,290
19	215	130	157	155	369	552	1,110	930	1,250	1,060	2,170	1,420
20	250	285	160	155	345	602	1,020	942	1,500	1,100	2,420	1,200
21	257	488	299	160	323	760	974	1,060	1,050	1,060	2,040	1,200
22	255	488	327	170	265	720	1,020	1,340	1,060	1,000	1,980	1,060
23	274	490	292	165	190	710	950	1,320	1,080	970	1,600	996
24	283	510	263	162	208	670	1,170	1,180	1,110	1,500	1,450	910
25	245	520	245	160	239	640	1,220	1,080	1,080	1,750	1,100	1,020
26	267	480	230	154	305	640	1,000	1,120	1,150	3,750	810	1,080
27	368	540	235	148	359	680	898	1,270	1,250	2,100	840	850
28	418	430	217	135	399	752	850	1,180	1,120	2,280	870	820
29	447	428	195	127	-------	669	870	1,260	900	2,750	1,120	775
30	480	422	320	140	-------	659	1,120	1,420	1,070	2,520	1,120	760
31	570	-------	394	314	-------	757	-------	1,100	-------	1,740	1,180	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	670	215	342	21,100
November	688	130	353	21,000
December	580	157	306	18,800
January	483	127	226	13,900
February	620	190	442	24,600
March	850	374	619	38,100
April	1,260	687	991	59,000
May	1,560	928	1,170	71,700
June	1,640	900	1,240	73,800
July	3,750	850	1,410	86,800
August	2,560	810	1,480	90,700
September	2,600	760	1,360	80,600
The year	3,750	127	829	600,000

RIO GRANDE BELOW OLD FORT QUITMAN, NEAR FINLAY, TEX.

LOCATION.—Water-stage recorder at lower end of El Paso Valley, 1½ miles below Old Fort Quitman and 11½ miles south of Finlay, Hudspeth County.

RECORDS AVAILABLE.—January, 1923, to September, 1927.

EXTREMES.—Maximum mean daily discharge during year, 1,440 second-feet September 21 (gage height, 4.68 feet); minimum mean daily discharge, 45 second-feet July 13.

1923–1927: Maximum mean daily discharge, 2,600 second-feet September 11, 1925; minimum mean daily discharge, 20 second-feet July 23 and 24, 1925.

REMARKS.—Records good. Considerable water diverted above station; amount not known. Flow regulated by storage at Elephant Butte Dam. Records furnished by State of Colorado Engineering Department. Occasional discharge measurements were made by United States Bureau of Reclamation.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,390	265	320	200	140	109	112	98	265	192	1,050	302
2	1,340	290	305	190	135	97	103	100	240	158	1,230	272
3	1,210	330	290	220	135	103	103	180	196	118	1,360	283
4	1,060	365	285	270	200	94	175	295	127	121	1,310	358
5	896	450	290	290	280	103	243	310	99	140	773	340
6	780	505	300	310	275	100	228	250	122	168	678	340
7	628	530	350	340	285	103	187	198	196	152	634	391
8	463	490	400	345	320	157	158	228	240	118	746	397
9	430	405	385	340	345	210	166	256	262	87	917	300
10	424	345	370	310	335	225	131	405	228	137	971	267
11	430	320	395	295	320	239	96	548	200	52	551	381
12	437	275	400	270	325	230	77	513	220	63	354	652
13	443	275	400	265	345	212	60	309	280	45	246	715
14	437	275	375	250	365	214	56	240	478	120	261	720
15	414	240	355	235	360	195	91	192	583	152	300	680
16	399	210	340	205	360	182	169	190	694	126	330	840
17	371	185	300	190	340	159	294	220	686	137	527	995
18	350	195	290	185	325	118	378	250	594	142	499	1,300
19	347	195	275	175	295	85	410	230	610	94	506	1,400
20	335	195	265	175	280	65	351	188	610	107	538	1,410
21	311	195	260	170	225	67	313	141	506	101	682	1,440
22	244	190	250	170	215	77	285	103	426	83	912	1,400
23	236	185	240	170	200	80	212	98	423	51	1,050	1,220
24	223	220	275	170	155	77	199	121	290	48	1,140	950
25	223	285	330	170	140	81	169	180	222	137	1,230	820
26	223	280	340	160	140	77	171	196	182	207	1,240	695
27	233	255	340	160	135	75	210	147	172	561	949	664
28	211	260	300	155	125	80	232	116	196	700	587	640
29	200	275	275	150	-------	90	197	121	238	866	471	584
30	204	300	245	150	-------	90	126	149	228	943	420	506
31	226	-------	225	145	-------	97	-------	218	-------	936	390	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,390	200	488	30,000
November	530	185	293	17,400
December	400	225	315	19,400
January	345	145	220	13,500
February	365	125	254	14,100
March	239	65	126	7,720
April	410	56	190	11,300
May	548	98	219	13,500
June	694	99	327	19,500
July	943	45	228	14,000
August	1,360	246	737	45,300
September	1,440	267	709	42,200
The year	1,440	45	342	248,000

RIO GRANDE AT LANGTRY, TEX.

LOCATION.—Staff gage at east end of canyon section, half a mile from Langtry, Val Verde County, and 13 miles above Pecos River.

RECORDS AVAILABLE.—May, 1900, to October, 1914; December, 1919, to March, 1920; and January, 1924, to September, 1927.

EXTREMES.—Maximum discharge during year, 25,600 second-feet July 2 (gage height, 11.34 feet); minimum, 1,340 second-feet June 16.

1900–1914, 1919–20, 1924–1927: Maximum discharge, 132,000 second-feet September 13, 1904 (gage height, 34.25 feet); minimum, 270 second-feet May 8–13, 1904.

A float measurement by W. H. Dodd on September 16, 1919, at stage of 46.9 feet showed discharge of 152,000 second-feet. A stage of 56.9 feet (from floodmark by W. H. Dodd) reached about June 18, 1922.

REMARKS.—Records fair. Considerable water is diverted above station; amount not known. Flow partly regulated by storage at Elephant Butte Dam and at dams on tributaries.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,830	2,840	2,040	2,190	2,040	2,040	1,890	1,510	1,450	1,510	2,500	3,210
2	4,760	2,840	2,040	2,040	2,040	2,040	1,760	1,510	1,390	11,000	2,190	3,020
3	6,680	3,210	2,040	2,040	2,040	2,040	1,890	1,510	1,390	7,640	2,040	3,410
4	5,720	2,840	2,040	2,040	2,040	2,040	2,460	1,510	1,390	3,830	1,760	3,410
5	5,480	2,840	2,040	2,040	2,040	2,040	2,250	1,510	2,390	2,190	2,040	3,410
6	5,240	2,670	2,040	2,040	2,040	2,040	1,890	1,510	1,510	1,510	2,040	3,410
7	4,520	2,670	2,340	2,040	2,040	2,040	1,890	1,510	1,510	1,510	2,040	2,840
8	3,830	2,670	2,500	2,040	2,040	1,890	1,890	1,510	1,450	1,510	1,630	2,670
9	3,620	2,670	2,340	2,040	2,500	1,890	1,890	1,510	1,450	1,450	1,510	2,190
10	3,410	2,670	2,340	2,040	2,040	1,890	2,190	1,390	1,450	1,450	1,890	1,890
11	3,210	2,670	2,190	2,040	2,190	1,890	2,040	1,390	1,390	1,450	2,040	1,760
12	3,020	2,670	2,190	2,040	2,040	1,890	1,890	1,390	1,390	1,450	2,040	1,760
13	2,840	2,500	2,190	2,190	2,040	1,890	2,040	4,550	2,040	1,450	2,190	1,890
14	2,670	2,500	2,190	2,190	2,040	1,890	1,890	3,050	4,110	3,210	2,190	2,040
15	16,700	2,500	2,190	2,190	2,040	1,890	1,890	1,630	1,450	3,410	2,040	2,040
16	9,620	2,340	2,190	2,190	2,040	1,890	1,760	1,390	1,340	2,840	2,040	2,500
17	6,200	2,340	2,190	2,190	2,040	1,890	1,630	1,390	2,190	2,500	2,190	2,040
18	4,760	2,340	2,190	2,190	2,040	1,890	1,630	1,390	2,670	2,040	2,040	1,760
19	3,830	2,340	2,190	2,190	2,040	1,890	1,630	1,510	2,340	1,510	2,040	2,670
20	7,480	2,340	2,190	2,190	2,040	1,890	1,630	1,510	1,890	1,510	2,340	2,340
21	8,360	2,190	2,190	2,190	2,040	1,890	1,510	1,510	3,030	1,450	2,500	3,210
22	8,600	2,190	2,190	2,190	2,040	1,890	1,510	1,510	7,880	1,450	2,340	3,210
23	7,640	2,190	2,190	2,190	2,040	1,890	1,510	1,510	3,900	1,630	2,670	3,020
24	7,160	2,190	2,190	2,190	2,040	1,890	1,510	1,510	1,890	1,510	2,340	3,410
25	6,440	2,040	2,190	2,190	2,040	1,890	1,510	1,510	1,760	1,510	2,500	4,520
26	5,480	2,190	2,190	2,190	2,040	1,890	1,510	1,510	1,630	1,890	2,500	5,960
27	5,000	2,190	2,190	2,040	2,040	1,890	1,510	1,510	2,190	1,510	2,500	8,840
28	4,760	2,190	2,190	2,040	2,040	1,890	1,510	1,510	2,190	1,450	5,480	6,200
29	3,830	2,040	2,190	2,040	------	1,890	1,510	1,510	1,630	2,500	4,760	5,720
30	3,210	2,040	2,190	2,040	------	1,890	1,510	1,510	1,450	2,040	4,280	4,280
31	3,020	------	2,190	2,040	------	1,890	------	1,450	------	2,670	3,410	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	16,700	2,670	5,510	339,000
November	3,210	2,040	2,460	147,000
December	2,500	2,040	2,190	134,000
January	2,190	2,040	2,110	130,000
February	2,500	2,040	2,060	115,000
March	2,040	1,890	1,920	118,000
April	2,460	1,510	1,770	105,000
May	4,550	1,390	1,640	101,000
June	7,880	1,340	2,120	126,000
July	11,000	1,450	2,410	148,000
August	5,480	1,510	2,450	151,000
September	8,840	1,760	3,290	196,000
The year	16,700	1,340	2,500	1,810,000

RIO GRANDE NEAR DEL RIO, TEX.

LOCATION.—Staff gage at international highway bridge between Del Rio, Val Verde County, and Villa Acuna, Coahuila, Mexico.

RECORDS AVAILABLE.—December, 1923, to September, 1927. May, 1900, to April, 1915, records obtained 11 miles upstream; and December, 1919, to March, 1920, at McKees Switch 7½ miles upstream. Relation between gages not known. Several springs but no tributaries of consequence enter the river between the various sites.

EXTREMES.—Maximum discharge during year, 25,900 second-feet September 28 (gage height, 7.90 feet); minimum, 2,060 second-feet June 1 and July 17 (gage height, 2.26 feet).

1900–1915, 1919–20, 1923–1927: Maximum discharge not determined; maximum stages, 36.5 feet on gage 11 miles upstream April 6, 1900, and 41.0 feet on gage 7½ miles upstream September, 1919 (relation to present gage not known). Minimum mean daily discharge, 1,120 second-feet May 12, 1904 (gage height, 3.25 feet).

Highest stage on record from floodmark, 32.8 feet (present gage datum) June 18 or 19, 1922.

REMARKS.—Records good. Discharge estimated March 20 to April 9. Considerable water diverted above station; amount not known. Flow partly regulated by storage at Elephant Butte Dam and at dams on tributaries.

Daily discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7,760	5,480	3,380	3,380	3,140	3,140		2,500	2,060	2,310	2,910	5,140
2	7,760	5,140	3,380	3,380	3,140	2,910		2,400	2,140	2,700	2,910	4,820
3	6,950	4,500	3,380	3,380	3,140	2,910	2,600	2,400	2,220	11,100	3,140	4,210
4	7,760	4,500	3,380	3,380	3,140	2,910		2,310	2,310	3,140	2,700	3,650
5	6,190	3,920	3,380	3,380	3,140	2,910		2,310	2,500	2,400	2,700	3,650
6	5,480	3,920	5,140	3,380	5,240	2,910		2,310	2,500	2,310	2,700	3,380
7	6,190	3,920	4,820	3,380	3,380	2,910		2,400	2,310	2,310	2,700	3,380
8	5,480	3,920	3,920	3,380	3,140	2,910	4,890	2,310	2,400	2,220	3,140	2,910
9	4,820	3,920	3,650	3,380	4,210	2,910		2,220	2,310	2,310	3,140	2,910
10	4,820	3,920	3,650	3,140	3,920	2,910	2,600	2,220	2,310	2,310	3,140	2,700
11	4,500	3,920	3,650	3,140	3,380	2,910	2,500	2,140	2,140	2,310	2,910	2,700
12	4,820	3,650	3,650	3,380	3,380	2,700	2,500	2,140	2,220	2,310	2,910	2,600
13	4,500	3,650	3,380	3,380	3,140	2,700	2,500	2,590	2,630	2,220	2,700	2,500
14	8,610	3,920	3,380	3,380	3,140	2,700	2,500	3,460	12,300	3,140	2,700	2,400
15	16,800	3,650	3,380	3,380	3,140	2,600	2,500	2,310	3,620	2,500	2,500	2,600
16	15,300	3,650	3,380	3,380	3,140	2,700	2,400	2,310	2,500	3,140	2,700	2,600
17	9,960	3,650	3,380	3,380	3,140	2,700	2,500	2,220	2,310	2,310	2,700	2,400
18	6,190	3,650	3,380	3,380	3,140	2,700	2,500	2,220	2,910	2,500	3,140	2,500
19	5,480	3,650	3,380	3,140	3,140	2,600	2,500	2,220	3,380	2,500	3,380	2,700
20	5,140	3,650	3,380	3,140	3,380		2,400	2,220	2,910	2,310	3,140	3,380
21	8,610	3,380	3,380	3,140	3,140		2,400	2,310	2,850	2,220	3,140	5,480
22	9,960	3,380	3,380	3,140	3,140		2,500	2,310	3,600	2,140	3,140	4,820
23	9,960	3,380	3,380	3,140	3,140		2,400	2,220	4,070	2,140	3,140	4,500
24	9,050	3,380	3,380	3,140	3,140		2,310	2,220	2,600	2,220	3,380	4,500
25	8,180	3,650	3,380	3,140	3,140	2,600	2,310	2,140	2,910	2,400	3,140	4,210
26	7,350	3,380	3,650	3,140	3,140		2,310	2,310	2,700	2,910	3,380	5,480
27	6,560	3,380	3,650	3,140	3,140		2,220	2,140	2,700	2,600	3,650	9,500
28	6,190	3,380	3,380	3,140	3,140		2,220	2,140	2,500	3,650	4,210	14,200
29	5,830	3,380	3,380	3,140	-------		2,500	2,140	2,400	2,700	6,190	13,100
30	5,140	3,380	3,380	3,140	-------		2,500	2,140	2,310	3,650	6,190	7,760
31	5,140	-------	3,380	3,140	-------		-------	2,140	-------	2,910	5,830	-------

Monthly discharge of Rio Grande near Del Rio, Tex., 1926–27

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	16,800	4,500	7,310	449,000
November	5,480	3,380	3,810	227,000
December	5,140	3,380	3,550	218,000
January	3,380	3,140	3,260	201,000
February	5,240	3,140	3,320	184,000
March			2,740	168,000
April			2,790	166,000
May	3,460	2,140	2,300	142,000
June	12,300	2,060	2,950	176,000
July	11,100	2,140	2,840	174,000
August	6,190	2,500	3,330	205,000
September	14,200	2,400	4,560	271,000
The year	16,800		3,570	2,580,000

RIO GRANDE AT EAGLE PASS, TEX.

LOCATION.—Staff gage in Eagle Pass, Maverick County 1 mile above Southern Pacific Railroad bridge. In April, 1927, gage was moved 1,320 feet upstream. Zero of lower gage was 682.83 feet above mean sea level and that of upper gage is 683.99 feet.

RECORDS AVAILABLE.—May, 1900, to April, 1916, and November, 1923, to September, 1927.

EXTREMES.—Maximum and minimum discharge for year not determined.

1900–1916, 1923–1927: Maximum mean daily discharge, 238,000 second-feet June 30, 1905; maximum stage, 34.6 feet June 29, 1905; minimum mean daily discharge, 1,030 second-feet April 15, 1913.

In June, 1922, river reached stage of 43.7 feet (present gage datum).

REMARKS.—Records poor. Considerable water diverted above gage; amount not known. Flow partly regulated by storage at Elephant Butte Dam and at dams on tributaries. Gage-height record furnished by United States Weather Bureau.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							2,630	2,630	1,970	2,630	3,030	5,580
2							2,630	2,630	1,970	2,630	3,030	4,990
3							2,630	2,630	1,970	3,580	3,030	4,710
4							2,450	2,450	1,970	6,020	3,240	4,710
5							2,450	2,450	2,130	3,240	2,820	3,930
6							2,450	2,450	3,500	3,030	2,820	3,460
7							2,290	2,450	2,630	2,820	2,820	3,240
8							4,260	2,450	2,130	2,820	2,630	3,240
9							5,660	2,450	2,130	2,820	3,030	3,240
10							3,030	2,450	2,130	2,630	3,030	3,240
11							3,030	2,290	2,130	2,630	3,030	3,930
12							4,150	2,290	2,280	2,630	3,030	2,820
13							3,240	2,290	3,040	2,630	2,820	2,820
14							3,240	2,290	7,430	2,630	2,630	2,820
15							3,030	2,290	7,230	5,010	2,630	2,630
16	[a]7,590	[a]4,190	[a]3,800	[a]3,420	[a]3,500	[a]2,790	2,820	2,290	3,030	4,320	2,630	2,630
17							2,630	2,290	2,820	3,460	2,630	2,820
18							2,630	2,290	2,630	2,820	3,030	2,630
19							2,630	2,290	3,240	2,820	3,930	2,630
20							2,630	2,290	3,930	2,820	3,240	2,820
21							2,630	2,290	3,240	2,820	3,030	3,690
22							2,630	2,290	3,030	2,820	3,030	4,990
23							2,630	2,290	3,930	2,290	3,240	5,280
24							2,630	2,290	3,690	2,290	3,030	4,440
25							2,450	2,290	3,030	2,290	3,030	4,180
26							2,450	2,290	3,030	3,030	3,030	4,990
27							2,450	2,290	3,030	3,030	3,030	5,580
28							2,450	2,130	3,030	3,030	3,460	9,390
29							2,450	2,130	2,820	3,930	3,930	16,700
30							2,630	2,130	2,630	2,820	6,210	9,900
31								2,130		3,930	5,890	

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			7,590	467,000
November			4,190	249,000
December			3,800	234,000
January			3,420	210,000
February			3,500	194,000
March			2,790	172,000
April	5,660	2,290	2,860	170,000
May	2,630	2,130	2,340	144,000
June	7,430	1,970	3,060	182,000
July	6,020	2,290	3,110	191,000
August	6,210	2,630	3,230	198,000
September	16,700	2,630	4,570	272,000
The year			3,710	2,680,000

[a] Estimated.

PECOS RIVER NEAR ANGELES, TEX.

LOCATION.—Water-stage recorder in T. 26 S., R. 29 E., just below Pecos Valley Railroad bridge and mouth of Delaware Creek, 8½ miles northwest of Angeles, Reeves County.

RECORDS AVAILABLE.—May, 1914, to September, 1927.

EXTREMES.—Maximum discharge during year, 1,210 second-feet October 5 (gage height, 1.69 feet); minimum, 50 second-feet August 6 (gage height, −0.28 foot).

1914–1927: Maximum discharge not determined; maximum stage from floodmarks, 21.5 feet August 8, 1916; minimum discharge, 45 second-feet July 4 and 5, 1925.

REMARKS.—Records fair. Large part of natural flow above Carlsbad, N. Mex., diverted for irrigation; considerable water is returned by seepage. Flow is regulated to large extent by storage in reservoirs of the Carlsbad project.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	416	410	376	410	399	183	101	141	81	113	93	108
2	500	410	354	405	399	158	103	161	93	123	70	106
3	569	405	327	399	365	175	88	114	93	114	61	123
4	606	410	332	416	416	132	103	123	76	111	61	135
5	1,110	410	322	405	405	144	106	123	95	98	70	141
6	416	410	354	399	399	191	101	95	85	98	61	168
7	359	405	393	399	388	262	90	111	101	90	63	148
8	435	393	286	405	399	272	95	106	76	93	59	161
9	520	399	282	399	382	272	85	114	88	93	59	151
10	480	393	236	388	393	277	85	138	76	88	59	148
11	382	399	416	405	388	277	106	101	88	90	65	179
12	393	405	393	399	393	282	101	117	78	103	78	172
13	348	410	365	405	393	267	108	101	93	88	72	144
14	442	405	365	393	399	277	120	117	93	123	74	148
15	547	399	354	393	399	282	117	120	108	95	83	161
16	493	405	359	388	393	286	126	103	191	88	88	148
17	382	448	370	388	317	267	129	111	165	88	88	151
18	354	442	365	405	223	262	123	114	123	78	95	128
19	422	448	365	399	194	214	117	93	141	74	135	158
20	416	442	370	382	191	183	135	141	138	74	120	161
21	405	435	399	393	187	158	111	123	141	74	95	141
22	422	282	376	393	198	158	138	148	108	74	120	161
23	405	365	382	393	198	138	151	123	138	70	117	168
24	416	487	399	388	198	135	132	141	123	72	148	168
25	399	487	399	388	194	129	191	123	111	106	135	187
26	399	454	382	388	172	129	168	141	126	108	120	158
27	393	461	405	388	165	132	138	117	98	106	114	179
28	399	338	405	393	165	123	123	126	103	126	101	179
29	399	388	393	410	------	126	120	106	106	155	120	183
30	399	393	399	410	------	111	120	85	101	198	132	187
31	416	------	416	382	------	88	------	101	------	114	120	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,110	348	453	27,900
November	487	282	411	24,500
December	416	236	366	22,500
January	416	382	397	24,400
February	416	165	311	17,300
March	286	88	196	12,100
April	191	85	118	7,000
May	161	85	119	7,300
June	191	76	108	6,420
July	198	70	101	6,200
August	148	59	92.8	5,700
September	187	106	155	9,210
The year	1,110	59	235	171,000

PECOS RIVER NEAR COMSTOCK, TEX.

LOCATION.—Staff gage at Pecos high bridge of Galveston, Harrisburg & San Antonio Railway, 12 miles northwest of Comstock, Val Verde County, 5½ miles above confluence with Rio Grande, and below all tributaries.

RECORDS AVAILABLE.—May, 1900, to September, 1927.

EXTREMES.—Maximum discharge during year, 14,600 second-feet June 13 (gage height, 10.60 feet); minimum, about 113 second-feet August 29 to September 8 and September 10 and 11 (gage height, −0.10 foot).

1900–1927: Maximum discharge not determined; maximum stage, 35.75 feet April 6, 1900; minimum discharge, 106 second-feet July 29 to August 1, 1918.

REMARKS.—Records good. Considerable water diverted and stored above station for irrigation. In lower part of basin return waters tend to equalize effects of diversions. Flow at station partly controlled by storage and diversions upstream.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	235	493	518	570	544	317	245	196	141	141	173	
2	228	468	570	544	518	298	228	190	136	141	154	
3	235	444	518	544	544	280	228	190	141	231	151	
4	231	421	518	544	544	280	228	199	149	182	151	
5	345	444	518	544	544	262	218	193	141	167	146	[a] 113
6	493	444	518	544	544	262	231	184	141	170	141	
7	493	444	493	570	570	262	2,520	176	141	151	146	
8	493	468	493	570	570	280	469	176	139	151	139	
9	680	468	493	570	544	298	336	182	139	146	134	146
10	740	468	468	570	544	317	298	184	136	149	144	[a] 113
11	680	444	468	598	518	280	255	182	136	141	136	
12	770	444	444	570	518	262	238	182	173	136	131	131
13	710	444	444	544	518	255	412	202	2,740	144	131	131
14	625	444	421	544	518	248	262	187	1,070	698	131	129
15	2,580	444	421	544	493	242	215	202	154	392	131	127
16	710	444	421	544	518	245	218	196	149	193	131	136
17	598	444	399	544	493	248	218	196	149	164	131	245
18	598	444	399	518	493	238	215	182	154	149	136	199
19	598	493	444	518	493	235	206	179	182	215	134	444
20	570	493	444	544	493	235	206	170	179	146	268	1,030
21	680	493	468	544	468	225	206	162	173	141	336	988
22	740	493	444	544	444	218	199	157	259	139	231	493
23	652	493	468	544	444	218	215	159	173	146	190	336
24	598	518	468	544	377	218	212	157	179	149	173	298
25	544	518	518	544	336	218	212	154	157	332	159	259
26	518	518	518	544	356	225	209	157	154	382	149	453
27	518	544	518	544	356	228	206	154	149	374	141	489
28	518	544	518	544	356	228	199	154	144	228	139	1,420
29	493	570	518	544	-------	225	206	141	136	218	[a] 113	669
30	493	518	518	544	-------	228	196	141	136	235		444
31	493	-------	518	544	-------	255	-------	139	-------	202		-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	2,580	228	608	37,400
November	570	421	477	28,400
December	570	399	480	29,500
January	598	518	549	33,800
February	570	336	488	27,100
March	317	218	253	15,500
April	2,520	196	317	18,900
May	202	139	175	10,800
June	2,740	136	272	16,200
July	698	136	211	13,000
August	336	113	155	9,510
September	1,420	113	323	19,200
The year	2,740	113	358	259,000

[a] Estimated.

LIMPIA CREEK NEAR FORT DAVIS, TEX.

LOCATION.—Water-stage recorder at State highway No. 3 crossing 13½ miles northeast of Fort Davis, Jeff Davis County.
DRAINAGE AREA.—272 square miles.
RECORDS AVAILABLE.—February, 1925, to September, 1927.
EXTREMES.—Maximum discharge during year, 685 second-feet September 18 (gage height, 3.54 feet); no flow during several periods.
1925–1927: Maximum discharge, about 2,250 second-feet August 11, 1925. (gage height, 5.95 feet); no flow during several periods.
REMARKS.—Records good except for estimated periods for which they are fair. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0.4	0.5	0	0	0	0	0	0
2					.4	.6	.1	0	0	0	0	0
3					.4	.5	.1	0	0	0	0	0
4					.4	.4	.2	0	0	0	0	0
5					.5	.4	.2	0	0	0	0	0
6					.5	.4	.4	0	0	0	0	0
7					.5	.4	.3	0	0	0	0	0
8					.5	.4	.3	0	0	0	0	0
9					.6	.4	.4	0	0	0	0	0
10					.6	.4	.4	0	0	0	0	0
11				[a]0.5	.6	.3	.4	0	0	0	0	.1
12					.6	.3	.4	0	0	0	0	0
13					.6	.2	.4	0	0	0	0	0
14					.6	.2	.3	0	0	0	0	3.1
15					.6	.1	.1	0	0	0	0	0
16	[a]0.5	[a]0.5	[a]0.5		.6	0	.1	0	0	0	0	0
17					.6	0	.1	0	0	0	0	0
18					.6	0	0	0	0	0	0	53
19					.6	0	0	0	0	0	0	.2
20					.6	0	0	0	0	0	0	29
21					.6	0	0	0	0	0	0	5.5
22					.6	0	0	0	0	0	0	0
23				.4	.6	0	0	0	0	0	0	.6
24				.4	.6	0	0	0	0	0	0	6.0
25				.4	.6	0	0	0	0	.2	0	.1
26				.4	.6	0	0	0	0	0	0	0
27				.4	.6	0	0	0	0	9.6	0	0
28				.4	.6	0	0	0	0	96	0	0
29				.4	------	0	0	0	3.3	37	0	0
30				.4	------	0	0	0	0	2.8	0	0
31				.4	------	0		0	------	0	0	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October			0.5	31
November			.5	30
December			.5	31
January			.47	29
February	0.6	0.4	.56	31
March	.6	0	.18	11
April	.4	0	.14	8.3
June	3.3	0	.11	6.5
July	96	0	4.70	289
September	53	0	3.25	194
The period	96	0	.91	661

[a] Estimated.

DEVILS RIVER NEAR JUNO, TEX.

LOCATION.—Water-stage recorder 500 feet below Walter Baker ranch house, 2 miles above mouth of Phillips Creek, and 13½ miles southwest of Juno, Val Verde County.

DRAINAGE AREA.—2,730 square miles.

RECORDS AVAILABLE.—May, 1925, to September, 1927.

EXTREMES.—Maximum discharge during year, 27,000 second-feet September 28 (gage height, 13.30 feet); minimum, 64 second-feet August 9-11 (gage height, 2.02 feet).

1925–1927: Maximum discharge by slope-area method, 43,700 second-feet May 29, 1925 (gage height, 15.8 feet); minimum discharge, that of August 9–11, 1927.

One of the highest known floods, 22.1 feet (on present gage) occurred about September 1, 1916; data furnished by Walter Baker.

REMARKS.—Records good. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	90	80	90	90	88	94	90	82	75	66	70
2	75	88	80	88	90	88	94	88	81	75	66	70
3	75	88	80	88	90	88	94	88	81	74	66	70
4	76	88	80	88	90	88	94	88	81	74	66	70
5	75	87	82	88	90	88	96	87	81	74	66	70
6	75	87	132	88	90	88	96	87	81	74	66	70
7	74	87	128	87	90	90	1,040	87	81	74	66	70
8	74	87	124	88	88	94	175	86	81	72	66	69
9	74	87	116	88	88	92	135	87	81	72	64	69
10	74	87	112	88	88	90	124	86	81	74	64	70
11	74	87	108	88	88	90	116	86	81	72	64	70
12	74	87	108	88	88	90	112	88	81	72	66	70
13	74	86	106	88	88	90	126	92	86	72	66	70
14	78	84	104	88	88	90	108	88	86	81	66	70
15	266	84	102	88	88	90	106	87	82	75	66	70
16	171	86	100	88	88	90	102	87	81	74	66	70
17	263	86	98	88	87	90	102	86	81	72	68	72
18	114	86	96	88	87	90	104	84	80	70	69	72
19	106	86	96	88	87	90	104	84	80	70	69	72
20	104	86	96	88	87	90	104	82	80	69	68	72
21	102	86	94	88	87	92	102	82	80	69	69	70
22	102	84	92	88	87	92	100	82	81	69	70	70
23	100	84	92	90	87	92	98	82	78	69	70	70
24	98	84	92	90	87	92	98	82	78	72	69	70
25	96	82	92	90	87	92	98	82	78	72	69	70
26	94	82	92	90	87	92	96	82	78	70	69	70
27	92	81	92	90	87	92	94	82	76	70	69	1,540
28	92	80	92	90	87	92	94	82	75	68	69	10,500
29	90	80	90	90	-------	94	94	82	75	68	69	922
30	90	80	90	90	-------	94	92	81	75	68	70	252
31	90	-------	90	90	-------	94	-------	82	-------	68	70	------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	266	74	101	6,180
November	90	80	85.2	5,070
December	132	80	97.9	6,020
January	90	87	88.6	5,450
February	90	87	88.1	4,890
March	94	88	90.7	5,580
April	1,040	92	136	8,120
May	92	81	85.1	5,230
June	86	75	80.1	4,770
July	81	68	71.9	4,420
August	70	64	67.3	4,140
September	10,500	69	501	29,800
The year	10,500	64	124	89,700

DEVILS RIVER NEAR DEL RIO, TEX.

LOCATION.—Water-stage recorder 2,200 feet above Southern Pacific Railroad bridge and Sells Creek and 12 miles northwest of Del Rio, Val Verde County.

DRAINAGE AREA.—4,000 square miles.

RECORDS AVAILABLE.—December, 1923, to September, 1927. May, 1900, to March, 1914, records were obtained 1 mile downstream at station known as Devils River at Devils River.

EXTREMES.—Maximum discharge during year, 30,200 second-feet September 28 (gage height, 10.68 feet); minimum, 302 second-feet September 27.

1900–1914, 1924–1927: Maximum discharge not determined; maximum stage, 24.96 feet May 29, 1925; minimum mean daily discharge, 245 second-feet June 8, 1912 (gage height, 2.0 feet).

On April 6, 1900, a stage of 25.4 feet was reached by datum of gage established on May 1, 1900. A stage of 30.15 feet, present gage datum, was reached in October, 1914, by levels to floodmarks.

REMARKS.—Records good. No diversions above station.

Daily and monthly discharge, in second-feet, 1926–27

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	366	562	372	431	396	396	366	417	372	384	341	313
2	366	504	372	424	396	390	366	417	372	390	341	308
3	366	431	378	424	396	384	366	417	372	410	335	313
4	366	424	378	424	403	384	366	424	372	390	330	313
5	366	417	390	424	403	390	366	424	431	384	335	308
6	366	410	1,810	424	869	396	366	417	424	378	335	313
7	366	403	1,340	417	481	396	431	410	390	378	335	318
8	359	403	716	410	438	410	6,270	410	390	378	330	313
9	366	403	581	410	601	390	949	403	384	378	324	330
10	372	396	534	410	604	384	604	403	384	372	324	335
11	366	396	519	410	496	384	550	403	384	366	330	330
12	366	390	512	403	466	384	512	403	384	359	330	324
13	366	396	512	410	459	378	612	445	689	359	330	318
14	476	396	512	410	445	378	565	431	1,840	512	324	318
15	460	390	504	410	424	378	496	410	596	410	324	318
16	1,020	396	496	403	417	378	474	403	489	378	324	318
17	558	396	489	403	410	384	466	396	452	372	324	324
18	558	390	481	403	403	384	466	396	438	366	335	330
19	481	390	474	403	396	384	466	396	431	366	341	324
20	445	390	474	403	403	378	474	390	417	372	330	324
21	431	396	474	403	396	372	459	384	410	359	324	324
22	424	390	452	410	396	366	445	390	417	359	324	324
23	424	390	438	403	396	372	438	390	417	359	324	318
24	417	390	438	403	396	372	438	390	410	366	318	330
25	410	384	445	403	396	366	438	396	396	366	318	324
26	410	384	445	403	390	372	431	390	390	378	318	318
27	403	372	445	403	390	372	431	390	390	396	313	472
28	403	372	438	396	403	372	431	384	384	359	313	10,200
29	396	372	431	396	-------	372	431	384	378	353	313	4,070
30	403	372	424	396	-------	372	417	378	384	347	313	1,270
31	410	-------	424	396	-------	372	-------	372	-------	347	313	-------

Month	Discharge in second-feet			Run-off in acre-feet
	Maximum	Minimum	Mean	
October	1,020	359	429	26,400
November	562	372	403	24,000
December	1,810	372	539	33,100
January	431	396	409	25,100
February	869	390	445	24,700
March	410	366	381	23,400
April	6,270	366	663	39,500
May	445	372	402	24,700
June	1,840	372	466	27,700
July	512	347	377	23,200
August	341	313	326	20,100
September	10,200	308	811	48,300
The year	10,200	308	470	340,000

MISCELLANEOUS DISCHARGE MEASUREMENTS

In addition to the records of flow obtained at the gaging stations and reported in the preceding pages, measurements were made at other points as shown by the following table:

Miscellaneous discharge measurements in western Gulf of Mexico basins during the year ending September 30, 1927

Date	Stream	Tributary to—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Nov. 6	Trinity River	Gulf of Mexico	At Texas Midland Railroad bridge near Rosser, Tex.	3.32	705
Aug. 19	Elm Fork of Trinity River.	Trinity River	300 feet above Record crossing highway bridge, Texas.	2.64	[a].01
Oct. 15	Salt Fork of Brazos River.	Brazos River	Aspermont-Gutherie highway bridge near Aspermont, Tex.	9.08	[b] 6,540
10	Brushy Creek	San Gabriel River	Half a mile north of Coupland, Tex., at former gaging station.	3.58	1.72
Feb. 9	do	do	do	13.20	590
10	do	do	do	11.36	406
11	do	do	do	9.34	230
15	do	do	do	6.86	96.6
23	do	do	do	5.97	52.2
Apr. 26	do	do	do	6.71	82.7
Oct. 5	Brady Creek	San Saba River	Upper city dam at Brady, Tex.		0
Nov. 10	do	do	do		0
Jan. 10	do	do	do		0
Apr. 2	do	do	do		[a].3
Nov. 5	Barton Springs	Barton Creek	Austin, Tex		[c] 35.6
Dec. 17	do	do	do		[c] 34.0
Jan. 29	do	do	do		[c] 33.6
Mar. 19	do	do	do		[c] 49.9
May 10	do	do	do		[c] 44.0
July 6	do	do	do		[c] 36.0
Aug. 18	do	do	do		[c] 24.4
Oct. 2	Comal Springs	Guadalupe River	In Landa Park above Comal power plant, New Braunfels, Tex.		[d] 329
27	do	do	do		[d] 335
Jan. 22	do	do	do		[d] 313
Mar. 24	do	do	do		[d] 298
May 7	do	do	do		[d] 313
June 10	do	do	do		[d] 309
20	do	do	do		[d] 304
July 16	do	do	do		[d] 325
26	do	do	do		[d] 308
Aug. 18	do	do	do		[d] 328
24	do	do	do		[d] 313
24	do	do	do		[d] 329
24	do	do	do		[d] 327
Sept. 20	do	do	do		[d] 307
June 20	Comal River	do	In Landa Park, 50 feet below Comal power plant intake, New Braunfels, Tex.		[e] 231
July 15	do	do	do		[e] 247
15	do	do	do		[e] 214
27	do	do	do		[e] 199
27	do	do	do		[e] 210
Aug. 18	do	do	do		[e] 174
24	do	do	do		[e] 232
24	do	do	do		[e] 223
24	do	do	do		[e] 237
Sept. 20	do	do	do		[e] 217
June 21	do	do	San Antonio Street Bridge, New Braunfels, Tex.		[f] 334
July 26	do	do	Camp Warnecke, New Braunfels, Tex.		318

[a] Estimated.
[b] Slope measurement.
[c] Measured in channel of Barton Creek, below springs. There was no flow in creek above springs.
[d] Total flow of springs.
[e] Total flow of springs minus flow through Comal power plant and swimming pool above. Practically all water diverted above is returned to river just below measuring section. Measurements poor.
[f] Poor measurement.

Miscellaneous discharge measurements in western Gulf of Mexico basins during the year ending September 30, 1927—Continued

Date	Stream	Tributary to—	Locality	Gage height	Discharge
				Feet	*Sec.-ft.*
Oct. 1	San Marcos River	Guadalupe River	Austin-San Antonio highway crossing at San Marcos, Tex.		149
27	do	do	do		142
Jan. 5	do	do	do		130
Mar. 24	do	do	do		148
May 7	do	do	do		142
June 10	do	do	do		111
Aug. 22	do	do	do		106
Sept. 16	do	do	do		120
Nov. 15	Blanco River	San Marcos River	2,000 feet above San Marcos-Wimberley highway crossing near Wimberley, Tex.		21.1
Jan. 6	do	do	do		27.7
10	Medina River	San Antonio River	440 feet below No. 1 diversion dam Bexar-Medina-Atascosa Counties water improvement districts near San Antonio, Tex.		16.5
Nov. 16	do	do	At San Antonio-Somerset highway crossing near San Antonio, Tex.		17.0
16	do	do	At San Antonio-Pleasanton highway crossing near San Antonio, Tex.		15.8
17	do	do	Below confluence with Mitchell Lake outlet and 2½ miles below San Antonio-Pleasanton highway crossing, Texas.		17.0
16	Leon Creek	Medina River	At San Antonio-Somerset highway crossing near San Antonio, Tex.		.90
Sept. 29	Nueces River	Gulf of Mexico	At Tom Nunn Hill, near Uvalde, Tex.		0
30	do	do	do		0
17	Bennetts artesian well.	Frio River	About 3 miles south of Derby, Tex.		2.06
17	do	do	do		2.02
Oct. 27	Goodenough Springs	Rio Grande	Near Comstock, Tex.		154
Jan. 20	do	do	do		152
Sept. 9	do	do	do		122
Oct. 5	Las Vacas River	do	Near Villa Acuna, Coahuila, Mexico.		[a] 3.0
13	do	do	do		[a] 3.0
26	do	do	do		[a] 9.0
Nov. 2	do	do	do		57.6
9	do	do	do		[a] 16.0
16	do	do	do		[a] 9.0
22	do	do	do		[a] 10.0
Dec. 1	do	do	do		[a] 9.0
16	do	do	do		[a] 9.0
22	do	do	do		[a] 10.0
27	do	do	do		[a] 9.0
Jan. 4	do	do	do		[a] 10.0
13	do	do	do		[a] 8.0
18	do	do	do		[a] 7.0
25	do	do	do		[a] 9.0
Feb. 2	do	do	do		[a] 10.0
22	do	do	do		[a] 10.0
Apr. 22	do	do	do		[a] 6.0
May 17	do	do	do		[a] 5.0
June 14	do	do	do		[a] 20.0
July 3	do	do	do		[a] 5.0
19	do	do	do		[a] 5.0
Aug. 4	do	do	do		[a] 5.0
30	do	do	do		[a] 4.0
Sept. 15	do	do	do		[a] 3.5
27	do	do	do		[a] 4.0
Nov. 24	San Felipe Springs	do	Near Del Rio, Tex.		[d] 97.2
Sept. 6	do	do	do		[d] 63.9

[a] Estimated. [d] Total flow of springs.

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