UNITED STATES DEPARTMENT OF THE INTERIOR
HAROLD L. ICKES, Secretary

GEOLOGICAL SURVEY
W. C. MENDENHALL, Director

Water-Supply Paper 788

SURFACE WATER SUPPLY *of the* UNITED STATES

1935

PART 8

WESTERN GULF OF MEXICO BASINS

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Prepared in cooperation with the
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AND TEXAS

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ILLUSTRATION

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, 1935. The work was begun in 1888 in connection with special studies relating to irrigation. In the execution of the work, measurements of stream flow have been made at about 7,020 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July 1935, 3,020 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points.

DEFINITION OF TERMS

The units in which stream-flow data are presented in this report and other terms used herein are 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 when the cross-sectional area is 1 square foot and the average velocity is 1 foot per second.

"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 1 foot. The term is commonly used in connection with storage for irrigation.

"Second-foot-day" is the volume of water represented by a flow of 1 second-foot for 24 hours.

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

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

EXPLANATION OF DATA

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 nonrecording 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 methods outlined in standard textbooks on the measurement of river

discharge. Typical gaging stations, equipped with water-stage recorder and measuring cable and car, are shown on plate 1.

Rating tables giving the discharge for any stage are prepared from the discharge measurements. The application of the daily gage height to these rating tables gives the daily 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 usually 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. Skeleton rating tables are published except for those stations whose daily discharge for the greater part of the year was determined by shifting-control method or by use of slope or other special methods.

The description of the station gives information in regard to the location and type of gage, diversions that decrease the flow at the gage, artificial regulation from pondage or storage, and the accuracy of the records. Under "Average discharge" is given the average discharge for the number of years indicated. It is given only for stations for which there are 10 or more complete years of record. Information under "Extremes" gives the maximum discharge and gage height; the minimum discharge if there is little or no regulation; the minimum daily discharge if there is extensive regulation, and also the minimum discharge if useful; and the minimum gage height except when it is of no importance. Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder or a nonrecording gage read at the time of the crest. Likewise the minimum represents the lowest discharge unless otherwise qualified.

The table of daily discharge gives, for stations equipped with nonrecording gages, the discharge in second-feet corresponding to once-daily or the mean of twice-daily readings of the gage. At nonrecording-gage stations in Texas the mean daily discharge during flashy floods is determined from gage-height graphs based on gage readings made once daily or oftener. For stations equipped with water-stage recorders the table gives the discharge corresponding to the mean daily gage height except for stations on streams subject to sudden or rapid fluctuation. For stations subject to such fluctuation the mean daily gage height may not indicate the true mean daily discharge, which must be obtained by averaging the discharge for intervals of the day or by using the discharge integrator, an instrument for obtaining the mean daily discharge from a continuous gage-height graph and containing as an essential element the rating curve of the station.

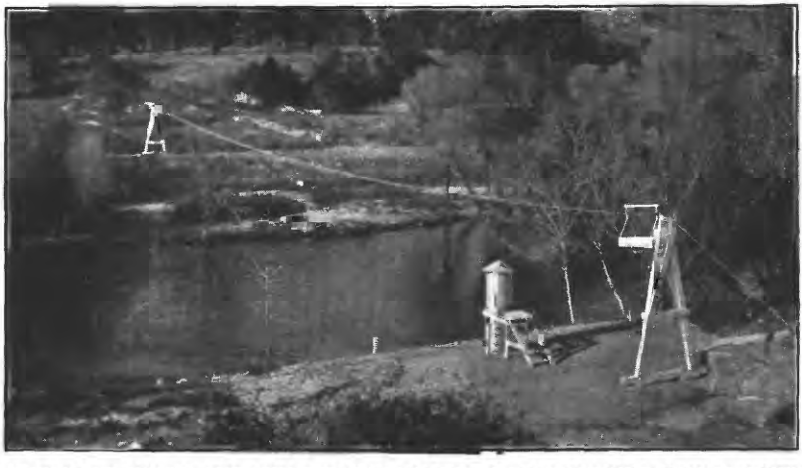
In the table of monthly discharge the column headed "Second-foot-days" gives the sum for each month of the discharge given in the table of daily discharge. The column headed "Maximum" gives the maximum daily discharge and not the discharge when the water surface was at crest height. Likewise, in the 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.

ACCURACY OF FIELD DATA AND COMPUTED RESULTS

The accuracy of stream-flow data depends primarily (1) on the permanency 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, in general, the daily records are accurate within 5 percent; "good", within 10 percent; "fair", within 15 percent; and "poor", within 20 percent or more.

A. ARTIFICIAL CONTROL, RECORDER HOUSE, AND MEASURING CABLE ON OLENTANGY RIVER, DELAWARE, OHIO.



B. RECORDER HOUSE AND MEASURING CABLE ON KAWEAH RIVER, THREE RIVERS, CALIF.

TYPICAL RIVER-MEASUREMENT STATIONS.

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 depth 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.

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 station must first be satisfied.

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, and that greater degrees of refinement in computations and records may be warranted with increased data and use of improved equipment.

In order to permit greater refinement in analysis and comparison of records for adjacent stations, the following changes in computation procedure were followed in preparing some of the records published in the series of reports for 1934 and all the records for 1935: (a) Mean monthly discharge above 1,000 second-feet and monthly run-off above 10,000 acre-feet are expressed to four significant figures instead of three significant figures, as formerly; (b) monthly run-off in acre-feet is computed from the total second-foot-days for the month and not from the mean discharge for the month; (c) drainage areas above 1,000 square miles, if measured on topographic maps, or if otherwise warranted, are expressed to four significant figures instead of three as formerly.

PUBLICATIONS

The results of stream-flow measurements are now published annually in 14 parts (parts 12, 13, and 14 were formerly 12-A, 12-B, and 12-C), each part covering an area whose boundaries coincide with natural drainage features as indicated below:

Part 1. North Atlantic slope basins (St. John River to York River).
2. South Atlantic slope and eastern Gulf of Mexico basins (James River to Mississippi River).
3. Ohio River Basin.
4. St. Lawrence River Basin.
5. Hudson Bay and upper Mississippi River Basins.
6. Missouri River Basin.
7. Lower Mississippi River Basin.
8. Western Gulf of Mexico basins.
9. Colorado River Basin.
10. The Great Basin.
11. Pacific slope basins in California.
12. Pacific slope basins in Washington and upper Columbia River Basin.
13. Snake River Basin.
14. 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, Maine, Statehouse.
Boston, Mass., 945 Post Office Building.
Hartford, Conn., 203 Federal Building.
Albany, N. Y., 526 Federal Building.
Trenton, N. J., 228 Federal Building.
Harrisburg, Pa., 490 Education Building.
Charlottesville, Va., University of Virginia.
South Charleston, W. Va., Naval Ordnance Plant.
Asheville, N. C., 220 Post Office Building.
Columbia, S. C., 119 United States Courthouse.
Ocala, Fla., Post Office Building.
Montgomery, Ala., Post Office Building.
Chattanooga, Tenn., 217 Post Office Building.
Columbus, Ohio, Engineering Experiment Station, Ohio State University.
Indianapolis, Ind., 319 Federal Building.
Urbana, Ill., 14 Post Office Annex.
Madison, Wis., 337N State Capitol.
St. Paul, Minn., 808 New Post Office Building.
Iowa City, Iowa, 402 Hydraulic Laboratory, University of Iowa.
St. Louis, Mo., 906 Customhouse, 1114 Market Street.
Rolla, Mo., Missouri Geological Survey Building, Missouri School of Mines and Metallurgy.
Topeka, Kans., 305 Federal Building.
Fort Smith, Ark., Post Office Building.
Austin, Tex., State Highway Building.
Santa Fe, N. Mex., 3 United States Courthouse.
Tucson, Ariz., 210 Post Office Building.
Denver, Colo., 403 Post Office Building.
Salt Lake City, Utah, 303 Federal Building.
Idaho Falls, Idaho, 223 Federal Building.
Boise, Idaho, 429 Federal Building.
Helena, Mont., 421 Federal Building.
Tacoma, Wash., 406 Federal Building.
Portland, Oreg., 606 Post Office Building.
San Francisco, Calif., 303 Customhouse.
Los Angeles, Calif., 512 Eighth and Figueroa Building.
Honolulu, Hawaii, 225 Federal Building.

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

Records of flow of streams in the United States have been published in the reports tabulated as follows:

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 Sept. 1890.
12th A, pt. 2	.....do.....	1884 to June 30, 1891.
13th A, pt. 3	.....do.....	1884 to Dec. 31, 1892.
14th A, pt. 2	Monthly discharge (long-time records, 1871-93)....	1888 to Dec. 31, 1893.
B 131.....	Descriptions, measurements, gage heights, and ratings.	1893-94.
16th A, pt. 2	Descriptive information only	
B 140.....	Descriptions, 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).	1895-96.
W 15.....	Descriptions, measurements, and gage heights, eastern United States, eastern Mississippi River, and Missouri River above junction with Kansas River.	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	Descriptions, 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.

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

(A = Annual Report; B = Bulletin; W = Water-Supply Paper)

Report	Character of data	Year
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.

Note.- The reports which contain records after 1901 are given in the table on page 12.

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 discharge 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 1935. The data for any particular station will, in general, 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 3 are published in Water-Supply Papers 283, 303, 323, 353, 383, 403, 433, 453, 473, and 503, which contain records for the Ohio River Basin for those years. Special papers containing compilation of records previously published and also records not contained in the annual series of water-supply papers have been published for some States and drainage basins. For example, stream-flow records for the New-Kanawha River Basin in part 3 from 1895 to 1920 are contained in Water-Supply Paper 536.

Numbers of water-supply papers containing results of stream measurements, 1899-1935

(For basins included see p. 9)

Year	1	2	3	4	5	6	7	8	9	10	11	12 (12-A)	13 (12-B)	14 (12-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	m 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, n 100	99	k 98, 99	99	100	100	100	100	100	100
1904.....	o 124, p 125, q 126	q 126, 127	128	129	k 128, 130	130, r 131	k 128, 131	132	133	133, s 134	134	135	135	135
1905.....	o 165, p 166, q 167	q 167, 168	169	170	171	172	k 169, 173	174	175, t 177	176, s 177	177	178	178	u 177, 178
1906.....	o 201, p 202, q 203	q 203, 204	205	206	207	208	k 205, 209	210	211, t 213	212, s 213	213	214	214	214
1907-8...	241	242	243	244	245	246	247	248	249	250, s 251	251	252	252	252
1909.....	261	262	263	264	265	266	267	268	269	270, s 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	414
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
1928.....	661	662	663	664	665	666	667	668	669	670	671	672	673	674
1929.....	681	682	683	684	685	686	687	688	689	690	691	692	693	694
1930.....	696	697	698	699	700	701	702	703	704	705	706	707	708	709
1931.....	711	712	713	714	715	716	717	718	719	720	721	722	723	724
1932.....	726	727	728	729	730	731	732	733	734	735	736	737	738	739
1933.....	741	742	743	744	745	746	747	748	749	750	751	752	753	754
1934.....	756	757	758	759	760	761	762	763	764	765	766	767	768	769
1935.....	781	782	783	784	785	786	787	788	789	790	791	792	793	794

a Rating tables and index to Water-Supply Papers 35-39 contained in Water-Supply Paper 39. Tables of monthly discharge for 1899 in 21st Annual Report, part 4.
b James River only.
c Gallatin River.
d Green and Gunnison Rivers and Colorado River above Gunnison River.
e Mojave 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. Monthly discharge for 1900 in 22d Annual Report, part 4.
h Wissahickon and Schuylkill Rivers to James River.
i Scioto River.
j Loup, Platte, and Elkhorn Rivers and tributaries below Platte River.
k Tributaries of Mississippi River from east.
m Lake Ontario and tributaries to St. Lawrence River proper.
n Hudson Bay only.
o New England rivers only.
p Hudson River to Delaware River, inclusive.
q Susquehanna River to Yadkin River, inclusive.
r Platte and Kansas Rivers.
s The Great Basin in California, except Truckee and Carson River Basins.
t Below junction with Gila River.
u Rogue, Umpqua, and Siletz Rivers only.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

The following table contains a list of gaging stations for the area covered by this report at which records of discharge were collected during the year ending September 30, 1935, by agencies other than the Geological Survey. The records for these stations are not contained in publications of the Geological Survey.

Records of discharge collected by agencies other than the Geological Survey

Stream	Location	Period	Operated by	Remarks
Alamito Creek	Near Presidio, Tex.	1932-35	American section of International Boundary Commission, United States and Mexico.	Published in International Boundary Commission water bulletins.
Arroyo del Tigre	Near Zapata, Tex.	1932-35	....do.....	Do.
Devils River	Near Del Rio, Tex.	*1931-35	....do.....	Do.
Dolores Creek	Near San Ignacio, Texas.	1932-35	....do.....	Do.
Goodenough Springs	Near Comstock, Tex.	*1931-35	....do.....	Do.
Las Moras Creek	Near Eagle Pass, Texas	1932-35	....do.....	Do.
Los Olmos Creek	Near Rio Grande City, Texas.	1932-35	....do.....	Do.
Lozier Creek	Near Langtry, Tex.	1932-35	....do.....	Do.
Pecos River	Near Comstock, Texas.	*1931-35	....do.....	Do.
Pinto Creek	Near Del Rio, Tex.	*1931-35	....do.....	Do.
Rio Alamo	Mier, Tamaulipas, Mexico.	1923-26, 1928-35	Mexican section of International Boundary Commission, United States and Mexico.	Records for 1923-26 and 1928 published in 71st Cong., 2d sess., Doc. 359. Other records published in International Boundary Commission water bulletins.
Rio Escondido	Villa Fuente, Coahuila, Mexico	1922-35	....do.....	Records for 1923-24 and 1928 published as Rio San Antonio above Fuente in 71st Cong. 2d sess. Doc. 359. Records for 1932-35 published in International Boundary Commission water bulletins.
Rio Grande	Boquillas, Tex.	*1931-35	American section of International Boundary Commission, United States and Mexico.	Published in International Boundary Commission water bulletins.
Do.....	Below Brownsville, Tex.	1934-35	....do.....	Do.
Do.....	Near Del Rio, Tex.	*1931-35	....do.....	Do.
Do.....	Eagle Pass, Tex.	*1931-35	....do.....	Do.
Do.....	Near El Paso, Tex.	*1931-35	....do.....	Do.
Do.....	Below old Fort Quitman, Tex.	*1931-35	....do.....	Do.
Do.....	Langtry, Tex.	*1931-35	....do.....	Do.
Do.....	Laredo, Tex.	*1926-35	Mexican section of International Boundary Commission, United States and Mexico.	Do.
Do.....	Leasburg Dam, N. Mex.	1914, 1915, 1919-35	U. S. Bureau of Reclamation.	Unpublished.
Do.....	Matamoras, Tamaulipas, Mexico.	†1926-35	Mexican section of International Boundary Commission, United States and Mexico.	Records for 1929-35 published in International Boundary Commission water bulletins.
Do.....	Percha Dam, N. Mex.	1922-35	U. S. Bureau of Reclamation.	Unpublished.
Do.....	Above Presidio, Tex.	*1926-35	American section of International Boundary Commission, United States and Mexico.	Published in International Boundary Commission water bulletins.
Do.....	Below Presidio, Tex.	*1926-35	....do.....	Do.
Do.....	Rio Grande City, Tex.	1932-35	....do.....	Do.
Do.....	Roma, Tex.....	*1925-28, 1931-35	....do.....	Records for 1925-28 published in 71st Cong., 2d sess., H. Doc. 359. Records for 1931-35 published in International Boundary Commission water bulletins.
Do.....	Tornillo Bridge near Fabens, Tex.	*1931-35	....do.....	Published in International Boundary Commission water bulletins.

*Records for earlier years published in U. S. Geological Survey water-supply papers.
†Records prior to Oct. 1, 1926, published as Rio Grande near Brownsville, Tex., in U. S. Geological Survey water-supply papers.

Records of discharge collected by agencies other than the Geological Survey -- Continued.

Stream	Location	Period	Operated by	Remarks
Rio Grande	Zapata, Tex.	1932-35	American section of International Boundary Commission, United States and Mexico.	Published in International Boundary Commission water bulletins.
Rio Salado	Near Guerrero, Tamaulipas, Mexico.	*1923-35	Mexican section of International Boundary Commission, United States and Mexico	Records for 1923-28 published in 71st Cong., 2d sess., H. Doc. 359. Records for 1929-35 published in International Boundary Commission water bulletins.
Rio San Diego	Jimenez, Coahuila, Mexico.	1924-35	....do.....	Records for 1924-28 published in 71st Cong., 2d sess., H. Doc. 359. Records for 1932-35 published in International Boundary Commission water bulletins.
Rio San Juan	Santa Rosalia, Tamaulipas, Mexico.	*1923-35	....do.....	Records for 1923-28 published in 71st Cong., 2d sess., H. Doc. 359. Records for 1929-35 published in International Boundary Commission water bulletins.
Rio San Rodrigo	Near El Moral, Coahuila, Mexico.	1922-35	....do.....	Records for 1923-24, 1927-28 published in 71st Cong., 2d sess., H. Doc. 359. Records for 1932-35 published in International Boundary Commission water bulletins.
San Felipe Creek	Near Del Rio, Tex.	1931-35	American section of International Boundary Commission, United States and Mexico.	Published in International Boundary Commission water bulletins.
Terlingua Creek	Near Terlingua, Tex.	1932-35	....do.....	Do.

*Records for earlier years published in U. S. Geological Survey water-cupply papers.

Note.- Records of discharge for 1935 and earlier years have been collected by the U. S. Bureau of Reclamation for numerous canals in New Mexico in connection with irrigation projects.

COOPERATION

The work was done under cooperative agreements with the several States as follows: In Colorado with the State engineer, M. C. Hinderlider; in New Mexico with the State engineer, Thomas M. McClure; in Texas with the Board of Water Engineers, consisting of John A. Norris, chairman, C. S. Clark, and A. H. Dunlap.

Acknowledgments are due to the International Boundary Commission (U. S. Section), United States Bureau of Reclamation, United States Weather Bureau, and United States Soil Conservation Service for assisting in collecting the records published herein.

Assistance in collecting records was also rendered by the following organizations: In New Mexico by the United States Office of Indian Affairs, the town of Alamogordo, Alamogordo Community Ditch, Aqua Pura Co., New Mexico Power Co., Middle Rio Grande Conservance District, and Tularosa Community Ditch; in Texas by the city of Corpus Christi, Dallas County, San Antonio Public Service Co., and West Texas Utilities Co.

DIVISION OF WORK

Data for stations in the several States were collected and prepared for publication under supervision of district engineers as follows: In Colorado, Robert Follansbee, the work being done in collaboration with M. C. Hinderlider, State engineer, and L. T. Burgess, State chief hydrographer; in New Mexico, Berkeley Johnson; in Texas, C. E. Ellsworth.

SABINE RIVER BASIN

Sabine River near Gladewater, Tex.

Location.- Water-stage recorder, lat. 32°32', long. 94°57', at Gladewater-Tyler highway bridge 1 mile southwest of Gladewater, Gregg County. Zero of gage is 243.85 feet above mean sea level (Texas Reclamation Department datum).

Drainage area.- 2,846 square miles.

Records available.- October 1932 to September 1935.

Extremes.- Maximum discharge during year, 16,000 second-feet June 24 (gage height, 33.98 feet); minimum, 17 second-feet Oct. 13, 25, 26 (gage height, 3.80 feet).
1932-35: Maximum discharge, that of June 24, 1935; minimum, 9.8 second-feet Aug. 26, 27, 1934 (gage height, 3.61 feet).
Maximum stage known, 39.4 feet Jan. 1932.

Remarks.- Records good. Small diversions for municipal and oil-field operations.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	18	1,690	218	8,940	456	298	5,580	7,050	7,130	54	22
2	21	18	1,330	203	7,920	456	280	5,980	5,670	5,850	49	21
3	21	20	1,300	188	6,680	456	265	6,330	4,310	4,220	44	56
4	22	20	1,300	178	5,190	753	247	6,690	3,310	2,570	40	70
5	22	23	1,380	167	3,450	1,200	234	7,520	2,820	1,280	37	39
6	22	28	1,580	161	1,690	1,580	225	8,500	2,730	665	37	35
7	21	29	1,750	190	667	2,030	216	9,270	2,820	434	35	48
8	20	27	1,800	324	500	2,420	207	10,100	2,960	313	33	42
9	20	25	1,640	346	1,930	2,760	218	12,600	3,050	249	31	63
10	20	24	1,150	346	2,730	3,080	368	10,600	2,870	251	29	110
11	19	25	599	346	2,820	3,520	533	12,400	2,310	210	32	119
12	18	25	324	311	3,080	4,100	544	14,800	1,640	172	29	110
13	17	24	234	423	3,550	4,610	621	15,100	1,140	178	32	86
14	18	25	195	665	4,040	4,950	800	13,700	872	151	44	67
15	18	25	172	687	4,510	5,060	1,140	12,000	665	151	74	329
16	18	25	160	544	4,910	4,770	1,550	10,400	754	169	64	456
17	19	26	200	401	5,200	3,840	1,720	9,270	800	134	50	311
18	18	26	254	306	5,390	2,360	1,410	8,240	1,510	110	45	184
19	18	40	229	269	5,430	1,150	751	7,290	2,080	99	36	132
20	18	115	214	516	5,390	687	412	6,510	3,120	89	32	106
21	18	240	195	1,180	5,200	555	324	5,980	5,100	82	29	91
22	18	192	178	1,750	4,880	478	357	5,660	8,250	98	45	79
23	18	154	186	2,090	4,220	423	621	5,900	14,000	83	38	70
24	18	163	271	2,480	2,930	390	1,070	6,770	15,700	97	39	62
25	17	440	324	3,270	1,470	357	1,580	8,600	14,800	105	40	61
26	17	755	335	4,670	754	368	2,360	10,800	13,100	109	32	106
27	18	1,040	311	6,170	555	500	3,250	12,000	11,500	93	28	130
28	19	1,270	276	8,050	489	522	4,030	11,500	10,000	79	26	153
29	19	1,520	254	9,450	-	445	4,680	10,300	9,100	72	24	171
30	18	1,780	232	10,000	-	357	5,200	9,360	8,240	67	22	142
31	18	-	234	9,650	-	324	-	8,240	-	60	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	588	22	17	19.0	1,170
November	8,142	1,780	18	271	16,150
December	20,299	1,800	160	655	40,260
Calendar year 1934	437,518.6	9,340	9.8	1,199	867,900
January	65,547	10,000	161	2,114	130,000
February	104,515	8,940	489	3,733	207,300
March	54,957	5,060	324	1,773	109,000
April	35,511	5,200	207	1,184	70,440
May	287,990	15,100	5,580	9,290	571,200
June	162,271	15,700	665	5,409	321,900
July	25,370	7,130	60	818	50,320
August	1,172	74	22	37.8	2,320
September	3,471	456	21	116	6,880
Water year 1934-35	769,833	15,700	17	2,109	1,527,000

SABINE RIVER BASIN

Sabine River at Logansport, La.

Location.- Chain gage, lat. 31°58', long. 94°, on Houston East & West Texas Railway bridge and a quarter of a mile west of the railway station in Logansport, De Soto Parish. Zero of gage is 147.5 feet above mean sea level.

Drainage area.- 4,858 square miles.

Records available.- July 1903 to December 1906, October 1923 to September 1935.

Average discharge.- 12 years (1923-35), 3,064 second-feet.

Extremes.- Maximum discharge during year, 36,000 second-feet May 8 (gage height, 34.4 feet, from graph based on gage readings); minimum, 34 second-feet Oct. 1-3 and 14-23.

1903-6, 1923-35: Maximum discharge, 41,100 second-feet Feb. 23, 1932 (gage height, 35.6 feet, from graph based on gage readings); minimum, 23 second-feet Aug. 25-27, 1934.

Maximum stage known, 39.4 feet, present datum, reached during 1884.

Remarks.- Daily records poor, monthly records fair. Small diversions above station. Gage-height record furnished by U. S. Weather Bureau.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	44	3,480	2,530	4,410	3,200	944	6,900	10,500	4,860	312	149
2	34	44	4,210	2,100	4,660	2,560	848	7,170	9,750	5,320	282	149
3	34	44	5,260	1,500	4,910	2,040	776	7,590	9,300	5,800	268	139
4	39	44	5,620	1,230	5,200	1,800	710	7,940	8,900	6,260	240	159
5	39	44	5,500	1,090	5,500	2,070	666	9,620	8,660	6,780	228	191
6	39	44	4,960	1,210	5,860	3,380	622	21,200	8,580	7,170	202	191
7	39	44	4,160	2,400	6,460	4,110	578	33,600	8,580	7,520	191	191
8	39	49	3,340	2,560	6,710	4,310	556	36,000	8,660	7,730	180	189
9	39	55	2,710	3,520	7,460	4,460	536	34,400	8,660	7,730	169	180
10	39	55	2,210	3,380	8,220	4,660	578	29,700	8,360	7,240	159	214
11	39	55	1,960	2,830	9,140	4,510	944	25,700	7,660	5,320	149	240
12	39	49	1,820	2,490	9,480	4,110	1,800	21,800	6,120	2,470	139	268
13	39	49	1,590	2,100	9,840	4,020	2,490	18,700	4,560	1,210	139	312
14	34	49	1,300	1,690	10,200	3,880	2,670	16,400	3,380	824	139	312
15	34	44	1,160	1,180	10,400	4,060	2,530	14,400	2,710	688	139	328
16	34	44	944	992	10,100	4,110	2,210	12,800	2,120	644	149	296
17	34	44	920	968	9,750	4,210	1,740	11,900	1,640	556	169	282
18	34	44	1,160	1,260	9,140	4,260	1,590	11,300	1,420	516	226	254
19	34	55	1,570	1,280	8,360	4,310	2,040	11,700	1,450	456	254	226
20	34	61	1,520	1,720	7,730	4,360	3,790	12,600	1,670	436	312	268
21	34	55	1,210	3,420	6,900	4,110	4,020	14,400	2,150	398	344	344
22	34	1,180	1,210	6,260	6,260	3,300	3,250	17,800	3,300	362	328	362
23	34	2,750	1,260	6,380	5,500	2,320	2,350	21,300	4,060	344	254	328
24	39	3,160	1,110	6,000	4,760	1,850	1,720	22,300	3,790	328	214	282
25	44	2,750	1,280	5,140	4,110	1,450	1,280	21,800	3,700	312	191	226
26	49	2,180	1,930	4,810	3,560	1,230	1,460	19,800	3,790	296	180	202
27	55	1,720	2,790	4,660	3,520	920	4,060	18,300	3,970	296	180	191
28	55	1,450	4,510	4,110	3,250	800	5,930	16,000	4,210	282	159	191
29	55	1,520	4,960	3,660	-	872	5,800	14,400	4,460	296	149	191
30	55	2,150	4,460	3,250	-	992	5,800	13,000	4,810	312	149	180
31	49	-	3,380	3,660	-	1,020	-	11,600	-	328	149	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,233	55	34	39.8	2,450
November	19,876	3,160	44	663	39,420
December	83,494	5,620	920	2,693	165,600
Calendar year 1934	969,768	17,400	23	2,657	1,923,000
January	89,380	6,380	968	2,883	177,300
February	191,370	10,400	3,250	6,835	379,600
March	93,284	4,660	800	3,009	185,000
April	64,288	5,930	536	2,143	127,500
May	542,120	36,000	6,900	17,490	1,075,000
June	160,920	10,500	1,420	5,364	319,200
July	83,084	7,730	282	2,680	164,800
August	6,341	344	139	205	12,580
September	7,015	362	139	234	13,910
Water year 1934-35	1,342,405	36,000	34	3,678	2,662,000

Sabine River near Ruliff, Tex.

Location.- Staff gage, lat. 30°17', long. 93°42', on Kansas City Southern Railway bridge 1½ miles east of Ruliff, Newton County, and 5 miles below mouth of Cypress Creek. Zero of gage is 4.7 feet above mean sea level (railway datum).

Drainage area.- 9,448 square miles.

Records available.- October 1924 to September 1935.

Average discharge.- 11 years, 7,994 second-feet.

Extremes.- Maximum discharge observed during year, 76,600 second-feet May 24, 25 (gage height, 16.10 feet); minimum, 405 second-feet Oct. 23-24, 28-29, 31, Nov. 1, 2. 1924-35: Maximum discharge observed, that of May 24, 25, 1935; minimum, 362 second-feet Nov. 15-17, 1932.
River has reached higher stages in the past.

Remarks.- Records good except those below 2,000 second-feet, which are fair. No diversions of consequence above station.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Nov. 22)

1.2	362	4.5	1,624	9.0	6,060	12.5	24,900
1.5	427	5.0	1,940	9.5	6,880	13.0	30,400
2.0	549	5.5	2,298	10.0	8,020	13.5	36,800
2.5	700	6.0	2,700	10.5	9,450	14.0	44,100
3.0	878	7.0	3,630	11.0	11,500	15.0	59,100
3.5	1,091	8.0	4,740	11.5	15,000	15.5	67,000
4.0	1,340	8.5	5,350	12.0	19,700	16.0	75,000

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	960	405	7,300	10,600	18,700	12,800	6,700	19,700	30,400	6,540	3,240	2,370
2	1,450	405	8,020	12,100	16,800	12,100	6,540	19,700	28,200	6,700	2,880	2,700
3	1,620	450	8,550	14,200	14,200	11,500	6,540	19,700	28,200	6,880	2,620	2,370
4	1,560	498	9,130	15,000	11,500	10,600	6,380	19,700	28,200	7,080	2,220	1,940
5	1,450	1,040	9,790	15,800	9,130	9,790	6,380	19,700	28,200	7,530	1,940	1,880
6	1,240	2,010	10,600	14,200	8,020	9,130	6,700	19,700	28,200	8,020	1,810	1,810
7	1,000	2,220	12,800	12,100	7,530	9,790	6,880	20,700	28,200	8,280	1,690	1,810
8	840	1,940	14,200	9,790	7,530	11,000	6,380	21,800	28,200	8,280	1,560	1,620
9	734	1,560	15,800	7,530	7,770	13,400	5,760	23,800	28,200	8,550	1,450	1,500
10	667	1,190	17,700	7,080	8,020	15,800	5,480	24,900	27,100	8,550	1,390	1,500
11	606	960	17,700	8,020	9,130	17,700	5,350	23,800	26,000	8,830	1,340	1,690
12	549	804	17,700	9,790	10,600	20,700	4,620	23,800	24,900	9,130	1,290	2,300
13	523	700	15,000	11,500	12,800	23,800	4,070	22,800	23,800	9,130	1,240	2,620
14	523	636	11,500	13,400	15,800	23,800	3,960	22,800	21,800	9,130	1,240	2,450
15	498	606	8,550	15,000	17,700	23,800	3,960	21,800	19,700	9,450	1,390	2,150
16	498	577	6,700	14,200	19,700	22,800	4,070	22,800	17,700	9,450	1,560	1,810
17	474	549	5,620	12,800	21,800	21,800	4,290	22,800	15,800	9,130	1,810	1,560
18	450	549	4,860	10,600	21,800	19,700	4,620	22,800	14,200	8,550	1,810	1,340
19	450	523	4,510	8,830	21,800	16,800	4,860	24,900	12,800	6,880	2,150	1,240
20	450	549	4,290	6,880	20,700	14,200	5,480	26,000	11,000	5,220	2,370	1,190
21	427	606	4,070	6,700	19,700	12,800	6,220	30,400	9,130	3,960	2,300	1,140
22	427	1,360	3,850	7,300	17,700	10,600	7,300	47,100	7,770	3,240	2,150	1,090
23	406	4,120	3,240	9,130	16,800	9,450	8,550	67,000	6,880	2,790	2,150	1,050
24	405	5,760	3,430	11,500	15,800	8,830	10,200	75,000	6,060	2,530	2,080	1,050
25	427	6,700	3,430	15,000	15,800	8,550	12,100	75,000	5,480	2,620	1,940	1,090
26	405	7,530	3,330	17,700	15,000	8,020	14,200	67,000	5,350	2,700	1,750	1,240
27	405	7,530	3,330	20,700	15,000	7,530	16,800	56,100	5,480	2,530	1,560	1,560
28	405	6,700	4,400	21,800	14,200	6,880	17,700	47,100	5,760	2,530	1,560	1,750
29	405	6,220	5,760	22,800	-	6,220	18,700	39,600	6,220	3,060	1,560	1,880
30	427	6,700	7,530	21,800	-	5,910	19,700	35,400	6,540	3,430	1,690	2,620
31	405	-	9,130	20,700	-	6,540	-	32,800	-	3,530	2,010	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	21,085	1,620	405	680	41,820
November	71,397	7,530	405	2,380	141,600
December	261,820	17,700	3,240	8,446	519,300
Calendar year 1934	3,371,156	45,600	405	9,236	6,685,000
January	404,550	22,800	6,700	13,050	802,400
February	411,030	21,800	7,530	14,680	815,300
March	412,340	23,800	5,910	13,300	817,900
April	240,490	19,700	3,960	8,016	477,000
May	1,016,200	75,000	19,700	32,780	2,016,000
June	535,470	30,400	5,350	17,850	1,062,000
July	194,230	9,450	2,530	6,265	385,200
August	57,750	3,240	1,240	1,863	114,500
September	52,320	2,700	1,050	1,744	103,800
Water year 1934-35	3,678,682	75,000	405	10,080	7,297,000

124026 O—37——2

Neches River near Rockland, Tex.

Location.- Staff gage, lat. 31°1'45", long. 94°23'50", half a mile above Texas & New Orleans Railroad bridge 1 mile north of Rockland, Tyler County. Zero of gage is 91.3 feet above mean sea level.

Drainage area.- 3,539 square miles.

Records available.- October 1923 to September 1935.

Average discharge.- 12 years, 2,509 second-feet.

Extremes.- Maximum discharge observed during year, 48,500 second-feet May 22 (gage height, 28.90 feet); minimum, 18 second-feet Oct. 28.
1923-35: Maximum discharge, that of May 22, 1935; minimum, 3.0 second-feet Oct. 15, 1931.

Remarks.- Records good. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	27	2,490	3,150	1,350	2,300	1,070	6,540	9,620	1,270	336	408
2	137	27	2,490	2,760	1,270	2,160	1,040	6,330	11,700	1,190	323	227
3	242	21	2,890	2,440	1,190	2,120	1,800	6,610	12,900	1,190	310	163
4	222	53	3,840	2,160	1,110	3,440	1,760	6,540	12,600	1,510	286	163
5	154	38	4,960	1,850	1,070	4,750	1,230	8,290	11,500	1,510	264	211
6	109	35	5,980	1,590	1,040	3,660	1,040	12,800	10,500	1,510	232	344
7	77	34	6,190	1,720	996	3,550	1,550	30,800	9,270	1,350	211	576
8	59	32	5,910	2,490	1,110	3,600	1,640	45,200	8,290	1,230	172	403
9	52	29	5,430	2,350	1,680	4,420	1,270	45,200	7,450	1,230	163	310
10	47	29	4,550	2,210	2,250	4,480	1,040	37,500	5,980	1,190	154	390
11	43	27	3,720	2,030	3,200	4,290	957	29,700	5,840	1,150	145	879
12	39	26	2,940	1,940	3,760	4,160	879	21,800	5,090	1,110	145	840
13	37	26	2,210	1,550	4,750	4,030	802	17,600	4,420	957	154	664
14	40	26	1,640	1,390	5,030	3,720	802	15,200	3,780	840	172	407
15	43	31	1,270	1,270	5,300	3,490	840	13,700	3,370	688	461	378
16	45	37	1,040	1,190	5,370	3,150	918	13,000	2,630	576	957	378
17	39	35	840	1,150	5,090	2,890	957	12,600	2,540	540	1,150	286
18	3e	37	802	1,070	4,820	2,590	996	12,100	2,400	576	726	253
19	37	35	764	1,040	4,620	2,440	3,220	13,400	2,440	576	540	232
20	35	312	764	1,600	4,420	2,260	6,330	19,300	1,980	540	350	222
21	32	726	802	5,870	4,360	2,120	5,840	40,300	1,850	470	275	201
22	31	840	802	7,030	4,160	1,980	5,710	47,900	1,760	407	232	201
23	29	1,150	802	7,730	4,030	1,810	5,370	45,900	1,720	378	191	191
24	29	840	802	7,940	3,780	1,680	4,690	39,400	1,680	378	163	191
25	29	918	1,560	7,030	3,490	1,590	4,220	32,000	1,510	336	145	201
26	29	918	1,470	6,120	3,150	1,510	4,420	24,300	1,420	323	145	201
27	19	996	2,050	4,420	2,780	1,420	5,840	16,900	1,640	310	136	191
28	22	1,470	3,660	2,780	2,540	1,350	5,770	14,900	1,390	350	105	172
29	26	1,770	3,550	2,080	-	1,310	6,400	13,200	1,310	407	100	154
30	26	2,440	3,600	1,550	-	1,230	6,680	11,800	1,310	360	132	136
31	26	-	3,490	1,470	-	1,190	-	10,700	-	336	254	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,867	242	19	60.2	3,700
November	12,985	2,440	21	433	25,760
December	83,308	6,190	764	2,687	165,200
Calendar year 1934	864,967	12,100	15	2,370	1,716,000
January	90,990	7,940	1,040	2,935	180,500
February	87,716	5,370	996	3,133	174,000
March	84,690	4,750	1,190	2,732	168,000
April	85,081	6,680	802	2,836	168,800
May	671,510	47,900	6,330	21,660	1,332,000
June	150,090	12,900	1,310	5,003	297,700
July	24,778	1,510	310	799	49,150
August	9,129	1,150	100	294	18,110
September	9,573	879	136	319	18,990
Water year 1934-35	1,311,717	47,900	19	3,594	2,602,000

Neches River at Evadale, Tex.

Location.- Staff gage, lat. 30°21', long. 94°5', at highway bridge 200 feet upstream from Gulf, Colorado & Santa Fe Railway bridge at Evadale, Jasper County. Zero of gage is 7.20 feet above mean sea level (railway datum).

Drainage area.- 7,908 square miles.

Records available.- July 1904 to December 1906, October 1923 to September 1935.

Average discharge.- 12 years (1923-35), 6,555 second-feet.

Extremes.- Maximum discharge observed during year, 64,100 second-feet May 27, 28 (gage height, 20.60 feet); minimum, 217 second-feet Oct. 31 to Nov. 2.
1904-6, 1923-35: Maximum discharge, 83,800 second-feet June 1, 1929 (gage height, 22.20 feet); minimum, about 148 second-feet Sept. 10, 1925.
Maximum stage known, 26.2 feet (revised) in 1884, from records of Gulf, Colorado & Santa Fe Railway Co.

Remarks.- Records good. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	331	217	4,900	10,600	10,000	7,820	4,540	13,800	45,600	3,390	1,530	713
2	363	217	5,410	10,600	8,000	7,500	4,620	13,800	40,300	3,390	1,530	884
3	414	285	6,110	9,750	6,620	7,350	4,540	14,600	38,100	3,530	1,460	1,080
4	414	331	6,900	8,600	5,870	7,050	4,460	14,200	33,900	3,460	1,340	1,220
5	397	380	7,350	7,820	5,300	6,900	5,410	14,600	30,400	3,530	1,260	1,080
6	397	471	7,820	7,200	4,900	7,350	5,990	16,500	28,800	3,730	1,150	1,010
7	432	451	8,600	6,360	4,460	8,600	6,230	16,500	28,800	3,880	1,080	914
8	451	397	9,270	5,990	4,130	9,750	4,820	17,000	27,200	3,880	977	855
9	432	331	10,000	6,230	4,050	11,200	4,900	17,600	25,600	3,600	914	884
10	397	300	10,800	7,350	4,130	11,200	4,050	18,100	24,000	3,600	826	1,010
11	380	285	11,400	8,390	5,410	11,200	4,050	21,200	21,900	3,460	797	1,150
12	363	285	12,100	9,040	6,620	11,800	3,800	30,400	19,900	3,530	768	1,220
13	331	270	11,800	8,820	7,820	12,100	3,660	44,600	18,700	3,280	713	1,300
14	331	256	11,200	8,000	9,270	12,400	3,390	53,100	15,500	3,010	740	1,460
15	300	243	9,510	6,900	10,300	12,100	3,120	59,600	12,400	2,670	855	1,500
16	285	243	7,820	6,110	11,200	11,400	3,060	57,400	9,750	2,400	884	1,340
17	270	243	6,230	5,410	11,400	10,600	3,010	47,800	8,180	2,250	826	1,190
18	258	243	5,190	4,990	11,400	9,510	3,010	46,700	6,900	2,110	884	1,150
19	243	243	4,130	4,710	11,400	8,390	3,120	44,600	6,230	1,970	1,370	1,080
20	243	243	3,800	4,460	11,200	7,650	3,600	44,600	5,630	1,780	1,610	977
21	243	300	3,460	5,090	10,600	7,200	4,900	48,700	5,190	1,740	1,530	884
22	243	568	3,060	6,230	10,000	6,620	8,000	47,800	4,800	1,740	1,380	797
23	243	2,100	2,840	8,600	9,510	6,110	9,750	46,700	4,620	1,700	1,150	768
24	243	3,190	2,670	10,800	9,270	5,870	11,200	45,600	4,460	1,610	1,040	713
25	243	3,460	2,560	12,800	9,040	5,630	12,100	51,000	4,290	1,570	945	740
26	243	3,190	2,460	14,200	8,820	5,300	12,100	59,600	4,130	1,460	884	768
27	243	2,900	2,780	15,100	8,600	4,990	12,400	64,100	3,960	1,380	768	797
28	230	2,670	3,960	15,600	8,390	4,710	12,400	64,100	3,660	1,340	713	797
29	230	3,010	5,190	15,600	-	4,460	12,800	61,900	3,600	1,380	633	826
30	230	3,730	6,900	14,600	-	4,460	13,500	57,400	3,460	1,420	659	826
31	217	-	9,040	12,800	-	4,460	-	51,000	-	1,460	740	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,638	451	217	311	19,120
November	31,052	3,730	217	1,035	61,590
December	205,260	12,100	2,460	6,621	407,100
Calendar year 1934	2,296,789	24,800	217	6,293	4,555,000
January	278,550	15,600	4,460	8,985	552,500
February	227,710	11,400	4,060	8,132	451,700
March	251,680	12,400	4,460	8,119	499,200
April	192,330	13,500	3,010	6,411	381,500
May	1,202,600	64,100	13,800	38,790	2,385,000
June	489,960	45,600	3,460	16,330	971,800
July	79,430	3,880	1,340	2,562	157,500
August	31,958	1,610	633	1,031	63,380
September	29,933	1,500	713	998	59,370
Water year 1934-35	3,030,099	64,100	217	8,302	6,010,000

Angelina River at Horger, Tex.

Location.- Chain gage, lat. 31°1', long. 94°10', on Zavalla-Jasper highway bridge a quarter of a mile east of Horger, Jasper County, and 20 miles above mouth.

Drainage area.- 3,435 square miles.

Records available.- March 1928 to September 1935.

Extremes.- Maximum discharge observed during year, 29,100 second-feet May 11 (gage height, 33.10 feet); minimum, 43 second-feet Oct. 30, 31.
1928-35: Maximum discharge, 48,800 second-feet Feb. 24, 1932 (gage height, 36.35 feet, from graph based on gage readings); minimum, 35 second-feet Oct. 12, 19, 1931.
Maximum stage known, about 39.50 feet August 1914.

Remarks.- Records fair. Backwater possible at times from Neches River. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	112	51	3,060	3,640	2,920	3,250	1,220	7,120	14,100	1,090	538	277
2	82	56	2,580	3,350	2,730	2,960	1,300	6,980	13,000	1,040	456	248
3	112	112	3,350	3,160	2,440	3,060	2,210	7,410	12,000	1,130	388	230
4	222	112	4,910	3,010	2,300	3,250	2,120	8,070	11,000	1,480	322	213
5	197	85	5,700	2,870	2,260	4,640	1,880	9,520	10,000	1,520	267	197
6	161	76	6,370	2,630	2,120	5,760	1,430	10,900	8,840	1,480	258	175
7	133	65	6,500	3,060	1,610	4,590	1,040	13,100	7,480	1,430	248	168
8	119	65	6,430	4,700	1,340	3,980	1,090	17,500	6,430	1,300	230	154
9	112	78	6,060	5,300	1,260	5,240	1,220	22,000	6,180	1,300	222	140
10	119	81	5,470	4,960	1,830	6,240	1,170	27,600	4,590	1,390	213	267
11	93	80	4,860	4,080	3,010	5,760	1,090	28,700	3,730	1,090	197	309
12	80	71	4,030	3,640	4,080	4,800	1,040	26,000	3,200	874	205	287
13	80	86	3,250	2,920	4,590	4,750	1,040	22,900	2,870	832	197	230
14	78	86	2,730	2,580	5,470	4,490	1,130	20,600	2,300	748	197	197
15	81	81	2,440	2,400	5,130	4,130	1,220	18,500	1,930	832	182	239
16	75	72	2,020	2,300	4,540	3,980	1,260	17,700	1,790	748	182	239
17	80	68	1,660	2,210	4,590	3,730	1,300	16,900	1,740	664	197	222
18	75	68	1,520	2,020	4,280	2,770	1,300	16,300	1,700	622	197	205
19	72	68	1,340	1,840	4,130	2,630	3,190	16,700	1,610	580	258	190
20	62	149	1,220	2,120	3,880	2,440	5,520	18,500	1,610	517	239	147
21	62	790	1,130	6,100	3,980	2,350	6,240	21,600	1,560	476	230	98
22	58	1,790	1,090	7,990	3,980	2,260	5,810	25,100	1,560	404	205	133
23	56	1,740	1,000	8,610	3,880	2,160	5,300	26,000	1,560	374	230	190
24	53	1,520	1,000	8,070	3,830	1,970	5,240	25,700	1,610	347	205	175
25	50	1,260	1,600	7,190	3,780	1,840	4,960	24,100	1,390	322	190	168
26	49	1,000	2,400	6,240	3,730	1,610	4,910	22,200	1,260	298	175	168
27	47	1,090	3,090	5,350	3,440	1,260	6,370	20,300	1,300	334	168	190
28	50	1,610	5,180	4,440	3,400	1,130	7,480	18,800	1,220	404	161	175
29	50	1,790	5,300	3,830	-	1,040	7,330	17,600	1,170	438	190	239
30	44	2,630	4,640	3,440	-	958	7,260	16,300	1,170	538	322	298
31	43	-	3,980	3,160	-	1,430	-	15,300	-	622	517	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,707	222	43	87.3	5,370
November	16,830	2,630	51	561	33,380
December	105,910	6,500	1,000	3,416	210,100
Calendar year 1934	1,158,052	16,000	43	3,173	2,297,000
January	127,210	8,610	1,840	4,104	252,300
February	94,530	5,470	1,260	3,376	187,500
March	100,458	6,240	958	3,241	199,300
April	93,670	7,480	1,040	3,122	185,800
May	566,000	28,700	6,980	18,260	1,123,000
June	129,900	14,100	1,170	4,330	257,700
July	25,224	1,520	298	814	50,030
August	7,786	538	161	251	15,440
September	6,168	309	98	206	12,230
Water year 1934-35	1,276,393	28,700	43	3,497	2,532,000

West Fork of Trinity River at Fort Worth, Tex.

Location.- Water-stage recorder, lat. 32°46', long. 97°20', in old pump house of Fort Worth Power & Light Co.'s plant in Fort Worth, Tarrant County, 150 feet above Paddock viaduct and a quarter of a mile below mouth of Clear Fork of Trinity River. Zero of gage is 519.2 feet above mean sea level.

Drainage area.- 2,431 square miles.

Records available.- October 1920 to September 1935.

Average discharge.- 15 years, 414 second-feet.

Extremes.- Maximum discharge during year, 18,700 second-feet May 18 (gage height, 17.15 feet); minimum, 0.1 second-foot Oct. 24-30, Aug. 28, 29.
1920-35: Maximum discharge, 85,000 second-feet, by slope-area method, Apr. 25, 1922, data furnished by city engineer of Fort Worth (gage height, 23.95 feet); no flow at times.

Remarks.- Records good. Gage heights for Oct. 1-7, May 16-18, and Aug. 9-11 based on graph plotted from U. S. Weather Bureau daily gage readings. Considerable water diverted above for municipal use. Flow partly regulated by Bridgeport, Eagle Mountain, and Lake Worth Reservoirs (capacity, 527,000 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.1	2.0	3.1	3.1	3.4	9.5	12	9.5	1,470	1,120	1,070	0.5
2	3.1	3.1	3.4	3.4	3.4	6.6	6.6	17	1,430	1,120	1,050	1.6
3	2.7	3.4	3.4	3.1	3.4	6.6	3.4	11	1,310	1,120	1,060	3.1
4	2.7	2.7	3.1	3.1	2.3	310	3.1	2,600	1,240	1,100	1,070	2.7
5	2.7	6.6	3.1	3.8	2.0	163	8.1	2,350	1,220	1,110	1,080	3.1
6	2.3	3.1	2.7	3.8	2.0	42	6.6	496	1,190	1,120	1,060	12
7	2.2	3.1	2.3	6.1	20	18	3.8	220	1,200	1,120	844	11
8	2.0	2.3	3.1	3.4	87	14	3.8	220	1,170	1,110	337	19
9	2.0	2.7	5.2	5.2	160	12	3.8	148	1,150	1,100	352	42
10	3.1	3.1	3.8	2.7	113	15	6.6	114	1,150	653	820	396
11	2.7	2.0	3.1	2.7	31	17	3.4	83	1,110	273	1,030	866
12	2.7	2.0	8.1	3.4	28	31	2.7	61	992	437	634	829
13	3.4	1.6	11	2.3	24	47	2.3	47	1,150	851	231	432
14	3.4	3.4	6.6	3.8	20	29	2.3	218	1,520	970	83	181
15	2.3	17	6.6	5.2	14	28	2.0	5,180	2,380	1,040	33	76
16	2.7	11	8.1	3.1	12	22	1.6	5,320	1,300	1,080	28	35
17	2.3	3.1	11	2.3	11	15	2.0	1,680	1,340	983	12	17
18	2.7	3.1	9.5	22	11	18	40	12,400	3,820	727	6.6	14
19	2.3	48	3.1	230	11	18	440	9,930	1,910	459	3.4	8.1
20	1.6	78	3.1	757	11	17	153	2,520	1,270	207	2.7	3.8
21	.5	31	2.7	438	8.1	104	42	1,920	1,240	92	3.1	3.1
22	1.6	12	2.7	55	6.6	70	33	1,620	1,200	47	3.8	2.7
23	.8	3.4	3.8	15	6.6	67	18	1,490	713	107	3.4	1.6
24	.1	2.7	5.2	9.5	16	26	15	1,390	456	572	3.1	11
25	.1	2.7	6.6	5.2	133	22	90	1,320	534	962	3.1	39
26	.1	2.0	3.4	3.4	59	11	80	1,300	593	1,110	1.2	456
27	.1	1.2	5.2	3.1	22	9.5	33	1,290	858	1,120	.5	225
28	.1	2.0	8.1	2.7	14	9.5	17	1,280	1,090	1,120	.1	106
29	.1	9.5	6.6	2.7	-	11	9.5	1,270	1,100	1,100	.1	216
30	.1	3.8	2.7	3.1	-	15	8.1	1,270	1,100	1,100	.8	331
31	2.0	-	5.2	3.1	-	6.6	-	1,230	-	1,090	1.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	57.7	3.4	0.1	1.86	114
November	271.6	78	1.2	9.05	539
December	155.6	11	2.3	5.02	309
Calendar year 1934	18,836	1,040	0	51.6	37,360
January	1,612.3	757	2.3	52.0	3,200
February	834.8	160	2.0	29.8	1,660
March	1,190.3	310	6.6	38.4	2,360
April	1,056.7	440	1.6	35.2	2,100
May	59,004.5	12,400	9.5	1,903	117,000
June	38,216	3,820	456	1,274	75,800
July	26,120	1,120	47	843	51,810
August	10,827.1	1,080	.1	349	21,480
September	4,344.3	866	.5	145	8,620
Water year 1934-35	143,690.9	12,400	.1	394	285,000

West Fork of Trinity River at Grand Prairie, Tex.

Location.- Water-stage recorder, lat. 32°46', long. 96°59', 440 feet below Grand Prairie-Sowers-Irving highway bridge 1 mile northeast of Grand Prairie, Dallas County. Zero of gage is 412.99 feet above mean sea level.

Drainage area.- 2,886 square miles.

Records available.- March 1925 to September 1935.

Average discharge.- 10 years, 500 second-feet.

Extremes.- Maximum discharge during year, 13,500 second-feet May 19 (gage height, 25.48 feet); minimum, 20 second-feet Apr. 16.
1925-35: Maximum discharge, 15,400 second-feet Jan. 23, 1932 (gage height, 25.96 feet, former site); minimum, 3.2 second-feet June 6, 1925.
Maximum stage known, about 29 feet in April 1922.

Remarks.- Records good. Numerous small diversions above gage. Largest diversion is by City of Fort Worth. Regulation same as that for West Fork of Trinity River at Fort Worth.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	36	40	28	24	50	34	35	1,340	1,160	1,110	26
2	24	37	35	27	24	43	30	34	1,700	1,160	1,090	25
3	25	42	29	28	24	38	28	39	1,980	1,160	1,090	24
4	28	42	25	28	24	38	30	915	1,580	1,160	1,090	24
5	28	47	27	28	22	356	28	6,770	1,300	1,140	1,110	30
6	26	41	28	28	23	231	28	5,160	1,260	1,160	1,110	32
7	26	42	26	30	25	100	28	922	1,240	1,160	1,090	50
8	28	51	26	31	51	61	28	365	1,240	1,140	710	64
9	24	41	25	42	280	48	24	302	1,220	1,140	298	122
10	24	39	24	33	259	44	26	215	1,180	1,090	430	96
11	26	38	23	29	183	42	28	171	1,180	587	894	418
12	27	38	24	29	93	40	30	128	1,090	284	957	894
13	29	34	25	29	75	60	28	101	1,050	536	504	821
14	30	33	24	31	100	72	27	178	1,780	978	222	380
15	31	42	29	27	67	66	25	1,890	4,230	1,070	135	191
16	33	45	33	26	54	52	21	6,760	5,340	1,090	96	116
17	31	59	47	29	47	49	21	7,640	2,010	1,090	71	75
18	31	51	36	32	41	44	25	6,020	3,980	946	56	56
19	31	43	35	214	36	38	50	9,820	4,430	696	47	47
20	31	82	30	1,010	35	50	401	11,500	2,060	403	40	42
21	31	141	29	946	34	124	233	6,530	1,410	227	37	38
22	31	70	26	445	33	198	90	2,520	1,390	135	37	36
23	29	56	25	124	31	103	59	1,880	1,240	111	50	33
24	30	41	26	63	30	127	50	1,680	716	120	40	29
25	31	32	25	46	262	71	45	1,540	536	639	37	29
26	32	28	27	38	250	50	142	1,430	616	1,010	36	105
27	32	24	25	34	119	43	156	1,390	696	1,110	31	492
28	32	25	28	31	74	37	87	1,370	1,010	1,140	29	232
29	34	27	28	28	-	31	54	1,370	1,160	1,110	30	136
30	31	28	28	25	-	31	40	1,340	1,140	1,110	28	222
31	32	-	31	24	-	31	-	1,340	-	1,110	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	906	34	24	29.2	1,800
November	1,354	141	24	45.1	2,690
December	889	47	23	28.7	1,760
Calendar year 1934	36,069	1,750	16	98.8	71,550
January	3,561	1,010	24	115	7,060
February	2,320	280	22	82.9	4,600
March	2,368	356	31	76.4	4,700
April	1,898	401	21	63.2	3,760
May	81,375	11,500	34	2,628	161,400
June	51,104	5,340	536	1,703	101,400
July	26,972	1,160	111	870	53,500
August	12,532	1,110	27	404	24,860
September	4,885	894	24	163	9,690
Water year 1934-35	190,162	11,500	21	521	377,200

Trinity River at Dallas, Tex.

Location.- Water-stage recorder, lat. 32°47', long. 96°48', at Commerce Street viaduct in Dallas, Dallas County. Zero of gage is 368.05 feet above mean sea level.

Drainage area.- 6,001 square miles (revised).

Records available.- July 1903 to December 1906, October 1920 to July 1930, October 1932 to September 1935. October 1898 to December 1899, (gage heights only) at site 2 miles upstream; July 1930 to September 1932 at site 6 miles downstream.

Average discharge.- 15 years (1920-35), 1,380 second-feet.

Extremes.- Maximum discharge during year, 76,700 second-feet May 20 (gage height, 42.10 feet); minimum, 15 second-feet Apr. 18.
1898-99, 1903-6, 1920-35: Maximum discharge, that of May 20, 1935; minimum, 6.8 second-feet Sept. 11, 1924.
Maximum stage known, 52.6 feet May 26, 1908 (from records of U. S. Weather Bureau). Practically no flow at times in 1917 and 1918.

Remarks.- Records good. Discharge partly estimated Nov. 25-28, Jan. 29 to Feb. 1. Only known diversions are for municipal uses. Flow partly regulated by storage in Bridgeport, Eagle Mountain, Lake Worth, and Lake Dallas Reservoirs (capacity, 741,000 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	67	53	114	84	110	158	54	186	3,330	1,990	1,320	192
2	60	73	110	82	96	128	53	128	2,440	2,290	1,320	186
3	65	67	100	77	88	114	46	100	3,590	1,530	1,280	198
4	52	59	83	74	85	152	43	1,700	13,500	1,400	1,240	212
5	67	64	79	74	82	1,070	36	15,000	2,970	1,520	1,320	212
6	73	66	76	77	84	1,050	40	23,300	2,190	1,660	1,600	225
7	65	56	79	100	119	380	36	21,900	2,140	1,750	1,750	272
8	65	67	72	101	147	174	36	13,200	2,090	1,800	1,550	736
9	55	68	76	96	864	138	34	6,330	1,930	1,570	1,050	1,020
10	56	58	75	90	1,300	128	48	4,240	1,140	1,480	923	1,590
11	55	71	72	82	711	114	43	3,240	1,010	1,080	1,380	700
12	53	62	71	79	353	157	36	1,250	1,010	683	1,620	1,090
13	52	51	75	90	374	1,280	34	408	1,600	694	1,150	1,160
14	70	48	75	86	443	706	26	3,000	2,540	1,160	699	810
15	67	127	74	78	419	246	25	7,590	10,000	1,320	549	510
16	63	85	97	75	271	192	26	15,600	17,400	1,320	481	374
17	66	84	133	78	192	148	18	21,600	18,600	1,320	419	314
18	64	93	114	126	164	114	16	22,700	20,200	1,200	396	271
19	61	141	99	649	143	100	183	31,700	19,600	1,010	365	255
20	59	289	85	2,060	119	111	970	73,100	14,400	782	353	240
21	60	986	84	3,090	124	627	941	56,500	9,130	535	343	225
22	59	941	79	1,540	124	503	765	32,600	6,240	408	374	232
23	53	646	77	494	106	240	468	19,200	4,940	314	374	252
24	248	338	79	198	99	218	192	10,600	3,980	314	364	225
25	94	198	78	153	391	148	147	5,210	3,440	629	364	274
26	71	133	75	128	795	99	792	2,890	3,390	1,480	353	305
27	62	101	75	110	328	90	1,720	2,390	3,390	1,700	333	700
28	70	96	86	100	198	70	650	2,290	2,890	1,440	333	1,070
29	61	109	83	162	-	61	268	2,490	2,490	1,400	333	594
30	48	110	78	380	-	55	180	2,740	2,140	1,360	298	606
31	52	-	81	156	-	58	-	3,840	-	1,320	212	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,113	248	48	68.2	4,190
November	5,340	986	48	178	10,590
December	2,634	133	71	85.0	5,220
Calendar year 1934	146,291	8,800	22	401	290,200
January	10,759	3,090	74	347	21,340
February	8,329	1,300	82	297	16,520
March	8,829	1,280	55	285	17,510
April	7,926	1,720	16	264	15,720
May	407,022	73,100	100	13,130	807,300
June	183,710	20,800	1,010	6,124	364,400
July	38,459	2,890	314	1,241	76,280
August	24,466	1,750	212	789	48,530
September	15,032	1,590	186	501	29,820
Water year 1934-35	714,619	73,100	16	1,958	1,417,000

Trinity River near Oakwood, Tex.

Location.- Water-stage recorder, lat. 31°39', long. 95°47', at Palestine-Oakwood highway bridge 1½ miles above International-Great Northern Railroad bridge and 6 miles northeast of Oakwood, Leon County. Zero of gage is 175.03 feet above mean sea level (revised by general adjustment of 1929). Prior to Oct. 8, 1934, chain gage at same site and datum.

Drainage area.- 12,840 square miles.

Records available.- July 1932 to September 1935; October 1923 to July 1932 at site 1½ miles downstream.

Average discharge.- 12 years,(1923-35) 4,540 second-feet.

Extremes.- Maximum discharge during year, 48,400 second-feet May 24 (gage height, 44.16 feet); minimum, 79 second-feet Oct. 3, 4.
1923-35: Maximum discharge, 84,400 second-feet May 23, 1930 (gage height, about 46.8 feet, on present gage); minimum, 22 second-feet Aug. 18, 1934.
Maximum stage known, about 52.2 feet June 4, 1908, on present gage.

Remarks.- Records good. Gage heights for Oct. 1-8, Apr. 28, 27, and May 1-6 based on graph plotted from U. S. Weather Bureau daily gage readings. No diversions above station except for municipal uses. Flow partly regulated by reservoirs above Dallas.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	106	110	858	324	884	1,570	574	10,600	31,500	25,600	1,440	344
2	85	102	1,890	304	728	1,490	500	9,140	27,800	23,900	1,390	304
3	79	124	2,550	292	772	1,180	440	9,270	25,200	21,300	1,330	285
4	79	127	2,930	272	706	1,000	440	9,690	23,300	17,100	1,330	236
5	99	124	3,090	254	552	1,600	430	11,700	20,800	11,100	1,280	208
6	99	113	2,420	242	480	5,550	406	14,500	17,800	6,130	1,260	208
7	85	124	1,940	283	500	8,450	824	15,500	14,700	3,110	1,230	242
8	85	145	1,330	406	746	9,690	1,460	16,700	12,900	2,180	1,230	276
9	99	141	772	366	2,770	10,300	1,600	18,300	11,600	2,030	1,280	621
10	102	120	490	350	4,620	9,320	1,180	20,400	10,400	2,030	1,440	1,060
11	99	110	390	422	8,830	6,410	1,210	24,200	8,760	2,090	1,490	4,000
12	102	110	330	552	11,200	3,250	2,350	26,600	6,920	2,030	1,310	5,770
13	102	106	292	618	13,000	1,620	3,590	26,800	5,070	1,800	1,030	6,220
14	99	102	260	490	14,000	1,280	3,460	26,000	3,240	1,600	1,000	5,700
15	99	110	242	406	14,300	1,180	2,440	25,600	2,870	1,410	1,310	3,470
16	106	116	236	358	13,500	1,230	1,580	26,400	3,840	1,620	1,390	1,960
17	113	122	696	330	10,700	1,550	932	26,000	5,810	1,550	1,100	1,520
18	106	157	960	311	6,920	1,360	618	26,400	9,520	1,620	816	1,130
19	106	156	706	298	3,960	1,080	728	26,800	12,800	1,620	662	860
20	110	433	819	356	2,280	884	838	26,800	15,800	1,490	574	706
21	110	850	1,620	1,620	1,660	794	728	26,800	20,000	1,440	490	596
22	102	1,440	1,460	5,780	1,360	706	827	33,000	29,700	1,360	440	510
23	102	3,830	908	8,680	1,180	640	1,720	45,200	37,900	1,280	466	450
24	102	4,660	552	10,800	1,050	618	2,260	48,400	39,600	1,080	1,140	406
25	99	4,200	406	12,200	932	973	2,550	47,400	40,400	816	1,100	390
26	96	3,340	344	13,300	860	1,200	5,790	45,200	40,400	684	695	406
27	96	2,550	344	13,300	836	1,080	10,800	44,200	38,700	640	500	440
28	92	1,600	382	10,600	1,130	980	12,200	45,200	35,400	616	450	965
29	101	932	398	5,370	-	838	12,700	44,200	31,500	809	398	2,520
30	113	728	344	2,240	-	728	12,100	41,400	27,800	1,420	390	2,590
31	96	-	368	1,270	-	618	-	37,000	-	1,550	374	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,069	113	79	99.0	6,090
November	26,882	4,660	102	896	53,320
December	30,337	3,090	236	979	60,170
Calendar year 1934	882,400	24,200	22	2,418	1,750,000
January	92,394	13,300	242	2,980	183,300
February	120,458	14,300	480	4,302	238,900
March	79,169	10,300	618	2,554	157,000
April	87,275	12,700	406	2,909	173,100
May	855,600	48,400	9,140	27,600	1,697,000
June	612,030	40,400	2,870	20,400	1,214,000
July	142,707	25,600	618	4,603	283,100
August	30,335	1,490	374	979	60,170
September	44,395	6,220	208	1,480	88,060
Water year 1934-35	2,124,661	48,400	79	5,821	4,214,000

Trinity River at Riverside, Tex.

Location.- Wire-weight gage, lat. 30°52', long. 95°24', on International-Great Northern Railroad bridge at Riverside, Walker County. Zero of gage is 93.7 feet above mean sea level (railway datum). Prior to Oct. 5, 1934, chain gage at same site and datum.

Drainage area.- 15,510 square miles.

Records available.- January 1903 to December 1906, October 1923 to September 1935.

Average discharge.- 12 years (1923-35), 6,647 second-feet.

Extremes.- Maximum discharge observed during year, 61,200 second-feet May 21 (gage height, 41.8 feet); minimum, 92 second-feet Oct. 12-16, Oct. 19 to Nov. 19.
1903-6, 1923-35: Maximum discharge observed, 76,100 second-feet June 1, 1929 (gage height, 46.10 feet); minimum, 70 second-feet Aug. 20-26, Sept. 8-13, 1925, and Sept. 29 to Oct. 4, 1931.
Maximum stage known, 49.7 feet June 11, 1908 (present datum).

Remarks.- Records fair. No diversions except for municipal uses. Flow partly regulated by reservoirs above Dallas. Gage-height record furnished by U. S. Weather Bureau.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	900	92	4,890	2,480	12,400	2,000	1,700	20,300	49,400	31,900	1,360	665
2	510	92	4,550	1,700	11,700	1,580	1,700	22,200	47,100	33,400	1,820	665
3	318	92	10,000	1,420	5,730	2,070	1,940	23,500	47,100	34,100	2,200	665
4	253	92	8,100	1,420	2,600	3,220	2,000	26,700	47,100	34,300	1,760	665
5	224	92	6,700	1,260	1,480	12,300	1,700	44,500	47,400	34,700	1,700	800
6	172	92	4,980	950	1,100	13,200	1,700	53,500	46,100	33,800	1,640	1,200
7	172	92	4,120	900	1,100	11,500	1,420	50,300	45,400	31,900	1,580	1,310
8	149	92	3,310	1,110	2,060	11,000	1,100	43,500	43,800	27,600	1,530	850
9	128	92	2,550	2,000	4,600	12,000	950	38,900	41,300	18,700	1,530	850
10	128	92	1,820	2,000	8,750	13,900	1,150	32,500	37,900	8,230	1,530	1,150
11	109	92	1,260	2,000	13,800	14,800	3,240	26,900	32,100	4,540	1,480	1,420
12	92	92	800	1,760	15,100	14,300	2,920	24,800	24,900	3,710	1,640	1,820
13	92	92	800	1,420	19,700	10,900	2,410	24,500	18,200	3,230	1,760	3,480
14	92	92	710	1,530	19,200	7,200	3,230	24,500	12,300	4,200	1,820	6,020
15	92	92	370	1,940	19,100	4,380	4,380	26,600	7,900	3,950	1,700	7,200
16	92	92	370	1,940	19,100	2,690	4,460	34,100	6,330	2,840	1,640	6,240
17	128	92	370	1,940	19,000	2,340	3,630	33,400	5,610	1,880	1,580	4,770
18	149	92	873	1,940	17,500	2,270	2,920	34,200	7,000	2,140	1,580	2,920
19	92	92	832	2,270	14,900	2,410	4,610	53,500	8,800	2,070	1,580	2,070
20	92	566	490	1,700	12,000	2,410	8,600	59,800	11,600	1,880	1,420	1,640
21	92	1,980	1,730	1,940	7,600	2,140	10,800	60,700	12,700	2,200	1,000	1,360
22	92	4,380	1,310	3,520	5,040	1,880	8,300	57,000	14,200	2,200	850	1,150
23	92	3,790	1,530	6,420	3,120	1,700	5,610	52,400	17,800	2,200	755	950
24	92	3,550	2,000	8,300	2,000	1,580	4,040	48,100	20,200	2,270	755	950
25	92	5,250	1,820	9,370	1,580	1,480	4,200	44,400	22,900	1,940	755	1,000
26	92	5,070	1,200	10,600	1,760	1,360	5,520	41,800	24,800	1,700	755	800
27	92	4,980	3,340	12,500	1,760	1,360	8,400	39,600	27,600	1,580	800	800
28	92	4,200	8,820	12,700	1,760	2,000	11,900	40,000	30,800	1,420	1,150	1,100
29	92	3,950	6,800	12,500	-	2,550	15,800	40,200	32,300	1,310	900	950
30	92	6,600	5,940	13,200	-	2,200	18,400	45,600	31,900	1,360	755	950
31	92	-	3,390	12,300	-	1,760	-	50,500	-	1,150	755	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,996	900	92	161	9,910
November	46,064	6,600	92	1,535	91,370
December	95,775	10,000	370	3,090	190,000
Calendar year 1934	1,709,721	46,400	90	4,684	3,392,000
January	137,030	13,200	900	4,420	271,800
February	245,540	19,700	1,100	8,769	487,000
March	166,480	14,800	1,360	5,370	330,200
April	148,730	18,400	950	4,958	295,000
May	1,218,500	60,700	20,300	39,310	2,417,000
June	822,140	49,400	5,610	27,400	1,631,000
July	338,400	34,700	1,150	10,920	671,200
August	42,080	2,200	755	1,357	83,460
September	56,410	7,200	665	1,880	111,900
Water year 1934-35	3,322,145	60,700	92	10,180	6,590,000

Trinity River at Romayor, Tex.

Location.- Chain gage, lat. 30°27', long. 94°15', on Gulf, Colorado & Santa Fe Railway bridge a quarter of a mile west of Romayor, Liberty County. Gage readings indicate distance from base of rail to water surface. Zero of gage (base of rail) is 89.36 feet above mean sea level (Texas Reclamation Department datum).

Drainage area.- 17,190 square miles.

Records available.- May 1924 to September 1935.

Average discharge.- 11 years, 7,063 second-feet.

Extremes.- Maximum discharge observed during year, 61,600 second-feet May 22, 23 (gage height, -19.05 feet); minimum, 257 second-feet Oct. 17, 18, 23-25.
1924-35: Maximum discharge, 61,100 second-feet May 31, 1929 (gage height, -16.3 feet); minimum, 132 second-feet Aug. 21, 22, 1925 (gage height, -53.46 feet).

Remarks.- Records fair. Small diversions above station. Regulation same as that for Trinity River at Dallas.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	980	270	10,600	6,700	10,300	2,150	2,270	18,400	49,300	29,800	1,790	1,100
2	1,050	270	9,840	3,870	7,030	1,910	2,030	18,800	51,700	31,400	1,730	1,100
3	1,050	307	8,900	2,580	5,900	1,790	1,970	25,400	52,100	32,800	1,730	1,140
4	755	345	16,300	2,030	2,650	1,610	2,270	27,200	52,100	34,200	1,790	1,190
5	555	295	13,400	1,730	2,150	7,730	2,090	33,800	51,700	35,400	2,150	1,140
6	435	295	9,600	1,550	1,790	14,000	1,850	46,300	51,700	36,000	2,030	1,790
7	405	295	8,020	1,550	1,550	14,800	1,670	55,800	50,900	36,300	1,850	2,030
8	332	295	6,200	1,670	2,150	11,600	1,440	57,400	50,900	36,000	1,850	2,270
9	307	295	4,930	2,790	2,930	12,100	1,290	56,600	50,100	34,500	1,790	2,090
10	282	295	3,550	2,580	6,970	12,500	1,140	54,900	49,300	28,100	1,790	1,910
11	282	295	3,000	2,390	9,600	13,300	1,140	52,500	47,400	17,200	1,790	1,240
12	282	295	2,390	2,330	15,600	13,600	1,670	47,000	44,400	8,470	1,730	1,390
13	282	295	1,910	1,910	18,400	12,600	2,090	41,300	39,400	5,300	1,670	1,910
14	282	295	1,490	1,610	21,600	11,400	1,970	36,300	32,500	4,390	1,790	2,270
15	282	295	1,340	1,440	21,600	8,130	1,910	31,200	21,600	4,210	2,030	4,030
16	270	295	1,340	1,440	20,500	5,500	2,150	31,700	13,400	4,210	2,030	6,100
17	257	295	1,290	1,910	19,500	3,550	3,710	35,700	9,360	4,210	1,970	6,600
18	257	295	1,290	1,340	18,100	2,650	3,630	38,400	7,360	4,030	1,610	5,700
19	282	307	1,340	1,240	17,100	2,450	2,930	47,000	9,010	2,650	1,850	4,030
20	282	846	1,550	1,240	15,600	2,270	9,640	54,500	10,100	2,510	1,850	3,230
21	270	2,300	1,610	5,260	13,100	2,510	13,100	59,900	11,100	2,510	1,790	2,390
22	270	5,200	1,790	13,600	8,900	2,330	12,800	61,200	13,000	2,510	1,790	2,030
23	257	7,140	1,730	9,840	6,300	2,150	10,100	61,600	15,200	2,650	1,670	1,670
24	257	6,700	1,670	7,580	4,210	1,910	6,500	59,900	16,800	2,790	1,240	1,390
25	257	4,390	1,730	7,360	3,230	1,730	4,210	58,700	18,800	2,650	1,140	1,240
26	270	4,030	1,910	8,900	2,790	1,550	8,800	56,600	21,200	2,510	1,000	1,190
27	270	3,870	2,210	10,100	2,450	1,490	17,800	55,400	23,200	2,450	1,000	1,140
28	270	6,700	10,800	11,400	2,270	1,440	16,300	52,500	25,400	2,210	1,000	1,100
29	270	6,920	13,100	12,400	-	1,290	14,600	50,600	28,500	2,150	1,000	1,100
30	270	9,720	10,800	13,000	-	1,910	16,000	48,500	27,600	2,090	1,000	1,240
31	270	-	8,460	12,400	-	2,330	-	48,200	-	1,970	1,050	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	11,820	1,050	257	381	23,440
November	63,445	9,720	270	2,115	126,800
December	164,090	16,300	1,290	5,293	328,500
Calendar year 1934	1,904,962	44,100	180	5,219	3,779,000
January	155,740	13,600	1,240	5,024	308,900
February	264,270	21,600	1,550	9,438	524,200
March	176,280	14,800	1,290	5,688	349,600
April	168,870	17,800	1,140	5,629	334,900
May	1,423,200	61,600	18,400	45,910	2,823,000
June	945,130	52,100	7,360	31,440	1,871,000
July	418,170	36,300	1,970	13,490	829,400
August	50,500	2,150	1,000	1,629	100,200
September	66,750	6,600	1,100	2,225	132,400
Water year 1934-35	3,906,265	61,600	257	10,700	7,746,000

Clear Fork of Trinity River at Fort Worth, Tex.

Location.- Water-stage recorder, lat. 32°44', long. 97°21', on old masonry pier 300 feet downstream from Texas & Pacific Railway bridge and 3 miles above confluence with West Fork of Trinity River. Zero of gage is 532.83 feet above mean sea level.

Drainage area.- 522 square miles.

Records available.- March 1924 to September 1935.

Average discharge.- 11 years, 75.5 second-feet.

Extremes.- Maximum discharge during year, 17,400 second-feet May 18 (gage height, 19.88 feet); no flow at times.
1924-35: Maximum discharge, 17,800 second-feet Sept. 5, 1932 (gage height, 20.08 feet); no flow at times.
Maximum discharge known, 74,300 second-feet, by slope-area method, Apr. 25, 1922, data furnished by city engineer of Fort Worth (gage height, 27.5 feet, present datum).

Remarks.- Records good except those below 50 second-feet, which are fair. Practically all low flow diverted 800 feet below gage by Texas & Pacific Railway Co. Low flow regulated by dam just above gage.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 23 to May 3)

2.50	0	2.8	36.8	3.6	380	10.0	6,560
2.55	.8	2.9	65.9	4.0	685	12.0	8,140
2.60	3.5	3.0	99.0	5.0	1,510	14.0	9,800
2.65	8.5	3.2	172	6.0	2,430	16.0	11,880
2.70	15.6	3.4	250	8.0	4,550	18.0	14,580
2.75	25.2						

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0	0	1.6	4.4	1.2	3.5	229	34	2.7	0
2		0	0	0	0	2.7	1.6	5.3	203	27	.8	0
3		0	0	0	0	1.6	1.2	4.4	124	23	.1	0
4		0	0	0	.1	311	2.1	2,900	96	21	0	0
5		0	0	0	.1	121	2.7	2,300	89	19	0	0
6		0	0	0	0	23	2.1	388	76	19	0	0
7		0	0	0	3.5	8.5	2.1	142	66	19	0	0
8		0	.4	0	34	4.4	1.2	92	63	17	0	0
9		0	0	0	126	3.6	.5	69	60	16	0	0
10		0	0	0	73	4.4	2.1	53	53	16	0	12
11		0	0	0	12	6.3	2.7	45	48	14	0	6.3
12		0	0	0	7.4	27	2.1	37	45	11	0	2.7
13		0	0	0	6.3	39	2.1	30	53	23	0	.3
14		0	0	0	11	21	2.7	201	256	17	.1	.3
15		0	0	0	6.3	14	.5	5,680	1,220	11	0	0
16		0	0	0	8.5	9.7	0	3,200	267	9.7	0	0
17		0	0	0	5.3	6.3	.2	565	166	8.5	0	0
18		0	0	0	4.4	5.3	5.9	12,900	2,660	8.5	0	0
19		0	0	190	3.5	3.5	402	6,260	848	8.5	0	0
20		44	0	721	3.5	6.3	163	824	168	8.5	0	0
21		34	0	431	5.3	90	19	533	124	8.5	0	0
22		9.7	0	48	5.3	78	12	387	102	8.5	0	0
23		.9	0	16	3.5	35	7.4	304	89	8.5	0	0
24		0	0	11	8.2	9.7	2.7	238	76	8.5	0	0
25		0	0	7.4	116	6.3	28	211	63	16	0	103
26		0	0	6.3	44	5.3	53	184	53	50	0	358
27		0	0	3.5	8.5	2.1	12	161	50	19	0	167
28		0	0	3.5	4.4	1.6	6.3	145	106	11	0	43
29		0	0	2.7		1.2	4.4	130	53	7.4	0	16
30		0	0	2.7		1.2	3.5	116	42	6.3	0	9.7
31			0	3.5		.8		106		3.5	0	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	88.6	44	0	2.95	176
December	.4	.4	0	.01	.8
Calendar year 1934	5,869.7	532	0	16.1	11,630
January	1,446.6	721	0	46.7	2,870
February	501.7	126	0	17.9	995
March	854.1	311	.8	27.6	1,690
April	746.3	402	0	24.9	1,480
May	38,214.2	12,900	3.5	1,233	75,800
June	7,348	2,660	42	245	14,570
July	477.9	50	3.5	15.4	950
August	3.7	2.7	0	.12	7.3
September	718.3	358	0	23.9	1,420
Water year 1934-35	50,399.8	12,900	0	138	99,960

Elm Fork of Trinity River near Carrollton, Tex.

Location.- Water-stage recorder, lat. 32°57'55", long. 96°56'40", at Dallas-Denton highway bridge 40 feet above Carrollton Dam and 2.3 miles northwest of Carrollton, Dallas County. Prior to Nov. 14, 1934, staff gage at same site and datum. Zero of gage is 432.23 feet above mean sea level.
Drainage area.- 2,535 square miles (revised).
Records available.- November 1923 to September 1935.
Average discharge.- 11 years (1924-35), 684 second-feet.
Extremes.- Maximum discharge during year, 82,100 second-feet May 19 (gage height, 13.00 feet); minimum, 50 second-feet Apr. 18 (gage height, 0.43 foot), caused by regulation. 1923-35: Maximum discharge, that of May 19, 1935; maximum observed prior to that date, 76,000 second-feet Dec. 14, 1923 (gage height, 12.75 feet); no flow at times.
Remarks.- Records good. No diversion above station. Flow partly regulated by Lake Dallas Reservoir (capacity, 214,000 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78	72	87	70	86	96	64	116	2,260	808	194	173
2	78	72	84	70	84	90	64	84	1,650	864	185	213
3	78	72	81	72	87	87	62	78	2,740	90	155	213
4	72	72	81	70	93	123	62	3,090	2,710	308	167	213
5	67	72	81	70	93	1,150	60	15,500	1,810	383	242	213
6	67	72	81	72	93	420	60	22,500	1,500	502	608	241
7	72	72	78	75	102	160	57	6,390	1,450	567	615	475
8	72	72	81	75	122	99	57	2,830	1,400	560	615	586
9	72	72	78	75	526	84	60	2,960	849	350	622	1,650
10	72	72	72	72	469	81	60	2,830	116	339	622	662
11	72	72	72	72	238	81	54	2,200	90	333	622	322
12	72	72	72	72	155	583	52	242	246	339	598	273
13	72	72	75	72	208	1,070	52	707	1,290	273	367	258
14	67	72	75	72	294	346	52	5,960	2,900	263	356	252
15	72	75	75	72	222	176	52	9,410	8,840	263	350	247
16	72	72	75	72	155	127	52	15,200	15,800	208	344	242
17	72	72	72	72	124	109	52	11,400	14,300	199	344	242
18	72	70	70	87	113	99	50	11,900	12,000	199	344	247
19	72	75	70	331	102	87	454	71,400	7,050	204	344	247
20	72	182	70	1,480	96	84	299	55,400	5,160	199	344	247
21	72	802	70	1,510	90	134	683	27,200	3,580	199	344	247
22	70	633	70	507	90	113	477	13,800	3,020	199	344	242
23	90	368	72	182	87	120	272	6,460	2,900	232	339	237
24	127	180	70	124	84	87	87	2,950	2,830	242	339	237
25	78	127	72	120	99	78	85	1,840	2,760	332	339	247
26	78	106	72	109	281	75	991	1,540	2,760	718	339	273
27	78	93	72	102	138	75	833	2,040	2,320	412	339	440
28	75	87	72	96	109	75	308	2,020	1,610	228	333	424
29	72	90	72	93	-	67	134	2,210	943	247	324	333
30	72	90	70	87	-	67	151	2,700	680	218	180	273
31	72	-	72	86	-	67	-	3,360	-	204	180	-

Monthly discharge, in second-feet, water years 1923-24 and 1934-35

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
November 1923	25,737	7,020	45	858	51,000
December	157,053	66,000	167	5,070	312,000
January 1924	8,503	366	192	274	16,900
February	6,312	369	150	210	12,500
March	91,727	12,200	143	2,960	182,000
April	36,460	7,520	175	1,220	72,300
May	18,693	4,150	120	603	37,100
June	3,336	609	19	111	6,620
July	1,213.7	248	3.6	39.2	2,410
August	331.0	90	2.0	10.7	657
September	73.6	6.0	2.0	2.45	146
The period	-	-	-	-	693,600
October 1934	2,327	127	67	75.1	4,620
November	4,130	802	70	138	8,190
December	2,514	87	70	74.6	4,590
Calendar year 1934	89,682	5,800	64	246	177,900
January 1935	6,139	1,510	70	198	12,180
February	4,440	526	84	159	8,810
March	6,110	1,150	67	197	12,120
April	5,796	991	50	193	11,500
May	306,317	71,400	78	9,881	607,600
June	107,564	15,800	90	3,585	213,400
July	10,482	864	90	338	20,790
August	11,438	622	155	369	22,690
September	10,169	1,650	173	339	20,170
Water year 1934-35	477,226	71,400	50	1,307	946,700

Note.- Monthly discharge for December 1923 not previously published. Monthly discharge for other months republished in order to complete record. Discharge Dec. 14, 1923, 66,000 second-feet (not previously published); Dec. 15, 1923, 36,200 second-feet (supersedes that published in Water-Supply Paper 588).

East Fork of Trinity River near Rockwall, Tex.

Location.- Chain gage, lat. 32°55'25", long. 96°30'20", on Dallas-Rockwall highway bridge 3 miles southwest of Rockwall, Rockwall County. Zero of gage is 404.2 feet above mean sea level.

Drainage area.- 831 square miles.

Records available.- November 1923 to September 1935.

Average discharge.- 12 years, 413 second-feet.

Extremes.- Maximum discharge during year, 64,800 second-feet, by slope-area method, June 16 (gage height, 23.39 feet, from flood marks); no flow at times.
1923-35: Maximum discharge, that of June 16, 1935; no flow at times.
Maximum stage known, about 25 feet in spring of 1922.

Remarks.- Records good except those above 30,000 second-feet, which are fair. Discharge partly estimated June 16. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	8.9	0	21	45	48	192	5,220	144	8.3	0
2		0	4.6	0	18	38	38	118	2,040	118	6.0	0
3		0	9.2	0	16	34	38	118	1,350	106	4.6	0
4		0	4.6	0	15	382	34	1,320	1,400	101	3.5	0
5		0	1.9	0	13	445	30	7,120	2,560	89	2.8	0
6		0	.1	0	12	290	172	22,300	2,220	101	1.9	0
7		0	0	0	16	144	286	8,850	459	76	1.3	0
8		0	0	0	55	67	113	4,260	236	72	.9	0
9		0	0	0	352	52	46	1,840	206	65	.5	39
10		0	0	1.9	393	55	34	563	192	60	.1	127
11		0	0	1.6	223	65	30	353	178	55	0	97
12		0	0	4.1	150	78	28	317	157	50	0	46
13		0	0	2.8	415	150	26	236	144	71	0	21
14		0	0	1.4	435	144	24	245	239	131	0	10
15		0	0	.7	279	106	18	671	6,950	66	0	5.2
16		0	0	.3	140	78	13	1,690	52,000	45	0	2.9
17		0	0	0	112	65	12	2,600	15,000	40	0	1.6
18		0	0	15	84	57	12	6,150	6,380	61	0	.6
19		78	0	344	67	55	108	6,180	2,580	57	0	.1
20		45	1.0	1,700	60	50	584	9,300	1,210	32	0	0
21		297	.3	1,860	52	128	980	6,500	663	38	1.0	0
22		256	.2	1,620	50	322	1,270	3,160	460	34	10	0
23		97	0	1,230	45	178	1,000	1,050	450	32	.5	0
24		41	0	273	45	90	329	460	344	28	3.7	0
25		18	0	80	43	65	163	344	281	26	1.8	1.9
26		7.6	0	57	43	55	948	290	236	26	.4	254
27		3.2	0	48	43	50	1,340	254	185	24	0	762
28		1.1	0	38	48	43	1,340	228	137	19	0	678
29		0	0	34	-	38	812	548	272	16	0	386
30		7.6	0	30	-	34	228	3,190	220	14	0	72
31		-	0	26	-	43	-	3,480	-	11	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	851.4	297	0	28.4	1,690
December	30.8	9.2	0	.99	61
Calendar year 1934	78,225.8	6,850	0	214	155,100
January	7,367.8	1,860	0	238	14,610
February	3,245	435	12	116	6,440
March	3,446	445	34	111	6,840
April	10,104	1,340	12	337	20,040
May	93,927	22,300	118	3,030	186,300
June	103,969	52,000	137	3,466	206,200
July	1,810	144	11	58.4	3,590
August	47.3	10	0	1.53	94
September	2,504.3	762	0	83.5	4,970
Water year 1934-35	227,302.6	52,000	0	623	450,800

San Jacinto River near Humble, Tex.

Location.- Chain gage, lat. 30°1'35", long. 95°15'30", at highway bridge 1,180 feet above Southern Pacific(Houston, East & West Texas) Railway bridge (revised) and 2½ miles north of Humble, Harris County.

Drainage area.- 1,811 square miles.

Records available.- October 1928 to September 1935.

Extremes.- Maximum discharge observed during year, 68,100 second-feet May 7 (gage height, 27.26 feet); minimum, 28 second-feet Oct. 28, 29.
1928-35: Maximum discharge, about 111,000 second-feet May 31, 1929 (gage height, 33.0 feet, on present gage); minimum, 14 second-feet Sept. 8-10, 1931.

Remarks.- Records fair. Discharge partly estimated July 1, 2, Aug. 4, 5. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	832	44	2,400	4,620	347	250	3,500	2,300	535	128	209	51
2	688	38	1,900	2,630	312	236	2,400	2,950	488	122	196	61
3	488	49	1,800	1,070	280	222	2,620	5,200	488	139	196	67
4	347	117	3,590	660	265	209	2,840	8,200	535	209	171	196
5	209	117	4,750	511	250	574	2,000	13,800	559	184	113	145
6	166	96	3,660	422	236	2,080	1,320	46,200	584	171	76	128
7	137	72	1,670	383	265	3,750	892	62,500	608	169	153	222
8	104	55	832	365	778	4,000	660	35,400	660	169	130	296
9	92	49	716	422	2,160	3,750	488	15,800	745	169	88	347
10	81	46	608	465	2,950	5,910	383	8,200	559	124	100	535
11	74	38	511	488	4,250	4,930	296	4,000	422	115	102	660
12	67	38	465	559	5,910	2,840	265	3,080	365	119	79	660
13	61	36	402	465	6,860	1,470	222	2,000	280	124	98	465
14	58	36	347	365	7,020	892	209	1,410	250	124	148	296
15	52	38	280	280	5,910	634	196	1,240	294	160	130	196
16	46	36	250	250	4,500	488	171	952	660	146	90	157
17	46	36	236	250	4,500	422	162	1,250	688	137	79	124
18	46	41	209	222	2,400	383	148	3,400	716	119	82	88
19	44	46	184	209	1,410	347	146	16,000	660	106	104	70
20	41	55	209	196	1,020	312	1,150	31,400	469	111	157	74
21	41	510	312	388	634	296	2,630	34,600	150	115	196	79
22	41	892	365	3,740	465	280	5,580	22,800	139	86	171	70
23	38	660	330	4,750	422	265	7,850	12,900	133	90	119	64
24	36	465	265	4,500	383	236	5,480	8,030	135	115	86	62
25	33	422	209	3,880	330	222	2,160	3,060	144	117	98	66
26	33	383	196	2,420	312	209	3,260	1,700	144	228	84	219
27	31	596	331	952	280	209	11,400	1,080	119	296	70	347
28	28	716	2,040	634	265	196	8,640	774	119	330	72	492
29	28	1,330	4,590	511	-	184	5,920	660	139	330	69	1,410
30	31	1,900	6,200	422	-	791	3,710	608	126	280	66	986
31	31	-	6,060	402	-	2,100	-	559	-	250	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,050	832	28	131	8,030
November	8,957	1,900	36	299	17,770
December	45,917	6,200	184	1,481	91,080
Calendar year 1934	405,657	23,000	21	1,111	804,600
January	37,331	4,750	196	1,204	74,040
February	54,714	7,020	236	1,954	108,500
March	38,667	5,910	184	1,248	76,730
April	76,698	11,400	146	2,557	152,100
May	346,033	62,500	559	11,160	686,300
June	11,913	745	119	397	23,630
July	5,080	330	86	164	10,080
August	3,594	209	62	116	7,130
September	8,633	1,410	51	288	17,120
Water year 1934-35	641,607	62,500	28	1,758	1,273,000

Brazos River at Seymour, Tex.

Location.- Water-stage recorder, lat. 33°34', long. 99°16', at highway bridge three-quarters of a mile above Wichita Valley Railway bridge and 1 mile southwest of courthouse in Seymour, Baylor County.

Drainage area.- 14,490 square miles, of which about 9,240 square miles is probably noncontributing.

Records available.- November 1923 to September 1935.

Average discharge.- 11 years (1924-35), 470 second-feet.

Extremes.- Maximum discharge during year, 63,000 second-feet June 2 (gage height, 11.55 feet); no flow at times.
1924-35: Maximum discharge, 79,600 second-feet, by slope-area method June 14, 1930 (gage height, 13.0 feet, from flood marks); no flow at times during each year. Maximum stage known, about 21.0 feet, occurred prior to 1916, but exact date is not known.

Remarks.- Daily records not sufficiently accurate for publication, monthly records poor. Discharge estimated Dec. 6 to Jan. 2, Apr. 25 to May 2, May 21-26, June 8-13, 21, July 3 to Aug. 15, Sept. 12-30. No diversions above station.

Monthly discharge, in second-feet, water year October 1934 to September 1935

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	614.6	141	0	19.8	1,220
November	22,930	6,310	0	764	45,480
December	1,070	126	-	34.5	2,120
Calendar year 1934	50,824.1	6,310	0	139	100,800
January	106.6	10	1.6	3.44	211
February	313.7	40	.2	11.2	622
March	4,806.9	1,000	0	155	9,530
April	10,813.4	4,820	.6	360	21,450
May	71,590	20,800	100	2,309	142,000
June	104,775	32,600	-	3,492	207,800
July	28,800	3,720	-	929	57,120
August	2,187.2	-	7.2	70.6	4,340
September	49,133.2	16,700	3.2	1,638	97,450
Water year 1934-35	297,140.6	32,600	0	814	589,300

Brazos River near Palo Pinto, Tex.

Location.- Water-stage recorder, lat. 32°51'45", long. 98°18'10", at Palo Pinto-Graford highway bridge 300 feet below Dark Valley Creek and 6.5 miles north of Palo Pinto, Palo Pinto County. Zero of gage is 831.19 feet above mean sea level.

Drainage area.- 22,760 square miles, of which about 9,240 square miles is probably noncontributing.

Records available.- November 1933 to September 1935. Comparable records January 1924 to November 1933 at station near Mineral Wells.

Extremes.- Maximum discharge during water year 1933-34, 9,320 second-feet Apr. 5 (gage height, 6.85 feet); no flow at times.
Maximum discharge during water year 1934-35, 64,900 second-feet May 20 (gage height, 15.60 feet, from drift marks); no flow Oct. 28 to Nov. 15.

Remarks.- Records good except those estimated, which are poor. Estimates based on partial gage-height record and comparison with U. S. Weather Bureau gage-height record near Mineral Wells. No large diversions above station.

Discharge, in second-feet, water year October 1933 to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	130	1,030	31	310	737	257	222		0	0
2		-	121	610	31	2,900	527	222	161		0	0
3		-	100	461	31	5,690	392	198	113		0	.1
4		-	86	670	27	2,420	1,820	188	78		0	0
5		-	86	872	26	1,550	2,130	184	52		0	0
6		-	78	561	25	1,000	1,640	147	40		0	0
7		-	67	404	25	625	669	126	31		0	0
8		-	56	333	27	451	700	108	25		0	0
9		-	50	262	52	392	920	93	19		0	2.0
10		-	54	212	46	339	461	71	15		0	.1
11		-	61	170	664	277	304	63	13		0	0
12		-	56	147	392	231	217	54	9.8		0	0
13		-	54	121	316	193	170	43	7.4		0	0
14		-	48	100	217	152	134	40	6.2		0	8.1
15		*54	*43	86	156	130	113	38	3.4		0	206
16		52	40	78	117	108	183	37	1.6		0	1,850
17		50	38	67	89	78	267	36	1.8		0	1,090
18		50	34	67	83	71	168	36	1.9		0	418
19		46	32	61	61	65	113	34	1.6		0	215
20		167	32	56	102	61	1,120	31	1.1		0	121
21		152	30	56	610	50	5,500	27	.4		0	200
22		89	30	52	368	44	3,100	25	.2		0	226
23		59	30	48	227	42	2,170	33	.2		0	552
24		156	30	46	147	59	1,370	112	.1		0	860
25		354	31	44	97	382	936	250	.1		.1	390
26		617	42	40	61	3,140	752	231	.1		0	231
27		423	46	40	54	4,970	540	262	0		0	134
28		311	46	37	44	2,460	429	134	0		0	86
29		236	54	31	-	1,070	327	191	0		0	54
30		170	216	31	-	1,020	310	293	0		0	*277
31		-	435	31	-	872	-	293	-		0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November 15-30	2,986	617	46	187	5,920
December	2,256	435	30	72.8	4,470
Calendar year					
January	6,824	1,030	31	220	13,540
February	4,106	664	25	147	8,140
March	31,182	5,690	42	1,006	61,850
April	28,219	5,500	113	941	55,970
May	3,862	293	25	125	7,660
June	804.9	222	0	26.8	1,600
July	0	0	0	0	0
August	.1	.1	0	0	.2
September	6,920.3	1,850	0	231	13,730
The period	-	-	-	-	172,900

*Estimated.

Brazos River near Palo Pinto, Tex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	293	0	*374	25	18	29	283	2,060	662	22,800	984	43
2	246	0	*283	25	17	26	231	1,060	998	16,100	654	50
3	188	0	*222	24	17	26	188	582	34,000	6,390	481	556
4	143	0	*203	24	15	25	152	2,350	13,400	* 3,790	380	8,900
5	100	0	*188	24	15	21	121	6,200	11,100	* 2,580	327	7,550
6	67	0	*179	24	14	19	104	10,300	12,600	1,750	272	9,110
7	52	0	161	24	17	171	145	4,970	18,000	1,200	227	11,500
8	42	0	143	24	21	161	794	3,600	* 5,450	912	198	5,520
9	34	0	126	23	74	86	448	2,880	* 5,210	707	170	3,510
10	27	0	108	20	152	59	283	2,120	5,860	582	143	*17,500
11	23	0	93	20	948	52	288	1,200	* 3,510	494	121	9,450
12	18	0	78	19	520	145	236	816	2,880	429	100	* 4,850
13	16	0	71	17	293	143	175	625	1,950	2,370	89	* 3,880
14	14	0	65	17	203	74	126	948	7,430	5,490	459	* 3,100
15	12	1.8	61	17	203	71	93	6,910	8,480	4,570	336	* 2,460
16	9.2	4.4	56	16	236	82	65	13,400	27,500	1,730	443	2,000
17	8.0	1.9	52	16	184	59	54	19,600	*11,800	722	259	1,250
18	6.8	1.3	48	18	143	48	46	31,200	*11,800	474	108	824
19	5.6	501	44	35	117	42	56		*10,400	595	74	610
20	3.8	435	40	126	100	37	56	*38,300	* 9,200	1,680	134	481
21	2.2	1,680	38	86	93	32	53		* 4,490	5,690	223	404
22	1.8	10,900	37	40	78	31	198		* 3,180	3,140	169	344
23	1.2	11,400	36	36	67	159	104		3,120	1,280	93	304
24	.4	5,280	36	34	59	3,380	61		3,970	5,900	67	303
25	.2	2,640	34	29	46	2,340	3,060		2,520	7,010	121	832
26	.1	1,750	31	24	38	1,570	3,440	* 4,560	4,350	3,880	310	429
27	.1	*1,290	31	24	37	790	2,290		5,720	2,910	193	310
28	0	* 920	30	25	34	520	1,600		* 3,700	2,290	117	494
29	0	* 669	29	24	-	448	1,770		* 2,230	2,400	74	344
30	0	* 487	26	21	-	474	1,540	1,200	10,100	1,350	54	262
31	0	-	25	20	-	350	-	745	-	1,460	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,314.4	293	0	42.4	2,610
November	37,961.4	11,400	0	1,265	75,300
December	2,948	374	25	95.1	5,850
Calendar year 1934	124,142.1	11,400	0	340	246,300
January	901	126	16	29.1	1,790
February	3,759	948	14	134	7,460
March	11,470	3,380	19	370	22,750
April	18,060	3,440	46	602	35,820
May	264,146	-	582	8,521	523,900
June	245,610	34,000	662	8,187	487,200
July	113,175	22,800	429	3,651	224,500
August	7,426	984	46	240	14,730
September	97,170	17,500	43	3,239	192,700
Water year 1934-35	803,940.8	-	0	2,203	1,595,000

*Estimated.

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Brazos River near Glen Rose, Tex.

Location.- Water-stage recorder, lat. 32°15'40", long. 97°41'50", a quarter of a mile above Glen Rose-Cleburne highway bridge, 2 miles above Paluxy Creek, and 4 miles northeast of Glen Rose, Somervell County.

Drainage area.- 24,840 square miles, of which about 9,240 square miles is probably noncontributing.

Records available.- October 1923 to September 1935.

Average discharge.- 12 years, 1,707 second-feet.

Extremes.- Maximum discharge during year, 97,600 second-feet May 18 (gage height, 23.68 feet, from flood marks); minimum, 0.8 second-foot Nov. 13-14 (gage height, 0.34 foot.
1923-35: Maximum discharge, that of May 18, 1935; no flow at times.

Remarks.- Records good except those for May 23 to June 24, June 29 to July 10, and Sept. 5-30, which are poor and were computed from one daily gage reading furnished by U. S. Weather Bureau. No large diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	199	4.0	886	55	85	141	582	2,460	3,410	5,670	2,260	199
2	155	4.0	709	52	75	115	519	1,820	3,520	20,000	1,760	155
3	122	10	600	50	68	99	501	1,700	4,060	15,300	1,450	398
4	103	6.0	510	50	58	216	419	11,000	18,000	7,980	1,140	175
5	138	5.0	451	47	52	371	341	21,300	15,600	6,080	898	4,890
6	223	4.0	411	47	52	355	295	10,600	11,800	4,760	719	6,720
7	199	3.0	356	55	65	155	229	10,400	17,400	3,520	600	5,720
8	165	3.0	318	58	117	107	205	5,360	20,200	2,540	510	12,500
9	136	3.0	280	55	222	96	170	4,280	9,140	1,860	435	8,110
10	115	2.0	242	50	276	88	175	3,730	6,440	1,450	379	4,540
11	99	1.0	217	44	709	81	155	3,000	7,200	1,190	333	13,500
12	85	1.0	193	42	519	78	465	2,540	7,460	934	288	9,240
13	78	.8	181	42	411	195	451	1,940	6,080	874	229	4,760
14	78	.8	165	39	335	265	333	1,410	4,400	699	211	3,840
15	68	1.0	150	39	750	235	265	12,600	3,200	877	228	4,060
16	138	1.0	150	39	544	193	258	25,300	3,600	5,740	329	3,950
17	92	2.0	150	39	395	160	217	13,400	19,900	4,710	223	2,720
18	62	3.0	136	47	302	160	187	67,400	14,400	2,810	925	2,190
19	47	32	126	62	235	136	417	57,700	13,000	1,850	582	1,730
20	39	85	115	5,690	223	134	785	38,300	9,820	1,190	403	1,350
21	36	111	103	4,430	223	295	519	35,100	9,820	886	419	1,020
22	28	196	96	1,740	193	155	562	18,600	7,200	1,050	356	840
23	23	2,940	88	880	165	107	387	14,300	5,720	4,340	235	699
24	18	9,780	88	485	146	208	250	11,200	5,000	4,200	170	620
25	14	5,420	81	364	141	187	229	9,020	4,280	4,320	461	600
26	12	3,260	75	258	223	118	280	6,680	5,720	9,080	395	3,120
27	10	2,460	72	187	229	1,430	270	4,880	4,400	4,880	242	2,620
28	10	1,820	72	146	199	1,860	3,650	3,620	6,540	3,620	175	1,420
29	8.0	1,490	68	118	-	1,440	3,640	3,100	5,960	3,410	141	840
30	6.0	1,150	62	103	-	970	4,440	3,840	3,420	2,380	122	620
31	5.0	-	62	96	-	719	-	3,410	-	2,380	223	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,511.0	223	5.0	81.0	4,980
November	28,798.8	9,780	.8	960	57,120
December	7,213	886	62	233	14,310
Calendar year 1934	143,941.9	9,780	0	394	285,500
January	15,409	5,690	39	497	30,560
February	7,012	750	52	250	13,910
March	10,869	1,860	78	351	21,560
April	21,196	4,440	155	707	42,040
May	410,190	67,400	1,410	13,230	813,600
June	256,690	20,200	3,200	8,556	509,100
July	130,580	20,000	699	4,212	259,000
August	16,841	2,260	122	543	33,400
September	103,146	13,500	155	3,438	204,600
Water year 1934-35	1,010,455.6	67,400	.8	2,768	2,004,000

Brazos River at Waco, Tex.

Location.- Water-stage recorder, lat. 31°33'40", long. 97°07'45", at Washington Avenue Bridge, in Waco, McLennan County, 2½ miles below Bosque River. Zero of gage is 357.10 feet above mean sea level (revised by general adjustment of 1929). Prior to Oct. 3, 1934, water-stage recorder 300 feet downstream at same datum.

Drainage area.- 28,500 square miles, of which about 9,240 square miles is probably non-contributing.

Records available.- September 1898 to December 1911, October 1914 to September 1935.

Average discharge.- 34 years, 2,599 second-feet.

Extremes.- Maximum discharge during year, 112,000 second-feet May 19 (gage height, 34.90 feet); minimum, 12 second-feet at times Nov. 11-14.
1898-1911, 1914-35: Maximum discharge recorded, about 134,000 second-feet May 25, 1908 (gage height, 36.7 feet); no flow Aug. 20, 21, 1918, and probably for several days in August 1923.
Maximum stage known, 39.7 feet Dec. 3, 1913.

Remarks.- Records fair. Gage-height record Dec. 21 to Jan. 4, Jan. 29 to Feb. 4, July 13, Sept. 6-10, and 25-27, based on once-daily readings furnished by U. S. Weather Bureau. Numerous small diversions above station do not appreciably affect flow except during low stages. Flow slightly regulated by Lake Waco, on the North Bosque River, near Waco.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	472	26	1,610	109	199	302	947	5,780	5,330	3,490	2,930	186
2	342	31	1,300	104	180	320	704	5,300	3,840	8,500	2,930	112
3	247	60	1,020	98	165	323	558	2,860	5,250	18,800	2,760	270
4	188	32	823	92	160	1,620	472	26,800	7,170	12,100	2,420	413
5	148	31	710	88	150	1,310	446	59,400	24,200	7,020	2,150	602
6	120	24	623	88	138	3,620	429	35,600	14,000	4,690	1,770	2,420
7	98	19	543	126	143	1,730	747	12,500	12,300	3,840	1,550	7,510
8	81	16	485	100	668	877	346	10,700	18,100	3,260	1,290	13,300
9	126	16	433	100	13,800	640	273	6,500	15,500	2,760	1,140	27,500
10	160	15	380	96	5,690	517	257	6,180	7,170	2,320	1,020	11,100
11	143	13	338	96	3,630	463	918	6,850	5,240	1,980	753	6,450
12	124	13	309	96	940	417	716	4,310	6,680	1,710	601	13,700
13	111	12	284	113	1,280	323	280	3,720	6,020	3,820	506	7,740
14	98	13	267	86	926	208	194	4,470	4,690	1,600	478	5,240
15	90	17	247	84	2,360	185	372	11,900	23,400	1,310	409	4,560
16	152	20	225	83	1,330	219	338	35,800	32,200	1,110	327	4,690
17	117	36	225	83	969	309	273	26,100	23,400	2,770	924	4,560
18	90	48	216	81	884	298	238	55,600	21,800	4,680	434	3,840
19	81	295	241	167	674	275	238	103,000	20,000	3,490	401	3,260
20	102	2,560	199	612	548	236	2,080	65,800	13,500	2,930	630	2,820
21	100	6,090	188	9,020	467	247	3,250	51,000	12,000	2,420	1,200	2,480
22	81	1,280	188	5,890	417	235	1,180	40,900	12,900	1,880	650	2,040
23	70	433	188	2,480	396	437	612	24,600	7,780	2,470	630	1,710
24	60	2,500	180	1,700	380	421	538	23,100	4,820	2,340	630	1,500
25	50	12,400	160	1,100	346	291	2,320	19,700	4,980	5,260	550	1,650
26	47	6,760	126	710	302	222	13,000	12,100	3,380	5,010	361	13,600
27	40	4,040	117	522	277	225	3,390	6,940	4,070	7,340	212	6,270
28	39	2,800	202	412	264	250	947	5,920	3,720	5,240	492	3,490
29	36	2,410	136	338	-	647	12,900	4,310	5,260	3,950	376	2,930
30	31	1,950	109	277	-	1,660	8,110	3,720	5,060	3,720	352	2,650
31	29	-	109	232	-	1,350	-	3,840	-	3,380	176	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,673	472	29	118	7,290
November	43,960	12,400	12	1,465	87,190
December	12,181	1,610	109	393	24,160
Calendar year 1934	376,798.5	32,200	8.0	1,032	747,400
January	25,183	9,020	81	812	49,950
February	37,683	13,800	138	1,346	74,740
March	20,177	3,620	185	651	40,020
April	57,073	13,000	194	1,902	113,200
May	685,300	103,000	2,860	22,110	1,359,000
June	333,760	32,200	3,380	11,130	662,000
July	135,190	18,800	1,110	4,361	268,100
August	31,152	2,930	176	1,005	61,790
September	158,593	27,500	112	5,286	314,600
Water year 1934-35	1,543,925	103,000	12	4,230	3,062,000

Brazos River near Bryan, Tex.

Location.- Water-stage recorder, lat. 30°37', long. 96°29', 2.4 miles below mouth of Little Brazos River and 9 miles southwest of Bryan, Brazos County. Zero of gage is 192.2 feet above mean sea level.

Drainage area.- 38,430 square miles, of which about 9,240 square miles is probably noncontributing.

Records available.- September 1925 to September 1935. Comparable records at former station near College Station, 7½ miles downstream, February 1918 to September 1925.

Average discharge.- 14 years (1918-20, 1921-24, 1926-35), 6,071 second-feet.

Extremes.- Maximum discharge during year, 139,000 second-feet May 22 (gage height, 42.30 feet); minimum, 109 second-feet Nov. 2.
1925-35: Maximum stage observed, 46.1 feet, present gage, May 20, 1930 (discharge not determined); minimum discharge, 87 second-feet Aug. 24, 1934.
Maximum stage of about 54.0 feet (present gage datum) occurred in December 1913.

Remarks.- Records fair except those estimated, which are poor. Estimates based on comparison with U. S. Weather Bureau gage heights of Valley Junction. Numerous small diversions above gage do not appreciably affect the flow except during low stages.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	440	113	2,830	554	778	*810	1,050	8,620	5,750	7,550		972
2	350	115	2,610	462	674	*778	1,560	* 5,600	6,610	5,910		972
3	318	119	2,410	370	608	*745	2,220	* 5,450		9,100		1,140
4	500	117	2,000	327	560	*936	2,000	* 6,420		*17,800		1,220
5	494	840	1,730	300	542	*894	1,800	32,700		13,100		1,630
6	410	924	1,480	293	518	1,930	1,110	65,700		8,780	*3,070	2,660
7	336	432	1,260	520	489	4,050	934	69,000		6,590		3,270
8	293	276	1,080	465	462	5,030	86e	44,300		5,600		12,100
9	265	212	940	350	3,050	3,530	1,000	26,000	*12,700	* 4,e90		23,800
10	240	173	849	415	16,500	2,260	1,040	13,500		4,330		34,400
11	218	152	764	450	16,200	1,730	784	* 9,640		3,790	*1,600	25,200
12	200	139	706	375	16,500	1,330	638	*12,600		3,290	1,480	20,900
13	200	127	656	318	15,000	1,180	596	* 7,700		2,940	1,370	24,300
14	230	123	596	282	11,400	1,080	1,080	* 5,450		3,560	1,300	15,100
15	227	121	554	272	7,340	972	868	* 6,610		4,180	1,180	9,540
16	215	208	518	265	4,890	*862	620	*18,200		2,720	1,140	7,750
17	203	2,950	542	251	4,050		518	*43,000		2,360	1,110	*6,960
18	191	2,420	1,890	248	2,760		602	*56,500		2,180	1,110	
19	179	1,860	1,960	244	2,000		693	*73,300	*38,900	4,390	1,080	
20	185	1,710	1,300	734	1,e20		901	103,000		4,470	1,220	
21	191	8,350	940	1,260	1,600		836	129,000		3,790	1,040	*4,050
22	170	14,100	719	4,200	1,370		1,620	127,000		3,290	1,000	
23	158	8,830	584	5,750	1,180	*591	2,510	88,600		2,940	1,180	
24	150	3,950	478	3,600	1,110		1,770	53,000	*17,900	2,660	1,300	
25	155	2,360	430	2,730	1,000		1,260	35,200		3,450	1,110	
26	152	6,130	390	2,180	*908		3,500	27,300		6,150	1,080	
27	143	5,910	1,770	1,640	*875		11,700	20,100	7,950	6,420	1,040	
28	135	4,330	1,800	1,300	*849		9,400	16,000	7,150	8,280	1,040	*11,500
29	127	3,530	900	1,140	-		6,920	13,700	7,550		940	
30	123	3,170	1,080	1,040	-	*500	10,400	7,950	6,240	* 3,070	1,140	
31	119	-	706	901	-	500	-	6,070	-		1,000	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,317	500	119	236	14,510
November	73,791	14,100	113	2,460	146,400
December	36,472	2,830	390	1,177	72,340
Calendar year 1934	997,239	74,400	89	2,732	1,978,000
January	33,286	5,750	244	1,074	66,020
February	115,033	16,500	462	4,108	228,200
March	36,800	5,030	500	1,187	72,990
April	70,796	11,700	518	2,360	140,400
May	1,137,210	129,000	5,450	36,680	2,256,000
June	529,250	-	-	17,640	1,050,000
July	163,700	17,800	2,180	5,281	324,700
August	55,160	-	940	1,779	109,400
September	281,814	34,400	972	9,394	559,000
Water year 1934-35	2,540,631	129,000	113	6,961	5,040,000

*Estimated.

Brazos River at Richmond, Tex.

Location.- Water-stage recorder, lat. 29°35', long. 95°45', on highway bridge in Richmond, Fort Bend County, about 1,500 feet downstream from Galveston, Harrisburg & San Antonio Railway bridge. Zero of gage is 40.8 feet above mean sea level.

Drainage area.- 44,050 square miles (revised), of which about 9,240 square miles is probably noncontributing.

Records available.- January 1903 to June 1906, June 1931 to September 1935. October 1922 to September 1931 comparable records obtained at Rosenberg, 7.6 miles upstream, except for diversion by Richmond Irrigation Co.'s canal.

Extremes.- Maximum discharge during year, 90,900 second-feet May 27 (gage height, 36.12 feet); minimum, 307 second-feet Nov. 10.

1903-6, 1931-35: Maximum discharge, that of May 27, 1935; minimum, 33 second-feet Aug. 23, 24, 1934.

Flood of June 6, 1929, reached a stage of 40.6 feet, present gage datum (discharge, 120,000 second-feet). Flood of December 1913 reached a stage of 45.4 feet, present gage datum (discharge not determined).

Remarks.- Records good. Gage-height record Feb. 5-10, Mar. 26-29, and July 9-15 based on once-daily readings furnished by U. S. Weather Bureau. Considerable water diverted above station for irrigation and municipal use. (See records of Brazos Valley Irrigation Co.'s canal near Fulshear and Richmond Irrigation Co.'s canal near Richmond.)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,400	332	7,420	7,600	2,400	3,370	2,930	9,660	22,100	10,200	6,850	1,380
2	1,560	350	6,540	6,880	2,160	2,720	2,310	10,500	17,600	9,530	5,710	1,430
3	1,180	386	6,540	5,920	1,920	2,310	1,920	14,200	15,000	9,970	4,980	1,700
4	1,020	350	6,710	4,870	1,660	2,020	2,060	18,000	14,100	9,530	4,570	1,880
5	924	332	5,770	3,870	1,450	1,880	3,150	30,600	18,700	11,700	4,060	1,760
6	798	332	4,720	3,040	1,260	4,720	3,870	68,500	17,800	17,800	3,500	1,640
7	718	324	4,290	2,500	1,160	5,620	3,740	79,400	22,200	14,400	3,300	1,890
8	636	320	3,870	2,110	1,160	4,570	3,610	80,900	28,000	10,600	3,120	2,240
9	615	311	3,370	1,830	1,260	4,010	2,930	80,900	22,400	8,500	2,850	2,900
10	954	337	2,930	1,700	1,610	9,660	2,210	71,300	17,500	7,190	2,670	10,400
11	723	601	2,560	1,780	4,320	8,710	1,880	58,000	18,100	6,340	2,490	27,900
12	641	631	2,310	1,780	19,000	5,920	1,700	40,300	16,400	5,560	2,240	35,000
13	581	546	2,060	1,570	22,800	4,430	1,610	28,800	11,600	4,840	2,160	27,600
14	531	493	1,830	1,450	23,400	3,610	1,570	24,600	9,320	4,310	2,020	25,700
15	507	451	1,660	1,370	21,000	3,150	1,450	19,000	8,300	4,160	1,950	24,600
16	470	507	1,450	1,340	17,300	2,930	1,300	14,700	8,700	3,940	1,820	16,700
17	432	507	1,340	1,340	14,200	2,930	1,260	14,400	10,700	4,180	1,760	11,600
18	414	460	1,230	1,300	12,500	2,820	1,410	33,600	35,900	4,570	1,700	9,320
19	404	416	1,190	1,230	11,100	2,720	1,530	60,500	56,200	3,710	1,640	7,730
20	414	456	1,190	1,230	10,100	2,450	2,330	76,900	64,300	3,210	1,580	6,850
21	404	1,780	1,460	1,300	8,900	2,110	6,290	82,700	64,000	3,120	1,520	6,180
22	395	3,300	2,560	3,560	7,960	1,780	5,920	84,100	51,000	4,060	1,490	5,560
23	581	4,180	2,400	4,870	7,420	1,530	4,430	85,200	31,600	4,840	1,520	4,840
24	372	12,500	1,920	4,870	6,710	1,410	3,370	86,200	28,000	4,700	1,580	4,310
25	359	11,600	1,530	7,420	6,220	1,370	2,820	88,000	26,700	4,180	1,560	3,940
26	350	8,160	1,260	7,420	5,620	1,260	3,800	89,400	22,800	3,820	1,400	4,060
27	346	6,070	1,490	5,920	4,870	1,190	6,220	90,900	18,400	3,500	1,460	3,940
28	350	5,620	5,580	4,720	4,150	1,120	6,220	85,500	14,400	3,820	1,520	4,240
29	346	7,960	10,700	3,870	-	1,120	9,910	66,500	11,600	6,340	1,400	11,100
30	341	8,520	9,850	3,260	-	2,540	11,800	44,400	10,200	8,500	1,350	14,700
31	332	-	8,140	2,720	-	3,490	-	30,800	-	8,300	1,350	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	18,898	1,560	332	610	37,480
November	78,134	12,500	311	2,604	155,000
December	115,890	10,700	1,190	3,738	229,900
Calendar year 1934	1,841,769	71,000	35	5,046	3,653,000
January	104,660	7,600	1,230	3,376	207,600
February	223,610	23,400	1,160	7,986	443,500
March	99,470	9,660	1,120	3,209	197,300
April	105,250	11,600	1,260	3,508	208,800
May	1,668,460	90,900	9,660	53,820	3,309,000
June	713,820	64,300	8,500	23,790	1,416,000
July	209,440	17,800	3,120	6,756	415,400
August	77,140	6,850	1,350	2,488	153,000
September	283,090	35,000	1,380	9,436	561,500
Water year 1934-35	3,697,862	90,900	311	10,130	7,334,000

Clear Fork of Brazos River at Nugent, Tex.

Location.- Water-stage recorder, lat. 32°41', long. 99°40', at highway bridge in Nugent, Jones County.

Drainage area.- 2,220 square miles.

Records available.- February 1924 to September 1935.

Average discharge.- 11 years, 196 second-feet.

Extremes.- Maximum discharge during year, 16,100 second-feet June 2 (gage height, 22.43 feet); minimum, 1.1 second-feet Nov. 8.
1924-35: Maximum discharge observed, about 47,000 second-feet Sept. 8, 1932 (gage height, 27.05 feet, former site); no flow at times.

Remarks.- Records good except those for period when gage-height record was partly estimated, Mar. 8, 9, and Sept. 9-15, and those above 200 second-feet, which are fair. Small diversions above station for municipal use and mining.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	1.5	9.1	6.4	6.4	7.0	5.9	5.3	1,970	79	36	15
2	1.9	1.6	8.6	6.4	5.9	7.0	5.9	5.3	11,000	75	32	354
3	2.2	1.4	8.0	6.4	5.9	7.5	7.0	4.8	7,580	74	30	3,210
4	1.9	1.4	8.0	5.9	5.9	8.0	162	52	1,750	72	29	3,840
5	1.6	1.5	8.0	5.9	5.9	8.0	578	423	615	69	28	1,000
6	1.9	1.5	8.0	5.9	8.0	8.0	72	1,140	3,640	66	28	855
7	1.9	1.3	8.0	5.9	21	6.4	22	107	3,360	64	27	351
8	2.2	1.1	8.0	6.4	76	4.8	20	41	978	64	26	134
9	2.2	1.2	7.5	6.4	211	4.8	14	22	273	62	26	1,360
10	2.2	1.5	7.5	6.4	74	4.8	12	180	158	61	26	1,810
11	2.2	1.9	7.5	6.4	30	6.4	10	1,300	112	59	25	955
12	2.2	2.2	7.5	6.4	33	8.0	8.6	366	98	58	25	698
13	2.6	1.6	7.5	6.4	26	7.5	8.0	33	572	58	25	152
14	2.9	2.9	7.5	6.4	30	7.5	7.5	117	1,330	66	25	91
15	2.9	180	7.5	6.4	14	7.0	7.0	1,600	5,980	90	25	72
16	2.9	142	8.0	6.4	13	5.9	6.4	5,220	8,380	61	25	66
17	3.2	94	8.0	5.9	11	5.9	5.9	3,890	2,760	55	22	59
18	2.9	25	8.0	5.9	10	5.9	4.8	9,920	634	50	21	55
19	2.9	12	7.5	5.9	9.7	4.8	7.0	9,140	355	61	21	53
20	3.8	1,990	7.5	6.4	9.7	4.8	304	1,540	195	56	20	52
21	3.2	1,630	7.5	6.4	9.1	5.3	183	209	156	67	17	52
22	2.9	425	7.5	6.4	9.1	5.9	78	100	135	89	18	52
23	2.2	97	7.5	6.4	8.6	5.9	33	639	122	108	18	52
24	1.9	26	7.5	6.4	8.6	5.9	25	944	112	701	16	50
25	1.6	17	7.5	6.4	8.0	5.9	19	1,040	102	823	16	62
26	1.6	14	7.5	6.4	7.5	9.1	13	125	98	266	16	75
27	1.5	12	7.0	6.4	7.0	13	9.7	64	95	102	25	86
28	1.5	917	7.0	6.4	7.0	9.1	7.5	50	91	62	22	86
29	1.5	9.7	7.0	6.4	-	8.6	6.4	43	97	46	18	79
30	1.5	9.1	7.0	6.4	-	7.5	5.9	38	84	41	16	75
31	1.5	-	7.0	6.4	-	7.0	-	37	-	38	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	69.3	3.8	1.5	2.24	137
November	4,715.1	1,990	1.1	157	9,350
December	237.2	9.1	7.0	7.65	470
Calendar year 1934	10,804.5	1,990	.2	29.6	21,430
January	194.9	6.4	5.9	6.29	387
February	671.3	211	5.9	24.0	1,330
March	213.2	13	4.8	6.88	423
April	1,648.5	578	4.8	54.9	3,270
May	38,395.4	9,920	4.8	1,239	76,160
June	52,832	11,000	84	1,761	104,800
July	3,643	823	38	118	7,230
August	718	36	14	23.2	1,420
September	15,851	3,840	15	528	31,440
Water year 1934-35	119,188.9	11,000	1.1	327	236,400

Clear Fork of Brazos River at Fort Griffin, Tex.

Location.- Water-stage recorder, lat. 32°56', long. 99°13', at old Fort Griffin-Throckmorton highway bridge half a mile east of Fort Griffin, Shackelford County.

Drainage area.- 3,974 square miles.

Records available.- December 1923 to September 1935.

Average discharge.- 11 years (1924-35), 320 second-feet.

Extremes.- Maximum discharge during year, 18,600 second-feet May 20 (gage height, 32.07 feet); no flow Oct. 1 to Nov. 18.
1923-35: Maximum discharge, 33,600 second-feet Sept. 10, 1932 (gage height, 35.09 feet); no flow at times.

Remarks.- Records good. Small diversions above station for municipal and irrigation uses.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	14	1.9	1.6	2.7	1.9	25	2,320	3,160	60	10
2		0	12	1.7	1.6	2.7	36	21	6,910	1,450	46	38
3		0	10	1.6	1.3	2.7	48	14	9,070	398	38	357
4		0	7.0	1.4	1.2	3.0	16	337	14,000	182	36	3,320
5		0	5.0	1.2	1.1	2.4	9.2	1,580	4,910	143	33	5,440
6		0	3.4	1.2	1.1	2.2	32	1,580	915	123	32	2,180
7		0	2.5	1.1	2.0	1.9	352	1,490	3,180	109	27	1,040
8		0	1.9	1.0	4.3	1.7	120	583	4,060	100	25	645
9		0	1.6	.9	23	1.7	59	176	1,320	92	24	350
10		0	1.2	.8	41	1.7	37	380	591	87	23	1,150
11		0	1.4	.6	204	1.6	24	217	341	84	23	2,930
12		0	1.6	.6	130	1.6	16	796	226	78	23	1,770
13		0	1.6	.5	89	1.4	12	765	866	76	22	1,040
14		0	1.3	.4	64	2.0	9.2	187	662	73	22	559
15		0	1.2	.4	60	3.0	6.2	518	1,090	70	21	207
16		0	1.0	.4	54	2.7	5.0	4,470	4,550	65	21	145
17		0	.9	.2	45	2.4	4.2	6,420	9,730	62	20	116
18		0	1.0	.4	35	2.2	4.2	10,600	5,320	65	21	100
19		87	1.0	.8	26	2.5	5.0	16,400	1,580	67	19	94
20		393	1.0	1.2	20	2.7	4.2	18,200	690	68	18	84
21		1,690	.8	1.2	16	2.5	3.4	8,730	470	70	16	76
22		2,300	.7	1.4	12	533	48	727	290	67	16	70
23		560	.6	1.3	9.2	434	162	407	230	68	16	65
24		446	.7	1.3	8.1	116	87	747	189	68	14	68
25		158	.7	1.2	5.8	54	78	1,600	760	544	16	75
26		80	.7	1.1	4.6	29	53	1,580	645	802	14	119
27		46	.7	1.0	3.4	17	30	566	215	600	17	249
28		29	2.2	1.0	2.8	10	129	222	178	362	17	181
29		23	2.8	1.3	-	6.2	125	155	7,600	157	14	155
30		18	2.4	1.6	-	4.2	24	118	6,030	102	12	102
31		-	2.2	1.6	-	2.5	-	102	-	76	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	5,830	2,300	0	194	11,560
December	85.2	14	.6	2.75	169
Calendar year 1934	17,685.7	2,300	0	48.5	35,070
January	32.3	1.9	.2	1.04	64
February	867.1	204	1.1	31.0	1,720
March	1,253.2	533	1.4	40.4	2,490
April	1,540.5	352	1.9	51.3	3,060
May	79,935	18,200	14	2,579	158,500
June	89,758	14,000	178	2,992	178,000
July	9,468	3,160	62	305	18,780
August	717	60	11	23.1	1,420
September	22,737	5,440	10	758	45,100
Water year 1934-35	212,223.3	18,200	0	581	421,000

Clear Fork of Brazos River near Crystal Falls, Tex.

Location.- Water-stage recorder, lat. 32°54', long. 98°50', at Texas Co.'s pumping plant 2½ miles below Hubbard Creek and 3¼ miles northeast of Crystal Falls, Stephens County.

Drainage area.- 5,658 square miles (revised).

Records available.- July 1928 to September 1935.

Extremes.- Maximum discharge during year, 16,600 second-feet May 19 (gage height, 23.68 feet); no flow at times.
1928-35: Maximum discharge, 22,700 second-feet Sept. 8, 1932 (gage height, 28.10 feet, on present gage); no flow at times.
Maximum stage known, about 34.0 feet (present datum) in 1900.

Remarks.- Records good. Large part of ordinary flow diverted above station for municipal use and mining. Low-water flow partly regulated by dams above gage.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Mar. 4-22, Sept. 17-30)

2.25	1.5	2.8	148	4.5	1,190	11.0	6,310
2.3	5.5	3.0	227	5.0	1,590	13.0	7,710
2.35	12.5	3.2	313	6.0	2,400	15.0	9,210
2.4	22	3.4	413	7.0	3,240	17.0	10,760
2.5	46	3.6	530	8.0	4,040	19.0	12,450
2.6	74	3.8	665	9.0	4,830	21.0	14,150
2.7	109	4.0	810	10.0	5,580	23.0	15,950

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	22	0	0.5	16	8.3	57	1,580	10,300	95	16
2		0	20	0	0	16	6.9	32	4,040	2,930	71	32
3		0	14	0	0	15	5.5	29	6,730	1,190	60	3,790
4		0	11	0	0	265	67	441	8,380	347	49	5,070
5		0	9.7	0	0	39	49	2,230	11,400	227	44	3,640
6		0	8.3	0	0	9.7	24	1,830	8,430	183	41	5,940
7		0	5.5	0	0	5.5	26	1,550	1,040	156	39	2,270
8		0	3.9	0	111	5.5	282	1,330	3,710	136	34	1,060
9		0	3.1	0	1,140	5.5	130	*390	3,350	121	29	2,260
10		0	1.5	0	145	4.7	68	179	1,070	109	27	1,070
11		0	1.5	0	57	9.7	41	338	484	98	24	1,720
12		0	1.0	0	195	36	29	227	336	94	22	2,910
13		0	.5	0	160	24	22	1,020	2,750	2,560	22	1,500
14		0	0	0	106	8.3	20	1,480	1,940	1,240	22	998
15		0	0	0	84	3.9	16	5,120	1,380	216	22	408
16		0	0	0	66	2.3	11	9,740	6,780	125	24	203
17		0	0	0	66	1.5	9.7	6,390	6,920	92	20	140
18		0	0	0	60	4.7	8.3	10,900	8,920	169	18	109
19		0	0	0	54	6.9	18	15,700	6,710	984	18	88
20		20	0	0	46	4.7	12	12,800	1,160	3,260	16	74
21		672	0	12	36	4.7	6.9	14,500	623	351	16	66
22		2,100	0	16	34	5.5	3.9	14,600	419	177	284	57
23		1,560	0	5.5	27	505	3.9	1,560	309	240	237	54
24		436	0	3.1	24	306	121	554	265	303	54	54
25		313	0	1.5	20	125	240	1,410	227	1,200	36	317
26		140	0	1.5	14	68	269	1,590	918	925	29	244
27		74	0	1.0	14	54	156	1,370	547	934	29	116
28		57	0	.5	16	32	328	456	261	556	24	218
29		44	0	.5	-	22	641	248	3,340	330	18	156
30		32	0	.5	-	16	151	187	12,600	187	16	148
31		-	0	.5	-	12	-	152	-	128	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	5,448	2,100	0	182	10,810
December	102.0	22	0	3.29	202
Calendar year 1934	29,556.9	3,770	0	81.0	58,630
January	42.6	16	0	1.37	84
February	2,475.5	1,140	0	88.4	4,910
March	1,634.1	505	1.5	52.7	3,240
April	2,774.4	641	3.9	92.5	5,500
May	108,410	15,700	29	3,497	215,000
June	106,619	12,600	227	3,554	211,500
July	29,868	10,300	92	963	59,240
August	1,456	284	16	47.0	2,890
September	34,728	5,940	16	1,158	68,880
Water year 1934-35	293,557.6	15,700	0	804	582,300

North Bosque River near Clifton, Tex.

Location.- Staff gage, lat. 31°48', long. 97°35', a quarter of a mile above Gulf, Colorado & Santa Fe Railway bridge and 1.4 miles northwest of Clifton, Bosque County.

Drainage area.- 974 square miles.

Records available.- November 1923 to September 1935.

Average discharge.- 12 years, 157 second-feet.

Extremes.- Maximum discharge during water year 1934-35, 38,300 second-feet May 18 (gage height, 21.3 feet, from flood marks); no flow Oct. 20 to Nov. 14.
1923-35: Maximum discharge, that of May 18, 1935; no flow at times. Revised maximum discharge for years ending Sept. 30, 1924-33, appear in table of revised discharge below.

Remarks.- Records good below and fair above 10,000 second-feet. Railway company pumps about 100,000 gallons a day above control dam a third of a mile below gage.

Revised discharge in second-feet, for high-water periods in 1923-33

1923		1926		1928		1929	
Dec. 12	1,810	Apr. 21	1,570	Apr. 5	1,500	Sept. 9	740
13	3,810	22	1,260	May 17	1,020		
1924		24	1,340	19	3,950	1930	
Mar. 13	4,060	May 9	1,120	June 1	918	May 18	*20,800
17	2,340	10	2,520	4	6,020	19	634
20	2,520	June 5	1,500	5	1,210	Oct. 6	15,600
Apr. 26	7,540	July 22	778	14	1,250	6	*28,000
26	*16,400	1927		15	4,980	7	3,180
1925		Apr. 21	990	16	1,810	1931	
May 10	3,290	May 12	1,180	Aug. 4	2,600	May 22	4,800
10	*7,760	13	7,680	5	950	Sept. 2	523
Oct. 16	4,210	13	*17,600	1929		3	2,100
17	904	June 13	782	Feb. 26	758	1932	
Nov. 7	1,670	22	1,540	Apr. 9	1,100	Feb. 16	7,430
8	685	23	2,630	13	4,880	18	11,100
1926		Oct. 2	3,530	20	3,310	18	*26,400
Mar. 21	1,520	1928		24	1,300	1933	
Apr. 9	370	Feb. 22	1,400	25	1,460	Mar. 30	5,420
10	6,360	Apr. 3	1,280	May 25	620	31	4,550
10	*10.400	4	3,010	26	7,400	May 25	11,300
		4	*14.200	Sept. e	20,200	25	*23,800
				8	*28,800		

*Maximum crest discharge for water year in which it occurs.
Note.- Above figures supersede those previously published.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Dec. 23 to Jan. 4)

0.2	0.1	.80	40	3.00	2,000	8.00	12,700
.3	.4	1.00	89	3.50	2,750	9.00	15,150
.4	.8	1.30	217	4.00	3,610	10.0	17,210
.50	2.0	1.60	420	5.00	5,590	12.0	20,850
.60	9.4	2.00	780	6.00	7,760	14.0	24,100
.70	23	2.50	1,340	7.00	10,200	16.0	27,450

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0	3.1	1.4	6.6	4.2	4.8	42	80	3e	21	14
2	.6	0	2.0	1.1	6.6	4.2	4.2	37	138	35	18	11
3	.5	0	2.0	1.0	6.6	3.7	4.2	33	217	32	15	6.6
4	.3	0	2.0	1.1	5.7	6.6	3.1	10,600	116	32	13	4.8
5	.3	0	2.0	1.2	4.2	164	3.1	2,570	73	30	11	25
6	.3	0	2.0	1.2	4.2	76	4.2	342	62	28	8.5	326
7	.2	0	1.7	1.2	6.6	47	4.2	149	49	28	7.6	270
8	.2	0	1.8	1.8	412	26	3.1	84	38	25	6.6	123
9	.2	0	2.0	1.8	2,210	23	1.8	60	32	21	6.6	6,350
10	.2	0	2.0	1.7	292	14	52	1.640	26	20	6.6	500
11	.1	0	1.7	1.7	76	12	70	192	21	18	6.6	127
12	.1	0	2.0	1.5	44	9.4	44	78	25	17	6.6	73
13	.1	0	2.0	1.4	33	9.4	28	49	30	15	4.8	55
14	.1	0	2.0	1.4	26	8.5	17	37	42	15	3.1	38
15	.1	.6	2.0	1.4	20	8.5	12	4,300	582	15	2.0	28
16	.1	2.0	3.1	1.2	13	9.4	9.4	7,030	7,960	15	15	25
17	.1	1.4	7.6	1.2	9.4	9.4	7.6	528	556	15	33	18
18	.1	1.0	4.8	1.2	9.4	9.4	5.7	26,500	1,650	15	28	15
19	.1	319	2.0	3.1	9.4	9.4	1e	6,770	391	14	26	15
20	0	308	2.0	143	11	6.6	856	554	192	1,400	25	15
21	0	66	1.7	244	11	5.7	226	315	144	118	21	15
22	0	49	1.5	58	9.4	5.7	62	269	828	62	21	13
23	0	20	1.8	26	8.5	33	37	192	176	524	13	13
24	0	12	1.8	20	8.5	20	23	149	136	460	18	15
25	0	7.6	1.8	15	5.7	15	90	120	103	160	30	321
26	0	4.8	1.8	12	4.8	12	76	106	86	49	21	2,020
27	0	4.8	1.8	9.4	4.8	9.4	38	92	73	42	17	519
28	0	4.8	1.8	9.4	4.2	7.6	21	78	60	60	11	78
29	0	4.2	1.7	9.4	-	5.7	173	67	51	28	30	51
30	0	3.1	1.7	7.6	-	5.7	69	60	47	25	25	38
31	0	-	1.7	7.6	-	4.8	-	55	-	25	21	-

Discharge, in second-feet, of North Bosque River near Clifton, Tex., 1923-33, 1935

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1923					
November 4-30	1,096.9	272	1.4	40.6	2,180
December	10,158	3,810	44	328	20,150
Calendar year					
January 1924	3,764	750	71	121	7,470
February	3,385	386	49	117	6,710
March	21,702	4,060	137	700	43,050
April	13,476	7,540	106	449	26,730
May	4,744	1,410	47	153	9,410
June	979	102	13	32.6	1,940
July	287	16	4	9.26	569
August	90.4	4	1.6	2.92	179
September	137.2	14	1.2	4.57	272
The period	-	-	-	-	118,700
October 1924	86.8	4	1.4	2.80	172
November	561.1	173	2.9	18.7	1,110
December	191.9	12	3.9	6.19	381
Calendar year 1924	49,404.4	7,540	1.2	135	97,990
January 1925	205.9	10	3.9	6.64	408
February	177.3	21	3.6	6.33	352
March	111.9	5	2.4	3.61	222
April	37.8	3.3	.2	1.26	75
May	5,875.4	3,290	.6	190	11,650
June	391.3	156	0	13.0	776
July	480.0	460	0	15.5	952
August	1,947.3	643	.4	62.8	3,860
September	1,115.1	467	.1	37.2	2,210
Water year 1924-25	11,181.8	3,290	0	30.6	22,170
October 1925	5,571.7	4,210	.6	180	11,050
November	2,992.2	1,670	3.0	99.7	5,930
December	79.9	4	.6	2.58	158
Calendar year 1925	18,985.8	4,210	0	52.0	37,640
January 1926	1,088.6	238	4.0	35.1	2,160
February	183.6	14	3.2	6.56	364
March	2,475.4	1,520	2.6	79.9	4,910
April	14,135	6,360	19	471	28,040
May	7,654	2,520	24	247	15,180
June	4,741	1,500	8.0	158	9,400
July	3,203	778	8.0	103	6,350
August	209.1	38	.9	6.75	415
September	917.7	641	2.6	30.6	1,820
Water year 1925-26	43,151.2	6,360	.6	118	85,780
October 1926	436.2	140	2.0	14.1	865
November	251.5	26	3.6	8.38	499
December	284.5	31	3.4	9.18	564
Calendar year 1926	35,479.6	6,360	.9	97.2	70,570
January 1927	120.1	8	2.9	3.87	238
February	273.7	28	3.7	9.77	543
March	667.7	238	3.4	21.5	1,320
April	2,575.0	990	3.4	85.8	5,110
May	9,711.4	7,680	1.9	313	19,260
June	7,899.7	2,630	3.7	263	15,670
July	505.2	107	1.6	16.3	1,000
August	382.7	191	.2	12.3	759
September	347.2	138	.2	11.6	689
Water year 1926-27	23,454.9	7,680	.2	64.3	46,520
October 1927	4,694.1	3,530	1.8	151	9,310
November	48.4	3	.9	1.61	96
December	897.3	500	1.1	28.9	1,780
Calendar year 1927	28,122.5	7,680	.2	77.0	55,780
January 1928	201.1	16	2.0	6.49	399
February	2,088.6	1,400	2.0	72.0	4,140
March	285.7	22	3.2	9.22	567
April	7,622.8	3,010	3.1	254	15,120
May	6,570.3	3,950	3.0	212	13,030
June	18,089.8	6,020	6.7	603	35,880
July	1,020.6	427	.1	32.9	2,020
August	3,854.7	2,600	1.2	124	7,650
September	206.9	96	.3	6.90	411
Water year 1927-28	45,580.5	6,020	.1	125	90,400

Discharge, in second-feet, of North Bosque River near Clifton, Tex., 1923-33, 1935--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1928	7.1	0.7	0	0.23	14
November	42.8	1.8	.5	1.43	85
December	1,208.2	602	1.8	39.0	2,400
Calendar year 1928	41,198.8	6,020	0	113	81,720
January 1929	426.3	145	3.0	13.8	848
February	1,126.3	758	3.0	40.2	2,230
March	1,229.8	594	5.8	39.7	2,440
April	14,138.1	4,880	3.2	471	28,040
May	12,271.4	7,400	9.4	396	24,340
June	1,194.3	391	.4	39.8	2,370
July	47.4	16	0	1.53	94
August	0	0	0	0	0
September	21,534.5	20,200	0	718	42,710
Water year 1928-29	53,226.2	20,200	0	146	105,600
October 1929	31.0	14	.1	1.00	61
November	84.8	6.8	1.6	2.83	168
December	122.3	6.8	2.2	3.95	243
Calendar year 1929	52,206.2	20,200	0	143	103,500
January 1930	120.5	5.7	3.0	3.89	239
February	155.3	17	3.6	5.55	308
March	199.6	39	2.6	6.44	396
April	1,693.0	958	2.6	56.4	3,360
May	17,958.0	11,300	7.1	579	35,620
June	100.3	6.2	1.1	3.34	199
July	9.0	1.0	0	.29	18
August	477.7	342	0	15.4	947
September	535.6	392	.8	17.9	1,070
Water year 1929-30	21,487.1	11,300	0	58.7	42,630
October 1930	22,330.0	15,600	4.0	720	44,290
November	1,065	331	12	35.5	2,110
December	8,418	2,600	60	272	16,700
Calendar year 1930	53,062.0	15,600	0	145	105,300
January 1931	9,718	2,410	66	313	19,280
February	16,265	1,490	317	581	32,260
March	11,279	1,050	161	364	22,400
April	4,874	497	87	162	9,640
May	9,798	4,800	48	316	19,430
June	2,648	711	18	88.3	5,250
July	2,183.9	816	7.9	70.4	4,330
August	1,546.3	1,010	3.4	49.9	3,070
September	2,996.3	2,100	2.7	99.9	5,940
Water year 1930-31	93,121.5	15,600	2.7	255	184,700
October 1931	3,371.5	1,570	1.7	109	6,690
November	270.7	55	4.1	9.02	537
December	1,050.7	272	7.9	33.9	2,080
Calendar year 1931	66,001.4	4,800	1.7	181	130,900
January 1932	24,402.8	8,140	7.9	787	48,400
February	43,667	11,100	119	1,510	86,610
March	14,561	3,570	163	470	28,880
April	8,161	2,330	83	272	16,190
May	20,999	5,820	80	677	41,650
June	4,704	750	42	157	9,340
July	5,351	1,360	14	173	10,610
August	365.3	60	5.8	11.8	726
September	8,661.4	3,880	4.4	279	17,180
Water year 1931-32	135,565.4	11,100	1.7	370	268,900
October 1932	273.3	14	5.8	8.82	542
November	268.1	20	5.8	8.94	532
December	2,085.0	1,000	9.0	67.3	4,140
Calendar year 1932	133,498.9	11,100	4.4	365	264,800
January 1933	1,867	498	21	60.2	3,700
February	970	312	17	34.6	1,920
March	12,204	5,420	31	394	24,210
April	2,720	698	31	90.7	5,400
May	25,321	11,300	17	817	50,220
June	1,311.9	210	6.9	43.7	2,600
July	154.1	19	2.8	4.97	306
August	2,985.0	2,430	2.6	96.3	5,920
September	3,323.1	2,560	2.8	111	6,590
Water year 1932-33	53,482.5	11,300	2.6	147	106,100

Discharge, in second-feet, of North Bosque River near Clifton, Tex., 1923-33, 1935--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1934	4.3	0.6	0	0.14	8.5
November	808.3	319	0	26.9	1,600
December	68.9	7.6	1.5	2.22	137
Calendar year 1934	41,722.4	5,880	0	114	82,760
January 1935	589.0	244	1.0	19.0	1,170
February	3,264.6	2,210	4.2	117	6,480
March	585.3	164	3.7	18.9	1,160
April	1,967.4	856	1.8	65.6	3,900
May	63,098	26,500	33	2,035	125,200
June	13,984	7,960	21	466	27,740
July	3,381	1,400	14	109	6,710
August	492.0	33	2.0	15.9	976
September	11,122.4	6,350	4.8	371	22,060
Water year 1934-35	99,365.2	26,500	0	272	197,100

Note.- Monthly discharge for December, 1923, March and April, 1924, May, October, and November, 1925, March, April, May, June, and July. 1926, April, May, June, and October, 1927, February, April, May, June, and August, 1928, February, April, May, and September, 1929, April, May, and October, 1930, May and September, 1931, February, 1932, and March and May 1933, and yearly figures for 1924-33 supersede those published in previous water-supply papers. Other monthly figures for years in which revisions were made republished in order to complete record.

Deer Creek at Chilton, Tex.

Location.- Water-stage recorder, lat. 31°16', long. 97°4', 75 feet below San Antonio & Aransas Pass Railway bridge and 0.8 mile south of Chilton, Falls County.

Drainage area.- 81.8 square miles.

Records available.- March 1934 to September 1935.

Extremes.- Maximum discharge during year, 14,500 second-feet May 18 (gage height, 16.08 feet); no flow at times.
1934-35: Maximum discharge, that of May 18, 1935; no flow at times.

Remarks.- Records good. Daily discharge applied to hundredths when flow was below 1.0 second-foot after July 1. No diversions.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	1.8	0.4	0.2	4.3	2.1	4.6	36	21	2.3	0
2		.6	23	.3	.2	4.3	1.8	82	30	19	1.8	0
3		0	7.1	.3	.2	4.5	1.6	51	151	16	1.6	17
4		.4	1.0	.2	.2	21	1.8	339	23	15	1.3	12
5		0	.5	.2	.2	18	1.6	694	14	14	1.6	13
6		0	.3	.2	.2	37	1.3	36	12	12	1.5	2.7
7		0	.2	.3	.3	7.2	.9	14	11	11	1.0	184
8		0	.2	.4	49	4.3	.6	9.6	69	9.6	.77	144
9		0	.1	.9	542	5.0	.4	7.4	14	8.6	.63	425
10		0	.1	.6	162	6.6	1.1	7.4	10	7.8	.56	186
11		0	.1	.4	205	6.3	2.7	8.1	9.7	7.0	.62	22
12		0	0	.3	82	5.4	1.3	6.0	14	9.1	1.0	16
13		0	0	.2	158	3.7	.8	5.0	12	7.4	.55	12
14		27	0	.2	26	3.4	.6	4.8	24	7.0	.39	9.6
15		5.6	0	.2	15	3.4	.6	320	991	5.6	1.0	8.6
16		.2	0	.2	12	3.3	.5	394	928	4.8	1.1	7.0
17		0	.1	.1	9.1	3.0	.6	184	95	4.6	.46	6.3
18		0	.4	.2	8.6	2.5	.6	3,910	1,380	4.5	.22	5.6
19		284	.6	.2	7.8	3.2	.7	831	80	8.8	.11	4.8
20		913	.5	.9	6.6	3.6	.8	379	50	5.0	.01	4.5
21		417	.3	1.7	6.3	3.2	1.2	64	56	4.0	.05	4.3
22		11	.2	2.3	6.3	2.8	.8	43	1,410	3.7	.07	4.0
23		2.2	.1	.8	5.6	2.5	.6	34	119	16	.17	4.0
24		1.1	.1	.4	5.3	2.4	.5	26	67	91	.30	4.2
25		1.6	.1	.3	5.3	2.5	3.8	23	51	12	.08	11
26		2.3	0	.4	4.3	2.4	383	20	65	11	.01	14
27		.7	.5	.4	3.6	2.6	14	19	68	4.9	.02	19
28		.5	1.0	.4	4.0	2.7	5.2	17	30	4.7	.04	11
29		17	1.6	.3	-	1.5	132	16	26	3.8	0	8.6
30		9.0	.8	.3	-	1.9	18	15	22	3.3	0	7.8
31		-	.5	.2	-	2.7	-	12	-	2.8	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	1,693.2	913	0	56.4	3,360
December	41.2	23	0	1.33	82
Calendar year					
January	14.2	2.3	.1	.46	28
February	1,325.3	542	.2	47.3	2,630
March	177.2	37	1.5	5.72	351
April	581.2	383	.4	19.4	1,150
May	7,575.9	3,910	4.6	244	15,030
June	5,867.7	1,410	9.7	196	11,640
July	355	91	2.8	11.5	704
August	19.14	2.3	0	.62	38
September	1,168	425	0	38.9	2,320
Water year 1934-35	18,818.04	3,910	0	51.6	37,330

Leon River near Belton, Tex.

Location.- Water-stage recorder, lat. 31°4'15", long. 97°26'30", a quarter of a mile above Temple-Belton highway bridge and 2 miles east of Belton, Bell County.

Drainage area.- 3,547 square miles.

Records available.- October 1923 to September 1935.

Average discharge.- 12 years, 457 second-feet.

Extremes.- Maximum discharge during year, 35,700 second-feet May 18 (gage height, 17.08 feet); no flow Oct. 1 to Nov. 13.
1923-35: Maximum discharge, that of May 18, 1935; no flow at times.
Highest known stages, 21.0 feet September 1921 and about 25 feet December 1913.

Remarks.- Records of daily discharge not sufficiently accurate for publication. Monthly records fair. Several small pumping plants divert water above station.

Monthly discharge, in second-feet, water year October 1934 to September 1935

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	9,512	2,050	0	317	18,870
December	649.0	32	7.0	20.9	1,290
Calendar year 1934	105,627.3	11,200	0	289	209,500
January	2,898.5	640	5.4	93.5	5,750
February	10,925	2,680	32	390	21,670
March	2,591.5	351	7.0	83.6	5,140
April	6,692.6	1,850	4.6	223	13,270
May	124,398	16,700	92	4,013	246,700
June	60,943	10,300	320	2,031	120,900
July	8,886	1,240	105	287	17,630
August	2,782	200	41	89.7	5,520
September	66,390	16,200	64	2,213	131,700
Water year 1934-35	296,667.6	16,700	0	813	588,400

Little River at Cameron, Tex.

Location.- Water-stage recorder, lat. 30°50', long. 96°57', at old McCowan bridge site 2,100 feet above Cameron-Rockdale highway bridge and 2 miles southeast of Cameron, Milam County.

Drainage area.- 7,034 square miles.

Records available.- November 1916 to September 1935.

Average discharge.- 18 years (1917-35), 1,714 second-feet.

Extremes.- Maximum discharge during year, 98,000 second-feet May 20 (gage height, 37.40 feet); minimum, 12 second-feet Oct. 28.
1916-35: Maximum discharge, 647,000 second-feet, by slope-area method, Sept. 10, 1921 (gage height, about 53.2 feet, present datum, from flood marks); minimum, 2.6 second-feet Sept. 3, 5, 7, 1918.

Remarks.- Records good except those for Apr. 30 to May 4, May 9, 10, 29-31, July 2, 3, which are fair and were partly estimated from partial gage-height record. Numerous small diversions for irrigation and municipal uses affect flow only during extremely low stages. Slight regulation caused by pumping above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	14	210	95	151	162	202	517	1,420	1,580	805	522
2	18	14	188	85	134	157	161	445	5,500	1,460	625	565
3	18	14	174	81	127	153	247	433	7,900	1,260	537	421
4	18	1,070	138	79	118	155	918	2,130	7,500	1,180	485	838
5	18	374	112	75	112	155	337	11,300	9,320	1,140	449	1,960
6	18	148	97	72	99	169	193	17,600	7,580	1,140	437	1,300
7	19	85	86	75	97	500	174	14,300	4,070	1,000	429	3,760
8	17	57	83	78	101	785	140	8,940	2,270	905	401	8,720
9	16	46	81	74	2,030	685	114	4,160	1,940	865	361	11,100
10	16	35	79	74	3,390	493	103	1,580	1,620	805	335	12,200
11	16	30	72	75	7,480	401	97	5,880	1,260	765	314	13,600
12	16	27	67	74	7,840	409	89	6,640	1,060	725	301	13,500
13	15	25	66	72	5,680	318	88	3,090	1,000	685	284	7,870
14	15	26	65	68	3,430	257	82	1,720	2,850	665	277	3,580
15	16	696	65	67	1,400	218	78	1,560	3,780	785	301	2,940
16	16	3,910	62	67	1,000	191	71	6,010	42,700	765	335	2,100
17	14	2,370	600	65	705	171	67	11,400	44,800	685	357	1,660
18	14	1,520	730	66	537	182	211	16,200	24,600	625	353	1,380
19	14	724	224	66	457	338	196	44,300	13,600	565	308	1,140
20	14	3,560	127	208	401	277	149	70,800	7,550	645	284	945
21	14	8,610	97	645	345	224	125	28,900	5,890	625	260	825
22	15	6,830	82	507	304	193	416	15,500	5,660	625	267	765
23	15	1,800	74	559	270	174	350	11,400	7,770	685	254	705
24	16	685	71	615	244	155	193	8,940	9,180	874	264	805
25	15	425	68	361	221	142	202	8,250	5,080	2,290	260	845
26	14	361	65	235	202	134	828	8,250	2,830	2,820	254	2,020
27	14	291	74	191	188	127	2,480	8,000	2,420	1,680	251	9,190
28	13	193	446	335	174	119	3,340	6,920	2,260	1,080	247	12,600
29	14	221	302	280	-	112	1,770	5,380	1,940	1,130	204	17,600
30	15	287	127	218	-	110	705	1,900	1,660	825	202	11,100
31	14	-	109	176	-	109	-	1,540	-	885	318	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	488	21	13	15.7	968
November	34,448	8,610	14	1,148	68,330
December	4,841	730	62	156	9,600
Calendar year 1934	366,370	30,700	13	1,004	726,700
January	5,738	645	65	185	11,380
February	37,237	7,840	97	1,330	73,860
March	7,775	785	109	251	15,420
April	14,114	3,340	67	470	27,990
May	330,985	70,800	433	10,680	656,500
June	237,010	44,800	1,000	7,900	470,100
July	31,764	2,820	565	1,025	63,000
August	10,759	805	202	347	21,340
September	146,556	17,600	421	4,885	290,700
Water year 1934-35	861,715	70,800	13	2.361	1,709,000

Lampasas River at Youngsport, Tex.

Location.- Water-stage recorder, lat. 30°57', long. 97°43', 300 feet above highway bridge and half a mile southeast of Youngsport, Bell County.

Drainage area.- 1,242 square miles.

Records available.- February 1924 to September 1935.

Average discharge.- 11 years, 186 second-feet.

Extremes.- Maximum discharge for water years in which they occur (not previously published): 26,100 second-feet Nov. 26, 1925 (gage height, 22.0 feet); 28,700 second-feet Oct. 2, 1927 (gage height, 23.70 feet); 23,800 second-feet Oct. 6, 1930 (gage height, 20.30 feet).

Maximum discharge during water year 1934-35, 42,000 second-feet May 18 (gage height, 29.98 feet); minimum, 0.8 second-foot Oct. 14.

1924-35: Maximum discharge, that of May 18, 1935; no flow July 17 to Aug. 18, 1925, July 22, 23, Aug. 9 to Sept. 8, 1934.

Flood of Dec. 2, 1913 reached a stage of 35.1 feet; flood of September 1873 reached a stage of about 44.2 feet (present datum).

Remarks.- Records good except those for May 4, 5, 11, which are fair and were partly estimated. Small diversion above station for municipal uses.

Daily discharge, in second-feet, for high-water periods in 1925-27, and 1930

1925		1927	
Oct. 16	7,670	Oct. 1	3,780
Nov. 6	13,000	2	13,500
1926		**1930**	
Mar. 10	4,010	Oct. 6	11,400
Apr. 10	10,800	7	3,930
21	6,500		
July 22	6,400		

Note.- Records for above dates not previously published because of lack of definition of rating curve for high stages.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Jan. 19)

2.50	0.5	2.75	7.7	3.0	42	4.0	542	9.0	7,840	16.0	17,880
2.55	.8	2.80	11	3.2	108	5.0	1,360	10.0	9,680	18.0	20,600
2.60	1.5	2.85	15	3.4	189	6.0	2,450	11.0	11,250	20.0	23,340
2.65	3.0	2.90	21	3.6	290	7.0	3,820	12.0	12,630		
2.70	5.0	2.95	30	3.8	410	8.0	5,720	14.0	15,230		

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.2	11	10	12	10	10	19	653	138	35	105
2	.9	8.0	10	10	11	10	11	102	638	127	28	54
3	.9	9.0	11	9.7	11	11	63	694	7,060	116	25	35
4	.9	4.2	10	9.7	11	14	40	4,890	826	104	23	351
5	.9	10	10	9.7	11	86	20	7,550	460	97	21	214
6	1.2	7.7	10	9.7	12	537	14	597	319	90	21	546
7	1.2	6.6	10	9.7	13	176	11	214	223	83	19	437
8	1.4	6.1	9.7	9.0	16	72	9.0	131	185	76	19	805
9	1.2	6.1	9.7	9.0	2,570	42	9.0	83	159	69	17	11,200
10	1.2	6.1	9.7	9.0	367	26	9.0	523	142	60	16	1,400
11	1.4	5.5	9.7	9.0	323	23	8.4	512	127	57	15	356
12	1.2	6.1	11	8.4	177	19	8.4	138	119	51	15	202
13	1.1	7.2	9.7	7.2	104	16	7.7	79	355	48	15	138
14	.9	15	9.7	8.4	66	13	7.2	54	378	42	16	112
15	2.1	1,200	9.7	9.0	45	13	6.1	5,210	2,940	42	27	94
16	1.5	304	9.7	7.7	35	13	6.1	8,720	3,220	37	72	76
17	1.4	92	9.7	7.7	26	11	6.1	1,680	983	32	35	66
18	2.1	45	10	7.7	23	13	5.5	20,800	596	35	25	60
19	2.1	241	9.7	8.4	21	13	5.0	9,800	462	35	19	54
20	1.5	78	9.0	48	19	12	5.0	956	379	30	16	48
21	1.5	35	9.7	176	16	12	6.6	542	307	28	21	45
22	1.8	23	10	101	15	12	7.2	391	1,760	26	41	42
23	1.5	16	11	45	15	11	6.1	307	449	46	32	40
24	1.2	13	11	28	13	11	5.0	243	331	860	66	119
25	1.1	12	11	23	13	11	16	204	280	351	37	9,620
26	1.1	12	12	20	12	11	1,570	176	238	231	28	1,120
27	1.1	11	13	16	11	11	192	155	214	108	26	920
28	1.2	10	13	15	11	11	72	146	228	97	21	434
29	1.5	13	13	14	-	11	37	142	199	54	19	307
30	1.5	13	13	13	-	11	26	127	163	48	433	254
31	1.4	-	13	13	-	10	-	119	-	54	318	-

Discharge, in second-feet, of Lampassas River at Youngsport, Tex., for water years 1925-26, 1927-28, 1930-31, and 1934-35

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1925	12,141.8	7,670	4.8	392	24,100
November	17,736	13,000	17	591	35,200
December	1,552	59	45	50.1	3,080
Calendar year 1925	40,911.3	13,000	0	112	81,200
January 1926	4,201	454	49	136	8,330
February	2,933	163	70	105	5,820
March	16,226	4,010	70	523	32,200
April	40,764	10,800	417	1,360	80,900
May	18,830	1,860	141	607	37,300
June	9,499	2,120	91	317	18,800
July	13,231	6,400	40	427	26,200
August	684.8	70	6.2	22.1	1,360
September	490	49	5.6	16.3	972
Water year 1925-26	138,288.6	13,000	4.8	379	274,000
October 1927	20,096	13,500	16	648	39,900
November	845	102	21	28.2	1,680
December	988	124	18	31.9	1,960
Calendar year 1927	90,542.4	13,500	6.2	248	179,800
January 1928	785	30	23	25.3	1,560
February	4,685	1,250	24	162	9,320
March	4,575	858	58	148	9,100
April	1,644	95	30	54.8	3,260
May	1,300	213	12	41.9	2,580
June	4,190.7	1,810	9.7	140	8,330
July	315.5	41	4.0	10.2	627
August	172.5	14	4.2	5.56	342
September	612.2	89	5.8	20.4	1,210
Water year 1927-28	40,208.9	13,500	4.0	110	79,900
October 1930	18,390.2	11,400	4.6	593	36,500
November	1,608	282	33	53.6	3,190
December	8,493	2,800	79	274	16,800
Calendar year 1930	56,329.5	11,400	.4	154	111,700
January 1931	11,758	1,940	79	379	23,300
February	20,673	1,640	368	738	41,000
March	23,427	2,180	452	756	46,500
April	17,437	1,790	302	581	34,600
May	6,197	620	73	200	12,300
June	8,851	2,490	50	295	17,600
July	3,470	704	27	112	6,890
August	1,005	150	18	32.4	1,990
September	1,977.0	882	8.4	65.9	3,920
Water year 1930-31	123,286.2	11,400	4.6	338	245,000
October 1934	41.1	2.1	.9	1.33	82
November	2,216.8	1,200	1.2	73.9	4,400
December	328.7	13	9.0	10.6	652
Calendar year 1934	28,219.7	6,690	0	77.3	55,980
January 1935	681.0	176	7.2	22.0	1,350
February	3,979	2,570	11	142	7,890
March	1,252	537	10	40.4	2,480
April	2,199.4	1,570	5.0	73.3	4,360
May	65,304	20,800	19	2,107	129,500
June	24,393	7,060	119	813	48,380
July	3,272	860	26	106	6,490
August	1,521	433	15	49.1	3,020
September	29,254	11,200	35	975	58,020
Water year 1934-35	134,442	20,800	.9	368	266,600

Note.- Monthly figures for October 1927 and yearly figures for water years 1927-28 and 1930-31 supersede those published in Water-Supply Papers 668 and 718. Monthly figures for October and November 1925 and March, April, and July, 1926, and yearly figures for 1925-26 not previously published. Monthly discharge for other months republished in order to complete record.

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San Gabriel River at Georgetown, Tex.

Location.- Water-stage recorder, lat. 30°39'10", long. 97°39'20", 100 feet below Missouri-Kansas-Texas Railroad bridge, 1¼ miles below confluence of North and South Forks of San Gabriel River, and 1⅞ miles northeast of Georgetown, Williamson County. Zero of gage is 643.34 feet above mean sea level. Gage is 1 mile downstream from site used prior to Aug. 31, 1925; relation between gage datums not known.

Drainage area.- 415 square miles.

Records available.- July 1934 to September 1935. Comparable records except those for extremely low flow at former station 1 mile upstream February 1924 to August 1925.

Extremes.- Maximum discharge during period July 23, 1934, to Sept. 30, 1935, about 28,500 second-feet May 18, 1935 (gage height, 15.45 feet); minimum, 1.4 second-feet Sept. 20, 1934.

1924-25, 1934-35: Maximum discharge, that of May 18, 1935; minimum, that of Sept. 20, 1934.

Maximum stage known, 39.36 feet (present datum) September 1921 (discharge, 160,000 second-feet, by slope-area method).

Remarks.- Records good except those above 10,000 second-feet and those for Aug. 10-31, Oct. 29 to Nov. 23, 1934, and Dec. 28, 1934, to Jan. 11, 1935, which are poor and were estimated from fragmentary gage-height records. Small diversions have slight affect on low flow.

Discharge, in second-feet, water year October 1933 to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										-	6.4	4.5
2										-	6.4	4.5
3										-	6.4	4.8
4										-	6.4	4.8
5										-	6.4	4.8
6										-	6.4	4.8
7										-	6.4	4.8
8										-	6.4	4.8
9										-	6.4	4.8
10										-	6.4	587
11										-	6.3	48
12										-	6.2	19
13										-	6.1	12
14										-	6.0	10
15										-	6.0	10
16										-	5.9	8.2
17										-	5.8	7.1
18										-	5.7	5.7
19										-	5.6	1.7
20										-	5.5	1.4
21										-	5.4	2.2
22										-	5.3	3.1
23										6.0	5.2	4.8
24										6.0	5.1	4.8
25										7.1	5.0	4.5
26										6.7	5.0	4.5
27										6.7	4.9	4.5
28										6.7	4.8	4.5
29										6.7	4.7	4.5
30										6.7	4.6	4.5
31										6.7	4.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	-	-	-	-	-
May	-	-	-	-	-
June	-	-	-	-	-
July 23-31	59.3	7.1	6.0	6.59	118
August	177.6	6.4	4.5	5.73	352
September	794.8	587	1.4	26.5	1,580
The period	-	-	-	-	2,050

San Gabriel River at Georgetown, Tex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.5		9.6		6.7	9.6	9.1	12	1,450	115	39	12
2	4.5		9.6		6.7	9.6	164	11	187	109	44	14
3	4.5		9.1		6.7	9.6	474	11	1,670	100	22	16
4	4.5		8.7		6.7	10	41	675	149	97	29	149
5	4.5		8.2		6.7	9.6	22	408	325	170	29	92
6	4.5		7.8		6.4	9.1	16	135	278	84	26	2,680
7	4.5	4.0	7.4	6.0	9.1	8.7	12	44	96	84	25	732
8	4.5		6.4		17	16	9.1	25	62	79	23	230
9	4.5		5.7		223	14	8.7	21	62	73	22	2,750
10	4.3		7.1		75	13	9.1	1,290	57	69	22	429
11	4.3		6.7		176	12	8.2	80	53	64	22	185
12	4.3		6.7	7.1	67	10	7.4	45	57	60	20	132
13	4.3		6.4	6.4	56	10	7.1	28	784	65	19	109
14	4.3		6.4	6.4	42	9.1	6.7	22	810	60	21	88
15	4.3		6.4	6.4	29	8.2	6.7	2,280	8,110	54	24	90
16	4.3		6.0	6.4	23	8.2	6.7	386	709	51	29	85
17	4.3		9.6	6.0	19	8.2	6.7	3,230	414	48	25	80
18	4.3	320	9.6	6.4	16	8.2	6.7	5,230	354	47	22	75
19	4.3		7.8	7.1	15	8.7	19	1,370	282	45	19	72
20	4.3		7.4	9.1	13	8.7	8.7	248	233	44	27	69
21	4.3		7.1	10	13	8.2	7.8	121	206	41	12	66
22	4.3		6.0	9.1	12	8.2	7.4	92	2,070	39	17	65
23	4.5		5.1	8.7	12	8.2	7.1	76	337	55	18	205
24	4.3	12	4.8	7.8	12	8.2	6.7	66	233	122	16	95
25	4.0	10	4.5	7.1	10	8.2	7.4	59	193	344	24	4,580
26	4.3	10	4.5	7.1	10	8.2	544	53	161	137	11	1,070
27	4.3	10	7.8	7.1	10	8.2	63	52	154	61	11	430
28	4.3	9.1		7.1	10	8.2	27	64	140	97	14	256
29		10		6.0	6.7	-	8.2	19	56	126	66	16	206
30	4.0	10			6.7	-	9.1	14	52	119	114	36	180
31		-			6.7	-	9.1	-	47	-	44	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	134.1	4.5	-	4.33	266
November	3,323.1	-	-	111	6,590
December	216.5	9.6	4.5	6.98	429
Calendar year					
January	211.4	-	-	6.82	419
February	909	223	6.4	32.5	1,800
March	292.5	16	8.2	9.44	580
April	1,552.3	544	6.7	51.7	3,080
May	16,269	5,230	11	525	32,270
June	19,881	8,110	53	663	39,430
July	2,638	344	39	85.1	5,230
August	695	44	11	22.4	1,380
September	15,242	4,580	12	508	30,230
Water year 1934-35	61,363.9	6,110	-	168	121,700

Big Elm Creek near Temple, Tex.

Location.- Water-stage recorder, lat. 31°3', long. 97°15', 350 feet below mouth of Cottonwood Creek and 6 miles east by south of Temple, Bell County.

Drainage area.- 68.5 square miles.

Records available.- March 1934 to September 1935.

Extremes.- Maximum discharge during year, 15,700 second-feet June 15 (gage height, 18.05 feet); no flow at times.
1934-35: Maximum discharge, that of June 15, 1935; no flow at times.

Remarks.- Records good. Daily discharge applied to hundredths when flow was below 1.0 second-foot after Apr. 1. Discharge determined by using rate of change in stage as a factor. No diversions.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	1.8	0.8	0.5	4.3	1.8	4.0	77	16	2.7	0.56
2		.3	1.6	.6	.4	4.4	197	38	25	15	2.2	.21
3		10	1.3	.5	.4	4.4	5.7	12	314	14	1.8	99
4		.3	.8	.4	.4	10	2.1	198	26	13	2.0	65
5		0	.7	.4	.4	8.9	1.8	350	18	13	2.1	13
6		0	.7	.4	.4	32	1.4	25	15	12	1.7	7.5
7		0	.6	.7	.8	5.1	.88	14	14	10	1.2	642
8		0	.4	.9	55	4.0	.59	11	67	9.3	.96	81
9		0	.4	.8	520	4.2	.66	9.8	14	8.4	.84	649
10		0	.3	.7	68	5.8	1.2	14	13	7.1	.74	79
11		0	.2	.6	66	5.4	1.9	10	11	6.1	1.0	48
12		0	.3	.4	61	4.7	.92	7.7	16	6.1	1.5	32
13		0	.4	.4	73	3.6	.49	6.4	24	6.4	.77	22
14		2.7	.4	.4	21	3.4	.46	52	40	5.8	1.3	20
15		38	.6	.4	16	3.2	.43	632	4,330	4.6	1.3	17
16		6	.8	.4	14	3.2	.38	134	428	4.2	.92	15
17		.6	1.1	.4	13	2.8	.40	40	115	3.9	.48	13
18		.2	1.4	.4	12	2.6	.49	3,220	219	3.7	.35	12
19		1,260	1.0	.5	10	3.2	.46	757	77	10	.26	11
20		626	.4	.9	8.0	3.3	.59	155	54	5.0	.09	9.9
21		1,230	.3	3.8	6.9	2.9	.81	93	39	3.8	.28	9.2
22		9.8	.2	1.9	5.6	2.7	.73	67	1,670	3.2	4.7	8.4
23		3.2	.2	.9	4.6	2.6	.59	46	109	58	1.3	8.0
24		2.1	.3	.6	4.8	2.5	.52	26	77	28	.40	8.8
25		2.0	.7	.6	4.7	2.5	11	21	53	25	.18	19
26		1.7	.4	.6	4.1	2.4	181	19	66	29	.10	146
27		1.5	.7	.6	4.0	3.3	6.7	16	41	6.5	.06	130
28		.8	1.5	.5	4.3	2.1	3.3	15	27	5.4	.02	18
29		1.6	1.6	.5	-	1.8	80	15	23	4.8	0	14
30		4.5	.9	.5	-	2.2	8.8	14	18	3.8	.62	13
31		-	.7	.5	-	2.3	-	12	-	3.2	1.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	3,201.3	1,260	0	107	6,350
December	22.7	1.8	.2	.73	45
Calendar year					
January	22.0	3.8	.4	.71	44
February	979.3	520	.4	35.0	1,940
March	145.8	32	1.8	4.70	289
April	513.10	197	.38	17.1	1,020
May	6,033.9	3,220	4.0	195	11,970
June	8,020	4,330	11	267	15,910
July	344.3	58	3.2	11.1	683
August	33.67	4.7	0	1.09	67
September	2,210.57	649	.21	73.7	4,380
Water year 1934-35	21,526.64	4,330	0	59.0	42,700

Big Elm Creek near Buckholts, Tex.

Location.- Water-stage recorder, lat. 30°57', long. 97°6', at Buckholts-Yarrellton highway bridge 3.8 miles above mouth of South Elm Creek and 5.5 miles north by east of Buckholts, Milam County.

Drainage area.- 166 square miles.

Records available.- March 1934 to September 1935.

Extremes.- Maximum discharge during year, 15,400 second-feet June 16 (gage height, 14.72 feet); no flow Oct. 1 to Nov. 13 and Sept. 1
1934-35: Maximum discharge, that of June 16, 1935; no flow at times.

Remarks.- Records good except those for Nov. 27, 28, and June 17-23, which are fair and were partly estimated. Daily discharge applied to hundredths when flow was below 1.0 second-foot after July 1, 1935. Discharge determined by using rate of change in stage as a factor. No diversions.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	7.4	1.8	1.1	6.6	3.8	12	42	24	5.4	0
2		0	3.6	1.4	1.0	7.0	23	13	168	22	4.6	1.2
3		0	3.4	1.8	1.0	7.4	542	72	234	21	3.4	1.2
4		0	4.0	1.7	1.0	7.8	14	349	206	19	3.0	128
5		0	1.9	1.2	1.0	23	6.6	927	36	18	3.3	149
6		0	1.3	1.1	1.0	80	4.6	256	29	17	3.5	18
7		0	1.0	1.2	1.2	23	3.2	27	23	16	2.7	231
8		0	.8	1.4	13	8.2	2.5	18	91	14	2.1	675
9		0	.8	1.7	580	7.0	2.1	15	29	13	1.7	425
10		0	.7	2.1	162	8.2	2.0	32	20	12	1.4	1,010
11		0	.6	1.8	430	9.6	2.0	24	18	10	1.3	114
12		0	.5	1.4	187	8.5	3.2	15	18	9.3	1.2	60
13		0	.5	1.2	466	7.0	3.1	12	28	9.8	1.4	42
14		19	.5	1.0	58	5.1	2.1	128	45	9.3	1.4	34
15		20	.6	1.0	27	5.0	1.5	546	1,800	8.0	1.4	28
16		30	.6	1.0	20	5.0	1.3	1,240	6,020	7.0	2.1	25
17		7.1	33	.9	16	4.6	1.3	227	268	6.7	1.5	22
18		1.1	4.2	.9	15	4.5	1.3	4,380	435	6.4	.94	20
19		43	2.2	1.0	14	4.1	1.4	2,180	164	6.9	.86	18
20		1,470	1.8	1.8	12	5.0	1.8	1,210	83	12	.45	17
21		1,240	1.5	4.3	11	5.2	1.7	149	45	6.9	.37	15
22		205	1.0	5.7	9.9	4.6	1.8	72	1,450	5.4	.30	14
23		9.4	.7	4.3	8.9	4.1	2.0	52	996	4.8	2.9	13
24		4.4	.5	2.3	8.5	3.9	1.7	40	103	86	3.2	14
25		2.7	.5	1.7	8.5	3.8	9.3	34	65	30	1.2	19
26		3.8	.6	1.5	7.4	3.8	163	30	48	44	.62	129
27		3.1	.7	1.3	6.2	3.6	68	27	86	18	.30	147
28		2.0	1.8	1.3	5.9	4.4	11	23	39	26	.11	47
29		2.3	3.5	1.2	-	3.4	45	23	32	94	.05	23
30		15	2.6	1.2	-	2.6	83	22	29	8.5	.03	20
31		-	2.0	1.1	-	3.1	-	20	-	6.4	.02	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	3,077.9	1,470	0	103	6,100
December	84.8	33	.5	2.74	168
Calendar year					
January	53.3	5.7	.9	1.72	106
February	2,093.6	580	1.0	74.8	4,150
March	279.1	80	2.6	9.00	554
April	1,009.1	542	1.3	33.6	2,000
May	12,175	4,380	12	393	24,150
June	12,650	6,020	18	422	25,090
July	591.4	94	4.8	19.1	1,170
August	52.75	5.4	.02	1.70	105
September	3,459.4	1,010	0	115	6,860
Water year 1934-35	35,526.35	6,020	0	97.3	70,450

North Elm Creek near Ben Arnold, Tex.

Location.- Water-stage recorder, lat. 30°57', long. 97°3', at county highway bridge 3½ miles west of Ben Arnold, Milam County, and 8 miles above confluence with Big Elm Creek.

Drainage area.- 30.3 square miles.

Records available.- October 1934 to September 1935.

Extremes.- Maximum discharge during period Oct. 16, 1934, to Sept. 30, 1935, 2,040 second-feet June 15 (gage height, 6.92 feet); no flow at times.

Remarks.- Records fair. Daily discharge applied to hundredths when flow was below 1.0 second-foot after July 1, 1935. No diversions.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	0	0	0.1	0	0		0	0.1			0
2	-	0	0	.1	0	0		0	.1			0
3	-	0	0	0	0	0		0	0			0
4	-	0	0	0	0	0		122	0			0
5	-	0	0	0	0	0		743	0			0
6	-	0	0	0	0	38		67	0			0
7	-	0	0	.1	0	3.4		4.1	0			4.5
8	-	0	0	.1	21	.9		1.6	0			29
9	-	0	0	0	184	.4		.6	0			47
10	-	0	0	0	96	.3		.4	0			73
11	-	0	0	0	185	.2		.2	0			3.9
12	-	0	0	0	101	.1		.1	0			1.2
13	-	0	0	0	175	0		0	12			.46
14	-	0	0	0	10	0		60	4.6			.19
15	-	0	0	0	3.2	0		146	596			.06
16	0	0	0	0	1.4	0		170	457			.02
17	0	0	43	0	.7	0		259	13			.01
18	0	0	3.3	0	.4	0		1,160	75			0
19	0	0	.8	0	.2	0		473	6.6			0
20	0	0	.3	1.2	.2	0		57	1.5			0
21	0	33	.2	3.2	.1	0		6.3	.5			0
22	0	3.9	.1	1.6	.1	0		2.2	193			0
23	0	.7	0	.5	0	0		1.0	83			0
24	0	.2	0	.2	0	0		.4	3.1			0
25	0	.1	0	.2	0	0		.2	1.2			0
26	0	.1	0	.1	0	0		.1	.5			0
27	0	0	.1	.1	0	0		0	2.0			0
28	0	0	.1	0	0	0		0	.6			0
29	0	0	.1	0	-	0		0	.2			0
30	0	0	0	0	-	0		0	.1			0
31	0	-	.2	0	-	0		0	-			-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 16-31	0	0	0	0	0
November	38.0	33	0	1.27	75
December	48.2	43	0	1.55	96
Calendar year					
January	7.5	3.2	0	.24	15
February	778.3	185	0	27.8	1,540
March	43.3	38	0	1.40	86
April	0	0	0	0	0
May	3,274.2	1,160	0	106	6,490
June	1,450.1	596	0	48.3	2,880
July	0	0	0	0	0
August	0	0	0	0	0
September	159.34	73	0	5.31	316
The period					11,500

Yegua Creek near Somerville, Tex.

Location.- Water-stage recorder, lat. 30°19', long. 96°30', at highway bridge 760 feet below Gulf, Colorado & Santa Fe Railway bridge and 2 miles south of Somerville, Burleson County. Zero of gage is 199.29 feet above mean sea level.

Drainage area.- 990 square miles.

Records available.- May 1924 to September 1935.

Average discharge.- 11 years, 329 second-feet.

Extremes.- Maximum discharge during year, 9,390 second-feet May 8 (gage height, 10.92 feet); no flow Oct. 1 to Nov. 19, Aug. 19-23.
1924-35: Maximum discharge observed, about 33,600 second-feet May 30, 1929 (gage height, 16.7 feet, present datum); no flow at times.

Remarks.- Records good except those above 50 second-feet, which are fair. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	390	863	24	17	6.5	61	69	10	11	75
2		0	264	536	19	15	7.1	992	81	8.9	4.1	42
3		0	346	325	16	14	346	4,350	61	8.0	2.0	19
4		0	286	153	14	15	826	4,380	67	8.9	2.4	76
5		0	136	72	13	180	504	5,060	276	31	1.9	285
6		0	48	45	12	401	137	7,140	688	26	1.2	393
7		0	37	53	13	136	83	7,740	652	16	1.4	658
8		0	52	109	14	44	61	7,930	642	12	1.2	1,820
9		0	29	54	34	35	38	4,480	444	8.0	.7	2,620
10		0	20	41	138	42	27	2,860	308	5.7	.5	1,930
11		0	15	29	736	30	21	1,820	178	4.4	.3	1,160
12		0	9.9	20	966	23	16	1,100	86	3.6	.2	775
13		0	7.0	15	1,370	19	13	596	56	3.7	.4	838
14		0	5.6	12	1,460	17	10	305	45	3.3	.6	926
15		0	4.2	11	1,560	15	9.2	171	44	2.6	.5	838
16		0	3.3	9.8	1,080	13	8.1	119	106	3.0	.3	601
17		0	78	8.7	737	12	7.1	129	136	2.8	.2	276
18		0	528	8.0	583	10	6.5	983	209	2.7	.1	86
19		0	537	7.4	397	10	204	3,010	242	3.8	0	41
20		2.6	225	246	194	9.4	596	5,040	222	3.6	0	30
21		158	60	557	97	9.0	332	6,640	162	2.8	0	21
22		415	30	726	60	8.9	51	4,930	83	2.1	0	15
23		596	18	850	45	8.3	17	3,910	80	3.5	0	14
24		470	12	544	38	8.0	11	2,780	51	46	1.2	13
25		233	8.5	415	32	8.0	8.9	1,760	31	31	5.7	21
26		119	6.2	334	27	7.6	93	1,010	23	11.2	3.6	280
27		51	581	199	23	7.3	628	469	17	22	1.6	544
28		38	1,870	94	20	6.8	722	214	15	20	.8	1,060
29		46	2,620	53	-	6.3	241	125	12	5.7	.5	634
30		298	2,250	38	-	6.3	108	88	11	7.5	4.6	208
31		-	1,610	29	-	6.5	-	68	-	28	6.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	2,426.6	596	0	80.9	4,810
December	12,086.7	2,620	3.3	390	23,970
Calendar year 1934	144,168.8	10,600	0	395	286,000
January	6,456.9	863	7.4	208	12,810
February	9,722	1,560	12	347	19,280
March	1,140.4	401	6.3	36.8	2,260
April	5,138.4	826	6.5	171	10,190
May	80,260	7,930	61	2,589	159,200
June	5,097	688	11	170	10,110
July	347.8	46	2.1	11.2	690
August	53.9	11	0	1.74	107
September	16,299	2,620	13	543	32,330
Water year 1934-35	139,028.7	7,930	0	381	275,800

Navasota River near Easterly, Tex.

Location.- Water-stage recorder, lat. 31°10', long. 96°18', at highway bridge 3,000 feet above Missouri Pacific Railroad bridge and 6 miles northeast of Easterly, Robertson County. Zero of gage is 276.42 feet above mean sea level.

Drainage area.- 949 square miles.

Records available.- March 1924 to September 1935.

Average discharge.- 11 years, 416 second-feet.

Extremes.- Maximum discharge during year, 18,000 second-feet Apr. 27 (gage height, 17.59 feet); minimum, 0.4 second-foot Oct. 21 to Nov. 2.
1924-35: Maximum discharge, about 48,500 second-feet Sept. 5, 1932 (gage height, 21.9 feet); no flow at times.

Remarks.- Records fair. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	0.4	186	100	24	39	27	1,240	466	82	127	1.7
2	1.1	.4	294	63	22	38	35	1,310	334	55	62	1.4
3	1.0	.5	380	47	21	38	84	2,230	233	40	39	1.2
4	1.0	5.9	339	36	20	42	59	2,010	140	35	27	25
5	1.0	20	257	28	19	99	41	8,680	85	32	18	22
6	.8	26	215	23	18	741	48	13,200	65	28	12	38
7	.7	61	158	32	24	1,440	76	9,450	55	24	8.4	59
8	.7	41	78	44	79	1,270	138	5,160	50	21	6.4	45
9	.6	30	48	51	4,480	852	335	3,280	82	18	5.0	63
10	.6	20	33	175	8,330	813	226	1,830	135	16	4.4	234
11	.5	12	25	141	5,520	316	78	499	87	14	3.7	791
12	.5	6.8	20	66	4,840	136	49	215	59	20	3.0	1,260
13	.5	2.9	15	46	3,820	91	37	154	47	18	2.9	838
14	.5	1.8	12	34	3,120	70	29	116	40	15	2.4	290
15	.5	1.5	10	28	2,390	60	25	348	43	13	2.2	79
16	.5	1.3	9.5	24	1,760	53	27	3,530	102	12	1.9	45
17	.5	1.2	111	21	852	47	29	2,650	262	13	1.8	31
18	.5	8.8	294	19	261	43	26	2,980	993	13	1.8	22
19	.5	20	806	18	141	41	424	6,320	2,520	12	1.7	16
20	.5	202	786	30	97	40	616	12,500	2,460	10	1.6	13
21	.4	916	380	258	78	38	186	13,200	822	8.7	1.8	9.9
22	.4	1,300	118	367	67	36	110	9,450	1,370	7.2	6.4	8.0
23	.4	931	59	557	60	34	93	4,790	1,410	8.4	5.7	6.4
24	.4	366	42	438	56	33	64	2,330	1,880	46	4.0	24
25	.4	142	32	164	53	32	51	794	814	38	3.0	128
26	.4	65	27	74	50	31	6,190	254	530	54	2.6	275
27	.4	43	102	51	46	31	14,900	155	113	38	2.2	324
28	.4	30	326	41	42	29	8,130	116	66	34	1.7	696
29	.4	40	257	34	-	28	4,330	96	56	158	1.6	702
30	.4	98	352	29	-	28	2,670	170	56	215	7.2	194
31	.4	-	228	26	-	27	-	294	-	141	3.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	16.1	1.2	0.4	0.58	36
November	4,394.5	1,300	.4	146	8,720
December	5,999.5	806	9.5	194	11,900
Calendar year 1934	112,588.4	13,600	.2	308	223,300
January	3,065	557	18	98.9	6,080
February	36,290	8,330	18	1,296	71,980
March	6,615	1,440	27	213	13,120
April	39,133	14,900	25	1,304	77,620
May	109,251	13,200	96	3,524	216,700
June	15,375	2,520	40	512	30,500
July	1,239.3	215	7.2	40.0	2,460
August	371.4	127	1.6	12.0	737
September	6,242.6	1,260	1.2	208	12,380
Water year 1934-35	227,994.4	14,900	.4	625	452,200

Brazos Valley Irrigation Co.'s canal near Fulshear, Tex.

Location.- Water-stage recorder, lat. 29°39', long. 95°54', 1 mile below point of diversion and 3 miles south of Fulshear, Fort Bend County.

Records available.- October 1931 to September 1935.

Extremes.- Maximum discharge during year, 187 second-feet June 26 (gage height, 8.49 feet); no flow at times.
1931-35: Maximum discharge, 280 second-feet July 11, 1932, maximum gage height, 9.63 feet May 24, 1934; no flow at times.

Remarks.- Records fair. Station above all diversions from canal. Flow controlled by pumping plant. Canal diverts from left bank of Brazos River 18 miles above Richmond. Water used for irrigation near Sugarland.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	90	144	46	109
2								0	21	142	115	108
3								0	1.9	53	72	104
4								0	0	25	117	55
5								0	2.2	136	117	79
6								0	57	147	117	72
7								0	6.9	47	116	11
8								0	0	121	113	0
9								0	0	103	114	0
10								0	43	45	112	0
11								0	82	52	110	0
12								0	51	65	109	0
13								0	0	60	109	0
14								0	0	66	109	0
15								0	0	57	99	59
16								0	78	71	49	142
17								0	136	102	90	80
18								0	156	122	62	20
19								0	79	120	69	29
20								0	158	119	107	116
21								0	168	118	52	100
22								0	21	122	107	0
23								0	62	72	88	0
24								0	76	0	37	0
25								0	64	47	40	0
26								0	142	100	106	0
27								0	148	19	64	0
28								0	143	34	15	0
29								0	141	0	108	0
30								12	139	0	109	0
31								127	-	0	109	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1934	15,745.4	24b	0	43.1	31,220
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	139	127	0	4.5	276
June	2,086	168	0	69.5	4,140
July	2,307	147	0	74.4	4,580
August	2,788	117	16	89.9	5,530
September	1,084	142	0	36.1	2,150
Water year 1934-35	8,404	168	0	23.0	16,680

Richmond Irrigation Co.'s canal near Richmond, Tex.

Location.- Water-stage recorder, lat. 29°34', long. 95°47', 600 feet below crossing of Richmond-Rosenberg highway, about 1½ miles below point of diversions, and 1½ miles west of Richmond, Fort Bend County.

Records available.- October 1931 to September 1935.

Extremes.- Maximum discharge not determined; no flow at times.
1931-35: Maximum discharge not determined; no flow at times.

Remarks.- Records fair; those for May 14-24 and June 26 to July 15 estimated on basis of pump records for Richmond Irrigation Co.'s plant at head of canal. Station above all diversions from canal. Flow controlled by pumping plant. Canal diverts from right bank of Brazos River 6 miles above Richmond. Water used for irrigation south of Richmond.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	112	122		81	
2							0	102	122		3.3	
3							0	81	107		0	
4							0	13	116		0	
5							0	0	104		18	
6							0	0	116		112	
7							0	0	119		112	
8							0	0	80	112	112	
9							0	0	69		112	
10							0	0	71		112	
11							0	0	37		112	
12							0	0	0		112	
13							0	0	0		112	
14							0	0	0		112	
15							0		0		112	
16							0	60	0	106	112	
17							0		34	108	112	
18							0	0	119	105	112	
19							0	0	60	105	108	
20							0	0	79	105	108	
21							0	0	130	105	108	
22							0	0	126	102	108	
23							0	0	119	102	59	
24							65	0	119	65	0	
25							112	0	122	0	17	
26							108	0		0	102	
27							116	0		0	102	
28							119	0		0	94	
29							105	0	116	14	108	
30							108	0		77	108	
31							-	52	-	70	52	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1934	9,120	119	0	25.0	18,100
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	733	119	0	24.4	1,450
May	540	-	0	17.4	1,070
June	2,561	-	0	85.4	5,080
July	2,746	-	0	88.6	5,450
August	2,632.3	112	0	84.9	5,220
September	0	0	0	0	0
Water year 1934-35	9,212.3	-	0	25.2	18,270

Colorado River at Ballinger, Tex.

Location.- Water-stage recorder, lat. 31°43'50", long. 99°56'25", at Ballinger-Paint Rock highway bridge in Ballinger, Runnels County, 2,000 feet above Elm Creek. Zero of gage is 1,593.74 feet above mean sea level.

Drainage area.- 16,840 square miles, of which about 11,500 square miles is probably noncontributing.

Records available.- December 1915 to September 1935.

Average discharge.- 20 years, 424 second-feet.

Extremes.- Maximum discharge during year, 45,300 second-feet May 18 (gage height, 28.25 feet, affected by backwater); no flow Oct. 26 to Nov. 1.
1915-35: Maximum discharge, that of May 18, 1935; no flow at times.

Remarks.- Records good except those estimated or those affected by backwater, which are poor. Discharge affected by backwater from Elm Creek and gage-height graph corrected for this affect Feb. 8, 9, Apr. 19, 20, May 14-18, June 2, 3, and Sept. 2-8, 9. Small diversions for irrigation above station affect low flow.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	0.0	26	0.9	1.1	3.0	28	7.7	3,330	123	113	170
2	25	.1	22	.9	1.3	3.0	23	7.2	11,700	103	97	3,150
3	16	.2	19	1.1	1.1	2.7	17	6.6	20,300	66	82	14,600
4	9.3	.3	16	.9	1.1	2.7	12	364	3,960	76	70	13,800
5	6.1	.3	14	.9	1.3	2.7	9.3	1,440	6,060	67	62	16,400
6	3.8	.2	12	.9	4.0	2.2	6.6	497	4,450	56	54	6,570
7	3.4	.3	10	.7	4.6	2.2	5.5	224	*2,040	48	46	* 1,500
8	2.7	.3	7.7	* .7	2,500	2.0	4.6	107		51	38	1,050
9	2.2	.4	6.1	* .7	4,420	2.0	3.6	59		100	34	15,400
10	1.3	.5	5.5	* .7	356	2.2	330	147	*682	76	32	12,700
11	.9	.5	6.1	* .7	303	2.5	36	543		59	30	4,490
12	.7	.5	5.5	.7	130	2.0	9.3	300		48	26	1,660
13	.6	.6	5.0	.7	130	2.0	5.0	133	*2,460	143	25	1,100
14	.5	.9	4.6	.6	86	3.4	3.4	4,790	*7,730	97	117	583
15	.4	572	4.2	.5	51	3.8	2.5	24,800	17,100	67	596	385
16	.3	488	3.8	.5	30	3.0	2.2	20,500	3,680	41	166	290
17	.3	220	3.6	.4	22	2.5	2.0	12,100	*2,730	102	70	231
18	.4	120	3.0	1.3	16	2.2	2.2	33,400		153	46	193
19	.4	243	3.0	1.7	15	2.0	9,530	11,100		218	149	167
20	.3	1,420	3.0	1.3	13	2.2	3,700	3,300		401	116	147
21	.2	1,920	2.7	.9	11	2.2	828	1,520	*686	517	82	130
22	.2	666	2.5	.7	8.5	2.0	228	766		6,070	2,390	116
23	.2	403	2.2	.7	7.7	1.7	94	426		14,500	3,070	107
24	.1	231	1.7	.7	6.6	1.3	51	1,290		6,330	658	150
25	.1	150	2.0	.7	5.5	1.1	107	801	397	2,200	384	369
26	0	97	2.2	.9	4.2	.9	34	476	264	924	193	3,650
27	0	67	2.2	.9	4.2	64	18	332	367	450	130	* 2,840
28	0	51	2.0	.9	3.4	204	14	220	272	327	160	* 766
29	0	38	1.7	1.1	-	116	10	157	204	260	167	* 420
30	0	32	1.3	1.1	-	73	8.5	126	157	200	203	299
31	0	-	1.1	1.1	-	46	-	113	-	143	320	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	113.4	38	0.0	3.66	225
November	6,723.1	1,920	0.0	224	13,340
December	201.9	26	1.1	6.51	400
Calendar year 1934	25,688.5	1,920	0	70.4	50,940
January	26.5	1.7	.4	.85	53
February	8,141.6	4,420	1.1	291	16,150
March	562.5	204	.9	18.1	1,120
April	15,624.9	9,530	2.0	521	30,990
May	120,052.5	33,400	6.6	3,873	238,100
June	96,777	20,300	157	3,226	192,000
July	34,118	14,500	41	1,101	67,670
August	9,726	3,070	25	314	19,290
September	103,433	16,400	107	3,448	205,200
Water year 1934-35	395,500.4	33,400	0	1,084	784,500

*Estimated or partly estimated.

Colorado River near San Saba, Tex.

Location.- Water-stage recorder, lat. 31°12'45", long. 98°34', at Red Bluff crossing, 5.7 miles below confluence with San Saba River and 9.2 miles east of San Saba, San Saba County. Zero of gage is 1,096.22 feet above mean sea level.

Drainage area.- 30,600 square miles, of which about 11,800 square miles is probably noncontributing.

Records available.- August 1930 to September 1935. October 1915 to October 1922 at site near Chadwick, 1.8 miles upstream.

Extremes.- Maximum discharge during year, 86,000 second-feet May 19 (gage height, 41.00 feet); minimum, 31 second-feet Oct. 31.

1915-22, 1930-35: Maximum gage height, about 54.0 feet, present datum, Apr. 6, 1922 (discharge not determined); minimum discharge, 1.5 second-feet Aug. 22, 23, 1918.

Maximum stage known, about 57.5 feet, present datum, Sept. 25, 1900.

Remarks.- Records good. Gage-height record partly estimated on basis of staff-gage readings May 8, 9, 24-30, June 8, 10-12, 18-25. Diverions above station for irrigation and municipal use.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	33	190	87	87	143	80	423	3,140	1,110	1,600	767
2	33	52	167	82	85	133	75	791	5,700	1,030	1,050	795
3	33	119	143	82	82	130	70	409	10,200	996	880	1,740
4	33	72	127	82	82	133	70	1,910	13,700	938	823	27,300
5	40	75	115	80	82	943	112	5,090	24,200	880	734	32,000
6	40	53	106	80	82	966	118	4,150	27,000	852	563	35,600
7	40	44	98	82	93	439	98	1,680	22,400	823	480	38,000
8	42	42	93	80	1,150	310	87	1,190	11,300	795	433	37,000
9	40	40	90	80	4,110	223	77	808	3,700	767	397	35,300
10	40	40	87	82	10,400	179	72	2,570	2,410	756	454	29,400
11	55	40	82	85	11,700	153	67	3,170	1,960	740	475	30,600
12	58	40	82	87	2,880	136	63	8,400	1,760	728	501	27,900
13	51	40	80	82	1,240	208	424	1,900	2,860	712	569	14,400
14	58	510	80	75	938	210	397	1,310	5,630	696	637	5,240
15	63	959	80	77	685	153	240	3,850	54,600	922	1,020	3,670
16	58	1,700	77	82	511	124	167	19,600	54,100	1,190	795	2,740
17	58	1,680	82	82	433	115	127	26,700	39,200	938	750	2,160
18	55	1,310	85	80	392	109	109	56,700	14,400	795	946	1,680
19	53	795	85	191	310	109	2,470	75,700	5,500	762	823	1,380
20	58	642	85	2,350	263	106	10,200	56,800	3,400	740	723	1,140
21	49	690	80	1,060	236	106	14,200	50,500	2,410	723	663	1,020
22	44	1,970	143	537	215	112	10,100	43,000	2,250	1,180	823	996
23	38	1,730	150	345	240	106	1,680	8,640	1,920	1,230	828	1,080
24	33	1,140	133	232	240	98	1,690	2,560	1,410	8,170	2,350	952
25	33	734	124	183	194	95	1,290	2,720	2,250	15,100	3,530	880
26	40	563	109	150	175	93	1,380	2,770	2,160	15,000	1,380	1,380
27	42	418	106	127	157	85	4,260	2,330	2,600	4,380	1,140	1,940
28	35	320	103	115	147	85	1,300	2,000	3,440	2,520	967	3,850
29	33	264	103	109	-	95	756	1,560	1,490	2,210	795	3,450
30	33	215	98	98	-	85	527	1,340	1,210	2,440	1,260	2,000
31	33	-	95	95	-	80	-	1,210	-	3,050	1,200	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,359	63	33	43.8	2,700
November	16,320	1,970	33	544	32,370
December	3,278	190	77	106	6,500
Calendar year 1934	257,298	36,500	27	705	510,400
January	7,059	2,350	75	228	14,000
February	37,209	11,700	82	1,329	73,800
March	6,064	968	80	196	12,030
April	52,326	14,200	63	1,744	103,800
May	391,781	75,700	409	12,640	777,100
June	328,300	54,600	1,210	10,940	651,200
July	73,173	15,100	696	2,360	145,100
August	29,589	3,530	397	954	58,690
September	346,360	38,000	767	11,550	687,000
Water year 1934-35	1,292,818	75,700	33	3,542	2,564,000

Colorado River at Austin, Tex.

Location.- Water-stage recorder, lat. 30°16', long. 97°45', at Congress Avenue viaduct in Austin, Travis County, 1 mile below mouth of Barton Creek. Zero of gage is 421.86 feet above mean sea level (revised by general adjustment of 1929).

Drainage area.- 38,150 square miles, of which about 11,800 square miles is probably noncontributing.

Records available.- February 1898 to September 1935.

Average discharge.- 37 years, 2,637 second-feet.

Extremes.- Maximum discharge during year, 481,000 second-feet June 15 (gage height, 41.2 feet, from flood marks on gage structure); minimum, 30 second-feet Oct. 23.
1898-1935: Maximum discharge, that of June 15, 1935; minimum, 13 second-feet Aug. 18, 1918.

Remarks.- Records good. Gage heights for June 15, 16 from graph based on numerous readings during period. About 36,000 acres irrigated above station. Low-water flow affected by diversions of the City of Austin pumping plant. Flow partly regulated by dams on tributaries upstream.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	111	48	*607	256	308	*355	195	1,580	7,630	4,600	4,450	1,080
2	107	* 46	*499	214	285	*355	221	1,180	8,440	3,620	4,300	1,430
3	93	* 227	*436	214	263	*355	277	942	7,900	2,980	3,590	1,430
4	93	* 233	*412	214	242	*355	324	902	14,000	2,620	2,400	3,270
5	107	* 143	*355	201	228	*277	300	1,260	14,600	2,420	1,760	9,650
6	102	* 86	*355	207	242	*277	263	6,160	25,400	2,160	1,450	56,400
7	79	* 67	*339	221	285	*277	249	8,260	43,400	1,950	1,250	52,200
8	65	* 67	*277	207	265	*277	189	6,650	29,800	1,800	1,150	49,300
9	62	* 67	*242	201	332	*889	207	2,940	20,500	1,690	1,010	55,500
10	59	* 67	*256	207	363	915	228	*3,280	10,800	1,590	874	88,300
11	48	* 67	*207	195	3,860	789	277	*4,460	6,500	1,500	824	56,700
12	43	* 67	*207	201	12,700	617	256	5,650	4,970	1,450	709	42,200
13	43	* 67	*207	214	10,700	517	207	4,320	8,840	1,420	668	35,200
14	46	* 79	*207	201	4,940	454	* 207	8,400	13,700	1,420	626	26,400
15	43	* 107	*221	201	2,610	396	* 201	3,820	323,000	1,310	668	14,200
16	43	* 190	*214	195	1,690	*436	* 207	6,820	143,000	1,230	739	9,330
17	42	*1,090	*256	201	1,300	*316	* 170	18,500	81,200	1,180	1,200	7,240
18	43	*1,420	*201	201	1,080	*242	* 163	*61,100	57,500	1,220	1,180	5,660
19	43	*2,000	*170	201	902	*316	* 339	127,000	32,400	1,670	1,170	4,600
20	48	*2,130	*207	256	740	*396	* 371	88,200	*17,900	1,590	1,020	3,770
21	54	*1,560	*195	228	*627	*263	* 649	77,000	*13,000	1,580	980	3,070
22	48	*1,210	158	120	*627	*263	* 7,680	62,800	10,300	1,330	1,090	2,620
23	43	* 915	189	791	*526	*263	*14,000	55,300	17,200	1,330	1,020	2,420
24	42	* 826	195	1,180	*526	207	*10,200	28,600	10,300	1,560	1,170	2,320
25	43	*1,580	195	851	*526	214	* 4,090	* 8,420	7,880	4,750	990	2,590
26	39	*1,600	201	661	*355	195	2,110	* 5,310	5,660	10,300	1,020	11,500
27	32	*1,210	256	597	*355	207	2,110	4,490	5,050	16,100	3,560	6,380
28	40	* 942	249	472	*355	170	1,710	4,460	5,050	12,300	2,580	5,360
29	40	* 814	263	428	-	170	3,400	4,630	5,660	7,080	1,630	4,150
30	40	* 695	285	387	-	285	2,880	8,710	6,600	5,820	1,350	4,900
31	42	-	277	339	-	249	-	9,020	-	5,360	1,180	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,783	111	32	57.5	3,540
November	19,622	2,130	46	654	38,920
December	8,338	607	158	269	16,540
Calendar year 1934	395,680	42,300	32	1,084	784,700
January	10,262	1,180	120	331	20,350
February	47,252	12,700	228	1,688	93,720
March	11,297	915	170	364	22,410
April	53,900	14,000	170	1,797	106,900
May	630,164	127,000	902	20,330	1,250,000
June	956,180	323,000	4,970	31,940	1,901,000
July	106,930	16,100	1,180	3,449	212,100
August	47,608	4,450	626	1,536	94,430
September	569,170	88,300	1,080	18,970	1,129,000
Water year 1934-35	2,464,506	323,000	32	6,752	4,889,000

*Recorder not operating properly and gage-height graph plotted from once-daily gage readings furnished by U. S. Weather Bureau.

Evaporation at Austin, Tex.

Location.- In State Capitol grounds, lat. 30°16', long. 97°44', at Austin, Travis County.

Records available.- June 1930 to September 1935. April 1916 to June 1930 at Hill ranch, 5 miles southeast of present station.

Equipment.- One land evaporation pan with auxiliary equipment consisting of hook gage, rain gage, anemometer, and maximum and minimum thermometers.

Remarks.- Records fair. Observations made daily at 8:00 a.m. Monthly computations made by U. S. Weather Bureau.

Evaporation at Austin, Tex., 1934-35

Month	Temperature (°F)			Mean relative humidity (percent)	Average wind velocity (miles per hour)	Rainfall (inches)	Evaporation (inches)
	Mean maximum	Mean minimum	Mean				
October	89.6	61.0	75.3	52	1.1	0.05	6.178
November	76.0	51.9	64.0	63	1.3	5.40	3.863
December	63.9[b]	41.4[b]	52.6[b]	68	1.1	3.51	2.255
Calendar year 1934	81.9	57.7	69.8	61	1.4	32.68	74.374
January	64.1[d]	42.2	53.2[b]	66	1.3	1.70	2.275
February	65.1	41.7	53.4	61	1.5	3.92	3.171
March	77.9	54.5	66.2	59	2.3	1.12	5.614
April	79.8	58.9	69.4	62	1.4	1.61	4.882
May	81.7	62.1	71.9	71	1.6	10.06	6.073
June	88.7[a]	70.4[a]	79.6[a]	72	1.4	9.95	6.294
July	95.3[b]	73.2[b]	84.2	61	1.0	1.52	8.420
August	96.2[a]	73.0[a]	84.6[a]	58	1.1	.22	8.894
September	85.9[b]	65.7[b]	75.8[b]	71	.8	9.20	5.410
Water year 1934-35	80.4	58.0	69.2	64	1.3	48.26	63.329

Note: Relative humidity values are for regular U. S. Weather Bureau station located 2,000 feet away, 129 feet above ground, and 82 feet above evaporation pan. Letters following figures indicate number of days of missing record: a, 1 day; b, 2 days, etc.

Colorado River at Smithville, Tex.

Location.- Water-stage recorder, lat. 30°1', long. 97°10', 1,200 feet (revised) above highway bridge at Smithville, Bastrop County. Zero of gage is 270.14 feet above mean sea level.

Drainage area.- 39,650 square miles, of which about 11,800 square miles is probably non-contributing.

Records available.- July 1930 to September 1935.

Extremes.- Maximum discharge during year, 305,000 second-feet, by slope-area method, June 16 (gage height, 42.5 feet, from flood marks); minimum, 76 second-feet Nov. 2. 1930-35: Maximum discharge, that of June 16, 1935; minimum, that of Nov. 2, 1934. Maximum stage known, about 47.4 feet in December 1913.

Remarks.- Records good below and poor above 120,000 second-feet. Water-stage recorder submerged and gage-height record obtained from U. S. Weather Bureau readings and flood marks for part of days June 16-18. Diversions above station for irrigation and municipal uses. Low flow partly regulated by reservoirs upstream.

. Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	191	79	1,070	391	416	497	350	3,030	8,370	6,600	4,850	1,750
2	172	87	810	367	387	489	377	2,480	17,900	5,150	4,400	1,550
3	166	134	691	353	360	493	667	2,480	8,540	4,400	3,970	1,700
4	161	131	605	324	340	489	1,580	9,140	7,280	3,830	3,690	2,000
5	155	92	533	304	317	464	510	17,600	14,900	3,550	2,900	2,600
6	150	131	489	301	304	460	419	11,700	16,600	3,360	2,320	16,000
7	147	228	457	297	301	434	367	5,300	27,500	3,160	2,060	53,300
8	142	197	419	285	297	423	344	7,630	36,500	2,900	1,850	55,200
9	139	164	394	278	380	449	317	6,790	26,700	2,710	1,700	42,500
10	134	139	360	276	770	430	304	3,940	19,000	2,540	1,500	55,100
11	126	123	337	269	3,460	932	282	8,760	9,840	2,380	1,350	68,300
12	118	113	320	260	4,620	888	263	5,140	5,940	2,270	1,230	50,800
13	113	113	310	260	15,400	810	263	5,300	7,860	2,220	1,140	36,400
14	110	113	294	248	10,300	646	294	4,550	17,800	2,160	1,080	30,700
15	107	131	288	246	5,400	578	291	7,820	29,000	2,110	1,040	22,200
16	105	123	282	248	3,360	519	269	5,000	219,000	2,000	1,000	12,600
17	102	118	357	248	2,430	460	260	6,990	184,000	1,900	1,000	8,730
18	100	134	515	254	1,950	430	263	23,300	101,000	1,900	1,190	7,110
19	102	979	419	251	1,650	412	257	57,800	60,500	1,850	1,500	5,930
20	100	1,850	337	674	1,400	377	246	90,500	28,400	1,950	1,550	5,000
21	97	3,360	310	2,330	1,190	360	248	92,600	17,400	2,110	1,500	4,400
22	94	2,380	269	776	1,010	370	347	74,200	13,300	2,110	1,380	3,970
23	92	1,750	263	445	870	367	3,940	59,600	12,000	1,960	1,400	3,550
24	92	1,340	263	334	810	344	12,400	50,200	15,200	1,850	1,400	3,360
25	92	1,040	251	816	718	330	8,620	23,700	9,560	1,900	1,450	3,290
26	92	1,080	254	1,180	628	324	4,340	8,920	7,630	3,990	1,400	4,110
27	89	1,750	3,490	888	622	307	2,710	5,700	6,260	10,200	1,360	8,910
28	84	1,750	5,610	696	547	301	2,220	5,610	5,770	16,300	2,370	6,430
29	84	1,550	1,320	599	-	288	1,950	5,240	5,610	11,800	2,900	5,610
30	84	1,450	567	510	-	310	2,180	4,700	6,090	6,770	2,380	4,700
31	81	-	430	457	-	297	-	8,390	-	5,300	1,950	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,621	191	81	117	7,180
November	22,629	3,360	79	754	44,880
December	22,314	5,610	251	720	44,260
Calendar year 1934	524,303	37,100	79	1,436	1,040,000
January	15,371	2,330	246	496	30,490
February	60,237	15,400	297	2,151	119,500
March	14,279	932	288	461	28,320
April	46,878	12,400	246	1,563	92,980
May	632,110	90,500	2,480	20,390	1,254,000
June	945,350	219,000	5,610	31,510	1,875,000
July	123,220	16,300	1,850	3,975	244,400
August	60,810	4,850	1,000	1,962	120,600
September	527,300	68,300	1,550	17,590	1,047,000
Water year 1934-35	2,474,618	219,000	79	6,780	4,909,000

Colorado River near Eagle Lake, Tex.

Location.- Water-stage recorder, lat. 29°35', long. 96°25', at Lakeside Irrigation Co.'s pumping plant 1.2 miles below San Antonio & Aransas Pass Railway bridge and 5 miles southwest of Eagle Lake, Colorado County. Prior to May 19, 1935, water-stage recorder at highway bridge 6,390 feet upstream of same datum. Zero of gage is 139.56 feet above mean sea level.

Drainage area.- 40,940 square miles, of which about 11,800 square miles is probably noncontributing.

Records available.- September 1930 to September 1935. Comparable records at Columbus, 18 miles upstream, January 1903 to December 1911, May 1916 to November 1930.

Extremes.- Maximum discharge during year, 177,000 second-feet June 19 (gage height, 29.45 feet); minimum, 129 second-feet Nov. 2.
1930-35: Maximum discharge, that of June 19, 1935; minimum not determined. Maximum stage known, about 32.0 feet, on present gage, in December 1913.

Remarks.- Records good except those for July 6-16 and Sept. 22-26, which are fair and were estimated on basis of records at Smithville. Discharge tables include flow of Lakeside Irrigation Co.'s canal. Low flow partly regulated by reservoirs upstream. Diversions above station for irrigation and municipal uses. The Lakeside Irrigation Co. furnished pump records of canal which were used in estimating missing canal records.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	830	138	2,260	1,130	685	757	430	2,260	7,350	6,510	5,880	2,660
2	322	157	1,610	825	608	701	376	4,210	11,000	7,040	5,190	2,100
3	292	261	1,250	693	562	662	1,340	16,700	16,700	6,150	4,850	1,830
4	261	199	973	615	518	669	1,200	10,200	11,800	5,310	4,340	1,800
5	239	196	851	562	490	837	725	32,000	9,830	4,740	4,260	2,750
6	223	196	749	532	469	741	1,250	31,600	15,400		3,720	3,230
7	215	178	741	511	511	615	774	13,700	18,100		3,040	15,000
8	207	174	749	462	504	562	540	6,450	26,800		2,580	44,800
9	203	157	669	449	585	631	455	7,500	34,100		2,220	49,800
10	203	171	570	436	554	834	424	8,230	25,800		1,940	40,800
11	192	219	511	418	2,740	662	382	6,120	18,400	2,920	1,710	45,800
12	185	211	469	412	5,350	555	354	6,750	11,800		1,560	54,700
13	185	192	455	399	7,140	615	332	7,140	7,550		1,430	51,200
14	181	181	430	382	14,600	861	317	5,350	7,550		1,300	34,600
15	178	174	412	387	9,860	825	302	5,650	14,400		1,310	27,200
16	174	181	399	382	6,450	757	297	6,110	27,900		1,210	19,600
17	167	196	393	371	4,490	631	317	6,890	58,700	2,220	1,120	13,200
18	164	199	399	359	3,240	592	317	16,300	116,000	2,150	1,060	9,920
19	161	207	568	359	2,520	562	392	53,200	164,000	2,050	1,020	8,390
20	157	243	774	548	2,000	532	3,740	61,000	123,000	2,060	1,100	7,150
21	157	727	623	1,050	1,710	497	2,120	65,300	67,800	1,970	1,590	6,190
22	154	4,410	511	1,510	1,440	469	774	71,700	24,300	2,110	1,690	
23	151	3,720	436	1,550	1,260	436	462	77,800	16,100	2,340	1,660	
24	148	2,330	399	1,240	1,140	418	393	74,600	13,000	2,290	1,510	4,940
25	145	1,650	382	808	1,010	418	7,350	63,600	14,600	2,020	1,490	
26	138	1,400	348	631	879	399	9,200	30,900	10,900	1,890	1,380	
27	138	1,180	2,230	555	825	376	8,720	13,900	8,670	2,350	1,490	7,550
28	135	1,050	12,000	1,000	766	354	5,160	8,920	7,420	7,350	1,550	9,700
29	135	1,480	8,020	973	-	348	2,920	7,290	6,480	13,600	1,450	7,760
30	141	2,140	4,180	842	-	443	2,460	7,490	6,430	11,300	2,480	6,190
31	141	-	2,000	749	-	631	-	6,000	-	7,250	3,130	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,322	830	135	204	12,540
November	23,917	4,410	138	797	47,440
December	46,361	12,000	348	1,496	91,960
Calendar year 1934	661,197	34,800	135	1,811	1,312,000
January	21,140	1,550	359	682	41,930
February	72,906	14,600	469	2,604	144,600
March	18,390	861	348	593	36,480
April	53,823	9,200	297	1,794	106,800
May	734,860	77,800	2,260	23,700	1,458,000
June	901,880	164,000	6,430	30,060	1,789,000
July	124,820	13,600	1,890	4,026	247,600
August	70,260	5,880	1,020	2,266	139,400
September	498,620	54,700	1,800	16,620	989,000
Water year 1934-35	2,573,299	164,000	135	7,050	5,105,000

Elm Creek at Ballinger, Tex.

Location.- Water-stage recorder, lat. 31°45', long. 99°56'50", 1,000 feet above city water-supply storage dam in Ballinger, Runnels County, and 1¼ miles above confluence with Colorado River. Zero of gage is 1,617.72 feet above mean sea level.

Drainage area.- 458 square miles.

Records available.- April 1932 to September 1935.

Extremes.- Maximum discharge during year, about 26,100 second-feet Sept. 3 (gage height, 10.30 feet, from flood marks, probably slightly affected by backwater from Colorado River); no flow at times.
1932-35: Maximum discharge, that of Sept. 3, 1935; no flow at times.

Remarks.- Records poor below and good above 50 second-feet, except those for period when gage heights were partly estimated, May 18, June 2, 3, Sept. 2, 3, 9, which are fair and those estimated Sept. 16-30, which are poor. Discharge probably slightly affected by backwater from Colorado River May 18, Sept. 30. Low-water flow affected by diversions of the Ballinger city pumping plant. That part of dam below a 7.0-foot stage, forming control, was raised 3.27 feet Feb. 5, 1935.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Feb. 10-15, May 20-23, July 14-18, Aug. 22-27)

3.80	0	4.20	284	6.00	3,805
3.85	1.0	4.40	544	6.50	5,340
3.88	4.5	4.60	843	7.00	7,270
3.90	11	4.80	1,185	7.50	9,580
3.95	39	5.00	1,550	8.00	12,180
4.00	74	5.50	2,585	9.00	18,040
4.10	169				

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0		0	0	1,160	0.6	1.5	0.4
2					0		0	0	3,210	.6	1.0	2,680
3					0		0	0	6,330	.6	.6	17,300
4					0		0	0	195	.2	.2	1,370
5					0		0	1.8	1,480	0	0	4,930
6					0		0	4.5	158	0	0	1,820
7					0		0	1.0	52	0	0	241
8					885		0	.6	27	0	0	101
9					1,300		0	.2	16	0	0	5,560
10					74		135	0	11	0	0	269
11					16		.4	0	7.0	0	0	74
12					11			0	48	0	0	45
13					33		0	0	1,650	133	0	33
14					33		0	1,550	676	39	0	21
15					1		0	8,760	544	4.5	223	16
16					0		0	1,600	466	1.5	33	
17					0		0	716	118	1.0	7.0	
18					0		182	10,300	27	.6	2.5	
19					0		6,890	453	11	181	1.0	11
20					0		1,100	52	4.5	99	.1	
21					0		59	21	2.5	333	0	
22					0		16	16	2.5	99	37	
23					0		4.5	11	2.5	354	4.5	39
24					0		1.0	793	552	925	2.5	
25					0		272	59	66	319	1.0	
26					0		27	16	16	33	.2	11
27					0		2.5	4.5	7.0	7.0	0	
28					0		.6	1.5	4.5	158	0	
29					-		.2	1.5	2.5	200	0	
30					-		-	475	1.5	16	21	7.0
31					-		-	344	-	4.5	1.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1934	5,220.2	786	0	14.3	10,350
January	0	0	0	0	0
February	2,353	1,300	0	84.0	4,670
March	0	0	0	0	0
April	8,690.2	6,890	0	290	17,240
May	25,181.6	10,300	0	e12	49,950
June	16,847.5	6,330	1.5	562	33,420
July	2,880.1	925	0	92.9	5,710
August	337.1	223	0	10.9	669
September	34,649.4	17,300	.4	1,155	68,730
Water year 1934-35	90,938.9	17,300	0	249	180,400

South Concho River at Christoval, Tex.

Location.- Water-stage recorder, lat. 31°13', long. 100°30', at Panhandle & Santa Fe Railway bridge in Christoval, Tom Green County. Zero of gage is 2,010.2 feet above mean sea level (railway datum).

Drainage area.- 434 square miles.

Records available.- February 1930 to September 1935.

Extremes.- Maximum discharge during year, 8,740 second-feet Sept. 5 (gage height, 9.48 feet); minimum, 2.8 second-feet Aug. 17-21, 26-28.
1930-35: Maximum stage, 20.20 feet Oct. 13, 1930 (discharge not determined); minimum discharge, 2.1 second-feet July 17-19, 26-29, Aug. 28 to Sept. 5, 1934.
Flood of Aug. 6, 1906, reached a stage of about 20.0 feet, but discharge was probably greater than flood of Oct. 13, 1930, because railroad dump did not confine flow in 1906.

Remarks.- Records good except those for May 25-31, when gage-height record was estimated, which are fair. Low flow materially affected by diversions of the Irrigation Canal 600 feet upstream. (See miscellaneous discharge measurements of canal.)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.4	4.4	5.0	5.0	3.4	7.9	3.9	11	310	18	3.3	5.0
2	4.4	5.0	5.0	5.0	3.4	8.8	4.4	9.7	142	18	3.0	4.2
3	4.4	5.0	5.0	5.0	3.4	8.8	4.4	9.7	30	18	3.0	419
4	4.4	5.0	5.0	4.4	3.4	11	4.4	9.7	834	15	3.3	303
5	4.4	5.0	5.0	5.0	3.4	8.8	4.4	11	220	14	3.0	2,090
6	5.0	5.0	5.0	5.0	4.4	9.7	5.0	9.7	60	14	3.0	519
7	5.0	5.0	5.0	4.4	3.9	7.9	5.0	9.7	24	14	3.0	40
8	5.0	5.6	5.0	4.4	5.6	3.4	5.0	9.7	19	14	3.0	162
9	5.0	5.6	5.0	4.4	12	3.0	4.4	759	19	14	3.0	386
10	5.6	6.3	5.0	4.4	12	3.0	5.0	369	19	14	3.0	80
11	5.6	6.3	5.0	4.4	12	3.0	5.0	16	21	14	3.0	30
12	5.6	6.3	5.0	4.4	12	3.4	5.0	9.6	160	11	3.0	28
13	5.0	6.3	5.0	4.4	12	3.9	5.6	8.1	513	6.6	3.0	27
14	4.4	7.1	5.0	4.4	12	3.9	5.6	6.6	72	6.0	3.3	28
15	4.4	11	5.0	4.4	12	4.4	5.6	12	32	5.4	3.0	29
16	4.4	7.1	5.0	4.4	12	4.4	5.6	6.6	27	5.0	3.0	29
17	4.4	6.3	5.0	4.4	12	4.4	5.6	344	26	5.4	2.8	30
18	5.0	6.3	4.4	5.0	12	4.4	5.6	1,220	25	5.0	2.8	34
19	5.0	8.8	4.4	5.0	12	5.0	6.3	67	25	5.4	2.8	35
20	5.0	6.3	4.4	5.0	12	5.0	6.3	17	23	5.0	2.8	36
21	3.9	5.6	4.4	4.4	12	5.6	6.3	15	20	4.6	2.8	38
22	4.4	5.0	4.4	3.9	12	6.3	6.3	15	21	5.4	3.0	38
23	4.4	5.0	5.0	3.9	12	6.3	7.1	341	21	4.6	4.2	40
24	4.4	5.0	5.0	3.9	12	6.3	7.1	334	20	4.2	3.0	41
25	3.9	5.0	5.0	3.9	12	6.3	78	108	19	4.2	3.0	40
26	3.9	5.6	5.0	3.4	12	7.1	31	59	19	3.6	2.8	40
27	4.4	5.6	5.0	3.4	12	5.0	12	40	19	3.6	2.8	38
28	5.0	5.6	5.0	3.9	12	4.4	11	28	19	3.6	2.8	38
29	4.4	5.6	5.0	3.9	-	4.4	12	19	19	3.3	3.0	38
30	4.4	5.6	5.0	3.9	-	4.4	11	16	18	3.6	544	38
31	4.4	-	5.0	3.9	-	4.4	-	15	-	3.3	37	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	143.9	5.6	3.9	4.64	285
November	177.3	11	4.4	5.91	352
December	152.0	5.0	4.4	4.90	301
Calendar year 1934	3,915.2	656	2.1	10.7	7,760
January	135.2	5.0	3.4	4.36	268
February	270.9	12	3.4	9.68	537
March	174.6	11	3.0	5.63	346
April	283.9	78	3.9	9.46	563
May	3,905.1	1,220	6.6	126	7,750
June	2,798	834	18	93.2	5,550
July	265.8	18	3.3	8.57	527
August	668.5	544	2.8	21.6	1,330
September	4,703.2	2,090	4.2	157	9,330
Water year 1934-35	13,676.4	2,090	2.8	37.5	27,140

South Concho River at San Angelo, Tex.

Location.- Water-stage recorder, lat. 31°26'45", long. 100°25'30", at highway bridge half a mile south of San Angelo, Tom Green County, and 1 mile above confluence with North Concho River.

Drainage area.- 2,687 square miles, of which about 152 square miles is probably non-contributing.

Records available.- October 1931 to September 1935.

Extremes.- Maximum discharge during year, about 33,900 second-feet May 9 (gage height, 9.52 feet); no flow at times.
1931-35: Maximum stage, 10.98 feet May 10, 1932 (discharge not determined); no flow at times.

Remarks.- Records good except those below 50 second-feet and those partly estimated on basis of fragmentary gage-height record July 19, 20, Sept. 9-14, which are fair. Diversions above station for irrigation, municipal, and power uses. Flow partly regulated by reservoirs (total capacity, about 11,000 acre-feet) above station, the largest of which is Lake Nasworthy (capacity, 10,500 acre-feet).

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

1.87	0	2.4	105	3.0	895
1.9	.15	2.5	174	3.5	2,020
2.0	2.1	2.6	264	4.0	3,500
2.1	11.8	2.7	385	4.5	5,190
2.2	30	2.8	535	5.0	7,170
2.3	59	2.9	705		

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.6	2.6	2.6	7.0	0.8	15	28	0	2.1	0
2		0	.5	2.6	3.3	6.0	.3	6.0	435	0	1.1	.3
3		.4	.5	2.6	3.3	6.0	0	5.0	2,020	0	.5	1,510
4		.8	.5	2.6	2.1	9.2	0	9.2	204	0	.3	243
5		.3	.4	2.6	1.8	7.1	0	9.2	6,050	0	.3	4,790
6		0	.5	2.6	4.4	3.3	0	9.2	28	0	0	2,330
7		0	.5	4.2	9.2	4.2	0	13	297	0	0	237
8		0	.3	1.4	22	5.0	0	10	442	0	0	237
9		0	.4	.5	1,650	7.0	0	4,500	264	0	0	1,310
10		0	.5	.6	16	9.2	0	4,210	228	0	.3	228
11		0	1.1	1.1	9.2	6.0	0	255	228	0	1.1	228
12		0	54	3.2	9.2	4.2	0	246	237	0	.1	228
13		0	140	1.8	8.1	2.6	0	228	2,210	0	1.3	206
14		.2	146	1.8	17	3.3	0	219	228	0	1.8	18
15		1.3	98	4.2	7.0	15	0	6,410	228	0	1.1	8.1
16		3.3	18	2.6	51	4.2	0	287	228	0	.6	7.0
17		1.8	15	2.6	164	2.1	0	2,550	188	0	.3	6.0
18		2.1	13	4.2	14	7.1	0	5,640	15	0	.1	5.0
19		7.2	13	4.2	10	5.4	0	237	8.1	7.3	0	3.3
20		5.0	7.0	3.3	7.0	1.0	0	228	24	2.2	0	30
21		3.3	8.1	1.8	8.1	2.3	1.1	130	219	6.3	0	228
22		1.4	7.0	1.8	3.3	5.0	7.0	13	191	9.2	0	228
23		.8	3.3	2.6	5.0	5.0	15	22	19	1,620	0	226
24		.6	2.6	4.6	7.2	5.0	26	249	7.0	603	0	193
25		.6	4.2	5.0	3.3	2.4	345	290	5.0	219	0	24
26		.5	3.3	2.1	5.0	.5	264	228	2.0	210	0	12
27		.3	3.3	1.8	5.0	.2	185	228	.9	119	0	6.0
28		.2	4.2	1.8	5.0	0	17	228	.3	7.0	0	2.6
29		.3	4.2	2.1	-	.2	9.2	228	.1	7.0	0	2.6
30		.6	3.3	2.6	-	1.4	7.0	133	.1	5.0	.5	2.1
31		-	2.6	1.8	-	1.4	-	13	-	3.3	.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	31.0	7.2	0	1.03	61
December	555.9	146	.3	17.9	1,100
Calendar year 1934	7,789.2	1,380	0	21.3	15,440
January	79.3	5.0	.5	2.56	157
February	2,053.1	1,650	1.8	73.3	4,070
March	138.3	15	0	4.46	274
April	877.4	345	0	29.2	1,740
May	26,848.6	6,410	5.0	866	53,250
June	14,034.5	6,050	.1	468	27,840
July	2,818.3	1,620	0	90.9	5,590
August	11.6	2.1	0	.37	23
September	12,551	4,790	0	418	24,890
Water year 1934-35	59,999	6,410	0	164	119,000

Concho River near San Angelo, Tex.

Location.- Water-stage recorder, lat. 31°27'10", long. 100°24'40", half a mile below confluence of North Concho and South Concho Rivers and 1¾ miles southeast of San Angelo, Tom Green County. Zero of gage is 1,776.8 feet above mean sea level.

Drainage area.- 4,492 square miles, of which about 275 square miles is probably non-contributing.

Records available.- September 1915 to September 1935.

Average discharge.- 20 years, 152 second-feet.

Extremes.- Maximum discharge during year, about 59,000 second-feet May 15 (gage height, 29.00 feet); minimum not determined.
1915-35: Maximum discharge, about 139,000 second-feet Apr. 26, 1922 (gage height, 36.8 feet); no flow Nov. 29, 1921.

Remarks.- Records good except those above 20,000 second-feet and those estimated, which are fair. Discharge estimated Oct. 1-15 on basis of fragmentary gage-height record and by comparison with records of stations upstream. Diversions above for municipal and irrigation uses. Flow partly regulated by diversions and storage in reservoirs above gage (total capacity, about 11,000 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	0.9	4.0	3.0	1.8	12	3.3	14	119	7.0	12	13
2	1.5	1.1	3.0	3.6	2.6	11	3.3	8.8	441	6.0	10	8.8
3	1.5	1.5	2.5	3.3	2.7	10	3.0	7.8	1,840	5.6	8.1	2,180
4	1.5	2.2	2.5	2.8	2.0	14	4.3	30	290	5.3	7.0	578
5	1.8	2.6	2.6	3.3	1.5	13	6.4	40	5,840	5.0	6.0	5,000
6		2.6	2.6	3.8	5.7	8.4	3.6	19	148	4.3	5.3	2,590
7		1.0	3.3	4.8	11	10	3.0	15	379	2.6	4.8	282
8		1.0	3.3	2.8	1,650	9.2	2.5	14	504	2.8	4.3	282
9		1.0	2.3	1.7	2,520	10	2.6	3,030	332	2.2	3.8	1,200
10		.9	2.3	2.0	99	12	2.5	6,210	279	1.2	3.3	254
11	1.2	1.0	2.5	2.0	56	10	2.2	338	282	1.2	4.3	248
12		1.0	49	3.8	38	7.0	2.0	279	371	1.5	3.0	244
13		3.2	157	2.8	29	5.6	2.6	262	2,090	1.8	20	214
14		1,670	163	2.0	31	4.3	2.8	3,160	693	1.7	8.1	109
15		519	115	3.8	20	15	2.8	20,200	296	1.8	7.9	18
16	.9	108	22	3.8	62	9.9	2.0	6,760	268	1.7	14	15
17	1.0	49	17	2.5	202	4.8	1.7	2,930	214	1.5	6.7	14
18	1.4	28	18	3.6	30	8.3	1.4	6,300	32	2.2	5.0	12
19	1.2	637	16	4.0	18	8.7	1,080	532	22	16	4.0	11
20	1.1	97	10	3.3	14	4.6	205	360	33	31	3.0	30
21	1.0	26	9.7	2.3	16	4.8	48	225	254	16	3.0	248
22	1.0	13	10	1.7	10	6.4	30	83	216	2,240	4.0	251
23	1.0	10	6.0	2.6	11	8.1	27	83	29	2,020	3.8	248
24	.9	8.8	4.6	2.8	14	7.4	31	303	15	1,280	3.0	224
25	.8	7.4	5.0	5.2	9.7	6.7	307	388	14	346	48	30
26	1.0	6.0	4.6	2.5	11	4.3	276	488	32	324	25	21
27	.9	5.0	4.0	2.0	11	3.8	197	481	25	183	15	12
28	.9	3.8	4.3	1.8	10	3.3	23	304	9.7	23	9.2	9.7
29	1.0	4.6	4.6	2.0	-	3.0	14	293	8.8	16	7.0	9.2
30	1.0	3.8	4.0	2.6	-	3.8	11	186	7.8	12	31	9.2
31	1.0	-	4.0	2.2	-	3.6	-	42	-	16	38	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	35.9	1.8	-	1.16	71
November	3,216.4	1,670	0.9	107	6,380
December	657.7	163	2.3	21.2	1,300
Calendar year 1934	17,625.4	3,370	-	48.3	34,950
January	89.8	5.2	1.7	2.90	178
February	4,889	2,520	1.5	175	9,700
March	243	15	3.0	7.84	482
April	2,280.8	1,060	1.4	76.0	4,520
May	53,365.6	20,200	7.8	1,722	105,900
June	15,084.3	5,840	7.8	503	29,920
July	6,576.4	2,240	1.2	212	13,050
August	327.6	48	3.0	10.6	650
September	14,364.9	5,000	8.8	479	28,490
Water year 1934-35	101,153.4	20,200	-	277	200,600

Concho River near Paint Rock, Tex.

Location.- Staff gage, lat. 31°31', long. 99°57', at Gulf, Colorado & Santa Fe Railway bridge 2 miles northwest of Paint Rock, Concho County. Prior to May 16, 1935, water-stage recorder at same site and datum.

Drainage area.- 5,532 square miles, of which about 275 square miles is probably noncontributing.

Records available.- September 1915 to September 1935.

Average discharge.- 20 years, 209 second-feet.

Extremes.- Maximum discharge during year, 38,400 second-feet Sept. 5 (gage height, 19.05 feet, from graph based on gage readings); no flow Oct. 1 to Nov. 13.
1915-35: Maximum stage, 27.5 feet Apr. 27, 1922 (discharge not determined); no flow at times.

Remarks.- Records good except those estimated or partly estimated on basis of records at San Angelo and fragmentary gage-height records. Diversions above station for irrigation and municipal uses. Low-water flow materially affected by diversions and storage above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0			6.4		3.6	24	722	16	32	14
2		0			6.4		2.9	19	323	13	21	90
3		0			6.9		2.4	15	2,880	10	19	5,300
4		0			6.9		2.1	62	420	7.9	17	1,670
5		0	*5.0	*5.0	6.9		1.6	56	6,510	7.4	14	12,000
6		0			7.4		1.1	35	1,110	7.4	13	9,240
7		0			22		.9	44	310	7.4	11	664
8		0			317	*14	.8	28	719	6.9	9.0	420
9		0			4,310		.7	20	502	6.4	7.4	801
10		0	†3.9		598		.5	8,280	348	6.0	6.9	789
11		0		*3.2	195		.5	787	318	6.0	6.4	310
12		0	*12	2.9				361	310	3.9	5.0	288
13		0		3.2			*.5	301	1,940	166	4.6	284
14		†1,100	70	3.6				2,020	1,260	28	38	233
15		1,260	152	3.6	*66		†1.3	17,200	755	15	75	112
16		325	146	3.6		†9.5	.8	17,200	353	8.4	29	56
17		161		3.6		†9.5	.6	2,070	310	6.4	13	39
18		† 75		3.2	†185	†9.5	1,680	19,400	244	5.0	9.0	33
19		† 297		3.9		†9.5	1,210	3,400	102	4.6	7.9	31
20		† 916		6.4		9.5	1,380	661	51	388	7.4	26
21		161		6.9		9.0	212	424	65	89	10	28
22				6.9		8.4	1,160	284	203	1,650	16	154
23			*21	6.9		9.5	145	134	234	1,980	16	246
24				6.4	*28	11	56	112	114	2,660	7.4	276
25				6.9		9.0	2,280	373	44	583	4.3	249
26		*27		6.9		8.4	†484	397	30	366	3.2	96
27				6.4		7.9	†276	323	12	331	1.8	45
28				6.4		6.9	†188	318	34	221	4.4	38
29				6.0	-	6.4	† 95	323	35	81	16	28
30				6.4	-	5.0	36	284	21	58	21	23
31		-		6.9	-	4.6	-	284	-	62	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	4,538	1,260	0	151	9,000
December	767.9	152	-	24.8	1,520
Calendar year 1934	28,160.9	6,350	0	77.2	55,860
January	160.2	-	-	5.17	318
February	6,343.9	4,310	6.4	227	12,580
March	343.6	-	4.6	11.1	682
April	9,223.3	2,280	-	307	18,290
May	75,239	19,400	15	2,427	149,200
June	20,279	6,510	12	676	40,220
July	8,800.7	2,660	3.9	284	17,460
August	475.7	75	1.8	15.3	944
September	33,583	12,000	14	1,119	66,610
Water year 1934-35	159,754.3	19,400	0	438	316,800

*Estimated. †Partly estimated.

Middle Concho River near Tankersly, Tex.

Location.- Water-stage recorder, lat. 31°22'35", long. 100°36'50", at Twelvemile Bridge, 3 miles northeast of Tankersly, Tom Green County, and 7⅛ miles above confluence with Spring Creek. Zero of gage is 1,919.5 feet above mean sea level.

Drainage area.- 1,280 square miles, of which about 152 square miles is probably noncontributing.

Records available.- February 1930 to September 1935.

Extremes.- Maximum discharge during year, 12,200 second-feet May 15 (gage height, 22.10 feet); no flow at times.
1930-35: Maximum discharge, 12,500 second-feet May 11, 1932 (gage height, 22.45 feet); no flow at times.

Remarks.- Records good. Small diversions for irrigation above station affect low flow.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

1.91	0	3.2	52	5.6	874	8.0	1,900
2.0	.8	3.4	87	6.0	1,026	9.0	2,370
2.2	3.2	3.6	140	6.4	1,185	10.0	2,860
2.4	6.3	4.0	280	6.8	1,357	11.0	3,370
2.6	11	4.4	450	7.2	1,535	12.0	3,942
2.8	18	4.8	596	7.6	1,716	13.0	4,570
3.0	29	5.2	731				

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0			0		0	0	65	0	1.7	8.9
2		0			0		0	0	439	0	.9	3.6
3		0			0		0	0	155	0	.4	122
4		0			0		0	2.6	323	0	.1	78
5		0			0		0	2.9	1,330	0	0	386
6		0			0		0	.5	431	0	0	51
7		0			0		0	0	862	0	0	16
8		0			1,930		0	0	214	0	0	10
9		0			659		0	1,090	87	0	0	6.3
10		0			47		0	172	46	0	0	4.6
11		0			20		0	9.5	32	0	0	3.8
12		0			10		0	3.5	56	0	0	3.5
13		0			6.1		0	1.7	56	0	0	3.2
14		639			3.8		0	845	426	36	0	2.8
15		193			2.8		0	4,070	67	78	0	2.4
16		30			1.2		0	1,270	28	21	0	2.0
17		7.0			.4		0	411	18	12	0	1.8
18		1.2			.4		0	1,890	12	4.2	0	1.6
19		65			0		873	312	9.4	7.5	0	1.2
20		11			0		289	72	7.1	3.3	0	.5
21		1.2			0		66	37	5.4	1.5	0	.4
22		0			0		26	24	4.9	26	0	.4
23		0			0		13	17	4.5	473	0	.3
24		0			0		6.1	193	3.5	304	0	.4
25		0			0		2.6	41	2.7	102	0	.8
26		0			0		.9	22	2.2	31	0	2.0
27		0			0		.4	22	1.7	17	0	1.8
28		0			0		0	18	1.2	10	0	.8
29		0			-		0	14	.6	6.3	0	.4
30		0			-		0	11	.2	4.2	184	.3
31		-			-		-	8.0	-	2.8	60	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	947.4	639	0	31.6	1,880
December	0	0	0	0	0
Calendar year 1934	2,038.7	835	0	5.59	4,050
January	0	0	0	0	0
February	2,680.7	1,930	0	95.7	5,320
March	0	0	0	0	0
April	1,277.0	873	0	42.6	2,530
May	10,559.7	4,070	0	341	20,940
June	4,690.4	1,330	.2	156	9,300
July	1,139.8	473	0	36.8	2,260
August	247.1	184	0	7.97	490
September	716.8	386	.3	23.9	1,420
Water year 1934-35	22,256.9	4,070	0	61.0	44,140

Spring Creek near Tankersly, Tex.

Location.- Water-stage recorder, lat. 31°21'30", long. 100°32'5", 2¾ miles above confluence with Middle Concho River and 6½ miles east of Tankersly, Tom Green County. Zero of gage is 1,874.6 feet above mean sea level.

Drainage area.- 734 square miles.

Records available.- February 1930 to September 1935.

Extremes.- Maximum discharge during year, 7,520 second-feet June 5 (gage height, 12.27 feet); no flow Oct. 1 to Nov. 21 and Apr. 13-20.
1930-35: Maximum discharge, 17,000 second-feet May 10, 1932 (gage height, 17.70 feet); no flow at times.

Remarks.- Records good. Several small diversions above station for irrigation.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

1.1	0	2.1	37.6
1.2	.5	2.2	50.8
1.3	1.3	2.3	65.5
1.4	2.4	2.4	83
1.5	3.6	2.6	135
1.6	5.4	3.0	260
1.7	7.8	4.0	585
1.8	11.5	5.0	983
1.9	16.6	6.0	1,535
2.0	26.0	7.0	2,170

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	11	5.4	3.1	13	0.5	1.6	246	3.4	23	26
2		0	11	3.5	3.1	13	.6	1.5	265	3.5	15	15
3		0	10	2.4	3.0	13	.6	1.4	235	2.4	10	251
4		0	6.1	2.9	4.8	13	.4	2.9	381	2.0	6.5	395
5		0	2.5	3.4	11	11	.6	15	2,020	1.9	4.1	1,170
6		0	2.0	3.6	10	8.8	.3	8.8	157	1.9	2.8	701
7		0	1.7	5.2	23	7.3	.3	5.8	78	1.8	2.6	124
8		0	1.5	7.3	21	6.5	.5	3.2	63	1.7	2.4	69
9		0	1.7	5.4	53	7.5	.9	954	54	1.7	1.9	334
10		0	1.9	3.9	27	8.8	1.0	1,360	48	1.7	1.7	88
11		0	7.5	3.2	25	7.8	.9	118	53	1.6	1.6	58
12		0	8.1	2.8	23	6.8	.4	46	90	1.5	1.5	54
13		0	8.8	2.8	24	7.5	0	35	496	1.5	1.6	50
14		0	8.5	3.8	21	5.2	0	38	171	1.4	1.6	48
15		0	6.8	4.6	18	4.1	0	307	73	1.3	1.4	47
16		0	5.8	5.0	17	3.2	0	73	50	1.2	1.2	47
17		0	6.1	4.8	17	2.8	0	175	48	1.2	1.0	46
18		0	9.1	4.4	17	2.5	0	984	46	1.1	.9	44
19		0	11	5.6	18	2.4	0	167	42	1.2	.8	42
20		0	9.2	6.3	17	2.2	0	69	42	1.1	.9	40
21		0	8.5	5.2	17	2.0	.3	52	35	.9	1.1	40
22		1.8	6.3	5.4	15	2.0	.6	44	34	1.1	1.2	39
23		8.1	7.0	6.5	15	1.9	.7	43	31	977	1.2	38
24		14	7.8	7.3	15	1.8	.6	89	26	187	1.0	40
25		10	7.8	6.5	15	1.8	304	55	23	44	.7	43
26		12	6.1	5.8	14	1.7	32	42	15	24	.7	50
27		11	4.6	4.4	15	.8	13	35	12	20	.7	34
28		8.5	4.8	3.6	14	.6	4.8	28	9.2	19	.7	35
29		8.8	6.1	3.9	-	.6	2.6	31	5.3	21	.6	31
30		11	7.5	3.8	-	.7	2.0	22	2.9	25	87	33
31		-	7.0	3.4	-	.6	-	14	-	26	88	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	85.2	14	0	2.84	169
December	203.8	11	1.5	6.57	404
Calendar year 1934	3,348.5	79	0	9.17	6,650
January	142.1	7.3	2.4	4.58	282
February	476.0	53	3.0	17.0	944
March	160.9	13	.6	5.19	319
April	367.6	304	0	12.3	729
May	4,824.2	1,360	1.4	156	9,570
June	4,851.4	2,020	2.9	162	9,620
July	1,380.1	977	.9	44.5	2,740
August	265.4	88	.6	8.56	526
September	4,032	1,170	15	134	8,000
Water year 1934-35	16,788.7	2,020	0	46.0	33,300

North Concho River near Carlsbad, Tex.

Location.- Water-stage recorder, lat. 31°36', long. 100°40', just above State Sanatorium Dam and 2 miles above Carlsbad, Tom Green County.

Drainage area.- 1,529 square miles, of which about 123 square miles is probably noncontributing.

Records available.- March 1924 to September 1935.

Average discharge.- 11 years, 47.8 second-feet.

Extremes.- Maximum discharge during year, about 21,600 second-feet May 15 (gage height, 12.60 feet); no flow at times.
1924-35: Maximum discharge, about 35,600 second-feet May 30, 1925 (gage height, 14.45 feet); no flow at times.

Remarks.- Records good except those below 10 and above 5,000 second-feet and those estimated or partly estimated, which are poor. Estimated records based on flood marks and records at San Angelo, partly estimated records based on fragmentary gage-height record.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0		1.0	1.8	5.0	3.0	4.1	14	†1.5	8.3	3.0
2		0		1.0	1.9	5.0	3.1	4.1	14	†1.2	8.3	2.0
3		0		1.0	2.1	5.0	2.1	3.5	14	†1.1	7.5	489
4		0		1.0	2.0	5.0	2.6	3.5	230	†1.0	5.2	220
5		0		1.0	1.9	4.4	2.2	3.5	223	† .9	4.3	42
6		0	*1.1	.9	6.6	4.4	2.2	7.9	105	† .8	3.9	17
7		0		1.0	9.2	4.4	2.2	5.4	114	† .7	3.8	9.4
8		0		1.0	1,980	4.4	2.3	4.1	49	† .6	2.4	7.7
9		0		1.0	214	4.3	1.9	208	30	† .5	1.4	7.7
10		0		1.1	45	4.3	1.5	482	21	† .4	.7	6.2
11		0	†1.4	1.1	16	3.7	2.0	36	18	† .4	.4	8.5
12		0	1.2	1.1	12	3.7	2.4	12	21	.3	.3	8.5
13		0	1.2	1.1	9.3	4.3	2.9	10	18	.2	.2	6.2
14		1,300	1.1	1.2	8.3	4.3	2.9	6,390	20	.2	.7	6.2
15		215	1.1	1.3	6.6	4.3	2.9	13,700	15	.2	5.1	5.0
16		52	1.1	1.4	5.1	4.3	2.4	5,070	14	.4	1.3	5.0
17		17	1.1	1.4	5.1	4.2	1.6	581	14	.6	.8	4.5
18		6.9	1.5	1.5	5.1	4.2	1.1	1,320	14	2.0	.5	4.0
19		308	2.0	1.8	5.1	4.2	1,080	160	14	1.8	†.4	3.5
20		6.9	2.0	2.4	5.1	4.2	58	67	12	2.4	†.3	3.0
21		5.7	1.8	2.4	4.5	4.3	13	45	†9.4		.3	2.9
22		12.1	1.8	2.1	5.1	4.3	7.9	37	†7.4		.3	2.9
23		14.3	1.6	1.8	5.1	4.3	5.4	28	†5.7		.3	2.5
24			1.3	1.8	5.1	4.4	4.7	46	†5.1	*156	119	3.4
25			1.2	1.8	4.5	4.4	4.7	21	†3.4		31	5.5
26			1.1	1.8	3.9	3.8	5.4	20	†3.2		10	4.8
27			1.2	1.8	4.5	2.2	5.4	17	†3.0		5.6	3.3
28			1.1	1.8	4.5	2.9	6.2	17	†2.8	12	4.0	2.8
29			1.1	1.8	-	2.9	6.2	17	†2.4	11	2.0	2.8
30			1.1	1.8	-	3.5	5.4	17	†1.8	10	28	3.3
31		-	1.1	1.8	-	3.5	-	14	-	9.2	5.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	1,956.1	1,300	0	65.2	3,880
December	39.1	-	-	1.26	78
Calendar year 1934	7,735.5	3,300	0	21.2	15,340
January	45	2.4	.9	1.45	89
February	2,379.4	1,980	1.8	85	4,720
March	128.1	5.0	2.2	4.13	254
April	1,243.6	1,080	1.1	41.5	2,470
May	28,351.1	13,700	3.5	915	56,230
June	1,018.2	230	1.8	33.9	2,020
July	1,151.4	-	.2	37.1	2,280
August	261.3	119	.2	8.43	518
September	892.6	489	2.0	29.8	1,770
Water year 1934-35	37,465.9	13,700	0	103	74,310

*Estimated. †Partly estimated.

Pecan Bayou at Brownwood, Tex.

Location.- Water-stage recorder, lat. 31°44'10", long. 98°58'30", at Fort Worth & Rio Grande Railway bridge three-eighths of a mile above city dam, 1 mile north of Brownwood, Brown County, and 10 miles below Brownwood Reservoir. Zero of gage is 1,319.2 feet above mean sea level.

Drainage area.- 1,614 square miles.

Records available.- May 1917 to June 1918, October 1923 to September 1935.

Average discharge.- 10 years (1924-28, 1929-35), 229 second-feet.

Extremes.- Maximum discharge during year, 12,700 second-feet Sept. 10 (gage height, 12.47 feet, from flood marks); no flow Oct. 1 to Nov. 15.
1917-18, 1923-35: Maximum discharge, 52,700 second-feet Oct. 14, 1930 (gage height, 16.92 feet); no flow at times.
Flood of July 3, 1932, probably the greatest known, reached a discharge of about 235,000 second-feet as it entered Brownwood Reservoir (computed from rate of storage in reservoir, data furnished by engineers of Brown County Water Improvement District No. 1).

Remarks.- Records good except those estimated for June 13-24 and those partly estimated for Sept. 9-12, which are fair. Estimated or partly estimated record based on fragmentary gage-height record and gage heights from gage 0.1 mile downstream. Seepage past control dam ranging from 0.1 to 0.3 second-foot was included in daily discharge ranging of Nov. 16 to May 20 and Aug. 5-7. Flow regulated by storage in Brownwood Reservoir (capacity, 140,000 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.2	0.2	0.3	0.3	0.3	0.3	337	324	324	250
2		0	.2	.2	.3	.3	1.0	.3	337	324	324	104
3		0	.2	.2	.4	.3	.8	.3	470	324	312	144
4		0	.2	.2	.4	167	.6	877	363	324	24	330
5		0	.2	.2	.4	2.6	.6	100	337	330	.8	949
6		0	.2	.2	.4	.4	.3	10	330	330	.3	597
7		0	.2	.2	.4	.3	.3	4.0	330	330	31	1,200
8		0	.2	.2	331	.3	.3	1.0	330	330	191	994
9		0	.2	.2	65	.3	.3	.8	212	330	158	3,760
10		0	.2	.2	1.8	.5	141	.6	81	330	207	10,900
11		0	.2	.2	1.1	176	12	.4	330	330	324	4,160
12		0	.2	.2	8.8	7.8	4.0	.3	330	330	324	2,680
13		0	.2	.2	7.2	.6	1.0	.3	330	330	330	1,840
14		0	.2	.2	.9	.3	1.0	.3		330	343	1,290
15		0	.2	.2	.4	.3	.8	466		330	330	942
16		.1	.2	.2	.4	.3	.3	47		330	330	710
17		.1	.2	.2	.4	.3	.3	7.1		330	330	572
18		.1	.2	.2	.4	9.3	.3	620		330	330	473
19		.1	.2	7.2	.4	5.5	53	29	731	330	337	403
20		.1	.2	53	.4	1.3	14	8.7		330	337	366
21		.2	.2	12	.4	2.8	8.7	106		330	337	330
22		.2	.2	8.7	.4	8.7	4.4	317		330	343	324
23		.2	.2	8.7	.4	1.3	1.3	324		457	243	324
24		.2	.2	4.0	.4	1.3	.8	324	337	348	174	324
25		.2	.2	.3	.4	1.0	3.7	324	337	337	266	324
26		.2	.2	.3	.4	.3	8.7	324	330	330	330	324
27		.2	.2	.3	.4	.3	1.7	324	337	330	330	324
28		.2	.2	.3	.4	.3	1.0	330	337	330	330	324
29		.2	.2	.3	-	.3	.6	330	330	330	330	324
30		.2	.2	.3	-	.3	.3	324	330	330	330	324
31		-	.2	.3	-	.4	-	324	-	324	330	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	2.5	.2	0	.08	5.0
December	6.2	.2	.2	.2	12
Calendar year 1934	37,598.3	3,340	0	103	74,570
January	99.3	53	.2	3.20	197
February	424	331	.3	15.1	841
March	390.6	176	.3	12.6	775
April	263.4	141	.3	8.78	522
May	5,524.4	877	.3	178	10,960
June	13,765	-	81	459	27,300
July	10,352	457	324	334	20,530
August	8,230.1	343	.3	265	16,320
September	35,900	10,900	104	1,197	71,210
Water year 1934-35	74,957.5	10,900	0	205	148,700

San Saba River at Menard, Tex.

Location.- Staff gage, lat. 30°55', long. 99°48', 1,000 feet above highway bridge in Menard, Menard County, and half a mile below mouth of Las Moras Creek.

Drainage area.- 1,151 square miles.

Records available.- September 1915 to September 1935.

Average discharge.- 20 years, 51.2 second-feet.

Extremes.- Maximum discharge observed during year, 18,100 second-feet Sept. 9 (gage height, 13.82 feet); minimum, 1.5 second-feet Oct. 10, 12.
1915-35: Maximum stage, 18.3 feet, from flood marks, Oct. 6, 1930 (discharge not determined); no flow at times.
Maximum stage known, 25.4 feet June 5, 6, 1899.

Remarks.- Records good except those above 100 second-feet, which are fair. Low-water flow during irrigation season regulated by diversions to Noyes Canal, 4 miles above Menard. About 4,300 acres above and about 7,700 acres below gage have been declared irrigated.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	3.0	8.3	23	12	38	6.6	7.8	71	25	13	17
2	3.2	4.2	9.4	22	7.2	38	6.6	11	704	21	12	21
3	3.2	4.2	11	22	5.7	39	7.2	13	240	19	11	300
4	3.7	4.2	13	21	10	46	8.9	29	123	16	12	436
5	4.0	4.0	14	20	11	44	8.3	44	5,680	17	11	1,770
6	3.2	4.0	15	22	11	39	7.8	42	879	17	11	1,110
7	2.3	4.0	16	14	25	37	7.2	38	158	16	10	440
8	2.3	4.2	17	14	521	36	6.6	36	91	14	11	2,100
9	2.0	4.8	17	12	1,320	37	6.6	198	71	14	11	6,540
10	1.6	5.7	16	6.0	139	39	6.6	6,080	61	12	11	878
11	3.7	5.7	14	4.8	71	39	6.6	242	86	12	11	174
12	1.6	5.4	16	4.5	61	38	6.6	90	3,010	11	11	108
13	2.8	3.7	15	4.5	53	38	6.6	66	3,340	10	12	91
14	4.0	5.1	14	4.8	46	36	6.9	44	1,740	11	13	84
15	4.0	6.9	16	4.8	37	34	6.9	44	614	11	46	78
16	3.5	6.3	17	4.8	31	37	6.6	40	108	14	23	76
17	4.2	5.7	19	4.0	36	25	6.6	74	76	14	14	72
18	7.8	5.1	19	4.2	42	14	7.8	2,400	64	14	14	72
19	6.9	6.0	18	6.9	41	13	13	557	61	16	17	66
20	7.8	7.2	19	40	40	15	13	153	60	17	24	70
21	18	6.9	22	52	40	13	12	72	55	14	24	70
22	18	6.0	23	21	39	12	11	62	53	19	30	70
23	18	4.6	24	8.3	40	12	11	53	52	21	19	70
24	12	4.0	26	7.8	41	12	12	53	53	17	11	88
25	3.7	3.5	28	7.8	40	12	12	191	52	17	11	88
26	3.0	3.7	28	7.2	38	11	12	90	52	15	11	128
27	2.5	2.5	28	6.9	38	12	11	58	48	14	10	210
28	3.2	4.2	27	6.6	38	10	11	53	46	13	10	68
29	3.0	7.2	28	6.9	-	9.4	11	52	44	13	10	70
30	3.5	7.2	23	7.2	-	10	11	107	36	13	99	65
31	3.7	-	23	13	-	8.9	-	86	-	13	48	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	163.4	18	1.6	5.27	324
November	149.4	7.2	2.5	4.98	296
December	584.7	28	8.3	18.9	1,160
Calendar year 1934	14,619.4	5,130	0	40.1	29,000
January	404.0	52	4.0	13.0	801
February	2,633.9	1,320	5.7	101	5,620
March	804.3	46	8.9	25.9	1,600
April	267.0	13	6.6	8.90	530
May	11,085.8	6,080	7.8	358	21,990
June	17,728	5,680	36	591	35,160
July	470	25	10	15.2	932
August	581	99	10	18.7	1,150
September	15,430	6,540	17	514	30,600
Water year 1934-35	50,501.5	6,540	1.6	138	100,200

San Saba River at San Saba, Tex.

Location.- Water-stage recorder, lat. 31°12'10", long. 98°42'15", at the San Saba-Chadwick Mill highway bridge three-quarters of a mile northeast of San Saba, San Saba County, and 15 miles above confluence with Colorado River. Zero of gage is 1,152.4 feet above mean sea level.

Drainage area.- 3,046 square miles.

Records available.- August 1930 to September 1935. Comparable records obtained at site 4½ miles upstream from December 1904 to December 1906, September 1915 to August 1930.

Average discharge.- 20 years (1915-35), 243 second-feet.

Extremes.- Maximum discharge during year, 44,500 second-feet June 15 (gage height, 36.50 feet, from flood marks); minimum, 23 second-feet Apr. 14 (gage height, 3.19 feet).

1904-6, 1915-35: Maximum stage, 42.1 feet (present datum) Apr. 26, 1922, possibly affected by backwater from Colorado River (discharge not determined); no flow Aug. 9, 10, 1918.

Remarks.- Records good except those estimated or partly estimated, which are fair. Estimates based on information obtained by engineer visiting station. Diversions above station for irrigation and municipal use.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	27	47	56	58	77	49	40	318	236	95	79
2	25	32	45	54	60	77	49	155	663	214	89	74
3	26	36	41	57	58	78	50	117	620	194	85	3,310
4	27	32	39	54	60	81	50	875	629	178	81	15,400
5	29	30	36	56	60	591	49	1,920	444	164	79	3,400
6	29	29	36	54	65	243	43	585	2,560	154	74	2,490
7	29	30	38	58	65	174	41	257	1,860	146	70	3,020
8	29	36	41	57	758	201	38	155	588	140	67	1,120
9	27	38	41	53	3,090	116	35	143	367	131	64	2,700
10	25	39	43	53	1,630	100	35	1,220	269	120	63	9,050
11	25	41	44	58	925	92	36	3,610	252	114	64	3,680
12	25	43	45	61	485	86	30	1,100	252	109	63	893
13	26	41	47	57	*298	81	24	400	2,080	103	60	539
14	27	74	49	56	218	79	27	260	3,880	99	230	406
15	27	314	47	58	170	78	29	1,630	*25,700	93	348	*328
16	27	263	48	58	138	74	24	7,530	*3,780	92	118	
17	27	116	57	56	120	70	27	1,250	1,180	88	89	
18	27	86	60	53	107	71	29	*24,800	750	85	93	
19	29	63	57	52	99	71	618	*11,100	502	89	88	
20	29	53	53	61	96	71	93	1,960	406	102	85	*225
21	27	53	52	71	92	74	68	787	346	95	79	
22	27	49	50	78	91	72	56	507	*303	92	99	
23	27	44	53	85	86	61	63	388	*278	354	137	
24	26	41	54	88	85	56	49	354	*252	768	86	
25	25	40	54	75	82	54	48	286	236	268	150	*198
26	26	40	54	72	77	54	56	252	220	170	128	
27	25	39	57	68	77	52	48	324	1,340	146	105	
28	26	36	60	64	77	50	43	286	969	143	91	*225
29	26	40	61	63	-	49	43	244	380	136	81	
30	26	44	63	58	-	49	40	212	269	131	256	
31	26	-	60	57	-	50	-	193	-	109	109	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	827	29	25	26.7	1,640
November	1,848	314	27	61.6	3,670
December	1,552	63	36	49.4	3,040
Calendar year 1934	72,569.5	17,400	8.5	199	144,000
January	1,901	88	52	61.3	3,770
February	9,227	3,090	58	330	18,300
March	3,132	591	49	101	6,210
April	1,890	618	24	63.0	3,750
May	62,920	24,800	40	2,030	124,800
June	51,893	25,700	220	1,730	102,900
July	5,063	768	85	163	10,040
August	3,326	348	60	107	6,600
September	49,827	15,400	74	1,661	98,850
Water year 1934-35	193,386	25,700	24	530	383,600

*Discharge estimated or partly estimated.

Noyes Canal at Menard, Tex.

Location.- Staff gage, lat. 30°55', long. 99°48', 1,000 feet above highway bridge in Menard, Menard County, and 4 miles below head gates.

Records available.- March 1924 to September 1935.

Average discharge.- 11 years, 15.1 second-feet.

Extremes.- Maximum discharge observed during year, 35 second-feet Sept. 3; maximum gage height observed, 1.82 feet Feb. 8; no flow at times.
1924-35: Maximum discharge, about 58 second-feet Feb. 2, 1931 (gage height, 2.70 feet, from graph based on gage readings); no flow at times.

Remarks.- Records fair except those estimated Sept. 23-30, which are poor. Canal diverts from right bank of San Saba River 4 miles above Menard. Water used for irrigation near Menard; 10 acres irrigated above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	18	19	12	22	0	25	25	0	24	21	22
2	18	18	15	12	27	0	25	25	0	18	20	28
3	18	18	16	11	23	0	27	24	0	16	20	31
4	18	18	15	11	20	0	27	24	0	14	20	27
5	19	18	15	11	20	0	27	20	0	20	20	27
6	18	18	15	14	20	0	25	0	0	21	18	27
7	18	18	18	19	22	0	24	0	0	21	18	27
8	18	19	18	19	27	0	22	0	0	21	18	24
9	18	19	16	23	23	0	24	0	0	21	17	17
10	18	19	15	26	20	0	24	20	0	18	17	6.3
11	18	19	14	27	15	0	24	24	0	17	17	2.1
12	17	19	15	24	14	0	24	21	0	20	17	0
13	19	20	14	24	14	0	24	16	0	20	16	0
14	19	22	14	23	13	0	22	14	0	18	17	0
15	18	22	14	24	13	0	24	13	0	20	18	0
16	18	22	14	26	12	0	24	11	0	21	15	0
17	18	20	14	23	.5	9.1	24	14	0	21	13	.5
18	18	20	13	22	0	24	24	29	0	22	14	1.7
19	19	20	11	27	0	24	25	25	0	24	9.8	4.3
20	12	20	10	27	0	27	25	22	0	22	0	2.3
21	3.1	20	7.2	27	0	27	24	0	0	22	0	0
22	2.3	20	6.0	26	0	25	24	0	0	22	0	0
23	2.3	20	5.5	24	0	25	24	0	0	22	8.5	
24	7.5	20	5.2	24	0	25	24	0	0	22	21	
25	18	20	6.9	24	0	25	24	0	0	24	18	
26	18	20	6.9	24	0	25	24	0	0	22	18	2.8
27	18	18	6.9	24	0	24	24	0	0	22	18	
28	18	20	6.5	24	0	22	24	0	0	21	18	
29	19	20	6.7	24	-	24	25	0	0	21	20	
30	19	20	12	24	-	25	27	0	12	22	27	
31	19	-	12	17	-	25	-	0	-	21	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	501.2	19	2.3	16.2	994
November	585	22	18	19.5	1,160
December	377.4	19	5.5	12.2	749
Calendar year 1934	4,730.3	30	0	13.0	9,380
January	667	27	11	21.5	1,320
February	305.5	27	0	10.9	606
March	356.1	27	0	11.5	706
April	734	27	22	24.5	1,460
May	327	29	0	10.6	649
June	12	12	0	.40	24
July	640	24	14	20.6	1,270
August	499.3	27	0	16.1	990
September	250	31	0	8.33	496
Water year 1934-35	5,254.5	31	0	14.4	10,420

North Llano River near Junction, Tex.

Location.- Water-stage recorder, lat. 30°30', long. 99°47', 500 feet above remains of Old Wilson Dam and 3 miles northwest of Junction, Kimble County. Zero of gage is 1,699.9 feet above mean sea level.

Drainage area.- 914 square miles.

Records available.- September 1915 to September 1935.

Average discharge.- 20 years, 68.1 second-feet.

Extremes.- Maximum discharge during year, 47,400 second-feet June 14 (gage height, 20.70 feet); no flow Oct. 1 to Dec. 21.
1915-35: Maximum discharge, 48,100 second-feet (not previously published) Oct. 6, 1930 (gage height, 20.9 feet); no flow at times.

Remarks.- Records good except those between 200 and 5,000 second-feet, which are fair, those above 5,000 second-feet, and those for May 3-25 estimated on basis of records for station on Llano River near Junction, which are poor. Diversions for irrigation materially reduce low-water flow.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	3.6	7.3	13	8.6	10	114	115	57	24
2			0	4.1	7.3	13	92	87	576	108	52	24
3			0	4.6	7.3	11	98		162	105	47	779
4			0	4.6	7.3	11	38		128	102	47	6,460
5			0	5.0	7.3	37	23		7,080	96	47	4,400
6			0	5.0	12	15	20		606	92	42	1,430
7			0	5.5	24	13	17		237	89	40	505
8			0	5.0	29	13	16		155	86	37	479
9			0	5.0	32	12	15		127	80	35	9,780
10			0	5.5	28	11	15		287	78	35	1,580
11			0	6.0	26	11	14		530	72	33	423
12			0	6.0	24	11	14		2,050	69	33	291
13			0	6.0	23	11	13		647	67	42	246
14			0	6.0	21	11	12		22,300	64	49	215
15			0	6.0	20	11	10	70	4,890	62	49	211
16			0	6.0	19	10	8.6		646	59	54	174
17			0	6.0	18	9.3	8.0		403	57	40	162
18			0	6.0	18	9.3	8.0		625	59	35	151
19			0	6.0	18	9.3	12		436	59	35	148
20			0	7.3	18	8.6	21		274	59	33	133
21			.3	7.3	17	8.6	15		242	57	28	125
22			1.6	6.0	17	8.6	14		219	57	31	118
23			2.4	6.0	16	8.6	13		200	75	31	112
24			2.7	6.0	15	8.6	12		185	83	28	122
25			3.0	6.7	14	8.6	19		166	75	26	112
26			3.0	7.3	14	8.0	14	32	155	64	24	105
27			3.0	7.3	14	8.0	12	30	140	59	24	133
28			3.3	7.3	14	8.0	11	179	136	57	22	99
29			3.3	7.3	-	8.6	11	227	129	54	22	96
30			3.6	7.3	-	8.6	10	156	118	89	22	92
31			4.1	7.3	-	8.6	-	80	-	67	24	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	30.3	4.1	0	.98	60
Calendar year 1934	4,408.3	470	0	12.1	8,750
January	185.0	7.3	3.6	5.97	367
February	487.5	32	7.3	17.4	967
March	343.3	37	8.0	11.1	681
April	594.2	98	8.0	19.8	1,180
May	2,411	-	10	77.8	4,780
June	43,963	22,300	114	1,465	87,200
July	2,315	115	54	74.7	4,590
August	1,124	57	22	36.3	2,230
September	28,729	9,780	24	958	56,980
Water year 1934-35	80,182.3	22,300	0	220	159,000

Llano River near Junction, Tex.

Location.- Water-stage recorder, lat. 30°30', long. 99°44', 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.- 1,762 square miles.

Records available.- September 1915 to September 1935.

Average discharge.- 20 years, 228 second-feet.

Extremes.- Maximum discharge during year, 319,000 second-feet, by slope-area method, June 14 (gage height, 43.3 feet, from flood marks); minimum, 28 second-feet Oct. 9-12 (gage height, 1.35 feet).

1915-35: *Maximum discharge, that of June 14, 1935; minimum, 13 second-feet Aug. 23-28, 1918* (gage height, 1.32 feet).

Remarks.- Records good below and poor above 40,000 second-feet except those estimated from fragmentary gage-height record June 12-16, which are poor. About 2,500 acres above and 1,300 acres below station have been declared irrigated. Diversions slightly reduce low-water flow. Slight regulation by water-power plant on South Llano River.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	35	44	48	46	50	50	54	365	325	217	116
2	29	39	44	46	46	50	61	76	890	306	184	112
3	29	39	44	46	44	50	179	114	359	288	174	534
4	29	39	44	46	44	50	108	768	342	271	170	5,420
5	29	37	44	46	44	55	71	366	11,800	260	162	8,980
6	29	39	42	46	50	62	62	163	2,840	244	158	2,590
7	29	39	42	46	57	54	57	125	836	244	158	1,550
8	29	39	42	46	59	50	52	101	850	233	149	1,450
9	28	39	42	46	57	50	52	99	504	222	149	12,200
10	28	39	44	44	54	52	52	239	650	222	145	8,000
11	28	39	44	44	54	52	52	125	895	217	141	1,640
12	28	39	44	44	54	52	52	95	427	212	141	890
13	29	39	44	44	54	52	52	82	465	208	141	663
14	29	39	44	44	52	52	52	76	124,000	206	141	559
15	29	42	44	44	52	52	52	71	15,700	193	145	492
16	29	44	46	44	48	52	52	71	3,310	188	145	439
17	29	44	46	44	48	50	52	261	1,400	184	137	406
18	32	44	46	44	48	50	50	3,320	1,420	184	130	375
19	32	44	48	44	50	50	65	1,080	1,430	184	126	343
20	32	44	46	46	50	50	65	386	813	184	119	325
21	32	44	46	46	50	50	60	264	649	174	116	313
22	32	44	46	44	50	50	57	218	536	166	116	306
23	32	44	46	44	50	50	57	405	546	752	119	288
24	32	44	46	44	50	50	54	551	485	516	119	313
25	32	42	46	44	50	52	54	280	452	319	116	288
26	32	42	46	44	50	52	54	208	420	233	112	265
27	32	42	48	44	50	52	54	167	387	203	105	282
28	34	42	48	44	50	50	54	397	381	188	105	260
29	34	42	48	44	-	50	54	1,030	362	193	105	249
30	34	44	48	44	-	52	54	1,170	337	222	108	249
31	34	-	48	44	-	54	-	484	-	244	112	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	945	34	28	30.5	1,870
November	1,232	44	35	41.1	2,440
December	1,400	48	42	45.2	2,780
Calendar year 1934	19,375	404	27	53.1	38,420
January	1,388	48	44	44.8	2,750
February	1,411	59	44	50.4	2,800
March	1,597	62	50	51.5	3,170
April	1,840	179	50	61.3	3,650
May	12,846	3,320	54	414	25,480
June	173,901	124,000	337	5,797	344,900
July	7,787	752	166	251	15,450
August	4,265	217	105	138	8,460
September	49,897	12,200	112	1,663	98,970
Water year 1934-35	258,509	124,000	28	708	512,700

Llano River near Castell, Tex.

Location.- Staff gage, lat. 30°43', long. 98°53', 4 miles above mouth of Hickory Creek and 6 miles east of Castell, Llano County. Prior to June 14, 1935, water-stage recorder at same site and datum.

Drainage area.- 3,514 square miles.

Records available.- November 1923 to September 1935.

Average discharge.- 11 years (1924-35), 389 second-feet.

Extremes.- Maximum discharge during year, 388,000 second-feet, by slope-area method, June 14 (gage height, 37.0 feet, from flood marks); minimum, 16 second-feet Oct. 5. 1923-35: Maximum discharge, that of June 14, 1935; minimum, 6.4 second-feet Aug. 26, 1934 (gage height, 0.05 foot).

Remarks.- Records good except those for Apr. 30 to June 6 and June 8-20, which are poor and were estimated from fragmentary gage-height record and on basis of records for station near Junction. Small diversions above station slightly reduce low-water flow.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	23	43	54	55	62	53			515	270	143
2	18	24	44	53	55	62	51		752	485	276	146
3	18	25	44	52	55	64	50			456	245	151
4	18	25	45	50	55	68	76			430	229	585
5	16	25	44	50	54	69	223		3,270	421	210	8,960
6	18	25	46	50	55	75	177		10,600	403	200	5,280
7	18	28	49	56	62	202	111		2,690	398	193	2,500
8	18	32	54	58	190	137	83	302	1,380	388	184	1,360
9	18	30	56	58	960	98	72			352	178	7,540
10	18	30	53	58	368	84	65			316	175	16,900
11	18	30	51	56	257	74	60		562	300	171	4,760
12	19	29	49	55	229	70	56			295	164	2,370
13	21	30	49	54	169	69	53			291	168	1,650
14	24	101	49	53	125	66	51		216,000	328	220	1,310
15	26	89	50	53	106	65	50		84,700	287	229	1,120
16	27	118	50	53	93	63	50		7,940	262	202	920
17	31	64	56	53	85	61	51		3,690	234	189	880
18	24	54	58	59	78	60	51	12,600	1,780	289	178	770
19	23	49	58	58	75	60	57		1,190	330	168	732
20	72	47	58	65	74	60	61		1,060	397	157	532
21	53	44	57	58	72	63	89		1,010	315	168	458
22	40	40	55	59	70	63	109	1,960	950	284	200	412
23	33	39	53	59	70	62	82		950	1,670	186	406
24	29	38	52	59	70	62	68		880	510	177	403
25	27	38	52	58	65	62	64	790	770	620	162	458
26	26	38	52	56	64	60	67		723	424	157	446
27	25	38	57	55	64	58	64		1,530	358	144	466
28	24	38	57	55	62	56	64	752	750	314	140	480
29	23	42	57	55	-	57	64		596	295	140	385
30	23	42	59	55	-	57	61		556	300	186	352
31	23	-	58	55	-	54	-		-	300	146	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	789	72	16	25.5	1,560
November	1,275	118	23	42.5	2,530
December	1,615	59	43	52.1	3,200
Calendar year 1934	36,441.1	6,160	6.4	99.8	72,270
January	1,722	65	50	55.5	3,420
February	3,727	960	54	133	7,390
March	2,223	202	54	71.7	4,410
April	2,233	223	50	74.4	4,430
May	80,672	-	-	2,602	160,000
June	348,833	216,000	-	11,630	691,900
July	12,639	1,670	282	408	25,070
August	5,812	276	140	187	11,530
September	63,375	16,900	143	2,112	125,700
Water year 1934-35	524,915	216,000	16	1,438	1,041,000

Pedernales River near Spicewood, Tex.

Location.- Staff gage, lat. 30°25'15", long. 98°4'50", in Travis County, 5.4 miles above confluence with Colorado River and 8 miles southeast of Spicewood, Burnet County. Zero of gage is 624.8 feet above mean sea level.

Drainage area.- 1,294 square miles.

Records available.- November 1923 to September 1935.

Average discharge.- 11 years (1924-35), 186 second-feet.

Extremes.- Maximum discharge during year, about 105,000 second-feet June 15 (gage height, 32.0 feet, from graph based on gage readings); no flow Oct. 1 to Nov. 1 and Nov. 8-13.

1923-35: Maximum discharge, 155,000 second-feet, by slope-area method, May 28, 1929 (gage height, 40.4 feet, from flood marks); no flow at times.

Remarks.- Records good except those above 10,000 second-feet, which are fair, and those estimated for June 17-29, which are poor. No diversions for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	5.5	14	9.0	10	15	1.8	2,090	154	150	9.0
2		3.9	5.5	12	9.0	10	56	1.9	894	143	102	8.5
3		11	5.0	12	8.0	9.0	91	3.2	329	137	69	12
4		.5	4.1	10	8.0	9.0	20	5.5	808	125	52	2,700
5		.2	5.0	10	7.0	8.5	10	411	1,480	129	40	652
6		.2	6.0	10	6.0	8.0	7.0	492	836	111	37	1,370
7		.1	6.0	12	10	7.0	5.0	196	280	102	32	1,130
8		0	5.5	12	10	7.0	5.0	98	165	95	28	1,350
9		0	5.0	11	20	7.0	4.4	141	131	86	25	13,400
10		0	3.8	10	76	7.0	4.1	2,750	129	79	24	5,790
11		0	3.5	9.5	722	6.5	3.8	725	167	70	20	768
12		0	3.5	9.0	430	6.0	3.2	197	368	148	18	358
13		0	3.5	8.5	202	6.0	2.6	92	3,250	92	17	241
14		.2	3.5	8.5	122	5.0	2.6	55	6,360	69	25	178
15		531	3.5	9.0	77	5.0	2.0	37	68,700	57	348	154
16		456	3.8	9.5	54	4.7	2.3	27	2,820	48	228	137
17		303	5.0	9.5	37	4.4	4.4	106		44	102	111
18		81	5.0	8.5	31	4.4	4.1	13,200		48	54	99
19		60	5.0	8.5	27	4.4	3.2	8,410	106	64	33	90
20		160	5.0	11	23	4.4	2.9	1,140		67	26	81
21		148	4.7	12	18	4.1	2.6	382		55	22	74
22		65	5.0	12	16	4.1	2.0	202	3,210	42	19	72
23		35	9.5	12	15	3.8	1.8	146		37	16	69
24		22	11	12	14	3.8	1.8	115		196	14	74
25		17	10	12	12	3.8	1.8	93		448	13	4,490
26		12	12	12	11	3.2	2.0	70	330	245	12	1,890
27		9.0	14	12	10	4.7	2.0	55		111	38	1,150
28		7.0	12	11	10	8.5	1.8	161		88	27	529
29		8.5	12	10	-	9.5	1.8	2,350		162	22	267
30		7.0	12	9.0	-	8.0	1.8	4,280	174	608	18	215
31		-	15	9.0	-	13	-	541	-	310	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	1,937.6	531	0	64.6	3,840
December	209.9	15	3.5	6.77	416
Calendar year 1934	28,813.2	3,770	0	78.9	57,140
January	327.5	14	8.5	10.6	650
February	1,994.0	722	6.0	71.2	3,960
March	199.8	13	3.2	6.45	396
April	268.0	91	1.8	8.93	532
May	36,464.4	13,200	1.8	1,174	72,330
June	97,913	68,700	-	3,264	194,200
July	4,170	608	37	135	8,270
August	1,645	348	12	53.1	3,260
September	37,488.5	13,400	8.5	1,250	74,360
Water year 1934-35	182,617.7	68,700	0	500	362,200

Guadalupe River near Spring Branch, Tex.

Location.- Water-stage recorder, lat. 29°51'40", long. 98°23', at New Braunfels-Blanco highway bridge 4 miles southeast of Spring Branch, Comal County. Zero of gage is 947.37 feet above mean sea level.

Drainage area.- 1,432 square miles.

Records available.- June 1922 to September 1935.

Average discharge.- 13 years, 244 second-feet.

Extremes.- Maximum discharge during year, 114,000 second-feet June 15 (gage height, 41.30 feet); minimum, 13 second-feet Oct. 15.
1922-35: Maximum discharge, 121,000 second-feet July 3, 1932 (gage height, 42.10 feet); minimum, about 4.7 second-feet Aug. 18, 1923.

Remarks.- Records good. About 400 acres have been declared irrigated above station. Slight regulation during low-water periods caused by operation of water-power plants upstream.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	16	31	56	41	48	55	43	3,690	596	261	117
2	17	44	31	51	37	48	46	46	845	563	235	115
3	17	23	33	46	37	44	48	48	695	535	218	122
4	17	18	32	44	37	46	73	53	549	508	203	312
5	18	18	31	43	37	46	145	518	1,070	471	198	358
6	18	18	38	38	37	48	117	430	1,930	443	195	293
7	17	18	37	38	58	48	96	212	645	416	190	602
8	17	22	40	41	56	48	75	150	485	394	182	508
9	17	21	34	43	96	46	62	125	389	362	176	1,520
10	16	20	34	41	283	46	56	460	340	340	171	7,480
11	16	21	34	44	259	44	56	303	336	312	171	1,760
12	16	22	34	41	174	43	55	115	585	293	166	820
13	16	22	34	41	158	41	46	89	2,190	279	163	591
14	15	28	33	38	130	43	44	77	5,890	275	163	459
15	15	83	33	37	110	43	43	61	66,100	279	156	430
16	16	84	33	37	96	43	40	71	12,300	268	163	384
17	16	34	50	37	84	41	37	60	4,030	255	158	348
18	16	27	43	37	75	40	36	3,760	2,610	245	150	312
19	16	25	40	37	68	38	32	10,100	2,190	235	145	293
20	16	28	38	41	64	38	33	1,700	1,770	232	143	275
21	16	91	38	43	56	38	34	645	1,520	226	140	265
22	25	43	40	40	56	38	34	430	1,340	215	135	268
23	24	29	40	43	56	38	44	645	1,910	212	130	324
24	23	25	40	44	53	40	46	517	1,340	932	127	462
25	22	26	40	40	55	41	48	340	1,070	1,730	135	3,120
26	20	25	40	37	51	46	46	268	945	439	143	4,110
27	18	24	64	37	51	81	77	232	845	348	132	1,840
28	18	25	81	37	48	158	56	574	770	412	130	770
29	17	28	58	37	-	75	46	1,520	695	498	125	645
30	17	32	62	37	-	35	48	4,230	645	535	120	563
31	16	-	58	37	-	55	-	1,070	-	312	116	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	548	25	15	17.7	1,090
November	940	91	16	31.3	1,860
December	1,274	81	31	41.1	2,530
Calendar year 1934	27,466.5	980	7	75.2	54,490
January	1,263	56	37	40.7	2,510
February	2,363	283	37	84.4	4,690
March	1,547	158	38	49.9	3,070
April	1,674	145	32	55.8	3,320
May	28,912	10,100	43	933	57,350
June	119,919	66,100	336	3,997	237,900
July	13,160	1,730	212	425	26,100
August	5,039	261	115	163	9,990
September	29,496	7,480	115	983	58,500
Water year 1934-35	206,135	66,100	15	565	408,900

Guadalupe River above Comal River, at New Braunfels, Tex.

Location.- Water-stage recorder, lat. 29°42'55", long. 98°6'40", at New Braunfels, Comal County, 1.1 miles above Comal River. Zero of gage is 586.56 feet above mean sea level.

Drainage area.- 1,666 square miles.

Records available.- December 1927 to September 1935; March 1898 to December 1899, January 1915 to December 1927 at site 1 mile below Comal River.

Extremes.- Maximum discharge during year, 101,000 second-feet June 15 (gage height, 32.95 feet); minimum, 18 second-feet Oct. 25 (gage height, 0.94 foot).
1927-35: Maximum discharge, that of June 15, 1935; minimum, 12 second-feet Sept. 1, 1934 (gage height, 0.90 foot).
Maximum stage known, about 38 feet in 1869 and December 1913.

Remarks.- Records good. Small diversions above station for irrigation. Slight regulation during low water caused by operation of small power plants upstream.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 2 to Sept. 30)

1.0	20	2.2	270	6.0	5,315	18.0	25,800
1.2	46	2.4	383	8.0	8,215	20.0	30,800
1.4	70	2.6	531	10.0	11,115	22.0	37,000
1.6	95	2.8	740	12.0	14,160	24.0	45,000
1.8	128	3.0	990	14.0	17,600	26.0	54,600
2.0	186	4.0	2,415	16.0	21,500		

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	21	45	86	59	82	76	59	3,760	965	560	221
2	26	22	42	78	58	82	72	70	2,160	928	499	221
3	20	60	42	75	56	83	76	72	1,360	878	459	230
4	18	44	42	70	58	86	68	96	1,180	840	437	252
5	19	51	41	68	56	86	66	320	940	802	424	422
6	18	44	44	64	56	83	95	454	2,600	765	410	550
7	18	36	47	65	72	78	133	448	1,550	718	403	534
8	17	30	45	64	78	76	108	261	952	706	390	821
9	17	28	46	63	100	76	94	198	740	673	383	695
10	18	24	46	60	124	77	87	514	628	662	378	3,790
11	18	23	48	58	398	77	76	602	580	628	422	5,370
12	18	27	46	58	394	75	68	406	651	609	365	1,390
13	17	28	44	57	347	72	64	258	2,200	580	353	999
14	18	33	44	58	312	69	64	179	3,050	550	353	729
15	18	96	44	58	261	65	60	156	52,300	531	371	628
16	17	63	46	58	221	65	57	306	31,400	531	341	560
17	18	104	62	57	190	64	56	217	6,280	515	336	515
18	17	96	64	57	170	64	54	4,640	3,720	499	323	475
19	17	74	66	56	150	66	54	7,720	2,920	491	312	431
20	17	58	63	69	138	66	53	7,120	2,490	475	302	417
21	17	58	56	91	126	65	51	1,660	2,120	467	291	403
22	18	52	52	78	117	63	46	1,030	1,910	451	275	390
23	17	82	51	71	110	62	45	9,630	1,970	431	266	403
24	17	65	52	65	104	60	47	1,140	2,050	546	261	512
25	16	53	54	63	100	60	48	852	1,600	2,100	248	795
26	19	47	54	64	106	58	64	609	1,410	1,200	248	5,720
27	26	42	141	64	88	59	65	507	1,270	764	243	2,300
28	24	38	153	60	85	58	62	632	1,180	764	243	1,400
29	23	41	121	60	-	108	75	1,690	1,110	897	238	965
30	23	48	108	60	-	141	72	3,890	1,040	754	230	852
31	22	-	91	59	-	95	-	3,060	-	729	225	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	600	32	16	19.4	1,190
November	1,487	104	21	49.6	2,950
December	1,900	153	41	61.3	3,770
Calendar year 1934	44,207	1,370	13	121	87,680
January	2,014	91	56	65.0	3,990
February	4,134	398	56	148	8,200
March	2,321	141	58	74.9	4,600
April	2,056	133	45	68.5	4,080
May	48,776	9,630	59	1,573	96,750
June	137,121	52,300	580	4,571	272,000
July	22,449	2,100	431	724	44,530
August	10,588	560	225	342	21,000
September	32,990	5,720	221	1,100	65,450
Water year 1934-35	266,436	52,300	16	730	528,500

Guadalupe River below Cuero, Tex.

Location.- Water-stage recorder, lat. 29°3', long. 97°18', three-quarters of a mile upstream from Heards Bridge, on Arneckville road, and 2½ miles southeast of Cuero, DeWitt County. Zero of gage is 125.45 feet above mean sea level.

Drainage area.- 5,073 square miles.

Records available.- August 1916 to December 1935 (discontinued). Comparable records at Schleicher Bridge, 4 miles upstream, December 1902 to December 1906, August 1915 to August 1916.

Average discharge.- 17 years (1916-18, 1920-35), 1,365 second-feet.

Extremes.- Maximum discharge during period Oct. 1, 1934, to Dec. 16, 1935, about 55,500 second-feet June 19 (gage height, 30.07 feet); minimum, 259 second-feet Oct. 5, 7, 1934; minimum daily discharge, 316 second-feet Oct. 26, 1934.
1902-6, 1915-35: Maximum discharge, about 101,000 second-feet May 30, 1929 (gage height, 35.2 feet); minimum discharge not determined; minimum daily discharge, 165 second-feet Nov. 4, 1917.
Maximum stage known, 37.6 feet Nov. 4, 1913.

Remarks.- Records good except those above 15,000 second-feet and those partly estimated for May 15, 16, which are fair. Flow not materially affected by numerous small diversions above station. Low-water flow regulated by operation of water-power plants upstream.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	369	400	2,150	923	555	505	672	840	12,600	2,550	1,800	891
2	968	405	934	790	493	590	777	1,160	11,300	2,470	1,730	891
3	634	572	482	637	488	561	601	7,260	5,340	2,310	1,650	923
4	460	616	488	631	538	637	596	12,300	8,160	2,310	1,540	956
5	359	427	654	567	443	672	607	15,400	5,020	2,230	1,400	1,190
6	344	359	834	493	477	684	625	18,300	4,060	2,150	1,290	3,180
7	339	449	1,230	549	709	642	721	16,500	4,540	2,070	1,230	6,620
8	374	460	1,690	561	752	654	549	16,100	4,620	2,000	1,230	7,900
9	374	364	1,160	510	482	678	421	9,860	4,220	1,880	1,190	9,340
10	432	359	613	471	1,160	637	477	2,940	3,260	1,800	1,260	10,100
11	384	416	505	527	3,100	721	637	4,380	2,940	1,800	1,190	6,940
12	344	349	499	516	6,060	714	499	6,460	2,550	1,690	1,020	4,380
13	369	349	477	482	8,240	625	389	4,860	4,460	1,690	1,060	5,580
14	379	369	411	389	7,980	672	499	2,070	7,500	1,650	1,160	4,780
15	334	733	374	505	7,100	764	544	1,260	9,940	1,500	1,190	2,230
16	389	2,150	400	510	2,700	690	505	1,290	14,200	1,260	1,090	2,000
17	369	1,620	421	465	1,160	666	516	988	13,200	1,500	1,160	1,840
18	354	792	471	516	923	613	555	1,890	24,900	1,500	1,060	1,690
19	550	667	746	538	1,060	648	510	7,660	52,500	1,430	1,020	1,540
20	389	1,290	796	465	859	660	3,280	12,000	38,800	1,400	956	1,290
21	359	2,630	533	521	891	584	2,940	23,500	21,000	1,360	923	1,290
22	394	4,140	581	2,390	790	660	1,500	29,000	11,500	1,360	988	1,350
23	449	4,380	442	1,920	752	660	470	22,300	5,340	1,330	1,060	1,400
24	465	1,360	421	690	690	527	443	15,500	4,060	1,400	956	1,190
25	321	561	471	667	666	499	510	5,100	2,940	1,330	891	1,880
26	316	590	538	438	672	493	498	2,940	2,780	1,260	859	7,660
27	344	590	2,440	488	746	544	2,510	2,550	3,100	1,690	1,020	12,400
28	389	544	7,580	533	533	654	3,820	2,310	3,100	2,630	988	21,700
29	354	613	9,770	465	-	477	3,260	2,150	2,940	2,310	859	21,300
30	496	1,840	11,100	460	-	904	1,160	3,100	2,700	2,150	923	14,600
31	412	-	3,340	449	-	714	-	5,340	-	1,730	956	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,783	968	316	412	25,350
November	30,394	4,380	349	1,013	60,290
December	52,551	11,100	374	1,695	104,200
Calendar year 1934	375,014	11,100	242	1,027	743,800
January	19,966	2,390	389	644	39,600
February	51,019	8,240	443	1,822	101,200
March	19,749	904	477	637	39,170
April	31,091	3,820	389	1,036	61,670
May	257,308	29,000	840	8,300	510,400
June	293,570	52,500	2,550	9,786	582,300
July	55,740	2,630	1,260	1,798	110,600
August	35,649	1,800	859	1,150	70,710
September	159,011	21,700	891	5,300	315,400
Water year 1934-35	1,018,831	52,500	316	2,791	2,021,000

Guadalupe River below Cuero, Tex.

(Continued)

Discharge, in second-feet, Oct. 1 to Dec. 16, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,820	1,090	923									
2	2,310	1,160	891									
3	1,960	1,160	859									
4	1,840	1,090	846									
5	1,730	1,060	891									
6	1,540	1,060	891									
7	1,540	1,160	1,060									
8	1,470	1,090	2,630									
9	1,500	956	3,260									
10	1,360	956	3,020									
11	1,290	1,020	3,660									
12	1,290	1,020	5,740									
13	1,330	923	7,580									
14	1,360	956	7,260									
15	1,330	956	3,660									
16	1,190	988	1,580									
17	988	859	--									
18	1,090	923	--									
19	1,230	891	--									
20	1,430	956	--									
21	1,920	956	--									
22	1,800	891	--									
23	1,470	846	--									
24	1,260	859	--									
25	1,190	956	--									
26	1,060	891	--									
27	1,060	891	--									
28	1,190	956	--									
29	1,230	1,120	--									
30	1,160	923	--									
31	1,190	--	--									

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	46,128	3,820	988	1,488	91,490
November	29,563	1,160	846	985	58,640
December 1-16	44,751	7,580	846	2,797	88,760
The period					238,900
January					
February					
March					
April					
May					
June					
July					
August					
September					
Water year					

Guadalupe River at Victoria, Tex.

Location.- Water-stage recorder, lat. 28°47', long. 97°1', at Victoria-Goliad highway bridge, in Victoria, Victoria County, 1,300 feet above Texas & New Orleans (Galveston, Harrisburg & San Antonio) Railroad bridge.

Drainage area.- 5,676 square miles.

Records available.- November 1934 to September 1935.

Extremes.- Maximum discharge during period, 38,500 second-feet June 20 (gage height, 29.72 feet); minimum, 354 second-feet Nov. 13.
Maximum stage known, 29.9 feet, present datum, June 1, 1929 (discharge, 79,000 second-feet, determined from well-defined rating curve). Subsequent to flood of June 1, 1929, there has been a change in the stage-discharge relation, the cause of which is unknown.

Remarks.- Records good except those below 1,000 second-feet and those partly estimated from fragmentary gage-height record for July 7-10, 19, 25-26, Aug. 4-8, 14-25, 27, which are fair. Flow not materially affected by numerous small diversions above station. Low-water flow partly regulated by operation of water-power plants upstream.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		-	1,810	2,030	567	665	974	1,140	7,570	2,860	1,660	896
2		-	1,510	1,030	640	640	792	1,030	12,600	2,660	1,690	922
3		-	740	896	555	690	1,100	2,650	9,840	2,540	1,630	948
4		579	579	792	567	690	740	8,810	6,680	2,460	1,600	948
5		519	579	766	603	740	818	13,100	7,030	2,340	1,480	1,000
6		435	715	690	507	715	766	15,000	4,480	2,260	1,330	1,430
7		400	896	690	567	715	740	16,700	4,300	2,180	1,300	4,420
8		447	1,270	690	740	665	715	16,700	4,750	2,120	1,240	6,350
9		459	1,360	690	715	690	615	16,400	4,980	2,040	1,240	7,480
10		388	922	628	1,110	690	543	8,610	3,760	1,900	1,220	8,960
11		388	640	640	4,240	665	555	3,940	3,360	1,840	1,220	9,140
12		412	579	640	4,440	715	665	4,840	2,900	1,810	1,160	5,220
13		377	591	640	7,200	690	579	6,020	4,280	1,750	1,050	4,570
14		377	579	603	7,760	615	483	3,550	7,200	1,690	1,050	5,280
15		507	519	531	7,410	690	567	1,870	7,760	1,660	1,140	3,310
16		889	507	665	5,070	690	591	1,480	10,800	1,480	1,140	2,120
17		1,870	519	615	1,840	640	543	1,330	14,400	1,450	1,110	1,940
18		974	555	591	1,080	640	555	1,270	15,800	1,540	1,110	1,780
19		792	615	628	1,050	628	591	3,660	19,300	1,540	1,050	1,690
20		715	818	690	1,050	640	779	8,440	36,200	1,480	1,050	1,480
21		1,690	740	567	896	640	3,480	12,800	28,300	1,450	1,030	1,330
22		2,620	591	963	922	628	2,110	17,300	18,700	1,420	1,030	1,330
23	•	4,160	640	2,300	870	665	1,150	21,100	10,900	1,390	1,050	1,330
24		2,980	531	1,240	818	665	628	20,100	5,220	1,390	1,000	1,390
25		904	531	665	792	591	640	15,400	4,000	1,450	1,030	1,780
26		665	579	640	766	579	715	4,810	3,140	1,360	948	4,690
27		665	1,030	567	792	579	1,040	3,280	3,280	1,390	974	9,200
28		615	4,580	603	792	640	2,850	2,860	3,360	1,940	1,050	12,900
29		615	7,620	615	-	690	4,340	2,540	3,220	2,300	974	16,200
30		833	9,590	579	-	1,940	2,940	2,540	3,020	2,150	844	17,800
31		-	9,150	567	-	2,510	-	3,800	-	1,810	870	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	-	-	-	-	-
November 4-30	26,275	4,160	377	973	52,120
December	51,885	9,590	507	1,674	102,900
Calendar year					
January	24,451	2,300	531	789	48,500
February	54,359	7,760	507	1,941	107,800
March	23,640	2,510	579	763	46,890
April	33,604	4,340	483	1,120	66,650
May	243,850	21,100	1,030	7,866	483,700
June	271,110	36,200	2,900	9,037	537,700
July	57,650	2,860	1,360	1,860	114,300
August	36,270	1,690	844	1,170	71,940
September	137,834	17,800	896	4,594	273,400
The period					1,906,000

Comal River at New Braunfels, Tex.

Location.- Water-stage recorder, lat. 29°42'5", long. 98°7'10", 200 feet upstream from San Antonio Street viaduct in New Braunfels, Comal County, and 1.1 miles above confluence with Guadalupe River. Zero of gage is 582.61 feet above mean sea level.

Records available.- December 1927 to September 1935.

Extremes.- Maximum stage during year, 30.71 feet, from flood marks, June 15, affected by backwater from Guadalupe River (discharge not determined); minimum discharge, 207 second-feet Nov. 20 (gage height, 2.68 feet, caused by regulation); minimum daily discharge, 280 second-feet Dec. 3.

1927-35: Maximum stage, that of June 15, 1935; minimum discharge, about 142 second-feet Dec. 11, 1928 (gage height, 2.12 feet, caused by regulation); minimum mean daily discharge, 246 second-feet Apr. 3 and Oct. 30, 1930.

Maximum stage known, 35.4 feet December 1913 (probably some backwater from Guadalupe River).

Remarks.- Records good except those above 500 second-feet, which are fair, and those affected by backwater from Guadalupe River, which are poor. Flow partly regulated by steam power plant half a mile above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	300	286	286	290	311	300	290	300	*329	336	340	336
2	294	286	286	294	311	300	294	344	*322	344	344	336
3	311	286	290	294	297	300	356	308	318	340	344	348
4	326	286	283	294	294	300	304	322	318	340	344	344
5	326	290	286	290	290	300	300	1,160	348	340	344	340
6	318	286	286	294	290	300	300	326	*333	340	344	365
7	315	290	286	297	297	294	300	304	326	336	340	354
8	322	290	283	294	294	297	297	300	322	336	340	351
9	329	286	283	294	297	300	300	300	322	336	344	362
10	315	283	286	294	297	297	300	376	326	336	344	345
11	315	283	286	294	300	297	297	308	333	336	340	
12	315	283	286	294	315	290	297	308	340	336	340	333
13	308	283	283	294	311	290	297	304	*866	336	340	333
14	300	283	283	294	297	286	297	304	*390	336	340	329
15	315	420	283	294	297	290	300	332	*416	336	340	326
16	318	297	283	290	290	290	300	358		340	336	329
17	322	290	290	294	290	290	304	308		344	336	329
18	300	290	286	297	294	290	308	*1,610	*354	354	336	333
19	308	290	286	297	294	294	318	*437	*347	354	336	336
20	304	286	283	294	294	294	304	*358	*347	351	344	340
21	304	283	286	297	294	294	300	329	347	347	347	344
22	315	283	283	297	294	294	300	311	344	354	344	340
23	322	283	283	297	294	294	308	315	*336	347	347	340
24	315	286	290	297	294	290	300	308	*336	365	347	340
25	297	286	283	300	294	290	300	311	336	*358	347	*496
26	297	286	286	300	294	290	300	308	336	336	344	*438
27	297	290	539	300	294	290	300	304	336	336	347	*393
28	294	286	304	300	294	290	297	333	336	336	340	344
29	290	290	297	304	-	290	304	412	336	347	336	329
30	294	286	294	311	-	294	300	*333	336	344	336	329
31	290	-	294	311	-	290	-	*333	-	344	336	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,576	329	290	309	18,990
November	8,733	420	283	291	17,320
December	9,133	539	280	295	18,120
Calendar year 1934	116,070	539	280	318	230,200
January	9,188	311	290	296	18,220
February	8,309	315	290	297	16,480
March	9,102	300	285	294	18,050
April	9,072	356	290	302	17,990
May	12,264	1,610	300	396	24,330
June	10,868	866	318	362	21,560
July	10,621	365	336	343	21,070
August	10,587	347	336	342	21,000
September	10,607	-	326	350	20,840
Water year 1934-35	117,960	-	280	323	234,000

*Discharge estimated or partly estimated, owing to backwater effect from Guadalupe River.

San Marcos River at Ottine, Tex.

Location.- Water-stage recorder, lat. 29°36', long. 97°35', at highway bridge a quarter of a mile southwest of Ottine, Gonzales County. Zero of gage is 285.1 feet above mean sea level.

Drainage area.- 1,249 square miles.

Records available.- June 1915 to September 1935.

Average discharge.- 20 years, 435 second-feet.

Extremes.- Maximum discharge during year, 14,000 second-feet June 17 (gage height, 31.26 feet); minimum, 54 second-feet Apr. 8 (caused by regulation); minimum daily discharge not determined.

1915-35: Maximum discharge (determined by extension of rating curve), about 202,000 second-feet May 29, 1929 (gage height, 43.32 feet); no flow July 29, 1923, Mar. 31, 1925, June 24, 1926 (caused by regulation); minimum daily discharge, 40 second-feet Sept. 16, 1917.

Maximum stage known, about 44.0 feet in December 1913.

Remarks.- Records good except those for periods Nov. 12 to Jan. 2 and June 18 to July 10, which are poor and were estimated on basis of fragmentary gage-height records and discharge records of tributary stations upstream. Small diversions above station for irrigation and municipal uses. Low-water flow regulated by operation of several small power plants above station. Most of normal flow from large springs near San Marcos.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	250	107		150	131	171	147	120	620		348	194
2	113	107		150	135	162	142	331	646		308	188
3	114	117		149	135	165	169	470	671		278	191
4	109	107		154	139	173	210	841	552		262	586
5	111	107		145	147	173	182	5,680	1,400		254	548
6	112	106		136	144	173	159	8,150	2,230	464	246	702
7	113	104		155	194	168	107	1,540	1,680		239	3,440
8	104	104		149	177	170	125	443	620		232	5,630
9	109	104		143	258	177	135	358	603		224	1,960
10	107	111		143	340	184	138	1,930	566		232	810
11	99	110		137	2,490	173	138	2,200	450	332	209	794
12	107			142	1,870	169	129	652	459	340	224	433
13	106			141	5,040	165	143	443	2,320	332	232	239
14	108			142	1,040	162	139	350	9,870	324	216	269
15	97		120	137	355	166	130	318	6,500	316	246	246
16	109	118		131	278	166	143	286	8,820	308	239	224
17	103			148	240	155	137	342	9,820	308	254	216
18	109			142	217	168	138	5,290		308	209	209
19	106			143	210	156	149	9,480		292	158	194
20	108			332	182	165	148	8,010		292	202	190
21	99			1,100	187	164	124	4,600		284	209	191
22	110	365		251	184	161	130	907		292	194	186
23	105			164	177	157	143	773	849	284	202	172
24	104			149	175	155	116	671		269	194	292
25	107			150	174	148	139	637		306	186	661
26	106	118		142	169	137	179	552		396	183	1,900
27	106			139	159	138	264	467		408	194	1,280
28	108		2,010	139	164	151	148	736		438	188	569
29	99			136	-	138	124	1,600		348	184	484
30	104		160	129	-	159	127	1,740		316	202	433
31	107	-	150	137	-	165	-	926	-	316	202	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,449	250	97	111	6,840
November	4,119	-	-	137	8,170
December	9,480	-	-	308	18,760
Calendar year 1934	93,138	2,910	-	255	184,800
January	5,705	1,100	129	184	11,320
February	13,111	3,040	131	468	26,000
March	5,034	184	157	162	9,980
April	4,401	264	107	147	8,730
May	60,842	9,480	120	1,963	120,700
June	58,884	9,870	-	1,963	116,800
July	11,449	-	-	369	22,710
August	6,950	348	158	224	13,790
September	23,431	5,630	172	781	46,470
Water year 1934-35	206,835	9,870	-	567	410,300

Blanco River at Wimberley, Tex.

Location.- Water-stage recorder, lat. 29°59', long. 98°4', 800 feet below mouth of Cypress Creek and a quarter of a mile south of Wimberley, Hays County.

Drainage area.- 378 square miles.

Records available.- August 1924 to September 1926, June 1928 to September 1935.

Extremes.- Maximum discharge during year, 13,100 second-feet June 15 (gage height, 11.40 feet); minimum, 5.8 second-feet Oct. 1-3 (gage height, 0.23 foot).
1924-26, 1928-35: Maximum discharge, by slope-area method, 113,000 second-feet May 28, 1929 (gage height, 31.10 feet); minimum, 3.5 second-feet Sept. 24-27, 1934 (gage height, 0.20 foot).

Remarks.- Records excellent except those for Dec. 30 to Jan. 6, which are fair and were interpolated. No diversions above station.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

0.2	4.0	.8	120	1.6	540	3.6	2,135
.3	11.7	.9	152	2.0	653	4.0	2,610
.4	25.5	1.0	185	2.3	845	5.0	3,690
.5	44.5	1.2	258	2.6	1,078	6.0	5,200
.6	66	1.4	342	3.0	1,475	7.0	6,570
.7	92	1.6	438	3.3	1,800	8.0	7,990

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.8	8.9	15	19	13	21	15	13	299	175	62	24
2	5.8	9.8	13	18	13	21	16	15	224	165	53	24
3	5.8	9.8	12	17	13	21	15	19	206	155	49	24
4	6.4	8.9	12	16	13	21	14	39	247	149	49	26
5	7.0	7.9	12	16	13	19	15	209	930	139	43	29
6	7.0	8.9	13	15	13	18	14	33	333	130	43	112
7	7.9	7.9	11	15	18	16	14	24	243	123	41	251
8	8.9	7.0	9.8	16	15	18	14	24	220	112	41	148
9	8.9	7.0	8.9	16	16	18	14	27	216	106	39	348
10	9.8	7.0	8.9	16	45	16	13	1,190	206	100	59	334
11	12	7.0	9.8	16	223	15	13	145	206	92	41	98
12	13	7.0	9.8	15	100	15	13	71	292	82	37	62
13	13	7.0	9.8	15	84	15	13	49	735	82	37	49
14	14	9.4	9.8	14	64	14	13	41	1,760	82	41	43
15	14	584	8.9	14	51	14	13	77	7,210	84	94	39
16	15	86	8.9	14	43	14	13	130	2,240	76	53	37
17	15	32	21	13	39	14	13	49	1,240	69	47	35
18	16	18	13	13	35	14	13	4,470	904	66	43	35
19	16	21	11	13	33	14	13	2,220	713	69	37	33
20	15	19	11	22	31	14	13	635	573	79	35	33
21	14	34	11	19	29	14	13	413	483	66	35	31
22	14	15	12	15	27	14	13	356	423	57	31	31
23	14	14	12	15	27	14	13	388	398	53	31	31
24	13	14	13	15	26	14	13	347	333	84	33	33
25	13	14	13	16	26	14	13	278	290	308	31	800
26	13	15	15	15	24	14	13	208	266	100	29	350
27	12	14	140	14	24	13	13	165	250	74	27	369
28	11	15	48	14	22	13	13	303	228	94	27	147
29	11	39	29	14	-	14	13	652	206	102	26	103
30	9.8	16	24	14	-	21	13	328	192	98	26	92
31	9.8	-	20	14	-	18	-	210	-	95	26	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	350.9	16	5.8	11.3	696
November	1,063.5	584	7.0	35.4	2,110
December	565.6	140	8.9	18.2	1,120
Calendar year 1934	21,959.3	2,080	5.8	60.2	43,550
January	477	22	13	15.4	946
February	1,080	223	13	38.6	2,140
March	497	21	13	16.0	986
April	404	16	13	13.5	801
May	13,128	4,470	13	423	26,040
June	22,066	7,210	192	736	43,770
July	3,266	308	53	105	6,480
August	1,266	94	26	40.8	2,510
September	3,771	800	24	126	7,480
Water year 1934-35	47,935.0	7,210	5.8	131	95,080

Plum Creek near Luling, Tex.

Location.- Water-stage recorder, lat. 29°42', long. 97°37', at highway bridge 2 miles above Texas & New Orleans (Galveston, Harrisburg & San Antonio) Railroad bridge and 3 miles northeast of Luling, Caldwell County. Zero of gage is 328.5 feet above mean sea level.

Drainage area.- 356 square miles.

Records available.- March 1930 to September 1935.

Extremes.- Maximum discharge during year, 4,060 second-feet May 5 (gage height, 16.80 feet); minimum, 1.8 second-feet Oct. 13-15.
1930-35: Maximum discharge, 4,270 second-feet June 16, 1930; maximum gage height, 16.83 feet Jan. 5, 1932; minimum discharge, 0.8 second-foot July 19, 1934. A stage of 22.0 feet has been reached.

Remarks.- Records fair except those for Jan. 20 to Feb. 21, Feb. 28 to Mar. 4 and June 6-27, which are poor and were estimated on basis of fragmentary gage-height records and records for station on San Marcos River at Ottine. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	2.4	5.1	11		13	9.7	6.3	40	19	5.1	4.2
2	3.8	2.6	3.6	9.7		13	7.9	185	58	19	4.7	4.2
3	3.1	4.9	3.6	8.9		13	12	198	45	16	4.4	4.2
4	2.6	3.8	3.4	8.6	10	12	10	897	58	15	4.7	35
5	2.4	3.4	3.2	7.9		12	8.6	3,550	354	14	4.2	19
6	2.3	2.8	4.7	7.7		12	8.2	2,870		13	4.9	257
7	2.3	2.4	4.0	8.2		11	7.1	138	452	12	4.4	1,890
8	2.1	2.3	3.6	8.6		12	6.3	41		10	3.8	2,540
9	2.3	2.3	3.6	7.7		26	6.8	30		10	3.8	589
10	2.1	2.3	3.4	7.4		14	7.1	448		7.7	4.2	421
11	2.0	2.3	3.2	7.7		11	7.1	102	30	7.4	4.2	74
12	2.0	2.3	3.2	7.4		10	6.0	35		7.1	3.8	17
13	1.8	2.3	3.2	7.4		9.7	5.5	23		6.8	3.8	12
14	1.8	5.7	3.4	7.7		9.7	5.6	19		6.8	3.8	10
15	1.8	12	3.6	7.7	410	9.3	5.8	17		6.6	26	9.7
16	2.0	3.2	3.6	7.9		9.7	5.8	15	2,400	6.3	7.1	9.7
17	2.0	2.8	29	8.6		9.3	6.0	15		6.0	5.3	9.3
18	2.0	2.4	85	8.9		8.9	6.0	1,580		6.3	4.0	8.9
19	2.0	49	7.7	8.9		9.3	6.0	2,360		6.8	3.6	8.6
20	2.0	25	4.7	325		9.3	6.6	2,990		6.0	3.4	8.6
21	2.1	671	4.4			9.3	6.0	411		5.8	3.6	8.6
22	2.1	40	4.2		16	8.9	6.0	48		5.5	3.4	8.6
23	2.1	6.0	4.0		15	9.3	5.5	39	25	5.3	3.4	12
24	2.0	4.2	4.2		15	9.3	6.6	34		5.5	3.4	74
25	2.0	4.2	4.2		15	8.9	6.6	31		7.1	3.4	420
26	2.1	5.3	4.0	10	14	8.2	76	25		7.9	3.4	1,100
27	2.1	4.0	1,680		14	8.2	80	22		13	3.4	140
28	2.1	3.4	1,970		14	7.9	12	495	18	65	3.2	26
29	2.1	24	99			7.9	8.6	723	18	32	3.2	16
30	2.3	23	21		-	10	8.2	414	18	8.2	3.2	15
31	2.4	-	15		-	13	-	62	-	5.5	3.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	77.8	12	1.8	2.51	154
November	921.3	671	2.3	30.7	1,830
December	3,994.8	1,970	3.2	129	7,920
Calendar year 1934	20,627.3	2,080	1.2	56.5	40,910
January	1,222.9	-	-	39.4	2,430
February	6,313	-	-	225	12,520
March	335.1	26	7.9	10.8	665
April	359.5	80	5.5	12.0	713
May	17,823.3	3,550	6.3	575	35,350
June	16,710	-	-	557	33,140
July	362.6	65	5.3	11.7	719
August	146.2	26	3.2	4.72	290
September	7,751.6	2,540	4.2	258	15,380
Water year 1934-35	56,018.1	-	1.8	153	111,100

San Antonio River near Falls City, Tex.

Location.- Water-stage recorder, lat. 28°57'5", long. 98°3'55", at highway bridge half a mile above Scared Dog Creek and 3.4 miles southwest of Falls City, Karnes County.

Drainage area.- 2,067 square miles.

Records available.- April 1925 to September 1935.

Average discharge.- 10 years, 236 second-feet.

Extremes.- Maximum discharge during year, 14,300 second-feet June 15; maximum gage height, 22.3 feet June 13 (backwater); minimum discharge, 81 second-feet Oct. 14, 15 (gage height, 1.14 feet).
1925-35: Maximum discharge, that of June 15, 1935; maximum gage height, that of June 13, 1935; minimum discharge, 36 second-feet May 11, 12, 1928 (gage height, 0.97 foot).
Maximum stage known, 28.36 feet in 1913.

Remarks.- Records good except those affected by backwater June 13-17, which are fair and were estimated on basis of discharge measurements made daily during the period, and those estimated June 18-25, which are poor. Flow partly regulated by storage in Medina Reservoir (capacity, 254,000 acre-feet). Medina Canal diverts above gage.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	459	88	112	297	108	98	155	985	1,730	536	370	186
2	385	303	116	266	105	98	148	435	925	524	333	186
3	246	279	105	240	105	98	133	1,530	671	497	310	190
4	133	569	105	174	105	98	271	645	1,480	476	302	203
5	112	329	102	151	105	102	328	2,480	3,530	460	297	284
6	105	136	164	144	108	488	416	2,760	1,360	435	293	502
7	98	105	155	144	116	466	766	2,740	718	430	293	1,640
8	95	98	170	140	163	398	345	718	547	419	284	962
9	91	85	144	136	178	190	148	262	435	409	275	1,020
10	91	88	119	133	262	228	126	960	450	399	275	732
11	88	85	108	130	513	266	119	2,330	582	380	262	766
12	88	85	102	126	529	240	112	4,680	2,290	370	293	564
13	85	85	102	126	801	159	108	2,470	10,800	370	297	370
14	81	85	102	122	564	112	105	435	12,400	365	266	297
15	81	135	102	122	370	105	102	297	13,800	375	258	346
16	85	513	102	122	228	95	98	253	10,800	370	266	414
17	85	266	136	122	170	95	98	714	7,820	365	253	414
18	88	170	140	122	136	95	98	605		356	240	389
19	85	119	253	122	133	95	95	1,990		338	232	385
20	85	112	207	167	130	98	184	5,470		328	232	380
21	88	326	174	136	122	102	738	6,170	3,270	320	223	370
22	88	617	170	274	122	102	504	3,000		324	219	338
23	88	215	228	389	116	98	194	822		320	215	320
24	88	119	249	271	112	98	140	698		523	215	504
25	85	108	240	159	108	98	145	691		638	211	4,450
26	85	108	232	122	102	95	442	513	704	787	198	1,630
27	85	102	1,140	119	102	102	630	440	658	684	198	1,280
28	85	102	2,700	116	98	122	399	493	626	558	198	1,440
29	85	122	2,780	108	-	95	1,070	987	595	399	198	1,580
30	88	105	744	108	-	133	1,000	2,530	564	361	194	1,280
31	88	-	375	108	-	167	-	3,920	-	497	190	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,619	459	81	117	7,180
November	5,659	569	85	189	11,220
December	11,678	2,780	102	377	23,160
Calendar year 1934	73,875	2,780	68	202	146,500
January	5,016	389	108	162	9,950
February	5,811	801	98	208	11,530
March	4,836	488	95	156	9,590
April	9,217	1,070	95	307	18,280
May	53,023	6,170	253	1,710	105,200
June	99,635	13,800	435	3,321	197,600
July	13,613	787	320	439	27,000
August	7,890	370	190	255	15,650
September	23,422	4,450	186	781	46,460
Water year 1934-35	243,419	13,800	81	667	482,800

Cibolo Creek near Falls City, Tex.

Location.- Water-stage recorder, lat. 29°1', long. 97°56', 200 feet downstream from Cestohowa Bridge, 6 miles above confluence with San Antonio River, and 6 miles northeast of Falls City, Karnes County.

Drainage area.- 831 square miles.

Records available.- November 1930 to September 1935.

Extremes.- Maximum discharge during year, about 28,600 second-feet June 14 (gage height, 33.0 feet, from flood marks); minimum, 9.2 second-feet Dec. 3-5, 13-16.
1930-35: Maximum discharge, that of June 14, 1935; minimum, 6.8 second-feet Oct. 31, Nov. 1, 1931, May 24, 1933.

Remarks.- Records good except those partly estimated from fragmentary gage-height record for Nov. 15, May 3, 10, 20, June 12, which are fair, and those estimated from fragmentary gage-height record and on basis of records for San Antonio River near Falls City May 5, 6, 11, 19, June 13, 14, 16, 17, July 14 to Aug. 30, which are poor. No large diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	13	11	26	14	18	25	169	388	62		18
2	40	556	9.5	20	14	16	20	76	193	59		18
3	24	273	9.2	19	14	17	72	2,060	104	58		17
4	16	13	9.2	19	14	17	25	366	78	56		19
5	14	11	9.2	16	14	26	22	5,660	93	55		107
6	13	10	120	18	14	104	40	446	390	54		327
7	13	10	72	17	31	99	59	282	150	54		920
8	12	10	16	16	32	44	39	111	80	63		343
9	12	10	13	15	18	27	27	75	73	52		267
10	12	10	11	15	314	20	22	2,080	323	50		232
11	12	11	10	15	691	18	18	3,460	270	50		177
12	12	11	9.8	15	601	17	15	202	1,120	50		72
13	12	11	9.2	15	1,020	16	15	96	11,000	50		46
14	12	11	9.2	15	286	16	14	66	18,100			36
15	12	2,270	9.2	15	83	15	14	53	1,980		36	31
16	12	112	9.2	15	47	15	14	234	3,140			28
17	13	34	26	15	32	15	14	854	3,290			27
18	13	17	45	15	25	15	14	838	960	42		27
19	13	12	15	15	21	15	54	7,220	608			25
20	13	11	11	112	20	15	1,550	2,250	465			25
21	13	471	11	163	20	16	248	1,120	339			25
22	13	390	11	62	20	16	78	391	248			24
23	13	52	11	27	20	16	48	274	188			25
24	13	22	11	18	19	16	34	448	154			39
25	13	15	11	15	19	16	27	123	128			2,390
26	13	13	11	15	19	17	310	83	110	300		1,540
27	13	12	2,160	14	19	17	98	68	93			690
28	13	10	1,860	14	19	16	50	220	81			277
29	13	132	152	14	-	18	1,670	494	73	57		98
30	13	21	62	14	-	36	1,350	772	66			70
31	13	-	39	14	-	44	-	399	-		18	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	458	40	12	14.8	908
November	4,554	2,270	10	152	9,030
December	4,772.7	2,160	9.2	154	9,470
Calendar year 1934	33,349.1	3,170	7.0	91.4	66,130
January	800	163	14	25.8	1,590
February	3,460	1,020	14	124	6,860
March	775	104	15	25.0	1,540
April	5,986	1,670	14	200	11,870
May	31,010	7,220	53	1,000	61,510
June	44,285	18,100	66	1,476	87,840
July	2,293	-	-	74.0	4,550
August	1,098	-	-	35.4	2,180
September	7,940	2,390	17	265	15,750
Water year 1934-35	107,431.7	18,100	9.2	294	213,100

Nueces River at Laguna, Tex.

Location.- Water-stage recorder, lat. 29°26', long. 100°, 1 mile northeast of Laguna, Uvalde County.

Drainage area.- 764 square miles.

Records available.- October 1923 to September 1935.

Average discharge.- 12 years, 163 second-feet.

Extremes.- Maximum discharge during year, 213,000 second-feet, by slope-area method, June 14 (gage height, 26.0 feet, from flood marks); minimum, 7.8 second-feet Nov. 3-15, 18.

1923-35: Maximum discharge, that of June 14, 1935; minimum, that of Nov. 3-15, 18, 1934.

Revised maximum discharge, by slope-area method, for June 15, 1930, about 87,200 second-feet (gage height, 20.1 feet), for Sept. 1, 1932, about 67,400 second-feet (gage height, 18.9 feet), supersedes discharge values previously published.

The floods of June 1913 and Sept. 21, 1923, reached a stage of 26.5 feet (discharge, by slope-area method, 226,000 second-feet, revised). Flood of 1903 reached a slightly higher stage.

Remarks.- Records good below 3,000 second-feet, poor above. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.3	8.2	8.9	12	16	20	22	32	885	677	316	163
2	8.9	8.2	8.9	12	16	20	22	58	711	567	303	161
3	8.9	7.8	8.9	12	17	21	22	89	1,300	501	299	158
4	8.9	7.8	9.3	12	17	21	22	746	622	469	296	161
5	8.9	7.8	9.6	12	17	21	24	190	1,780	438	287	168
6	8.9	7.8	9.6	12	18	21	22	116	1,240	417	280	193
7	8.5	7.8	9.6	12	19	21	22	89	732	397	271	584
8	8.5	7.8	9.6	12	18	21	21	73	589	377	265	619
9	8.5	7.8	10	12	19	22	21	71	495	362	256	1,230
10	8.5	7.8	10	12	19	22	21	64	444	348	250	1,910
11	8.2	7.8	10	12	19	22	21	58	459	334	241	748
12	8.2	7.8	10	13	19	22	21	54	1,060	323	235	505
13	8.2	7.8	10	13	19	22	21	51	12,600	320	227	409
14	8.2	7.8	10	13	19	22	20	51	107,000	312	244	359
15	8.2	7.8	10	14	19	22	20	50	12,100	303	238	323
16	8.2	8.2	10	14	19	22	20	53	3,780	303	224	299
17	8.9	8.2	10	14	19	22	21	1,830	2,600	303	212	277
18	8.9	7.8	10	14	19	22	21	7,910	2,030	293	204	262
19	8.9	8.2	11	14	19	22	22	2,230	1,700	296	201	253
20	8.9	8.2	11	14	19	22	22	980	1,520	287	196	238
21	8.9	8.5	11	15	19	22	21	662	1,300	277	198	230
22	8.9	8.5	11	15	20	23	21	523	1,170	271	193	238
23	8.5	8.9	11	15	20	23	22	942	1,090	271	187	244
24	8.5	8.9	11	15	20	23	23	572	932	449	182	247
25	8.5	8.9	11	16	20	22	33	463	828	510	185	241
26	8.5	8.9	11	16	20	22	32	398	759	548	182	232
27	8.2	8.9	14	15	20	22	32	356	695	570	174	287
28	8.2	9.3	12	16	20	22	33	2,950	643	542	166	283
29	8.2	9.3	12	16	-	22	33	2,420	595	401	161	253
30	8.2	9.3	12	16	-	22	32	1,600	562	355	158	232
31	8.2	-	12	16	-	22	-	1,220	-	334	156	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	265.4	9.3	8.2	8.56	526
November	247.8	9.3	7.8	8.26	492
December	324.4	14	8.9	10.5	643
Calendar year 1934	9,040.9	-	7.8	24.8	17,920
January	426	16	12	13.7	845
February	525	20	16	18.8	1,040
March	675	23	20	21.8	1,340
April	710	33	20	23.7	1,410
May	26,901	7,910	32	868	53,360
June	162,224	107,000	444	5,407	321,800
July	12,155	677	271	392	24,110
August	6,989	316	156	225	13,860
September	11,507	1,910	158	384	22,820
Water year 1934-35	222,949.6	107,000	7.8	611	442,200

Nueces River near Uvalde, Tex.

Location.- Staff gage, lat. 29°11', long. 99°54', at Tom Nunn crossing, 4½ miles below Texas & New Orleans (Galveston, Harrisburg & San Antonio) Railroad bridge and 7 miles west by south of Uvalde, Uvalde County. Prior to June 14, 1935, water-stage recorder at same site and datum.

Drainage area.- 1,930 square miles, a large part of which is noncontributing at low stages owing to water entering fault a few miles above gage.

Records available.- October 1927 to September 1935.

Extremes.- Maximum discharge during year, 616,000 second-feet, by slope-area method, June 14 (gage height, 36.9 feet, from flood marks); minimum, 2.3 second-feet Apr. 26 (gage height, 0.56 foot).
1927-35: Maximum discharge, that of June 14, 1935; minimum not determined but probably less than 0.3 second-foot.

Remarks.- Records good except those for June 11-25 and Sept. 10, 11, which are poor and were estimated from fragmentary gage-height record. No diversions for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.9	4.9	3.8	3.8	3.4	3.0	3.0	3.0	2,100	538	262	73
2	4.9	4.2	4.2	3.8	3.4	3.0	3.0	3.0	932	505	244	73
3	4.2	4.2	3.8	3.8	3.4	3.4	3.4	3.0	1,420	417	235	73
4	4.2	4.2	3.8	3.8	3.8	3.0	3.0	3.0	862	389	231	73
5	4.9	4.2	3.8	3.8	3.8	3.0	42	3.0	990	362	226	80
6	4.9	4.2	3.8	3.8	3.8	3.0	3.4	3.0	1,620	362	222	91
7	4.9	4.2	3.8	3.8	3.8	3.0	3.4	3.0	757	362	209	179
8	4.9	4.2	3.8	3.8	3.4	3.0	3.4	3.0	566	336	200	570
9	4.9	4.2	3.8	3.8	3.4	3.4	3.4	3.0	498	331	192	538
10	4.9	4.2	3.8	3.8	3.8	3.4	3.4	3.0	434	307	187	3,180
11	6.0	4.9	3.8	3.8	3.4	3.0	3.4	3.0	412	288	179	1,740
12	6.0	4.2	3.8	3.8	3.0	3.0	3.4	3.0	395	275	171	830
13	6.0	4.2	3.8	3.8	3.4	3.0	3.4	3.0	1,760	270	166	505
14	6.0	4.2	3.8	3.8	3.4	3.0	3.0	3.0	147,000	262	158	389
15	6.0	4.9	3.8	3.8	3.0	3.4	3.0	3.0	45,000	257	162	336
16	7.2	4.2	3.8	3.4	3.0	3.4	3.0	4.2	19,000	253	158	298
17	7.2	4.2	3.8	3.4	3.0	3.0	3.0	617	12,200	266	150	279
18	4.9	4.2	3.8	3.4	3.0	3.4	3.0	8,330	7,820	253	142	262
19	4.9	3.9	3.8	3.4	3.4	3.4	3.0	5,900	4,980	262	134	244
20	4.2	3.8	3.8	3.4	3.4	3.4	2.6	1,570	3,020	253	126	226
21	4.2	3.8	3.8	3.4	3.4	3.4	2.6	535	2,120	244	122	218
22	4.2	4.2	3.8	3.4	3.4	3.8	2.6	353	1,630	235	118	200
23	4.9	4.2	3.8	3.4	3.4	3.4	2.6	982	1,280	226	114	209
24	4.9	4.2	3.8	3.4	3.4	3.4	2.6	439	990	326	110	226
25	4.9	3.8	3.8	3.4	3.4	3.0	2.6	282	790	389	110	218
26	4.9	3.8	3.8	3.4	3.4	3.0	2.6	218	678	417	103	209
27	4.9	3.8	11	3.4	3.0	3.0	2.6	176	605	389	95	200
28	4.9	3.8	4.2	3.4	3.0	3.0	3.0	1,950	570	505	88	192
29	4.9	4.2	4.2	3.4	-	3.4	3.0	2,250	505	362	80	218
30	4.9	3.8	3.8	3.4	-	3.8	3.0	1,880	505	317	73	209
31	4.9	-	3.8	3.4	-	3.0	-	12,400	-	288	73	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	158.5	7.2	4.2	5.11	314
November	124.9	4.9	3.8	4.16	248
December	126.2	11	3.8	4.07	250
Calendar year 1934	2,394.3	14	3.8	6.56	4,750
January	111.4	3.8	3.4	3.59	221
February	94.4	3.8	3.0	3.37	187
March	99.4	3.8	3.0	3.21	197
April	129.4	42	2.6	4.31	257
May	37,931.2	12,400	3.0	1,224	75,240
June	261,419	147,000	395	8,714	518,500
July	10,246	538	226	331	20,320
August	4,840	262	73	156	9,600
September	12,138	3,180	73	405	24,080
Water year 1934-35	327,418.4	147,000	2.6	897	649,400

Nueces River at Cotulla, Tex.

Location.- Water-stage recorder, lat. 28°26', long. 99°16', at Cotulla-Laredo highway bridge in Cotulla, La Salle County, a third of a mile above International-Great Northern Railroad bridge. Zero of gage is 368.08 feet above mean sea level (revised by general adjustment of 1929). Prior to Nov. 19, 1934, staff gage 5,000 feet downstream with datum 8.42 feet higher.

Drainage area.- 5,260 square miles, a large part of which is noncontributing at low stages, owing to water entering a fault near Uvalde.

Records available.- October 1923 to September 1935; July 1915 to June 1918 at site near Cotulla, 4 miles upstream.

Average discharge.- 12 years (1923-35), 373 second-feet.

Extremes.- Maximum discharge during year, 82,600 second-feet, by slope-area method, June 18 (gage height, 32.4 feet, from flood marks); no flow at times.
1923-35: Maximum discharge, that of June 18, 1935; no flow at times.

Remarks.- Records between 1,000 and 40,000 second-feet good, others fair. Gage heights June 15-20 from graph based on frequent gage readings. Most of low-water flow is diverted by pumping above station. Low-water flow partly regulated by small storage reservoirs above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	315	0	15	177	0	0	6.0	127	994	880	5,490	73
2	148	0	12	103	0	0	6.5	124	1,600	771	2,590	69
3	338	0	10	71	0	0	89	110	2,270	702	1,050	66
4	338	0	8.0	79	0	0	68	88	4,290	652	486	272
5	315	0	6.0	96	0	0	38	292	6,480	630	391	330
6	178	0	5.5	74	0	0	24	71	5,600	625	352	590
7	69	0	6.0	55	0	0	14	42	3,770	585	325	556
8	19	0	5.0	39	0	0	26	94	3,300	532	311	749
9	9.0	0	3.7	28	0	0	448	258	3,420	500	239	3,230
10	3.6	0	2.8	21	0	0	1,030	709	3,890	479	262	4,960
11	1.2	0	2.2	17	0	0	1,380	519	4,480	458	242	4,010
12	.6	0	1.3	13	.1	0	877	230	4,480	434	225	3,420
13	.2	0	.8	10	4.0	0	206	145	4,010	421	206	3,890
14	.2	0	.7	8.0	2.8	0	114	101	3,180	415	198	4,720
15	.2	229	.6	5.5	.9	0	74	68	3,300	424	193	5,080
16	.2	1,330	.6	4.0	.5	0	49	40	4,480	415	262	4,240
17	.2	642	.6	3.4	.1	0	30	25	32,200	394	297	2,470
18	.1	1,280	.7	2.2	.1	0	20	18	79,000	385	220	1,300
19	.1	1,600	.5	1.6	.1	0	16	11	57,600	388	170	626
20	.1	663	.4	1.3	.3	0	12	48	35,300	364	146	430
21	.1	320	.1	.7	.4	0	6.5	763	21,500	352	141	367
22	.1	220	.1	.4	.3	0	3.4	1,890	12,600	352	127	328
23	.1	154	.1	.1	.1	0	32	6,620	7,550	349	119	315
24	.1	110	.1	0	.1	0	300	12,900	4,740	358	112	535
25	.1	82	.1	0	.1	0	450	14,000	2,890	379	106	1,090
26	.1	65	0	0	0	0	717	11,100	2,120	591	100	1,190
27	.1	53	18	0	0	0	804	7,840	1,700	1,980	95	1,660
28	.1	38	72	0	0	0	552	3,710	1,390	5,840	95	1,300
29	.1	28	446	0	-	75	256	2,180	1,170	10,900	88	840
30	.1	20	905	0	-	249	151	1,260	1,010	11,800	79	489
31	.1	-	510	0	-	26	-	635	-	8,720	75	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,736.8	338	0.1	56.0	3,440
November	6,834	1,600	0	228	13,560
December	2,033.9	905	0	65.6	4,030
Calendar year 1934	30,050.8	1,980	0	82.3	59,590
January	810.2	177	0	26.1	1,610
February	9.9	4.0	0	.33	20
March	350	249	0	11.3	694
April	7,801.4	1,380	3.4	260	15,470
May	66,018	14,000	11	2,130	130,900
June	320,314	79,000	994	10,680	635,300
July	52,055	11,800	349	1,679	103,200
August	14,842	5,490	75	479	29,440
September	49,195	5,080	66	1,640	97,580
Water year 1934-35	522,000.2	79,000	0	1,430	1,035,000

Nueces River near Three Rivers, Tex.

Location.- Water-stage recorder, lat. 28°26'10", long. 98°11'10", 100 feet below San Antonio, Uvalde & Gulf Railroad bridge, half a mile below Frio River, and 2 miles southeast of Three Rivers, Live Oak County. Zero of gage is 101.08 feet above mean sea level.

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 1935.

Average discharge.- 18 years (1915-18, 1920-35), 788 second-feet.

Extremes.- Maximum discharge during year, 68,700 second-feet June 15 (gage height, 44.67 feet); minimum, 0.6 second-foot Nov. 1, 2 (gage height, 1.14 feet).
1915-35: Maximum discharge, about 85,000 second-feet Sept. 18, 1919 (gage height, 46.0 feet); no flow at times.

Remarks.- Records good. Discharge partly estimated Aug. 24-31. About 10,000 acres irrigated above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,080	0.6	105	324	14	32	3,650	1,660	9,840	6,790	10,100	180
2	2,430	83	68	325	13	30	2,740	922	15,400	5,300	6,910	168
3	1,420	1,020	50	494	13	24	2,480	1,280	18,000	4,280	3,540	150
4	724	514	41	666	12	22	2,190	4,620	17,400	3,610	3,160	362
5	700	168	37	636	12	20	1,720	6,970	16,300	3,130	3,920	1,180
6	827	36	47	270	12	19	1,920	7,700	19,500	2,760	6,270	9,990
7	531	16	1,610	148	58	17	2,150	8,050	25,400	2,320	7,120	10,900
8	405	7.2	1,060	110	60	15	1,200	5,870	22,600	1,830	6,360	8,680
9	329	4.1	272	98	75	15	351	3,140	16,400	1,500	5,300	5,460
10	262	2.6	116	102	66	19	324	2,240	12,100	1,340	4,310	6,180
11	182	1.9	68	92	1,060	16	361	4,800	11,200	1,240	3,470	5,780
12	112	1.4	46	78	1,830	13	276	6,060	13,200	1,150	1,800	3,770
13	68	1.1	36	64	2,920	11	243	4,140	22,600	1,050	959	3,470
14	47	1.0	30	54	3,080	10	460	1,340	51,900	996	827	3,880
15	33	1,410	26	47	1,260	9.9	610	1,320	63,400	874	735	4,560
16	24	4,310	22	41	758	9.6	712	1,210	44,400	804	666	4,670
17	16	5,830	22	37	620	8.6	804	626	23,800	758	643	3,630
18	12	4,300	75	35	394	8.3	594	447	16,500	735	574	2,880
19	9.0	2,840	140	32	223	8.0	184	436	16,400	712	551	3,040
20	6.4	4,680	69	28	154	7.7	108	952	22,400	735	540	3,380
21	4.6	5,910	38	26	108	7.7	152	1,950	26,500	898	562	3,530
22	3.6	5,660	29	48	75	7.4	112	1,520	34,000	700	574	3,690
23	2.9	4,430	24	32	57	7.2	66	1,590	53,500	597	505	3,940
24	2.2	3,110	20	22	47	6.7	46	3,020	51,000	574	438	4,520
25	1.7	2,410	17	19	39	6.4	284	5,190	40,000	712	372	9,150
26	1.3	1,970	16	18	37	6.0	2,940	6,640	30,900	804	318	14,800
27	1.1	1,280	186	17	37	6.7	3,400	7,050	23,300	1,290	273	14,000
28	1.0	308	1,710	16	36	1,480	2,560	4,060	17,500	1,640	267	8,870
29	.8	181	2,050	15	-	1,620	753	2,800	12,400	2,320	246	5,060
30	.7	160	812	14	-	1,670	1,090	3,900	9,040	5,010	217	3,750
31	.7	-	222	14	-	2,950	-	5,150	-	8,300	188	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,258.0	2,430	0.7	331	20,350
November	50,645.9	5,910	.6	1,688	100,500
December	9,266	2,050	16	299	18,380
Calendar year 1934	195,194.8	5,910	0	535	387,200
January	3,922	666	14	127	7,780
February	13,070	3,080	12	467	25,920
March	8,083.2	2,950	6.0	261	16,030
April	34,480	3,650	46	1,149	68,390
May	106,855	8,050	438	3,447	211,900
June	756,880	63,400	9,040	25,230	1,501,000
July	64,759	8,300	574	2,089	128,400
August	71,715	10,100	188	2,313	142,200
September	154,450	14,800	150	5,148	306,300
Water year 1934-35	1,284,384.1	63,400	.6	3,519	2,547,000

Nueces River at Calallen, Tex.

Location.- Staff gage, lat. 27°52'40", long. 97°37'35", at old pump house for City of Corpus Christi, half a mile northwest of Calallen, Nueces County, and half a mile above tidewater and breakwater dam.

Drainage area.- 16,920 square miles.

Records available.- August 1915 to September 1935; records of discharge only from 1915 to 1918.

Extremes.- Maximum gage height observed during year, 12.40 feet June 19 and 27; minimum, 2.10 feet Oct. 31.
1915-35: Maximum gage height observed, that of June 19 and 27, 1935; during period of discharge record there was no flow Aug. 23-29, 1918.

Remarks.- Discharge not computed. Gage-height record furnished by the City of Corpus Christi.

Gage height, in feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.82	3.58	3.88	5.12	3.55	3.32	8.08	5.58	7.35	10.42	6.32	3.75
2	4.25	3.28	3.55	5.08	3.58	3.35	8.98	5.58	7.72	9.80	6.72	3.72
3	5.25	3.15	3.40	4.90	3.50	3.32	8.42	5.35	8.05	9.32	6.90	3.75
4	5.50	3.18	3.38	5.00	3.55	3.30	7.32	4.90	8.42	9.05	6.90	3.72
5	5.02	3.08	3.35	4.78	3.52	3.25	6.50	5.82	8.78	8.78	7.02	3.70
6	4.35	4.30	3.28	4.28	3.50	3.42	6.08	6.55	9.12	8.28	7.02	4.40
7	4.25	4.12	3.22	4.25	3.28	3.32	5.32	7.08	9.68	7.50	6.98	5.35
8	4.20	3.85	3.25	3.80	3.48	3.20	5.00	7.50	9.65	7.20	7.05	5.60
9	4.02	3.30	3.25	4.28	3.50	3.50	4.85	7.85	9.95	6.18	7.18	6.72
10	4.00	3.38	3.95	3.82	3.50	3.50	4.48	8.20	10.35	6.15	7.60	7.70
11	3.90	3.95	3.78	3.58	3.50	3.50	3.92	7.98	10.70	5.02	7.92	8.38
12	4.05	3.28	3.32	3.60	3.50	3.42	3.65	7.40	10.60	4.90	8.02	8.65
13	3.70	2.98	3.28	3.60	4.42	3.35	3.60	7.28	10.25	5.12	7.68	8.60
14	3.92	3.02	3.25	3.60	5.00	3.45	3.60	7.65	9.90	5.70	7.15	8.38
15	3.72	3.78	3.25	3.60	5.48	3.45	3.80	7.80	10.18	5.60	6.62	7.80
16	3.52	4.70	3.30	3.60	5.45	3.35	3.80	6.90	10.65	4.58	6.38	7.35
17	3.38	5.15	3.20	3.55	4.68	3.40	4.00	5.12	11.12	4.50	5.88	7.30
18	3.38	5.82	3.22	3.55	3.85	3.48	4.28	4.85	11.68	4.70	5.72	7.48
19	3.32	6.28	3.20	3.55	3.45	3.42	4.55	4.38	12.38	4.20	5.50	7.40
20	3.28	6.60	3.15	3.52	3.50	3.12	4.48	3.98	11.95	4.30	4.38	6.90
21	3.35	6.48	3.18	3.55	3.50	3.40	4.25	5.32	11.08	4.22	4.32	6.52
22	3.18	6.62	3.22	3.50	3.50	3.62	4.25	5.72	10.42	4.42	4.32	6.58
23	3.40	7.05	3.35	3.50	3.50	3.50	4.08	6.32	10.32	4.32	4.22	6.78
24	3.42	7.28	3.25	3.52	3.50	3.62	3.75	6.20	10.55	4.42	3.98	6.98
25	3.38	7.35	3.35	3.55	3.50	3.65	3.72	5.80	11.20	4.52	4.08	7.25
26	3.25	7.08	3.22	3.50	3.50	3.45	3.78	5.95	11.90	5.45	4.08	8.35
27	3.12	6.45	3.35	3.55	3.50	3.08	4.92	6.85	12.37	5.52	3.90	9.38
28	3.05	5.72	3.38	3.55	3.45	2.95	5.75	7.30	12.28	4.80	4.05	10.18
29	2.87	5.28	3.60	3.55	-	4.42	6.40	7.58	11.80	4.55	4.00	9.78
30	2.60	4.85	4.98	3.55	-	5.68	6.52	7.60	11.10	5.85	3.78	9.82
31	2.28	-	5.18	3.55	-	6.62	-	7.38	-	5.98	3.85	-

Frio River at Concan, Tex.

Location.- Water-stage recorder, lat. 29°29', long. 99°42', half a mile below Concan post office, Uvalde County.

Drainage area.- 485 square miles.

Records available.- October 1923 to September 1935.

Average discharge.- 10 years (1924-29, 1930-35), 126 second-feet.

Extremes.- Maximum discharge during year, about 86,900 second-feet June 14 (gage height, 29.4 feet, from flood marks); minimum, 8.9 second-feet Nov. 2.
1923-35: Maximum discharge, 162,000 second-feet, by slope-area method, July 1, 1932 (gage height, 34.44 feet, from flood marks); minimum, 8.1 second-feet Aug. 2, 3, 1928.

Remarks.- Records good except those estimated or partly estimated from fragmentary gage-height records and those above 500 second-feet, which are poor. No diversions above gage.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.7	9.7	16	24	24	27	23	29	824	460	402	147
2	9.7	8.9	17	24	24	27	23	37	622		382	144
3	9.7	9.7	17	24	27	27	23	41	596		356	474
4	9.7	9.7	17	24	27	27	23	356	480		336	272
5	9.7	9.7	17	24	27	27	68	120	707		324	213
6	9.7	9.7	17	24	26	26	32	100	499		301	213
7	9.7	9.7	18	24	43	24	24	84	421	**346	295	338
8	9.7	11	18	24	36	24	23	69	395		284	1,990
9	9.7	11	19	24	32	24	23	64	362		272	1,530
10	9.7	11	19	24	32	26	23	72	336		263	811
11	9.7	11	18	24	32	27	22	61	473		253	538
12	9.7	11	18	24	32	24	22	55	668		244	447
13	9.7	11	18	24	32	24	22	55	*7,690		239	402
14	9.7	11	19	24	32	24	22	55	*22,700	*258	239	362
15	9.7	14	19	24	30	24	22	55	2,770	248	234	336
16	9.7	14	19	24	29	24	22	61	1,760	239	230	313
17	11	13	20	24	29	24	22	1,960	1,440	239	221	289
18	13	13	22	26	29	24	22	4,220	1,240	234	213	272
19	13	13	20	29	29	24	65	733	1,080	244	209	263
20	12	13	20	27	29	24	58	388	*948	239	200	253
21	12	13	20	24	29	24	34	278	**876	221	196	248
22	12	13	20	24	29	24	29	217	**804	217	192	278
23	11	13	20	24	29	24	29	1,460	*733	217	184	284
24	11	13	20	24	29	24	27	440	694	3,050	184	295
25	11	13	20	24	27	24	90	295	648	1,180	192	289
26	11	14	20	24	27	24	48	230	616	698	180	295
27	11	14	29	24	27	24	34	209	570	636	173	263
28	11	16	27	24	27	23	30	3,740	544	532	169	239
29	11	17	26	24	-	23	30	1,570	512	629	158	**225
30	11	17	24	24	-	23	29	863	486	480	158	**209
31	11	-	24	24	-	23	-	2,380	-	434	154	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	327.2	13	9.7	10.6	649
November	367.1	17	8.9	12.2	728
December	618	29	16	19.9	1,230
Calendar year 1934	10,940.5	378	8.9	30.0	21,690
January	754	29	24	24.3	1,500
February	816	43	24	29.1	1,620
March	762	27	23	24.6	1,510
April	957	90	22	32.2	1,920
May	20,297	4,220	29	655	40,260
June	52,494	22,700	336	1,750	104,100
July	14,597	3,050	217	471	28,950
August	7,437	402	154	240	14,750
September	12,232	1,990	144	408	24,260
Water year 1934-35	111,668.3	22,700	8.9	306	221,500

*Partly estimated. **Estimated.

Frio River near Derby, Tex.

Location.- Water-stage recorder, lat. 28°44', long. 99°9', at International-Great Northern Railroad bridge 900 feet below mouth of Leona River and 4 miles south of Derby, Frio County. Zero of gage is 449.3 feet above mean sea level.

Drainage area.- 3,493 square miles, a large part of which is noncontributing at low stages owing to water entering fault a few miles below Concan.

Records available.- August 1915 to September 1935.

Average discharge.- 20 years, 197 second-feet.

Extremes.- Maximum discharge during year, 68,300 second-feet June 2 (gage height, 23.68 feet, from flood marks); no flow at times.
1915-35: Maximum discharge, 230,000 second-feet, by slope-area method, July 4, 1932 (gage height, 29.45 feet, from flood marks); no flow at times.

Remarks.- Records good below and fair above 3,000 second-feet, except those for July 4-15, which are fair and were estimated. Gage heights for June 1-4, 14-19, from graph based on numerous gage readings. Diversions for irrigation above station.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Nov. 19 to Dec. 23)

0.1	0.1	.9	93	3.0	830	8.5	4,600	16.0	29,900
.2	1.3	1.0	113	4.0	1,350	9.0	5,570	17.0	33,600
.3	7.1	1.2	156	5.0	1,820	9.5	7,010	18.0	37,400
.4	16	1.4	203	6.0	2,270	10.0	8,600	19.0	41,300
.5	26	1.6	252	6.5	2,550	11.0	11,900	20.0	45,400
.6	40	1.8	308	7.0	2,900	12.0	15,500	21.0	50,000
.7	56	2.0	378	7.5	3,340	13.0	19,100	22.0	55,200
.8	74	2.5	595	8.0	3,900	14.0	22,700		

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	138	0	0.2	7.1	0.3	0	1.7	1.3	16,700	550	693	21
2	280	0	.2	3.2	.6	.1	1.0	1.3	55,400	489	541	18
3	48	0	.2	1.3	1.0	.3	.4	1.3	17,500	437	442	17
4	14	0	.2	.6	.6	.3	.6	1.3	5,640	378	374	17
5	5.7	0	0	.4	.3	.6	1.7	1.7	3,020	355	324	38
6	2.2	0	0	.4	.6	.6	244	.6	2,290	333	294	155
7	.6	0	.2	.4	1.7	.3	272	.4	2,700	310	263	323
8	.3	0	.2	.6	1.3	.1	220	.3	1,600	287	232	962
9	.3	0	.3	.4	20	.2	103	.3	922	264	205	1,350
10	.1	0	.1	.6	15	.6	26	.3	528	242	182	2,590
11	0	0	0	.6	6.4	.4	9.5	427	412	219	163	3,550
12	0	0	0	1.0	3.2	.3	3.8	613	937	196	146	1,740
13	0	0	0	1.0	9.5	.4	1.3	94	2,280	173	126	672
14	0	0	0	1.0	17	1.3	1.0	28	9,960	151	113	408
15	0	0	0	.3	8.7	1.7	.6	9.5	26,800	128	113	294
16	0	448	0	.2	3.2	1.3	.6	3.8	45,600	113	101	237
17	0	137	.1	.6	1.3	.3	.6	253	24,100	91	93	196
18	0	21	.3	1.3	1.3	.3	.6	556	6,980	77	81	159
19	0	3.2	.3	1.3	1.3	.2	1.3	3,480	3,850	72	72	134
20	0	1.0	.3	1.3	1.3	0	1.3	14,600	2,920	68	64	113
21	0	.3	.3	.4	1.3	0	.4	14,500	2,280	74	56	95
22	0	.1	.4	.4	1.3	0	.4	4,670	1,910	62	51	81
23	0	0	.4	.6	1.3	.2	.4	1,010	1,590	56	48	87
24	0	0	.3	.3	1.7	.3	.6	1,000	1,250	253	41	207
25	0	0	.3	.2	.4	.3	1.0	2,260	1,010	2,680	40	1,000
26	0	0	.3	.6	.1	.4	1.3	844	882	29,800	34	1,580
27	0	0	2.7	1.3	.1	.4	1.3	361	806	11,900	32	1,240
28	0	.1	301	.6	0	28	1.3	155	733	2,480	28	712
29	0	.1	175	.2	-	8.5	1.3	3,360	663	1,110	26	412
30	0	.1	38	.1	-	5.7	.4	15,900	595	1,600	26	305
31	0	-	16	.1	-	7.1	-	7,780	-	1,470	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	489.2	280	0	15.8	970
November	610.9	448	0	20.4	1,210
December	537.3	301	0	17.3	1,070
Calendar year 1934	5,466.3	572	0	15.0	10,850
January	28.4	7.1	.1	.92	56
February	100.8	20	0	3.60	200
March	60.2	28	0	1.94	119
April	899.4	272	.4	30.0	1,780
May	71,913.1	15,900	.3	2,320	142,600
June	242,058	55,400	412	8,069	480,100
July	56,418	29,800	56	1,820	111,900
August	5,029	693	23	162	9,970
September	18,713	3,550	17	624	37,120
Water year 1934-35	396,857.3	55,400	0	1,087	787,100

Frio River at Calliham, Tex.

Location.- Water-stage recorder 28°29'30", long. 98°20'45", at Calliham-Whitsett highway bridge 1 mile north of Calliham, McMullen County, and 9.7 miles (correction) below mouth of San Miguel Creek. Zero of gage is 153.47 feet above mean sea level.

Drainage area.- 5,491 (revised) square miles, a large part of which is noncontributing at low stages, owing to water entering a fault below Concan.

Records available.- October 1924 to April 1926; April 1932 to September 1935.

Extremes.- Maximum discharge during year, 28,600 second-feet June 6 (gage height, 33.42 feet, from graph based on gage readings); no flow Oct. 31, Nov. 1.
1924-26, 1932-35: Maximum discharge, 109,000 second-feet, by slope-area method, July 6, 1932 (gage height, 39.20 feet); no flow at times.

Remarks.- Records good except those above 10,000 second-feet, which are poor. Gage heights June 5-25 from graph based on numerous gage readings. Diversions for irrigation above station.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

2.37	0	3.2	40	7.0	1,060	22.0	5,610
2.5	.9	3.4	71	10.0	1,820	24.0	6,900
2.6	2.2	3.6	111	12.0	2,340	26.0	9,300
2.7	4.5	3.8	161	14.0	2,870	28.0	12,500
2.8	7.8	4.0	230	16.0	3,480	30.0	17,000
2.9	12.5	4.5	424	18.0	4,120	32.0	23,500
3.0	19.5	5.0	560	20.0	4,810	34.0	31,000

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,610	0	9.7	320	3.1	5.8	372	28	4,590	935	4,660	55
2	1,140	2.4	7.8	134	2.9	4.5	140	50	5,180	810	1,880	54
3	502	8.0	6.5	69	2.9	4.3	103	910	8,650	710	1,740	50
4	94	.8	5.5	43	2.7	4.0	61	2,600	10,900	660	1,440	52
5	212	.6	4.8	30	2.4	3.8	48	2,190	18,100	585	835	5,390
6	140	.3	33	22	2.7	3.4	312	5,020	27,100	522	572	4,090
7	65	.2	742	17	6.5	2.7	324	2,840	19,000	469	484	2,660
8	36	.1	393	13	3.4	2.7	178	1,920	10,600	439	439	1,440
9	22	.1	100	10	28	2.7	73	1,220	5,500	399	399	1,670
10	15	.2	46	8.7	31	2.7	299	1,220	3,640	365	362	3,240
11	10	.5	28	7.1	677	2.7	249	3,890	5,110	331	324	1,740
12	6.8	.5	17	6.5	569	2.4	178	1,900	4,930	295	282	1,590
13	5.2	.5	11	5.8	1,870	2.2	91	569	14,500	268	244	1,690
14	3.8	.8	7.8	4.8	910	2.1	50	297	17,600	240	210	2,180
15	2.9	835	6.5	4.5	520	1.8	33	585	10,500	203	185	2,630
16	2.2	3,620	5.2	4.5	186	1.8	23	342	7,410	176	164	1,980
17	1.9	4,040	5.2	4.0	89	1.7	17	128	5,120	164	148	794
18	1.7	1,210	5.2	3.8	52	1.7	12	156	9,120	156	143	416
19	1.6	635	26	3.8	38	1.7	10	231	20,500	167	133	351
20	1.2	451	18	3.8	29	1.6	51	1,060	25,600	259	125	264
21	1.2	459	11	3.6	21	1.6	48	1,780	17,900	203	113	207
22	.9	365	8.3	2.9	17	1.7	30	960	9,200	128	107	170
23	.7	224	6.5	2.7	12	1.6	12	2,180	4,400	113	98	156
24	.7	96	4.8	2.7	11	1.6	9.2	4,400	3,030	123	92	319
25	.6	55	4.3	2.7	10	1.6	299	7,620	2,310	113	86	2,490
26	.4	37	3.6	2.7	6.8	1.6	594	8,020	1,920	383	79	1,920
27	.3	26	39	2.7	5.8	60	846	3,280	1,640	860	73	910
28	.3	19	649	2.4	5.5	667	287	1,640	1,410	1,080	69	910
29	.2	15	635	2.2	-	370	94	1,820	1,240	3,170	65	1,260
30	.1	12	322	3.4	-	174	48	2,050	810	10,000	61	1,380
31	0	-	152	3.4	-	445	-	2,540	-	11,300	58	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,878.7	1,610	0	125	7,690
November	12,094.0	4,040	0	403	23,990
December	3,313.7	742	3.6	107	6,570
Calendar year 1934	49,568.2	4,040	0	136	98,310
January	746.7	320	2.2	24.1	1,480
February	5,104.7	1,870	2.4	182	10,120
March	1,782.0	667	1.6	57.5	3,530
April	4,891.2	846	9.2	163	9,700
May	63,446	8,020	28	2,047	125,800
June	277,510	27,100	810	9,250	550,400
July	35,626	11,300	113	1,149	70,660
August	15,670	4,660	58	505	31,080
September	42,038	5,590	50	1,401	83,380
Water year 1934-35	466,101.0	27,100	0	1,277	924,400

Leona River seepage investigation

During the investigation the river was at a constant stage, and measurements represent natural conditions.

Discharge measurements of Leona River near Uvalde, Tex., to determine seepage Oct. 18-20, 1934

Date	Stream or diversion	Location	Distance in miles from initial point	Discharge in second-feet			
				Main stream	Diversion	Gain or loss in section	Total gain or loss
Oct. 18	Leona River..	Highway bridge 1.7 miles southeast of Uvalde.	0	1.4	-	-	-
18	Leona Valley Livestock & Irrigation Co.'s canal.	Head of canal.....	2.0	-	0	-	-
18	Leona River..	Below Leona Valley Livestock & Irrigation Co.'s dam	2.1	6.6	-	+5.2	+5.2
19	....do.....	Near S. L. Gilbert ranch.....	5.8	11.4	-	+4.8	+10.0
19	Kincaid Canal	500 feet below head.....	8.1	-	3.8	-	-
19	Leona River..	250 feet below Kincaid Dam.....	8.1	3.3	-	-4.3	+5.7
19	....do.....	1 mile below Kincaid Dam.....	9.1	8.9	-	+5.6	+11.3
19	....do.....	5 miles below Kincaid Dam.....	13.0	7.7	-	-1.2	+10.1
19	....do.....	Hackberry Crossing.....	17.0	5.2	-	-2.5	+7.6
19	Batesville Canal.	Head of canal, above Batesville..	20.1	-	0	-	-
19	Leona River..	Below Batesville Dam.....	20.1	3.6	-	-1.6	+6.0
19	....do.....	3 miles below Batesville.....	23.3	2.6	-	-1.0	+5.0
20	....do.....	Ottenhouse ranch.....	26.4	.8	-	-1.8	+3.2
20	....do.....	Roger ranch.....	34.6	0	-	- .8	+2.4

Note.- There was no inflow from tributaries during seepage investigation.

Atascosa River at Whitsett, Tex.

Location.- Water-stage recorder, lat. 28°39', long. 98°18', 0.9 mile west of Whitsett, Live Oak County, and 4 miles below mouth of La Parita Creek.

Drainage area.- 1,171 square miles.

Records available.- September 1924 to May 1926, May 1932 to September 1935.

Extremes.- Maximum discharge during year, 38,300 second-feet, by slope-area method, June 14 (gage height, 38.0 feet, from flood marks); no flow Oct. 11 to Nov. 2, Nov. 13, 14.
1924-26, 1932-35: Maximum discharge, that of June 14, 1935; no flow at times.

Remarks.- Records good except those above 8,000 second-feet, which are poor. Discharge partly estimated June 13-15. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	871	0	10	32	8.3	19	90	516	2,140	51	24	6.5
2	166	0	8.6	26	8.3	14	32	68	5,800	49	21	6.2
3	38	75	7.4	21	8.3	11	24	251	1,110	46	19	5.9
4	13	251	6.5	20	8.0	12	15	1,560	340	43	18	750
5	6.2	34	6.2	17	8.3	13	74	1,020	735	41	18	1,320
6	3.3	8.9	150	16	8.9	13	356	3,430	351	39	17	3,160
7	1.2	3.3	478	16	29	12	142	2,000	175	38	17	3,960
8	.6	1.2	171	14	55	12	40	164	807	37	16	1,840
9	.3	.6	36	13	40	16	23	94	1,560	35	14	799
10	.1	.4	19	13	134	13	17	329	1,920	34	13	1,350
11	0	.3	12	12	985	12	13	1,700	5,840	32	13	730
12	0	.1	9.2	12	792	11	11	1,370	5,480	31	13	156
13	0	0	8.3	12	1,500	11	9.5	202	15,100	48	13	74
14	0	0	8.0	12	523	9.8	8.6	123	36,800	35	12	52
15	0	541	7.7	11	80	9.5	8.3	87	17,300	31	12	41
16	0	1,060	7.4	10	44	9.5	8.0	69	3,210	31	11	37
17	0	110	12	10	30	8.9	8.6	62	2,680	30	9.8	33
18	0	29	133	9.8	26	8.0	7.7	63	463	28	9.5	31
19	0	13	53	9.5	21	8.3	8.6	100	295	26	9.5	30
20	0	8.9	19	9.5	19	8.9	30	270	225	25	8.9	28
21	0	181	11	32	17	8.9	33	98	176	24	9.2	26
22	0	776	8.6	22	16	9.2	24	62	148	23	9.2	24
23	0	85	7.7	12	15	8.9	13	69	131	24	9.5	27
24	0	26	7.7	10	15	9.2	9.8	330	114	100	9.5	441
25	0	16	7.7	10	18	8.9	36	164	100	295	9.2	3,060
26	0	12	7.7	9.5	24	9.2	647	63	88	124	8.9	8,940
27	0	8.9	298	9.5	23	51	1,770	47	80	106	8.9	2,740
28	0	7.4	1,440	9.2	21	264	748	41	66	93	8.3	368
29	0	20	468	8.9	-	267	93	825	61	73	8.0	164
30	0	41	77	8.9	-	170	971	975	56	35	7.7	98
31	0	-	42	8.8	-	396	-	925	-	28	7.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,099.7	871	0	35.5	2,180
November	3,310.0	1,060	0	110	6,570
December	3,537.7	1,440	6.2	114	7,020
Calendar year 1934	27,766.6	2,300	0	76.1	55,070
January	436.4	32	8.6	14.1	866
February	4,477.1	1,500	8.0	160	8,880
March	1,434.2	396	8.0	46.3	2,840
April	5,271.1	1,770	7.7	176	10,460
May	17,077	3,430	41	551	33,870
June	103,351	36,800	56	3,445	205,000
July	1,655	295	23	53.4	3,280
August	384.2	24	7.1	12.4	762
September	30,297.5	8,940	5.9	1,010	60,090
Water year 1934-35	172,330.9	36,800	0	472	341,800

Rio Grande at Thirtymile Bridge, near Creede, Colo.

Location.- Water-stage recorder, lat. 37°44', long. 107°16', in sec. 13, T. 40 N., R. 4 W., 30 miles southwest of Creede and above the mouth of Squaw Creek. Datum lowered 0.40 foot Oct. 2, 1934.

Drainage area.- 163 square miles.

Records available.- June 1909 to September 1913, October 1933 to September 1935 in reports of U. S. Geological Survey; June 1909 to September 1935 in reports of State engineer.

Average discharge.- 22 years (1910-23, 1926-35), 233 second-feet.

Extremes.- Maximum discharge during year, 1,670 second-feet June 23 (gage height, 4.01 feet); minimum mean daily discharge, 1 second-foot when reservoir gates were closed and reservoir was about empty.

1909-35: Maximum discharge, 7,500 second-feet June 28, 1927 (gage height, 7.03 feet, present datum); minimum mean daily discharge, 1 second-foot when reservoir gates were closed and reservoir was about empty.

Remarks.- Records good except those estimated Nov. 26 to Mar. 4. Flow regulated by Rio Grande Reservoir just above station (capacity, 45,800 acre-feet).

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Apr. 5 to May 25, and July 16-31)

0.1	2	1.2	71	2.0	238	2.8	604
.2	4	1.4	101	2.2	304	3.0	748
.4	17	1.6	138	2.4	386	3.5	1,170
.8	29	1.8	163	2.6	486	4.0	1,660
1.0	46						

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	30				1	27	108	427	834	611	238
2	70	30				1	27	96	437	810	604	208
3	64	30				2	27	87	579	787	542	176
4	64	30				2	27	99	542	704	579	176
5	53	30				11	41	88	344	497	561	176
6	50	39				22	51	114	156	464	554	178
7	50	44				27	48	121	10	497	531	90
8	50	44				27	48	140	15	508	486	59
9	56	44				27	48	136	12	646	514	64
10	50	39				27	48	160	4	1,040	497	64
11	50	38				27	235	190	5	1,040	514	64
12	51	32				26	344	206	15	858	525	64
13	51	31				26	386	188	9	803	520	64
14	51	30				26	427	176	12	787	503	64
15	52	30				26	412	165	15	771	464	57
16	51	30				27	332	176	18	625	418	54
17	40	27				27	165	169	19	492	386	54
18	37	24				27	79	165	21	404	378	54
19	36	24				27	96	156	30	414	400	54
20	36	15				27	130	169	188	475	448	54
21	36	2				27	138	172	915	475	481	54
22	37	2				27	149	190	1,580	400	464	54
23	37	2				27	138	238	1,610	361	352	54
24	36	2				27	101	297	1,540	277	386	54
25	36	2				27	91	378	818	217	448	54
26	31	2				27	103	404	548	332	448	68
27	30	2				27	132	443	795	423	464	90
28	30	2				27	142	464	958	409	464	123
29	30	2				27	145	470	850	573	448	123
30	30	2				27	128	486	850	660	336	85
31	30	-				27	-	503	-	618	287	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,400	75	30	45.2	2,780
November	661	44	2	22.0	1,310
December	62	-	-	2.0	123
Calendar year 1934	39,956	826	-	109	79,220
January	62	-	-	2.0	123
February	28	-	-	1.0	56
March	710	27	1	22.9	1,410
April	4,267	427	27	142	8,460
May	6,934	503	67	224	13,750
June	13,322	1,610	4	444	26,420
July	18,201	1,040	217	587	36,100
August	14,613	611	287	471	28,980
September	2,771	238	54	92.4	5,500
Water year 1934-35	63,031	1,610	-	173	125,000

Rio Grande at Wason, below Creede, Colo.

Location.- Water-stage recorder, lat. 37°49', long. 106°53', in sec. 8, T. 41 N., R. 1 E., at Wason, 3 miles southeast of Creede. Datum lowered 0.25 foot Oct. 2, 1934.

Drainage area.- 705 square miles.

Records available.- April 1907 to September 1913, October 1933 to September 1935 in reports of U. S. Geological Survey; April 1907 to September 1935 in reports of State engineer.

Average discharge.- 28 years (1907-35), 659 second-feet.

Extremes.- Maximum discharge during year, 3,430 second-feet June 24 (gage height, 4.08 feet); minimum mean daily discharge, 55 second-feet (estimated) Jan. 3-7.
1907-35: Maximum discharge, 9,750 second-feet June 28, 1927 (gage height, 7.65 feet, present datum); minimum not determined.

Remarks.- Records excellent Mar. 15 to Sept. 30, good Oct. 1 to Nov. 27, and fair during period of ice effect Nov. 28 to Mar. 14, when discharge was estimated on basis of six discharge measurements and temperature records. Diversions for irrigation above station. Flow regulated by three reservoirs (total capacity, 117,600 acre-feet).

Rating table, water year 1934-35 except period of ice effect Nov. 28 to Mar. 14 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 3 to Nov. 27 and Sept. 11-30)

0.2	46	1.0	294	1.8	760	3.5	2,645
.4	94	1.2	384	2.0	920	4.0	3,320
.6	150	1.4	490	2.5	1,410		
.8	216	1.6	615	3.0	2,000		

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	235	112	80	65	79	75	189	329	1,280	1,830	1,140	563
2	216	123	80	60	79	80	213	294	1,330	1,760	1,100	502
3	206	99	80	55	79	85	243	307	1,710	1,710	1,010	446
4	202	120	80	55	79	90	243	286	1,930	1,650	1,030	425
5	196	120	80	55	79	95	227	294	1,680	1,380	1,100	404
6	182	126	79	55	79	100	216	325	1,750	1,240	1,030	384
7	169	126	79	55	79	100	182	320	1,640	1,330	1,070	420
8	169	123	79	60	79	100	185	334	1,710	1,300	1,010	394
9	163	126	79	63	79	100	160	425	2,060	1,350	1,030	338
10	166	126	79	64	79	110	147	415	2,250	1,720	992	312
11	160	123	78	65	78	120	199	508	2,480	1,800	1,020	290
12	163	126	78	67	78	120	490	670	2,200	1,640	1,030	274
13	169	112	78	68	77	125	576	629	2,150	1,460	1,000	266
14	163	112	78	70	77	130	707	563	2,300	1,400	974	254
15	156	112	78	70	77	135	752	502	2,510	1,410	929	246
16	153	107	78	72	76	129	737	563	2,430	1,280	895	235
17	150	126	75	72	76	129	479	570	1,780	1,100	871	239
18	135	117	75	73	75	123	352	520	1,650	1,010	830	235
19	129	107	75	73	74	112	334	526	1,760	974	830	227
20	126	94	75	74	74	99	399	615	1,950	1,020	854	220
21	123	97	75	74	74	104	384	602	2,510	1,080	912	213
22	123	58	75	74	74	112	430	608	3,050	1,010	929	213
23	120	65	75	74	74	115	457	670	3,020	863	830	213
24	115	82	75	74	74	115	399	807	3,100	783	854	227
25	120	77	75	74	74	102	329	1,040	2,440	643	879	254
26	123	68	70	75	74	115	294	1,220	1,830	602	854	258
27	115	72	70	75	74	126	334	1,180	1,920	607	879	307
28	112	72	70	76	74	126	370	1,370	2,180	768	863	334
29	110	72	70	77	-	135	356	1,420	1,900	1,010	830	338
30	110	94	70	77	-	156	379	1,500	1,880	1,260	745	329
31	110	-	70	78	-	189	-	1,510	-	1,200	615	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,689	235	110	151	9,300
November	3,094	126	58	103	6,140
December	2,358	80	70	76.1	4,680
Calendar year 1934	109,073	1,810	58	299	216,600
January	2,119	78	55	68.4	4,200
February	2,144	79	74	76.6	4,250
March	3,552	189	75	115	7,050
April	10,762	752	147	359	21,350
May	20,922	1,510	286	675	41,500
June	62,430	3,100	1,280	2,081	123,800
July	38,390	1,830	602	1,238	76,150
August	28,935	1,140	615	933	57,390
September	9,360	563	213	312	18,570
Water year 1934-35	188,755	3,100	55	517	374,400

Rio Grande near Del Norte, Colo.

Location.- Water-stage recorder, lat. 37°41', long. 106°28', in sec. 30, T. 40 N., R. 5 E., 6 miles west of Del Norte. From July 1889 to September 1907 station 4 miles below present station; records comparable.

Drainage area.- 1,320 square miles.

Records available.- July 1889 to November 1906, April 1908 to September 1913, October 1933 to September 1935 in reports of U. S. Geological Survey; July 1889 to September 1935 in reports of State engineer.

Average discharge.- 46 years (1889-1935), 977 second-feet.

Extremes.- Maximum discharge during year, 6,520 second-feet June 16 (gage height, 4.93 feet); minimum mean daily discharge, 90 second-feet Dec. 3 (estimated).
1889-1935: Maximum discharge, 15,000 second-feet June 29, 1927 (gage height, 6.40 feet); minimum mean daily discharge, that of Dec. 3, 1934.

Remarks.- Records excellent except those estimated for periods of ice effect or missing gage-height record, Nov. 24 to Mar. 20, which were estimated on the basis of nine discharge measurements and temperature records and are good. Small diversions for irrigation above station. Flow regulated by three reservoirs above station (total capacity, 117,600 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	308	193	130	158	140	210	406	621	2,530	3,400	1,620	828
2	300	205	110	138	140	210	434	548	2,500	3,230	1,440	755
3	292	190	90	111	140	210	492	548	3,100	3,150	1,320	680
4	276	192	100	113	140	213	492	516	3,820	3,090	1,260	617
5	268	218	105	102	135	220	468	548	3,630	2,660	1,420	597
6	260	218	100	104	145	220	434	567	3,880	2,370	1,330	577
7	246	218	110	120	150	220	371	607	3,950	2,470	1,350	604
8	239	222	120	104	150	220	371	674	4,100	2,450	1,300	695
9	236	215	125	117	145	240	356	777	4,540	2,450	1,270	584
10	236	218	130	117	150	240	278	844	5,000	2,710	1,350	526
11	236	210	135	111	150	250	294	1,010	5,400	2,830	1,270	481
12	236	205	130	122	150	250	406	1,210	4,940	2,710	1,320	450
13	250	205	130	124	150	250	705	1,330	4,850	2,450	1,290	427
14	250	199	135	133	150	260	870	1,230	5,130	2,260	1,200	416
15	246	199	140	145	160	270	1,040	1,070	5,620	2,280	1,140	393
16	239	190	145	148	170	286	1,140	1,100	5,810	2,010	1,080	382
17	236	208	140	150	170	270	981	1,200	4,470	1,780	1,060	368
18	236	215	140	150	180	250	761	1,160	4,140	1,740	995	363
19	222	202	145	150	184	240	628	1,140	4,250	1,730	977	348
20	220	182	135	150	180	228	744	1,270	4,650	1,640	977	339
21	215	160	150	150	180	228	777	1,260	5,130	1,700	1,020	325
22	215	161	160	150	180	216	810	1,260	5,740	1,730	1,070	325
23	215	169	155	150	190	228	844	1,330	5,510	1,470	1,040	306
24	205	180	150	150	190	245	802	1,570	5,710	1,350	1,000	299
25	200	167	150	150	190	238	642	1,910	4,980	1,180	1,050	325
26	205	163	150	150	200	245	567	2,350	3,950	1,150	1,060	348
27	205	150	145	160	200	270	586	2,430	3,950	1,290	1,130	393
28	200	152	160	160	200	270	658	2,550	4,140	1,230	1,100	421
29	195	143	165	160	-	286	642	2,700	3,630	1,420	1,050	450
30	193	135	150	160	-	333	705	2,920	3,630	1,770	1,040	432
31	193	-	155	160	-	391	-	3,040	-	1,730	888	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,273	308	193	235	14,430
November	5,704	222	135	190	11,310
December	4,185	165	90	135	8,300
Calendar year 1934	161,930	2,610	90	444	320,400
January	4,267	160	102	138	8,460
February	4,609	200	135	165	9,140
March	7,707	391	210	249	15,290
April	18,704	1,140	278	623	37,100
May	41,290	3,040	516	1,332	81,900
June	132,680	5,810	2,500	4,423	263,200
July	65,430	3,400	1,150	2,111	129,800
August	36,417	1,620	888	1,175	72,230
September	14,056	828	299	469	27,880
Water year 1934-35	342,322	5,810	90	938	679,000

Rio Grande near Monte Vista, Colo.

Location.- Water-stage recorder, lat. 37°37', long. 106°9', in sec. 24, T. 39 N., R. 7 E., 2 miles north of Monte Vista.

Drainage area.- 1,740 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; May 1926 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 3,660 second-feet June 16 (gage height, 4.84 feet); minimum mean daily discharge, 5 second-feet Mar. 23, 27.
1926-35: Maximum discharge, 18,500 second-feet June 30, 1927 (gage height, 7.85 feet, present datum); minimum mean daily discharge, 4 second-feet Apr. 18, 1926.

Remarks.- Records excellent except those estimated Nov. 24-28, Dec. 18 to Jan. 6, by comparison with records of station near Del Norte, which are fair. Diversions for irrigation above station. Flow regulated by three reservoirs having a total capacity of 117,600 acre-feet.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Jan. 7-30)

0.4	4	1.4	220	3.0	1,400
.6	17	1.6	312	3.5	1,930
.8	48	1.8	424	4.0	30
1.0	88	2.0	550	4.5	[illegible]0
1.2	144	2.5	934	4.9	[illegible]

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	12	162	170	274	20	9	166	768	934	412	278
2	14	13	169	160	317	6	9	111	793	793	274	274
3	14	16	166	150	298	6	8	123	1,030	768	173	229
4	14	28	166	140	322	7	26	151	1,360	737	96	132
5	14	37	114	130	328	7	28	144	1,160	486	173	64
6	14	50	144	125	173	29	18	109	1,180	242	216	64
7	14	53	148	120	120	30	12	64	1,220	192	166	48
8	14	46	155	151	79	11	18	57	1,210	260	169	98
9	14	16	173	233	96	8	55	96	1,470	467	180	169
10	14	12	180	264	29	7	62	180	2,030	611	212	117
11	14	12	192	251	37	8	46	242	2,350	729	129	93
12	14	12	192	220	180	7	61	449	2,060	713	126	84
13	14	11	188	188	184	7	70	591	1,860	611	135	73
14	14	12	196	204	93	6	68	505	1,970	486	91	57
15	14	13	176	138	62	6	75	394	2,460	618	53	42
16	14	14	184	138	57	7	62	382	3,060	564	64	35
17	14	13	229	144	34	6	114	461	2,070	618	93	30
18	14	12	200	132	50	7	96	512	1,390	577	93	17
19	14	12	190	141	66	7	64	550	1,370	537	81	15
20	14	12	180	138	32	6	129	647	1,640	537	77	13
21	14	20	180	233	15	8	151	584	2,010	570	64	15
22	14	37	180	204	13	7	117	430	2,600	611	55	17
23	14	66	180	200	12	5	106	449	2,840	376	50	18
24	14	66	180	212	12	7	104	591	3,120	298	37	14
25	14	60	180	220	12	6	104	683	2,860	388	61	13
26	14	60	180	212	12	6	111	842	1,780	418	52	53
27	13	70	180	220	24	5	148	713	1,270	359	86	55
28	12	80	180	238	18	6	144	721	1,400	274	141	77
29	12	180	180	200	-	6	158	900	1,140	278	155	68
30	12	180	180	200	-	6	141	900	1,080	394	238	93
31	12	-	180	255	-	6	-	892	-	499	348	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	425	14	12	13.7	843
November	1,225	180	11	40.8	2,430
December	5,484	229	114	177	10,880
Calendar year					
January	5,731	264	120	185	11,370
February	2,949	328	12	105	5,850
March	266	30	5	8.6	528
April	2,334	158	8	77.8	4,630
May	13,639	900	57	440	27,050
June	52,551	3,120	768	1,752	104,200
July	15,945	934	192	514	31,630
August	4,300	412	37	139	8,530
September	2,375	278	13	79.2	4,710
Water year 1934-35	107,224	3,120	5	294	212,700

Rio Grande at Alamosa, Colo.

Location.- Water-stage recorder, lat. 37°29', long. 105°53', in sec. 3, T. 37 N., R. 10 E., in Alamosa.

Drainage area.- 1,840 square miles.

Records available.- May 1912 to September 1913, October 1933 to September 1935 in reports of U. S. Geological Survey; May 1912 to September 1935 in reports of State engineer.

Average discharge.- 23 years, 365 second-feet.

Extremes.- Maximum discharge during year, 2,300 second-feet June 25 (gage height, 4.75 feet); minimum mean daily discharge, 3 second-feet Oct. 29-31.
1912-35: Maximum discharge, 14,000 second-feet July 1, 1927 (gage height, 8.37 feet); minimum mean daily discharge, 2 second-feet Oct. 24-29, 1933.

Remarks.- Records good except those for period of ice effect, Nov. 27 to Feb. 20, which were estimated on the basis of five discharge measurements and temperature records and are fair. Diversions for irrigation above station. During irrigation season flow is return water from irrigated lands above station except during extreme stages.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	6	85	120	300	22	14	55	29	476	34	41
2	11	6	96	110	340	22	14	70	28	416	34	30
3	11	8	110	100	320	18	11	68	33	324	34	25
4	11	11	120	95	340	17	11	61	119	290	29	26
5	11	11	130	90	340	17	11	52	284	242	29	22
6	11	11	130	85	195	17	12	59	163	198	29	22
7	11	8	130	80	180	17	12	58	98	146	29	22
8	11	8	130	95	130	16	12	56	148	112	24	23
9	11	8	130	144	80	16	12	56	125	86	24	23
10	11	6	130	185	110	16	12	72	342	55	29	24
11	11	6	135	170	40	17	12	62	849	48	24	24
12	11	8	135	140	50	17	12	48	1,190	41	29	22
13	11	19	139	110	195	14	12	47	1,010	35	29	22
14	11	19	140	120	200	14	12	76	888	49	26	22
15	11	15	140	60	100	14	12	99	1,130	42	26	23
16	11	15	140	60	70	10	12	52	1,540	35	24	23
17	11	15	140	65	65	10	12	51	1,960	35	24	23
18	11	15	140	60	45	10	12	51	1,220	35	24	24
19	11	15	140	60	60	15	12	49	747	35	24	24
20	11	15	140	65	70	15	12	64	647	62	24	24
21	11	15	140	150	40	15	12	62	860	62	24	25
22	11	15	140	135	33	16	12	94	1,240	48	24	28
23	11	19	140	130	23	16	12	40	1,760	70	24	28
24	11	19	140	140	23	16	12	23	1,980	48	20	29
25	11	19	140	152	27	13	12	22	2,200	48	20	29
26	11	15	140	150	27	13	12	22	1,800	48	20	29
27	11	22	140	160	27	13	24	26	948	34	20	30
28	6	22	140	170	27	14	29	22	676	34	20	30
29	3	26	140	140	-	14	48	21	676	34	20	30
30	3	44	140	140	-	14	62	30	517	34	20	30
31	3	-	140	200	-	14	-	34	-	34	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	312	11	3	10.1	619
November	441	44	6	14.7	875
December	4,120	140	85	133	8,170
Calendar year 1934	24,562	270	3	67.3	48,790
January	3,681	200	60	119	7,300
February	3,457	340	23	123	6,860
March	472	22	10	15.2	936
April	476	62	11	15.9	944
May	1,604	99	21	51.7	3,180
June	25,207	2,200	28	840	50,000
July	3,256	476	34	105	6,460
August	781	34	20	25.2	1,550
September	777	41	22	25.9	1,540
Water year 1934-35	44,584	2,200	3	122	88,430

Rio Grande near Lobatos, Colo.

Location.- Water-stage recorder, lat. 37°5', long. 105°45', in sec. 22, T. 33 N., R. 11 E., 6 miles north of Colorado-New Mexico line and 10 miles east of Lobatos.

Drainage area.- 7,700 square miles.

Records available.- June 1899 to September 1913, October 1933 to September 1935 in reports of U. S. Geological Survey; June 1899 to September 1935 in reports of State engineer.

Average discharge.- 36 years (1899-1935), 774 second-feet.

Extremes.- Maximum discharge during year, 4,600 second-feet June 18 (gage height, 4.81 feet); minimum mean daily discharge, 17 second-feet Apr. 17, 18, 23.
1899-1935: Maximum mean daily discharge, 13,100 second-feet June 8, 1905; minimum mean daily discharge, 8 second-feet July 19, 20, 22, Aug. 3, 4, 1934.

Remarks.- Records excellent except those for period of ice effect Dec. 2 to Feb. 25, which were estimated on the basis of five discharge measurements and temperature records and are good. Diversions for irrigation above station. Flow regulated by numerous reservoirs on headwaters.

Rating tables, water year 1934-35 (gage height, in feet, and discharge, in second-feet) (Shifting-control method used Oct. 1-10)

Table for Oct. 1 to Dec. 1

0.7	30	0.5	7	1.4	254	3.0	1,690
.8	45	.6	14	1.6	372	3.5	2,370
.9	70	.8	46	1.8	508	4.0	3,170
1.0	102	1.0	94	2.0	664	4.5	4,040
1.1	142	1.2	164	2.5	1,120	4.7	4,400
1.2	186						

Table for Feb. 26 to Sept. 30

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	50	60	138	164	377	134	61	66	1,540	1,990	204	164
2	52	65	146	173	377	107	61	78	1,250	1,760	184	184
3	52	62	160	182	331	116	53	73	1,310	1,600	184	214
4	50	65	182	191	348	134	39	61	1,490	1,380	192	229
5	48	62	195	204	336	137	35	84	1,720	1,320	214	239
6	48	62	204	232	348	116	33	113	1,630	1,200	214	234
7	44	62	200	227	353	110	25	116	2,060	1,080	204	214
8	44	65	191	177	309	110	27	100	2,220	1,010	192	188
9	42	65	182	209	309	204	32	113	2,240	911	219	180
10	40	65	173	232	293	107	28	214	2,340	794	192	172
11	42	62	166	223	262	94	27	418	2,620	736	204	172
12	42	62	182	218	247	113	24	598	3,240	688	196	180
13	44	65	204	177	204	94	21	680	3,220	664	196	172
14	50	70	214	218	173	94	18	629	2,850	629	204	160
15	55	76	209	237	200	110	18	596	3,030	598	168	153
16	50	76	195	186	160	100	20	494	3,530	644	141	145
17	45	80	182	92	182	94	17	501	4,220	560	137	123
18	45	83	160	122	209	94	17	629	4,420	545	126	126
19	45	83	160	118	218	89	24	990	3,390	552	110	116
20	45	86	142	110	182	113	25	1,060	2,800	560	104	107
21	50	102	191	191	195	97	22	1,170	2,750	582	97	97
22	50	83	195	160	155	89	20	1,010	3,000	605	94	97
23	50	76	200	142	138	76	17	960	3,440	621	89	97
24	50	151	186	164	134	81	18	1,000	3,820	621	86	100
25	52	89	186	195	50	76	32	1,190	4,040	598	104	97
26	58	96	191	227	149	76	78	1,370	4,090	629	104	107
27	58	99	177	257	164	73	59	1,650	3,680	501	100	130
28	58	58	223	293	156	68	42	1,760	2,900	360	100	141
29	58	102	214	336	-	68	37	1,790	2,580	306	100	149
30	58	146	209	353	-	68	39	1,660	2,230	266	104	164
31	58	-	173	359	-	68	-	1,760	-	234	123	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,533	58	40	49.5	3,040
November	2,378	151	58	79.3	4,720
December	5,732	223	138	185	11,370
Calendar year 1934	49,869	582	6	137	98,880
January	6,369	359	92	205	12,630
February	6,559	377	50	234	13,010
March	3,112	204	68	100	6,170
April	969	78	17	32.3	1,920
May	22,935	1,790	61	740	45,490
June	83,850	4,420	1,250	2,795	166,300
July	24,544	1,990	234	792	48,680
August	4,686	219	86	151	9,290
September	4,651	239	97	155	9,230
Water year 1934-35	167,318	4,420	17	458	331,800

Rio Grande below Taos Junction Bridge, near Taos, N. Mex.

Location.- Water-stage recorder, lat. 36°19', long. 105°46', in sec. 15, T. 24 N., R. 11 E., 2 miles below bridge on Taos-Taos Junction highway and about 12 miles southwest of Taos.

Drainage area.- 9,150 square miles.

Records available.- October 1930 to September 1935 in reports of U. S. Geological Survey; July 1925 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 4,990 second-feet June 18 (gage height, 7.33 feet); minimum mean daily, 220 second-feet Apr. 11, 12, 14.
1930-35: Maximum discharge, 6,950 second-feet May 25, 1932 (gage height, 8.56 feet, former site and datum); revised maximum for Aug. 12, 1934, 1,300 second-feet (gage height, 4.85 feet), supersedes value previously published; minimum mean daily discharge (estimated), 140 second-feet Aug. 21, 1931.

Remarks.- Records good. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	265	251	228	395	438	321	295	280	2,720	2,800	401	438
2	265	246	251	389	432	326	285	275	2,420	2,500	395	395
3	265	246	256	377	425	348	285	305	2,200	2,270	383	532
4	265	246	256	365	432	326	285	326	2,270	2,030	377	504
5	256	242	265	383	413	310	265	332	2,420	1,840	419	490
6	251	233	295	389	413	300	251	316	2,640	1,720	432	477
7	242	228	310	395	419	300	228	343	2,800	1,580	470	470
8	233	228	326	401	438	300	233	360	3,020	1,450	432	464
9	228	228	332	401	419	310	251	371	3,180	1,390	419	419
10	228	224	338	401	432	300	228	395	3,260	1,230	444	401
11	228	224	354	413	401	348	220	464	3,340	1,120	395	377
12	228	228	365	425	389	316	220	672	3,660	1,040	458	360
13	233	228	371	419	371	332	224	930	3,900	990	432	360
14	233	233	383	419	371	348	220	1,120	3,820	950	401	371
15	233	233	395	477	343	354	238	1,100	3,660	970	407	360
16	233	233	407	490	332	354	256	1,040	3,900	850	383	348
17	233	256	407	438	295	354	280	1,090	4,400	900	360	348
18	242	256	419	407	338	343	285	1,350	4,990	930	338	343
19	236	251	383	401	354	332	285	1,530	4,480	792	332	332
20	233	256	360	377	371	326	285	2,130	3,820	774	332	310
21	233	265	395	343	371	321	285	2,090	3,580	783	365	305
22	238	260	401	360	383	305	280	2,090	3,660	810	316	300
23	242	260	413	413	377	300	275	1,960	3,900	765	463	290
24	242	260	413	401	348	300	275	2,070	4,220	747	360	290
25	242	256	407	395	338	290	275	2,270	4,480	729	316	305
26	238	260	401	407	290	290	256	2,570	4,480	696	456	310
27	246	238	407	419	238	290	251	2,640	4,480	738	401	338
28	246	256	413	425	305	285	310	2,800	3,900	632	624	360
29	246	260	407	432	-	290	305	2,800	3,420	525	464	371
30	251	233	419	432	-	295	295	2,720	3,100	470	419	377
31	251	-	413	444	-	295	-	2,640	-	438	444	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,507	265	228	242	14,890
November	7,318	265	224	244	14,520
December	11,190	419	228	361	22,200
Calendar year 1934	123,467	710	178	338	244,900
January	12,633	490	343	408	25,060
February	10,476	458	238	374	20,780
March	9,809	354	285	316	19,460
April	7,926	310	220	264	15,720
May	41,379	2,800	275	1,335	82,070
June	106,120	4,990	2,200	3,537	210,500
July	35,459	2,800	438	1,144	70,330
August	12,638	624	316	408	25,070
September	11,345	532	290	378	22,500
Water year 1934-35	273,800	4,990	220	750	543,100

Rio Grande at Embudo, N. Mex.

Location.- Water-stage recorder, lat. 36°12', long. 105°57', in SW¼ sec. 23, T. 23 N., R. 9 E., a quarter of a mile below depot at Embudo and about 2½ miles below Embudo Creek.

Drainage area.- 10,000 square miles.

Records available.- January 1889 to December 1903, September 1912 to September 1916, October 1930 to September 1935 in reports of U. S. Geological Survey; January 1889 to December 1903, September 1912 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 5,900 second-feet June 18 (gage height, 7.73 feet); minimum mean daily, 226 second-feet Dec. 1.
1930-35: Maximum discharge, 8,360 second-feet May 25, 1932 (gage height, 9.35 feet); minimum mean daily discharge, 174 second-feet Aug. 21, 1931.

Remarks.- Records good except those estimated by hydrographic comparison with other stations on Rio Grande, which are fair. Diversionsfor irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	274	247	226	440	490	320	348	450	*3,900	2,640	463	689
2	274	250	244	404	490	340	352	445	*3,200	2,420	520	628
3	274	247	257	409	486	36e	364	440	*2,900	2,200	472	706
4	274	247	247	404	490	364	380	431	*3,000	1,950	515	662
5	274	257	260	414	466	344	384	490	*3,200	1,760	550	766
6	268	260	302	436	486	313	364	472	*3,400	1,680	590	656
7	260	257	306	454	486	316	316	510	*3,600	1,540	650	634
8	260	254	320	454	500	313	310	628	*3,900	1,460	580	656
9	254	250	336	454	476	302	356	724	*4,000	1,420	570	612
10	250	250	340	463	476	285	299	77e	*4,100	1,300	606	570
11	257	254	352	450	463	306	285	838	4,160	1,190	535	540
12	264	260	364	476	454	316	274	1,080	4,580	1,120	545	510
13	274	247	380	458	427	306	278	1,340	5,000	1,040	530	486
14	260	250	400	463	416	344	292	1,500	4,860	1,010	486	486
15	250	247	422	476	392	348	320	1,500	4,580	1,010	476	472
16	254	247	427	575	360	344	376	1,380	4,860	912	472	445
17	260	266	432	486	332	360	445	1,540	5,300	912	432	436
18	260	278	436	440	340	364	486	1,900	5,750	945	436	418
19	257	271	396	392	372	352	458	2,050	5,300	856	427	400
20	250	274	376	376	396	356	440	2,640	4,300	e20	440	380
21	244	292	414	348	396	336	450	2,640	3,890	796	550	352
22	238	278	414	352	400	336	454	2,640	3,890	856	530	344
23	244	271	445	454	404	348	454	2,580	4,300	796	490	328
24	247	271	436	445	380	340	463	2,640	4,580	772	667	340
25	244	268	432	427	360	320	458	2,940	4,720	742	463	400
26	241	260	427	440	320	313	414	3,120	4,720	706	623	472
27	238	247	432	445	254	316	384	3,240	4,720	796	684	510
28	241	254	454	458	254	313	436	3,760	4,020	684	706	535
29	247	250	450	481	-	313	458	3,760	3,500	555	778	476
30	247	241	458	486	-	328	436	3,890	3,060	495	684	468
31	250	-	450	495	-	340	-	*3,800	-	476	689	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	7,929	274	238	256	15,730
November	7,737	292	241	258	15,350
December	11,635	458	226	375	23,080
Calendar year 1934	131,239	784	162	360	260,300
January	13,755	575	348	444	27,280
February	11,588	500	254	414	22,980
March	10,264	368	285	331	20,360
April	11,534	486	274	384	22,880
May	56,196	3,890	440	1,813	111,500
June	125,290	5,750	2,900	4,176	248,500
July	35,859	2,640	476	1,157	71,130
August	17,159	778	427	554	34,030
September	15,377	766	328	513	30,500
Water year 1934-35	324,323	5,750	226	889	643,300

*Estimated.

Rio Grande at Otowi Bridge, near San Ildefonso, N. Mex.

Location.- Water-stage recorder, lat. 35°52', long. 106°9', in San Ildefonso Pueblo Grant, at Denver & Rio Grande Western Railroad bridge 2 miles southwest of San Ildefonso and 3 miles below Tesuque Creek.

Drainage area.- 13,800 square miles.

Records available.- February 1895 to December 1905, June 1909 to December 1914, October 1930 to September 1935 in reports of U. S. Geological Survey; February 1895 to December 1905, June 1909 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 21,900 second-feet Aug. 20 (gage height, 12.01 feet); minimum mean daily discharge, 278 second-feet Oct. 25, 31.
1930-35: Maximum discharge, that of Aug. 20, 1935; minimum mean daily discharge, 128 second-feet June 21, 1934.

Remarks.- Records good. Stage-discharge relation affected by ice Dec. 1-4, 6, 7. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	410	292	*314	512	682	440	500	1,080	7,250	2,580	1,610	1,160
2	400	306	*310	485	675	455	500	1,000	6,780	2,360	2,290	1,190
3	386	300	*322	490	636	517	556	968	6,090	2,430	1,960	1,180
4	372	306	*322	460	636	562	598	992	6,090	2,160	2,160	1,090
5	354	314	354	465	610	495	636	1,020	4,800	1,840	1,570	1,090
6	334	310	*390	539	616	445	636	1,020	6,780	1,720	908	1,010
7	338	314	*416	592	623	430	556	1,020	7,010	1,660	976	866
8	326	314	410	556	630	410	500	1,210	7,490	1,610	908	908
9	318	310	435	556	616	415	568	1,440	7,490	1,570	848	908
10	306	314	435	556	598	382	630	1,660	7,250	1,450	855	701
11	310	326	455	560	586	366	485	1,840	6,780	1,280	1,170	633
12	310	342	470	586	562	395	445	2,020	7,010	1,200	1,490	603
13	342	334	470	574	528	368	495	2,220	*7,010	1,150	1,610	555
14	330	318	512	586	500	517	649	2,430	*6,320	1,140	1,400	552
15	306	326	539	604	522	825	855	2,430	6,780	1,180	1,050	998
16	300	326	534	727	470	768	1,030	2,020	6,780	1,110	825	958
17	310	359	517	656	430	636	1,220	3,550	7,010	1,150	775	990
18	306	372	539	604	430	562	1,400	2,800	7,250	1,330	810	1,080
19	303	368	495	539	485	517	1,270	3,380	7,010	1,300	754	1,030
20	296	377	435	485	500	480	1,480	5,120	6,090	1,200	3,330	1,020
21	286	410	465	368	517	465	1,510	5,870	*5,540	1,170	1,210	1,020
22	289	405	506	440	761	435	1,510	4,700	*5,400	1,230	1,140	982
23	282	377	485	556	754	445	1,540	4,200	*5,540	1,130	1,120	958
24	266	395	490	574	656	430	1,490	4,010	*5,430	1,040	1,170	1,010
25	278	390	485	574	534	415	1,310	4,400	5,650	1,000	1,010	1,540
26	286	377	490	566	470	415	1,120	5,220	5,760	968	1,070	1,220
27	282	342	485	574	400	415	1,030	6,090	*4,700	1,160	1,710	1,490
28	282	368	622	592	350	395	1,140	6,550	3,730	1,160	1,600	2,850
29	289	354	562	598	-	366	1,270	6,780	3,290	1,500	1,360	1,280
30	286	346	562	592	-	405	1,210	7,010	2,960	1,410	1,760	974
31	278	-	534	636	-	455	-	7,250	-	1,330	1,980	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,781	410	278	316	19,400
November	10,292	410	292	343	20,410
December	14,259	562	310	460	28,280
Calendar year 1934	191,800	1,880	128	525	380,400
January	17,224	727	368	556	34,160
February	15,777	761	350	563	31,290
March	14,648	825	368	473	29,050
April	28,139	1,540	445	938	55,810
May	101,300	7,250	968	3,268	200,900
June	183,070	7,490	2,960	6,102	363,100
July	44,516	2,580	968	1,436	88,300
August	42,409	3,330	754	1,368	84,120
September	32,146	2,850	555	1,072	63,760
Water year 1934-35	513,563	7,490	278	1,407	1,019,000

*Estimated.

Rio Grande at Cochiti, N. Mex.

Location.- Water-stage recorder, lat. 35°38', long. 106°19', at highway bridge 1 mile northeast of Cochiti, Sandoval County, 4 miles north of Pena Blanca, and 8 miles above mouth of Galisteo Creek.

Drainage area.- 14,300 square miles.

Records available.- October 1930 to September 1935 in reports of U. S. Geological Survey; January 1925 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 20,500 second-feet Aug. 20 (gage height, 8.97 feet); minimum mean daily discharge, 104 second-feet Oct. 8.
1930-35: Maximum discharge and stage, those of Aug. 20, 1935; minimum mean daily discharge, 1 second-foot Aug. 10-12, 1934.

Remarks.- Records fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	182	166	410	486	730	342	610	*1,150	7,150	2,660	1,120	922
2	154	129	410	486	740	370	610	*1,050	6,950	2,230	1,650	922
3	147	144	378	442	690	335	650	*1,000	6,360	2,210	1,840	922
4	138	314	342	394	660	370	730	1,040	6,170	1,930	1,930	898
5	132	252	370	426	660	314	762	1,090	4,760	1,670	1,810	850
6	120	138	394	495	660	264	839	970	6,750	1,540	1,030	817
7	110	132	442	580	660	235	720	958	6,950	1,520	958	690
8	104	126	442	560	660	370	620	1,160	7,360	1,360	922	670
9	120	144	468	540	650	328	670	1,330	7,360	1,300	710	762
10	162	225	477	522	620	240	817	1,390	7,560	1,220	630	522
11	170	270	459	531	610	215	630	1,560	7,150	1,050	817	365
12	200	288	442	570	590	270	513	1,600	7,660	946	1,190	288
13	342	300	418	560	550	282	560	1,840	7,150	910	1,420	240
14	335	252	450	570	531	264	784	1,860	5,980	982	1,130	540
15	186	264	450	610	495	610	982	2,110	7,150	898	862	934
16	144	258	434	670	477	660	1,230	1,700	7,360	328	560	773
17	154	307	468	710	418	550	1,400	3,530	7,560	806	477	730
18	117	426	590	620	386	442	1,590	2,860	7,360	1,020	504	910
19	182	328	610	600	426	378	1,520	2,990	7,560	962	504	886
20	288	288	513	495	442	349	1,620	4,120	5,800	934	2,330	898
21	186	328	459	342	418	328	1,600	5,440	5,090	946	1,680	922
22	120	342	513	328	513	378	1,670	4,270	4,760	898	970	886
23	117	300	550	495	720	495	1,580	3,840	5,090	817	958	850
24	225	252	580	620	630	335	1,500	3,590	5,090	720	1,050	898
25	235	205	550	590	477	378	1,430	3,870	5,260	680	874	1,300
26	182	200	522	580	410	495	1,160	4,760	5,440	680	886	1,080
27	123	190	504	610	370	410	*1,050	5,610	4,760	910	1,230	1,140
28	115	230	504	630	328	356	*1,150	5,800	4,270	970	1,350	1,900
29	147	418	580	620	-	418	*1,300	5,980	3,560	1,280	1,160	1,170
30	246	402	600	660	-	442	*1,250	6,360	3,200	1,130	1,180	740
31	205	-	550	670	-	495	-	6,950	-	1,050	1,490	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,386	342	104	174	10,690
November	7,618	426	126	254	15,110
December	14,879	610	342	480	29,510
Calendar year 1934	152,912	1,650	1	419	303,300
January	17,012	710	328	549	33,740
February	15,511	740	328	554	30,770
March	11,718	660	215	378	23,240
April	31,567	1,670	513	1,052	62,610
May	91,778	6,950	958	2,961	182,000
June	184,320	7,560	3,200	6,144	365,600
July	37,077	2,660	680	1,196	73,540
August	35,222	2,330	477	1,136	69,860
September	25,423	1,900	240	847	50,430
Water year 1934-35	477,513	7,560	104	1,308	947,100

*Estimated.

Rio Grande at San Felipe, N. Mex.

Location.- Water-stage recorder, lat. 35°26', long. 106°26', in San Felipe Grant at steel highway bridge 2,000 feet below mouth of Tonque Arroyo, half a mile above San Felipe Pueblo, Sandoval County, and about 12 miles northeast of Bernalillo.

Drainage area.- 15,600 square miles.

Records available.- October 1930 to September 1935 in reports of U. S. Geological Survey; March 1925 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 42,100 second-feet Aug. 21 (gage height, 9.86 feet); minimum mean daily discharge, 224 second-feet Oct. 23.
1930-35: Maximum discharge and stage, those of Aug. 21, 1935; minimum mean daily discharge, 34 second-feet July 7, 1934.

Remarks.- Records fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	364	245	352	558	666	340	382	1,110	6,650	3,090	1,690	1,840
2	340	245	325	550	657	414	414	1,020	6,240	2,780	2,510	1,740
3	335	300	340	518	675	421	470	974	5,660	2,860	2,730	*1,690
4	325	*350	330	502	614	542	542	1,060	5,660	2,470	3,540	*1,690
5	295	*290	340	502	590	534	582	1,140	4,140	2,100	3,720	*1,600
6	295	300	346	558	590	502	639	1,050	6,040	1,940	1,520	*1,220
7	285	300	394	657	606	456	639	1,120	6,440	1,980	1,240	1,040
8	265	295	428	657	606	470	582	1,190	7,080	1,810	1,210	963
9	260	300	435	590	630	394	622	1,480	7,300	1,690	996	1,030
10	260	310	470	566	598	388	730	1,690	7,300	1,600	941	831
11	270	320	463	574	614	382	702	2,030	6,860	1,330	1,090	800
12	290	335	494	566	574	407	630	2,170	6,650	1,190	1,460	770
13	325	335	518	574	550	442	639	2,190	6,860	1,100	2,190	750
14	352	295	550	558	510	463	820	2,190	5,480	1,120	1,740	790
15	305	295	598	574	510	730	941	2,170	6,860	985	1,290	919
16	255	295	590	558	478	875	1,240	2,100	7,300	952	930	930
17	290	305	614	630	449	800	1,400	3,770	8,000	930	908	886
18	310	376	648	566	382	622	1,580	3,090	8,490	1,240	963	1,030
19	305	358	639	534	400	574	1,680	3,720	9,250	1,250	886	1,100
20	325	330	574	428	470	542	1,610	4,780	7,300	1,170	3,050	1,100
21	275	352	566	352	502	494	1,790	6,860	6,240	1,200	7,340	1,100
22	228	376	590	330	502	470	1,710	5,120	6,040	1,090	1,200	1,110
23	224	370	614	352	770	435	1,420	4,450	6,860	1,030	1,350	1,050
24	275	358	684	486	711	456	1,290	4,300	7,080	974	1,430	1,170
25	285	382	675	494	582	456	1,160	4,450	6,860	919	1,400	1,520
26	275	370	639	526	456	470	908	5,120	6,960	941	1,540	1,720
27	285	352	614	574	428	370	842	6,650	5,480	952	1,930	1,540
28	285	335	566	534	364	358	1,010	7,300	5,300	1,280	2,190	2,730
29	300	382	666	518	-	335	1,170	7,530	4,140	1,600	2,000	2,080
30	310	370	657	574	-	310	1,160	6,860	3,580	1,770	2,590	1,160
31	290	-	622	582	-	325	-	6,650	-	1,600	2,840	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,103	364	224	294	18,060
November	9,826	382	245	328	19,490
December	16,341	684	325	527	32,410
Calendar year 1934	191,079	1,680	34	524	379,000
January	16,542	657	330	534	32,810
February	15,484	770	364	553	30,710
March	14,777	875	310	477	29,310
April	29,304	1,790	382	977	58,120
May	105,334	7,530	974	3,398	208,900
June	194,000	9,250	3,580	6,467	384,800
July	46,943	3,090	919	1,514	93,110
August	60,414	7,340	886	1,949	119,800
September	37,899	2,730	750	1,263	75,170
Water year 1934-35	555,967	9,250	224	1,523	1,103,000

*Estimated.

Rio Grande at San Marcial, N. Mex.

Location.- Water-stage recorder, lat. 33°41', long. 106°58', in Pedro Armendaris Grant 34, at Atkinson, Topeka & Santa Fe Railway bridge 1.1 miles below San Marcial, Socorro County.

Drainage area.- 28,400 square miles.

Records available.- January 1895 to September 1935 in reports of U. S. Geological Survey; January 1895 to December 1931 in reports of State engineer. Records prior to January 1922 at site 0.3 mile upstream; January 1922 to February 1932 at highway bridge half a mile northeast of San Marcial and 1.8 miles above present site.

Average discharge.- 39 years (1897-1935), 1,549 second-feet.

Extremes.- Maximum discharge during year 15,000 second-feet Aug. 22 (gage height, 10.65 feet); minimum mean daily discharge, 0.9 second-foot July 31.
1895-1935: Maximum discharge observed, about 47,000 second-feet Sept. 24, 1929 (gage height, 7.80 feet); no flow at times.

Remarks.- Records good except those partly estimated, which are fair. Diversions for irrigation above station. Records furnished by International Boundary Commission (U. S. Section).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	6.2	152	697	605	585	77	391	6,640	2,750	12	3,050
2	60	6.4	175	713	595	484	87	405	6,740	2,130	23	1,980
3	22	7.0	203	698	632	422	105	480	6,740	1,790	159	2,160
4	16	8.0	222	709	642	393	118	853	7,080	1,510	2,300	1,760
5	8.6	9.5	242	732	831	400	96	1,010	6,870	1,290	5,700	1,150
6	3.2	9.7	251	775	889	481	82	1,500	6,490	1,340	11,500	844
7	2.8	10	244	934	976	552	83	1,330	5,640	1,170	2,100	750
8	2.7	14	273	975	972	559	86	811	6,790	870	800	659
9	2.2	14	273	930	921	620	62	543	6,990	710	590	496
10	2.5	15	318	1,000	917	526	78	460	7,230	587	525	1,220
11	2.6	29	346	810	926	546	171	363	7,450	322	514	655
12	12	26	377	720	793	512	179	335	7,580	268	510	356
13	21	32	386	734	662	394	174	494	7,550	290	434	276
14	24	31	425	737	650	344	198	1,220	7,800	254	814	153
15	26	26	462	791	697	287	187	1,540	7,400	162	985	100
16	19	28	488	851	661	268	134	1,630	6,930	129	711	77
17	13	30	505	674	712	263	92	2,330	7,020	126	598	57
18	8.5	31	532	630	614	221	65	2,650	7,050	137	1,050	36
19	6.9	33	561	727	575	713	40	4,470	6,650	131	690	90
20	5.6	26	592	797	518	878	167	4,970	6,490	131	528	155
21	4.5	32	616	*725	477	499	1,170	4,670	6,540	205	781	182
22	5.7	33	659	*569	454	379	879	5,490	5,300	516	6,480	234
23	7.1	30	652	*622	444	290	1,060	7,190	4,450	387	2,980	429
24	8.3	41	656	683	474	227	1,190	6,780	4,510	314	1,040	543
25	7.3	82	629	632	505	196	1,020	5,400	4,460	188	705	699
26	6.5	112	618	543	763	201	953	4,700	4,410	105	862	767
27	5.7	122	608	666	1,040	161	801	5,100	4,380	65	725	1,410
28	5.5	145	613	*714	780	124	628	6,020	4,610	50	781	2,930
29	5.5	152	635	*630	-	102	485	6,070	4,120	24	1,120	5,800
30	5.5	140	627	*612	-	83	354	6,110	3,560	9.3	3,320	3,570
31	6.0	-	660	*611	-	74	-	6,290	-	.9	4,970	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	434.4	108	2.2	14.0	862
November	1,285.8	152	6.2	42.9	2,550
December	14,000	660	152	452	27,770
Calendar year 1934	123,210.6	7,210	0	338	244,400
January	22,641	1,000	543	730	44,910
February	19,725	1,040	444	704	39,120
March	11,784	878	74	380	23,370
April	10,821	1,190	40	361	21,460
May	91,585	7,190	335	2,954	181,700
June	185,470	7,800	3,560	6,182	367,900
July	17,961.2	2,750	.9	579	35,630
August	54,307	11,500	12	1,752	107,700
September	32,588	5,800	36	1,086	64,640
Water year 1934-35	462,602.4	11,500	.9	1,267	917,600

*Partly estimated.

124026 O—37——8

Rio Grande below Elephant Butte Dam, N. Mex.

Location.- Water-stage recorder, lat. 33°9', long. 107°11', in Pedro Armendaris Grant, 300 feet below Elephant Butte Dam, in sec. 25, T. 13 S., R. 4 W. (Surveys by U. S. Bureau of Reclamation).

Records available.- October 1916 to September 1935 in reports of U. S. Geological Survey; January 1926 to December 1931 in reports of State engineer.

Average discharge.- 19 years, 1,183 second-feet.

Extremes.- Maximum mean daily discharge during year, 2,330 second-feet Aug. 3 (gage height, 6.42 feet); minimum mean daily discharge, 2.6 second-feet Oct. 12.
1916-35: Maximum mean daily discharge, 3,200 second-feet July 29 to Aug. 3, 1917; no flow at times.

Remarks.- Records good. Considerable water is diverted above station, amount not known. Flow controlled by Elephant Butte Dam, which forms a reservoir that had a capacity of 2,638,000 acre-feet when constructed. Records furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	274	7.3	6.4	6.5	7.2	1,330	1,300	1,530	2,110	2,180	837
2	3.7	276	7.5	6.7	6.9	7.2	1,300	1,230	1,570	1,620	2,210	570
3	4.8	274	6.2	7.2	6.6	6.5	1,390	1,130	1,570	1,920	2,330	9.8
4	3.6	274	6.8	7.3	6.4	6.7	1,390	931	1,610	2,110	2,230	9.5
5	3.8	274	6.3	6.6	7.1	6.4	1,390	909	1,720	1,940	1,970	19
6	9.2	274	6.5	5.9	6.6	6.6	1,530	945	1,720	1,860	2,010	174
7	4.4	276	6.1	6.4	6.5	6.5	1,660	994	1,880	1,660	2,160	11
8	3.8	208	6.0	6.5	7.1	6.4	1,660	918	1,920	1,860	2,160	102
9	7.6	140	6.6	6.1	6.7	6.6	1,650	918	1,920	1,880	2,190	235
10	3.2	146	7.2	5.7	7.1	158	1,510	1,090	1,870	1,880	2,020	552
11	2.7	146	7.2	6.4	6.4	459	1,300	1,360	1,800	1,980	1,950	659
12	2.6	146	7.1	6.7	6.1	440	1,260	1,340	1,530	2,060	1,860	699
13	3.1	146	7.5	6.4	5.1	503	1,310	1,330	1,530	2,130	1,710	895
14	3.4	147	7.5	7.1	72	503	1,180	1,340	1,570	2,220	1,660	1,100
15	2.8	51	7.1	7.5	415	533	990	1,300	1,660	2,200	1,660	1,100
16	3.2	66	6.6	7.6	412	699	1,090	1,410	1,690	2,140	1,720	1,160
17	3.1	57	6.4	6.7	412	770	1,290	1,260	1,690	2,110	1,830	1,370
18	3.2	7.6	7.3	6.4	418	770	1,270	1,070	1,770	2,140	1,990	1,320
19	2.7	7.6	7.3	7.2	412	987	1,310	1,180	1,910	2,170	1,680	1,320
20	2.9	7.6	6.7	6.9	416	1,220	1,380	1,220	2,010	2,150	1,750	1,350
21	3.2	7.1	7.2	6.5	418	1,210	1,380	1,220	2,110	2,150	1,860	1,380
22	3.2	7.0	58	6.3	418	1,160	1,380	1,280	2,110	2,150	1,860	1,380
23	2.9	6.9	210	5.2	321	1,250	1,560	1,410	2,110	2,190	1,880	1,290
24	3.0	7.0	193	6.6	225	1,350	1,690	1,530	2,110	2,250	1,900	688
25	2.9	7.0	103	6.3	142	1,340	1,640	1,590	2,110	2,250	1,900	953
26	3.3	7.2	7.5	5.9	6.8	1,400	1,580	1,610	2,180	2,190	1,900	908
27	3.0	7.0	7.1	6.5	6.8	1,390	1,540	1,540	2,180	2,190	1,930	850
28	3.2	6.7	7.3	6.9	6.9	1,400	1,540	1,550	2,110	2,190	1,970	728
29	4.7	6.6	7.3	6.8	-	1,400	1,540	1,560	2,110	2,160	1,960	732
30	3.2	7.0	6.8	6.6	-	1,400	1,520	1,560	2,110	2,130	1,380	732
31	144	-	6.4	6.5	-	1,400	-	1,560	-	2,180	986	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	255.0	144	2.6	8.23	506
November	3,267.3	276	6.6	109	6,480
December	750.6	210	6.0	24.2	1,490
Calendar year 1934	405,171.4	2,550	2.4	1,110	803,800
January	203.8	7.6	5.2	6.57	404
February	4,188.0	418	5.1	150	8,310
March	21,802.1	1,400	6.4	703	43,240
April	42,560	1,690	990	1,419	84,420
May	39,585	1,610	909	1,277	78,520
June	55,710	2,180	1,530	1,857	110,500
July	64,370	2,250	1,620	2,076	127,700
August	58,796	2,330	986	1,897	116,600
September	23,133.3	1,380	9.5	771	45,880
Water year 1934-35	314,621.3	2,330	2.6	862	624,000

Clear Creek below Continental Reservoir, Colo.

Location.- Water-stage recorder, lat. 37°53', long. 107°11', in sec. 22, T. 42 N., R. 3 W., 15 miles west of Creede.

Drainage area.- 49 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; May 1929 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 233 second-feet June 8 (gage height, 3.04 feet); no flow June 22, 23.
1929-35: Maximum discharge, 246 second-feet June 2, 1933 (gage height, 3.14 feet); no flow June 22, 23, 1935.

Remarks.- Records excellent except those for Oct. 1 to Apr. 14, July 5, 6, Aug. 25-31, which were estimated on basis of reservoir operation above and are fair. Discharge determined by formula for 10-foot Parshall flume. Flow regulated by Continental Reservoir, 1,000 feet above station (capacity, 26,700 acre-feet).

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

0.0	0	1.0	39	2.0	119
.2	3	1.2	53	2.2	139
.4	9	1.4	67	2.4	160
.6	17	1.6	83	2.6	182
.8	27	1.8	101	3.0	228

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							8	39	126	26	47	26
2							8	36	105	26	45	17
3							8	35	104	26	45	17
4							8	26	170	26	45	14
5							8	20	215	24	45	12
6							8	22	195	24	49	9
7							8	22	176	22	46	12
8							8	61	216	22	21	16
9							8	77	11	22	21	18
10							8	71	11	24	34	12
11							8	125	11	22	39	9
12							8	118	8	23	40	9
13							8	50	8	23	54	9
14							8	42	4	30	55	10
15							8	52	4	42	36	14
16							10	66	6	37	31	24
17							17	63	6	34	34	20
18							16	51	6	31	33	20
19							20	37	7	30	33	20
20							24	46	6	29	33	18
21							23	42	1	28	33	17
22							23	45	0	27	33	17
23							26	53	0	26	31	17
24							31	72	1	26	33	18
25							28	125	39	26	30	18
26							28	185	54	26	30	15
27							31	173	33	27	30	35
28							34	152	23	28	30	38
29							38	138	26	57	30	37
30							39	142	26	82	30	34
31							-	143	-	54	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	248	-	-	8	492
November	240	-	-	8	476
December	248	-	-	8	492
Calendar year 1934	6,574	154	5	18.0	13,030
January	248	-	-	8	492
February	224	-	-	8	444
March	248	-	-	8	492
April	508	39	8	16.9	1,010
May	2,329	185	20	75.1	4,620
June	1,598	216	0	53.3	3,170
July	948	82	22	30.6	1,880
August	1,124	55	21	36.3	2,230
September	552	38	9	18.4	1,090
Water year 1934-35	8,515	216	0	23.3	16,890

Rock Creek near Monte Vista, Colo.

Location.- Water-stage recorder, lat. 37°29', long. 106°16', in SE¼SE¼ sec. 36, T. 38 N., R. 6 E., 3 miles below North Fork and 9 miles southwest of Monte Vista. April 1919 to September 1924 water-stage recorder 1½ miles downstream; records comparable.

Drainage area.- 33.6 square miles.

Records available.- May to September 1935 in reports of U. S. Geological Survey; April 1919 to September 1924, May to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during period, 156 second-feet Aug. 11 (gage height, 2.65 feet); minimum mean daily discharge, 4.1 second-feet Sept. 19, 20, 23.

Remarks.- Records excellent except those estimated May 1-22, which are fair. Discharge determined from formula for 8-foot Parshall flume. Diversions for irrigation above station.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

0.3	4.6	1.6	68
.4	7.3	1.8	83
.6	14	2.0	97
.8	22	2.2	114
1.0	32	2.4	131
1.2	43	2.6	148
1.4	55	2.7	165

Discharge, in second feet, period May to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									58	26	18	9.2
2									53	27	15	9.5
3								40	46	26	14	9.2
4									45	23	15	8.2
5									59	21	17	7.3
6									66	19	15	7.0
7									74	18	16	8.6
8								45	79	17	14	9.5
9									83	16	15	7.9
10									76	16	14	7.0
11									69	14	17	6.5
12									62	15	14	5.4
13								48	64	13	13	4.9
14									67	14	13	4.9
15									79	13	13	4.9
16									65	11	14	4.6
17									55	11	14	4.6
18								50	51	15	13	4.6
19									53	15	9.2	4.1
20									58	15	8.9	4.1
21								50	55	15	10	4.6
22								50	50	14	11	4.6
23								51	47	13	9.8	4.1
24								63	44	11	9.5	4.3
25								67	40	10	9.2	6.5
26								71	37	12	9.2	6.5
27								72	36	13	9.5	6.5
28								67	36	11	8.9	5.9
29								65	32	9.8	8.2	5.4
30								65	28	16	8.9	4.6
31								59	-	23	9.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	1,595	72	-	51.4	3,160
June	1,665	83	28	55.5	3,300
July	492.8	27	9.8	15.9	977
August	385.5	18	8.2	12.4	765
September	185.0	9.5	4.1	6.17	367
The period					8,570

Saguache Creek near Saguache, Colo.

Location.- Water-stage recorder, lat. 38°9', long. 106°19', in sec. 11 (revised), T. 45 N., R. 6 E., 10 miles west of Saguache.

Drainage area.- 595 square miles.

Records available.- August 1910 to September 1912, October 1933 to September 1935 in reports of U. S. Geological Survey; August 1910 to September 1912, June 1914 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 452 second-feet June 12 (gage height, 2.42 feet); minimum probably occurred during period of no record.
1910-12, 1914-35: Maximum discharge, 746 second-feet June 15, 1921 (gage height, 3.45 feet, former datum); minimum mean daily discharge, 14 second-feet Oct. 1, 2, 1933.

Remarks.- Records good except those estimated for Nov. 26-30, Mar. 1-17, Apr. 29 to May 4. No records Dec. 1 to Feb. 28. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	23				20	29	40	139	122	158	65
2	27	27				20	33	40	133	116	160	60
3	26	19				20	36	45	148	120	96	52
4	25	25				20	39	55	163	106	175	44
5	23	30				20	37	57	189	86	98	41
6	23	25				25	35	57	212	82	81	40
7	23	25				25	27	40	233	116	86	54
8	23	23				25	35	40	257	131	88	74
9	22	23				25	32	46	273	158	81	65
10	22	25				25	27	50	317	156	102	53
11	22	24				30	38	52	363	153	92	41
12	22	25				30	33	52	389	128	81	35
13	23	23				30	31	76	320	98	81	34
14	25	23				30	37	78	311	108	71	33
15	26	19				30	48	61	372	128	64	32
16	23	19				35	49	54	342	128	55	32
17	22	25				35	44	68	320	128	55	31
18	23	24				37	38	114	220	151	48	31
19	22	19				34	34	90	204	108	42	31
20	22	19				33	37	81	199	98	41	30
21	20	21				26	49	79	199	163	41	26
22	22	19				25	53	71	189	146	40	26
23	23	22				26	50	79	177	124	58	29
24	23	24				29	43	96	168	102	79	27
25	25	23				32	46	126	153	92	88	39
26	24	22				29	40	135	142	84	78	70
27	23	22				28	40	126	131	78	70	78
28	22	22				23	39	133	126	71	61	60
29	22	22				24	40	126	122	102	52	52
30	20	23				26	40	137	131	156	48	47
31	21	-				39	-	148	-	158	55	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	717	28	20	23.1	1,420
November	685	30	19	22.8	1,360
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	856	39	20	27.6	1,700
April	1,159	53	27	38.6	2,300
May	2,452	148	40	79.1	4,860
June	6,642	389	122	221	13,170
July	3,697	163	71	119	7,330
August	2,425	175	40	78.2	4,810
September	1,332	78	26	44.4	2,640
Water year					

Carnero Creek near La Garita, Colo.

Location.- Water-stage recorder, lat. 37°52', long. 106°20', in sec. 26, T. 42 N., R. 6 E., 3 miles northwest of La Garita.

Drainage area.- 117 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; April 1919 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 315 second-feet Aug. 25 (gage height, 2.10 feet); minimum mean daily discharge, 1 second-foot Sept. 21-24.
1919-35: Maximum mean daily discharge, 500 second-feet Apr. 14, 1924; minimum mean daily discharge, 1 second-foot July 8-10, 13-22, Aug. 1-8, 1934, Sept. 21-24, 1935.

Remarks.- Records fair. Discharge estimated Oct. 1-6, Apr. 4-10. No records Nov. 1 to Mar. 24. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2					-	14	13	47	15	18	10
2	2					-	12	10	56	15	15	8
3	2					-	14	11	56	15	15	8
4	2					-	14	14	56	15	12	5
5	2					-	10	14	56	12	15	e
6	2					-	8	16	56	12	12	5
7	2					-	6	16	56	10	12	8
8	2					-	6	23	56	12	12	10
9	2					-	6	23	47	18	12	8
10	2					-	6	20	47	24	10	5
11	2					-	4	20	42	32	10	5
12	2					-	6	20	42	28	10	5
13	2					-	9	24	36	21	10	4
14	2					-	12	24	42	21	10	4
15	2					-	14	24	42	21	10	4
16	5					-	17	27	42	18	8	4
17	5					-	17	31	42	18	8	4
18	4					-	14	42	42	42	8	2
19	4					-	12	42	32	32	8	2
20	4					-	14	47	32	36	5	2
21	4					-	14	47	24	32	5	1
22	4					-	14	56	21	32	e	1
23	4					-	15	56	21	24	12	1
24	4					-	15	64	21	24	18	1
25	4					11	10	76	18	24	24	2
26	4					11	10	76	18	21	24	8
27	4					11	10	76	18	21	15	5
28	4					11	10	64	18	15	18	4
29	4					11	13	56	18	15	10	5
30	4					11	13	47	15	15	12	5
31	4					11	-	47	-	18	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	96	5	2	3.1	190
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 25-31	77	11	11	11	153
April	339	17	4	11.3	672
May	1,126	76	10	36.3	2,230
June	1,119	56	15	37.3	2,220
July	658	42	10	21.2	1,310
August	376	24	5	12.1	746
September	144	10	1	4.8	286
Water year					

La Garita Creek near La Garita, Colo.

Location.- Water-stage recorder, lat. 37°49', long. 106°18', in sec. 10, T. 41 N., R. 6 E., 3¾ miles southwest of La Garita. Gage moved a quarter of a mile upstream Nov. 14, 1934, and set to independent datum.

Drainage area.- 61 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; April 1919 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 75 second-feet Aug. 30 (gage height, 2.03 feet); minimum mean daily discharge, 2 second-feet Oct. 21, 22.
1919-35: Maximum mean daily discharge, 316 second-feet May 10, 1924; minimum mean daily discharge, 2 second-feet Oct. 19-21, 1926, Apr. 18, 1927, Oct. 21, 22, 1934.

Remarks.- Records fair. Discharge estimated Oct. 1-7, Apr. 1-11. No records Nov. 1 to Mar. 31. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3						6	11	51	27	15	12
2	3						6	10	52	27	12	8
3	3						6	11	57	25	11	8
4	3						8	12	61	23	11	8
5	3						6	10	60	21	12	9
6	3						8	11	58	20	11	8
7	3						8	14	52	19	16	9
8	3						8	17	49	18	11	12
9	3						8	20	51	23	11	12
10	3						8	19	64	19	12	8
11	3						8	27	66	20	11	7
12	3						8	32	63	18	11	8
13	3						9	32	62	19	9	7
14	3						9	25	64	22	8	6
15	3						22	28	66	15	7	6
16	3						16	24	65	13	7	6
17	3						14	27	56	14	7	6
18	3						11	29	52	25	7	6
19	3						11	29	48	18	6	6
20	3						19	30	47	18	6	6
21	2						17	30	43	18	6	6
22	2						17	33	41	24	6	6
23	3						23	38	39	20	7	6
24	3						18	49	36	20	6	6
25	3						11	57	33	19	6	7
26	3						11	58	32	14	14	12
27	3						11	61	30	13	10	10
28	3						12	58	29	13	9	8
29	3						10	56	29	13	8	6
30	3						12	54	28	14	12	7
31	3						-	52	-	18	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	91	3	2	2.9	180
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	339	23	6	11.3	672
May	962	61	10	31.0	1,910
June	1,484	66	28	49.6	2,940
July	690	27	13	19.0	1,170
August	293	16	6	9.6	581
September	232	12	6	7.7	460
Water year					

Alamosa Creek above Terrace Reservoir, Colo.

(Formerly Alamosa Creek near Monte Vista, Colo.)

Location.- Water-stage recorder, lat. 37°23', long. 106°21' in sec. 8, T. 36 N., R. 6 E., 3 miles above Terrace Reservoir Dam and 15 miles northwest of Capulin.

Drainage area.- 107 square miles.

Records available.- September 1911 to June 1912, October 1934 to September 1935 in reports of U. S. Geological Survey; April 1914 to October 1919, October 1923 to September 1927, October 1934 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 2,400 second-feet June 15 (gage height, 4.20 feet); minimum occurred during period of no record.

Remarks.- Records good except those estimated Nov. 23-30. No record Dec. 1 to Mar. 31. No regulation or diversions.

Rating table, June 16 to Sept. 30, 1935 (gage height, in feet, and discharge, in second-feet)

0.7	20	1.4	78	2.2	304	3.0	810
.8	22	1.6	118	2.4	392	3.2	1,010
1.0	30	1.8	169	2.6	500	3.4	1,240
1.2	48	2.0	232	2.8	640	3.6	1,530

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	12					39	94	352	566	200	62
2	22	12					45	84	400	566	169	62
3	22	11					50	75	512	533	142	55
4	20	11					50	67	656	500	130	55
5	18	11					43	67	736	442	156	48
6	18	11					37	75	874	417	169	43
7	18	11					31	84	976	442	249	43
8	18	11					35	105	1,080	417	200	62
9	18	12					27	116	1,330	392	184	48
10	18	12					27	156	1,550	392	142	43
11	18	12					27	202	1,140	369	142	38
12	18	12					27	202	874	392	156	38
13	18	12					31	219	922	325	130	34
14	18	12					46	202	1,080	346	118	34
15	18	12					75	186	1,480	346	108	30
16	18	12					94	186	1,310	266	88	30
17	16	12					84	186	1,010	285	88	30
18	16	12					75	186	1,060	304	78	30
19	16	12					75	170	1,060	285	70	30
20	14	12					94	170	1,120	266	70	30
21	14	12					94	170	1,180	266	62	30
22	14	12					116	170	1,060	266	62	30
23	14	12					116	219	1,010	266	70	30
24	12	12					105	272	1,010	232	62	28
25	12	12					94	310	860	216	55	30
26	12	12					84	376	810	200	62	43
27	12	12					84	400	860	200	78	43
28	12	12					84	426	720	184	62	43
29	12	12					94	400	640	169	70	43
30	12	12					105	452	566	200	70	38
31	12	-					-	426	-	200	70	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	502	22	12	16.2	996
November	354	12	11	11.8	702
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	1,988	116	27	66.3	3,940
May	6,453	452	67	208	12,800
June	28,238	1,550	352	941	56,010
July	10,250	566	169	331	20,330
August	3,512	249	55	113	6,970
September	1,203	62	28	40.1	2,390
Water year					

Alamosa Creek below Terrace Reservoir, Colo.

Location.- Water-stage recorder, lat. 37°21', long. 106°17', in sec. 23, T. 36 N., R. 6 E., half a mile below Terrace Reservoir and 11 miles northwest of Capulin.

Drainage area.- 116 square miles (revised).

Records available.- April 1909 to June 1912, October 1933 to September 1935 in reports of U. S. Geological Survey; April 1909 to November 1912, April to October 1915, February 1917 to October 1920, April 1922 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,330 second-feet June 24 (gage height, 4.99 feet); minimum mean daily discharge, 6 second-feet Nov. 20 to Dec. 31 (estimated). 1909-12, 1915, 1917-20, 1922-35: Maximum mean daily discharge, 1,450 second-feet June 16-18, 1917; minimum mean daily discharge, 4 second-feet July 10, 1934.

Remarks.- Records excellent Mar. 30 to June 30, good July 1 to Sept. 30, and fair Oct. 1 to Mar. 29, when discharge was estimated on basis of records of reservoir operation half a mile upstream. No diversions above station. Flow regulated by Terrace Reservoir, capacity, 17,700 acre-feet.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used July 18 to Sept. 30)

1.2	14	2.6	268
1.4	24	2.8	334
1.6	41	3.0	404
1.8	67	3.5	602
2.0	103	4.0	828
2.2	151	4.5	1,070
2.4	206	5.0	1,340

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	12	6	7	8	9	22	93	382	455	281	95
2	25	12	6	7	8	9	27	93	379	459	278	101
3	25	12	6	7	8	9	40	93	379	459	274	107
4	25	12	6	7	8	9	51	69	382	463	249	107
5	23	12	6	7	8	10	52	75	393	426	233	107
6	22	12	6	7	8	10	53	75	418	397	230	97
7	21	12	6	7	8	10	36	77	440	397	227	85
8	21	12	6	7	8	11	26	77	459	397	236	85
9	21	12	6	7	8	11	25	107	494	397	239	73
10	21	12	6	7	9	11	25	121	531	397	242	52
11	21	12	6	7	9	12	26	136	611	397	236	49
12	21	12	6	7	9	12	30	215	642	379	236	49
13	21	12	6	7	9	12	34	236	659	351	236	49
14	21	12	6	7	9	15	53	236	672	334	236	49
15	21	12	6	7	9	25	78	236	681	314	212	49
16	20	12	6	7	9	25	101	230	699	310	206	49
17	20	11	6	7	9	25	118	227	708	310	200	49
18	18	11	6	7	9	22	116	198	718	307	170	49
19	18	11	6	7	9	22	114	186	722	307	136	49
20	18	6	6	7	9	22	116	195	736	307	138	49
21	16	6	6	8	9	22	116	195	750	314	146	49
22	16	6	6	8	9	22	114	195	777	307	151	49
23	14	6	6	8	9	22	123	195	857	278	148	46
24	12	6	6	8	9	22	125	215	1,180	278	159	38
25	12	6	6	8	9	22	125	262	1,020	278	138	36
26	12	6	6	8	9	22	125	290	866	274	148	36
27	12	6	6	8	9	22	107	317	750	246	151	36
28	11	6	6	8	9	22	93	337	750	230	151	36
29	11	6	6	8	-	22	93	372	777	227	135	36
30	11	6	6	8	-	22	93	386	490	227	130	36
31	11	-	6	8	-	22	-	393	-	252	101	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	566	25	11	18.3	1,120
November	291	12	6	9.7	577
December	186	6	6	6.0	369
Calendar year 1934	18,202	488	4	49.9	36,020
January	228	8	7	7.4	452
February	243	9	8	8.7	482
March	533	25	9	17.2	1,060
April	2,257	125	22	75.2	4,480
May	6,202	393	75	200	12,300
June	19,322	1,160	379	644	38,320
July	10,474	463	227	338	20,770
August	6,055	281	101	195	12,010
September	1,797	107	36	59.9	3,560
Water year 1934-35	48,154	1,180	6	132	95,500

La Jara Creek near Capulin, Colo.

Location.- Water-stage recorder, lat. 37°11', long. 106°12', in sec. 21, T. 34 N., R. 7 E., 9 miles southwest of Capulin and about 15 miles below La Jara Reservoir. Prior to 1924 station located 2 miles upstream.

Drainage area.- 73 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; April 1916 to November 1917, April 1919 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 111 second-feet Sept. 1 (gage height, 1.68 feet); minimum mean daily discharge, 2 second-feet June 25-29, July 1, 2, 5, 6, Aug. 13-15.

1916-17, 1919-35: Maximum discharge, 653 second-feet Apr. 22, 1919 (gage height, 3.22 feet); minimum mean daily discharge, 1 second-foot July 1, 3-10, Aug. 1-4, 28, 1934.

Remarks.- Records good except those estimated, which are fair. No records Jan. 1 to Mar. 31. Small diversions for irrigation above station. Flow regulated by La Jara Reservoir, capacity, 14,040 acre-feet.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Oct. 1 to Dec. 23)

0.5	2	1.2	37
.6	4	1.4	61
.8	10	1.6	95
1.0	21	1.8	135

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	*4	6				*9	46	74	2	5	12
2	3	*4	4				*9	40	74	2	4	9
3	3	*4	4				*9	31	74	3	4	8
4	3	4	4				*9	27	66	3	4	6
5	*3	*4	4				*9	46	58	2	4	5
6	*3	*4	4				*9	58	52	2	3	5
7	*4	*4	4				9	82	40	3	3	8
8	*4	*4	4				9	91	31	4	3	5
9	*4	4	4				9	66	31	5	3	5
10	*5	*4	4				8	66	23	4	3	5
11	*5	*4	4				8	82	23	4	3	5
12	6	*4	4				8	82	20	4	3	5
13	*6	*4	4				14	91	17	4	2	5
14	*6	*4	4				27	101	17	5	2	5
15	*6	*4	4				35	74	17	6	2	5
16	*6	*4	4				*30	74	14	5	3	4
17	4	*4	4				*30	82	12	4	4	3
18	*4	*4	4				*30	91	9	4	4	3
19	*4	*4	4				27	91	9	5	3	3
20	*4	*4	4				52	82	9	5	3	3
21	*4	*4	4				40	74	8	8	3	3
22	*4	*4	4				46	66	8	8	5	3
23	*4	4	4				46	52	6	5	6	4
24	*4	*4	*4				46	46	5	5	6	4
25	*4	*4	*4				46	58	2	4	6	5
26	4	4	*4				40	66	2	3	5	6
27	*4	4	*4				40	66	2	3	5	6
28	*4	4	*4				40	66	2	4	5	6
29	*4	4	*4				46	66	2	4	8	5
30	*4	4	*4				52	91	3	4	8	5
31	*4	-	*4				-	91	-	5	8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	130	6	3	4.2	258
November	120	4	4	4.0	238
December	126	6	4	4.1	250
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	792	52	8	26.4	1,570
May	2,145	101	27	69.2	4,250
June	710	74	2	23.7	1,410
July	129	8	2	4.2	256
August	132	8	2	4.3	262
September	156	12	3	5.2	309
Water year					

*Estimated.

Trinchera Creek above Turners ranch, near Fort Garland, Colo.

Location.- Water-stage recorder, lat. 37°22', long. 105°19', in sec. 2, T. 31 S., R. 71 W., above Turners ranch and 7 miles southeast of Fort Garland.

Drainage area.- 45 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; April 1923 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 178 second-feet June 10 (gage height, 2.02 feet); minimum occurred during winter.
1923-35: Maximum discharge, 318 second-feet May 23, 1926 (gage height, 2.54 feet); minimum occurred during winter.

Remarks.- Records good except those estimated for Mar. 1-26, 28-31, which are fair. No record Nov. 1 to Feb. 28. No diversions or regulation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9					8	13	16	122	64	28	15
2	9					8	11	16	122	57	28	15
3	9					8	11	13	132	57	24	15
4	9					8	11	13	142	57	24	15
5	9					8	11	13	142	50	28	15
6	9					7	11	13	152	50	24	15
7	9					7	11	13	163	50	24	12
8	9					7	11	16	163	50	24	12
9	9					7	11	16	174	44	24	12
10	9					7	9	19	174	44	24	12
11	9					7	9	19	174	38	19	12
12	9					7	9	28	163	38	24	12
13	9					7	9	28	163	38	19	12
14	9					7	11	28	174	33	19	12
15	9					7	13	28	163	33	19	12
16	9					8	13	33	152	33	19	12
17	9					8	16	38	142	33	15	12
18	9					8	16	38	122	33	15	12
19	9					8	16	38	122	33	15	12
20	8					8	16	38	113	33	18	12
21	8					9	16	38	113	33	18	12
22	8					9	16	38	113	33	18	12
23	9					9	19	50	104	33	18	12
24	8					9	19	64	96	33	15	12
25	8					9	19	88	96	33	15	12
26	9					9	16	96	88	33	15	15
27	8					9	16	96	80	28	15	18
28	8					9	16	104	80	28	15	18
29	8					9	16	104	72	28	18	15
30	8					9	16	113	64	28	15	15
31	8					9	-	122	-	28	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	269	9	8	8.7	534
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	249	9	7	8.0	494
April	407	19	9	13.6	807
May	1,377	122	13	44.4	2,730
June	3,880	174	64	129	7,700
July	1,206	64	28	38.9	2,390
August	611	28	15	19.7	1,210
September	399	18	12	13.3	791
Water year					

Trinchera Creek above Mountain Home Reservoir, near Fort Garland, Colo.

Location.- Water-stage recorder, lat. 37°24', long. 105°32', in sec. 31, T. 30 S., R. 71 W., 4 miles southeast of Fort Garland.

Drainage area.- 61 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; May 1923 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 130 second-feet June 6 (gage height, 1.48 feet); minimum probably occurred during winter.
1923-35: Maximum discharge, 385 second-feet May 24, 1926 (gage height, 1.84 feet); minimum probably occurred during winter.

Remarks.- Records good above 10 second-feet and fair below. No records Nov. 1 to Mar. 26. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10					-	1	13	89	46	25	14
2	10					-	1	12	86	44	25	14
3	10					-	3	12	92	41	25	14
4	10					-	3	12	102	38	24	14
5	10					-	4	10	110	36	26	12
6	10					-	4	11	122	36	24	12
7	10					-	3	11	117	36	24	12
8	10					-	4	12	125	35	22	13
9	10					-	5	12	118	35	22	12
10	10					-	5	14	111	32	22	12
11	10					-	2	16	106	31	21	12
12	10					-	1	20	99	34	23	11
13	10					-	1	20	98	41	20	10
14	10					-	1	21	106	33	19	10
15	10					-	2	19	112	32	17	10
16	10					-	8	14	125	31	16	10
17	11					-	12	19	114	30	17	9
18	10					-	11	21	106	32	16	10
19	10					-	10	22	105	29	15	9
20	11					-	10	23	99	32	15	10
21	11					-	10	21	94	38	19	10
22	10					-	12	21	93	32	16	10
23	5					-	12	24	83	31	17	10
24	4					-	14	35	62	26	18	10
25	2					-	14	44	68	24	-16	12
26	1					-	12	54	66	24	16	16
27	1					3	12	63	63	24	16	21
28	1					3	12	67	59	23	16	17
29	1					2	12	74	56	21	16	16
30	1					2	13	78	51	22	14	16
31	1					1	-	89	-	26	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	240	11	1	7.7	476
November	-	-	-	-	-
December	-	-			
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	11	3	1	2.2	22
April	214	14	1	7.1	424
May	884	89	10	28.5	1,750
June	2,837	125	51	94.6	5,630
July	995	46	21	32.1	1,970
August	598	26	14	19.3	1,190
September	368	21	9	12.3	730
Water year					

Trinchera Creek below Smith Reservoir, near Blanca, Colo.

Location.- Water-stage recorder, lat. 37°23', long. 105°35', in sec. 5, T. 31 S., R. 73 W., 1 mile below Smith Reservoir and 5 miles southwest of Blanca.

Drainage area.- 396 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; October 1929 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 66 second-feet June 15 (gage height, 1.88 feet); minimum mean daily discharge, 0.5 second-foot Jan. 1 to Mar. 20.
1929-35: Maximum discharge, 164 second-feet May 15, 1932 (gage height, 2.90 feet); minimum mean daily discharge, that for Jan. 1 to Mar. 20, 1935.

Remarks.- Records fair. Diversions for irrigation above station. Flow regulated by Smith Reservoir (capacity, 5,335 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1	1	1	0.5	0.5	0.5	0.6	6	10	10	11	10
2	1	1	1	.5	.5	.5	.6	6	10	11	11	4
3	1	1	1	.5	.5	.5	.6	5	14	11	11	2
4	1	1	1	.5	.5	.5	.6	6	18	10	11	2
5	1	1	1	.5	.5	.5	.6	5	21	10	11	2
6	1	1	1	.5	.5	.5	.6	5	27	10	10	2
7	1	1	1	.5	.5	.5	.6	5	27	10	10	2
8	1	1	1	.5	.5	.5	.6	6	31	9	12	2
9	1	1	1	.5	.5	.5	.6	5	31	5	12	1
10	1	1	1	.5	.5	.5	.6	5	34	3	12	1
11	1	1	1	.5	.5	.5	.6	7	35	3	11	2
12	1	1	1	.5	.5	.5	.6	7	38	3	11	2
13	1	1	1	.5	.5	.5	.6	8	42	3	11	2
14	1	1	1	.5	.5	.5	.6	8	53	2	11	2
15	1	1	1	.5	.5	.5	1	9	61	2	11	2
16	1	1	1	.5	.5	.5	5	8	62	2	11	2
17	1	1	1	.5	.5	.5	5	8	57	2	11	2
18	1	1	1	.5	.5	.5	5	9	43	2	11	2
19	1	1	1	.5	.5	.5	5	9	30	1	10	2
20	1	1	1	.5	.5	.5	6	7	24	2	11	2
21	1	1	1	.5	.5	.6	5	8	18	2	11	2
22	1	1	1	.5	.5	.6	5	9	13	1	10	2
23	1	1	1	.5	.5	.6	5	10	12	1	10	2
24	1	1	1	.5	.5	.6	5	10	10	1	11	2
25	1	1	1	.5	.5	.6	5	11	10	1	10	2
26	1	1	1	.5	.5	.6	5	10	11	1	10	1
27	1	1	1	.5	.5	.6	6	10	11	2	10	2
28	1	1	1	.5	.5	.6	6	10	11	10	10	1
29	1	1	1	.5	-	.6	5	11	11	10	10	1
30	1	1	1	.5	-	.6	6	10	11	10	11	1
31	1	-	1	.5	-	.6	-	10	-	11	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	1	1	1.00	61
November	30	1	1	1.00	60
December	31	1	1	1.00	61
Calendar year 1934	2,754	77	1	7.5	5,460
January	15.5	.5	.5	.50	31
February	14.0	.5	.5	.50	28
March	16.6	.6	.5	.54	33
April	88.4	6	.6	2.95	175
May	243	11	5	7.8	482
June	786	62	10	26.2	1,560
July	161	11	1	5.2	319
August	334	12	10	10.8	662
September	64	10	1	2.1	127
Water year 1934-35	1,814.5	62	.5	5.0	3,600

Sangre de Cristo Creek near Fort Garland, Colo.

Location.- Water-stage recorder, lat. 37°26', long. 105°24', in sec. 23, T. 30 S., R. 72 W., 1⅛ miles east of Fort Garland.

Drainage area.- 187 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; March to October 1916, May 1923 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 328 second-feet July 21 (gage height, 3.85 feet); no flow Oct. 1-22, Sept. 16-28.
1916, 1923-35: Maximum discharge, 377 second-feet May 14, 1924 (gage height, 4.20 feet); no flow at times during 1934-35.

Remarks.- Records good except those below 10 second-feet and those estimated for Oct. 23-31, Aug. 24, 25, which are fair. No records Nov. 1 to Mar. 31. Some diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0						5	31	104	12	4	10
2	0						7	28	97	12	5	11
3	0						9	27	88	12	7	11
4	0						10	25	82	10	22	11
5	0						12	26	78	8	40	10
6	0						10	34	73	e	24	9
7	0						e	39	69	e	18	8
8	0						9	39	63	e	12	7
9	0						11	39	54	8	14	7
10	0						e	38	51	8	14	7
11	0						8	38	50	8	11	6
12	0						e	39	58	8	11	4
13	0						e	39	54	8	10	3
14	0						9	43	47	8	8	3
15	0						10	39	45	e	7	1
16	0						13	39	37	e	4	0
17	0						15	74	34	8	4	0
18	0						15	106	33	9	4	0
19	0						12	114	33	8	3	0
20	0						22	114	31	10	2	0
21	0						22	104	29	39	3	0
22	0						25	113	20	39	3	0
23	1						26	128	29	14	2	0
24	1						29	156	22	9	1	0
25	1						27	172	21	7	1	0
26	1						25	170	19	6	8	0
27	1						22	156	16	7	16	0
28	1						22	144	16	4	32	0
29	1						23	133	16	4	14	8
30	1						29	119	14	4	12	6
31	1						-	110	-	3	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9	1	0	0.3	18
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	459	29	5	15.3	910
May	2,476	172	25	79.9	4,910
June	1,393	104	14	46.4	2,760
July	313	39	3	10.1	621
August	328	40	1	10.6	651
September	122	11	0	4.1	242
Water year					

Ute Creek near Fort Garland, Colo.

Location.- Water-stage recorder, lat. 37°26', long. 105°25', in sec. 2, T. 30 S., R. 72 W., 2½ miles north of Fort Garland.

Drainage area.- 32 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; March to October 1916, May 1923 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 265 second-feet June 13 (gage height, 2.52 feet); minimum occurred during period of no record.
1916, 1923-35: Maximum discharge, 313 second-feet July 22, 1930 (gage height, 2.38 feet); minimum daily discharge not determined.

Remarks.- Records good. No record Nov. 1 to Mar. 26. Some diversion for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11					-	9	11	51	54	49	24
2	10					-	10	11	51	49	41	23
3	10					-	12	12	55	54	33	23
4	9					-	7	18	63	53	59	22
5	6					-	9	18	73	35	77	18
6	5					-	9	15	88	36	55	15
7	4					-	8	14	101	40	40	15
8	4					-	9	15	119	49	32	18
9	5					-	10	18	139	44	38	19
10	7					-	8	19	162	44	40	18
11	8					-	9	20	173	40	32	16
12	8					-	9	22	180	46	28	14
13	8					-	10	25	204	75	25	12
14	8					-	10	21	217	54	23	12
15	6					-	14	19	210	58	17	12
16	7					-	13	17	181	43	9	12
17	7					-	12	48	121	41	9	12
18	6					-	11	44	104	43	8	10
19	5					-	10	39	112	36	12	9
20	5					-	12	38	110	46	15	8
21	5					-	12	32	114	68	18	8
22	4					-	13	33	119	59	15	8
23	4					-	14	31	112	80	14	8
24	6					-	15	32	101	54	16	8
25	4					-	14	35	86	41	15	10
26	4					-	12	38	80	38	16	13
27	4					7	11	43	68	36	24	23
28	4					7	10	45	64	32	57	21
29	4					8	10	46	69	29	30	22
30	4					10	11	48	61	31	25	19
31	4					11	-	53	-	29	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	186	11	4	6.0	369
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	43	11	7	8.6	85
April	323	15	7	10.8	641
May	880	53	11	28.4	1,750
June	3,388	217	51	113	6,720
July	1,437	80	29	46.4	2,850
August	897	77	8	28.9	1,780
September	452	24	8	15.1	897
Water year					

Conejos River near Mogote, Colo.

Location.- Water-stage recorder, lat. 37°3', long. 106°11', in sec. 34, T. 33 N., R. 7 E., 5⅞ miles northwest of Mogote.

Drainage area.- 282 square miles.

Records available.- September 1899 to March 1900, April 1903 to September 1913, October 1933 to September 1935 in reports of U. S. Geological Survey; September 1899 to March 1900, April 1903 to September 1935 in reports of State engineer.

Average discharge.- 33 years (1902-35), 382 second-feet.

Extremes.- Maximum discharge during year, 3,680 second-feet June 16 (gage height, 4.93 feet); minimum mean daily discharge, 23 second-feet Jan. 8 (estimated).
1899-1900, 1903-35: Maximum discharge, 6,000 second-feet (estimated) Oct. 5, 1911; minimum not determined.

Remarks.- Records excellent except those estimated for Nov. 26 to Mar. 19 on the basis of six discharge measurements and temperature records, which are good. No diversion or regulation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	43	37	26	37	44	129	324	1,180	1,600	439	252
2	76	48	36	24	39	44	163	306	1,280	1,600	476	271
3	73	39	31	24	40	47	183	295	1,540	1,500	385	212
4	68	44	32	25	41	36	195	266	1,760	1,470	336	190
5	65	44	35	27	42	39	187	255	1,900	1,340	412	172
6	62	45	36	28	46	36	163	301	2,110	1,250	419	156
7	60	48	36	27	45	41	145	337	2,260	1,260	392	150
8	57	48	36	23	45	40	159	428	2,330	1,280	366	229
9	55	48	36	27	38	33	134	513	2,520	1,180	419	190
10	55	48	35	29	43	50	106	625	2,700	1,120	366	166
11	55	48	36	26	44	45	106	748	2,880	1,060	330	150
12	55	48	32	31	37	49	113	814	2,360	1,040	432	137
13	57	48	33	26	40	55	134	739	2,420	990	372	127
14	56	45	33	29	41	69	187	712	2,700	874	330	118
15	54	44	33	31	43	94	283	634	3,100	1,080	276	112
16	51	44	32	32	37	89	343	550	3,170	778	248	106
17	51	47	27	25	44	89	337	659	2,490	714	229	102
18	51	48	32	27	45	108	312	712	2,400	778	205	99
19	50	45	28	32	46	96	277	712	2,430	874	186	95
20	49	43	27	38	45	69	355	664	2,550	769	172	91
21	48	40	29	34	50	76	361	617	2,710	769	160	88
22	47	38	28	28	46	76	400	625	2,710	788	153	86
23	45	38	25	36	44	70	421	658	2,360	677	216	84
24	44	40	24	33	47	66	434	930	2,480	600	176	86
25	44	40	25	33	44	63	343	1,060	2,250	544	166	102
26	44	39	24	38	60	75	283	1,270	2,100	490	172	122
27	44	37	24	38	49	88	295	1,350	2,130	476	238	172
28	44	44	27	38	44	93	306	1,370	2,060	426	271	160
29	44	42	26	40	-	111	361	1,350	1,660	426	201	156
30	43	48	24	40	-	131	394	1,490	1,710	405	248	140
31	43	-	25	37	-	156	-	1,370	-	468	234	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,672	82	43	53.9	3,320
November	1,321	48	37	44.0	2,620
December	944	37	24	30.5	1,870
Calendar year 1934	52,502	1,080	-	144	104,100
January	952	40	23	30.7	1,890
February	1,222	60	37	43.6	2,420
March	2,178	156	33	70.3	4,320
April	7,611	434	106	254	15,100
May	22,824	1,490	255	736	45,270
June	68,250	3,170	1,180	2,275	135,400
July	28,626	1,600	405	923	56,780
August	9,025	476	153	291	17,900
September	4,321	271	84	144	8,570
Water year 1934-35	148,946	3,170	-	408	295,500

Conejos River near La Sauses, Colo.

Location.- Two water-stage recorders, lat. 37°23', long. 105°45', in sec. 2, T. 35 N., R. 11 E., 2 miles north of La Sauses and half a mile above mouth.

Drainage area.- 887 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; March 1921 to September 1935 in reports of State engineer.

Average discharge.- 14 years, 246 second-feet.

Extremes.- Maximum discharge during year, 2,800 second-feet June 17; minimum mean daily discharge, 3 second-feet Oct. 1-7, 1934.
1921-35: Maximum mean daily discharge, 3,650 second-feet May 24, 1932; no flow July 21 to Sept. 8, 1934.

Remarks.- Records good except those estimated for Jan. 19-22, May 9-15, Aug. 22 to Sept. 7 by comparison of records of the two river channels, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	37	31	52	52	31	31	49	1,290	1,100	24	34
2	3	37	30	49	54	32	29	31	1,090	937	19	60
3	3	38	30	47	55	36	13	27	1,200	859	21	55
4	3	33	32	46	54	37	12	41	1,400	808	21	53
5	3	26	36	49	52	29	11	81	1,580	757	22	53
6	3	24	42	50	52	29	11	81	1,690	677	24	53
7	3	24	44	49	53	27	9	46	1,870	651	35	53
8	6	24	46	50	50	27	10	91	2,030	638	29	53
9	6	23	46	49	50	29	11	217	1,970	597	42	49
10	8	19	47	49	49	36	11	533	2,050	543	73	49
11	9	20	46	50	49	39	10	770	2,160	502	77	41
12	10	24	51	54	50	39	10	671	2,300	451	59	36
13	9	27	49	52	50	37	8	589	1,990	425	105	32
14	11	27	49	50	49	36	6	489	1,930	380	81	31
15	11	27	48	52	52	34	6	416	2,090	421	47	31
16	11	32	48	50	50	39	6	418	2,440	386	32	29
17	12	29	48	52	50	40	7	496	2,700	320	21	26
18	12	27	49	49	49	38	8	698	2,270	287	13	26
19	16	33	50	46	49	40	7	1,030	1,970	301	10	31
20	25	32	51	46	47	42	7	1,040	1,910	316	8	28
21	26	34	51	46	46	42	7	962	1,950	312	7	25
22	24	34	51	46	43	41	7	771	2,010	315	8	26
23	23	34	54	48	40	44	8	765	2,120	307	8	26
24	43	33	51	46	41	44	15	899	1,950	268	7	28
25	43	30	52	47	43	44	44	1,130	1,950	233	8	33
26	39	31	51	48	40	41	26	1,320	1,740	177	8	36
27	39	34	51	48	37	41	13	1,570	1,620	117	8	44
28	35	33	51	48	40	40	11	1,600	1,590	83	8	44
29	42	32	51	48	-	39	10	1,610	1,430	63	8	47
30	38	30	50	50	-	38	34	1,530	1,210	42	8	43
31	38	-	51	51	-	33	-	1,580	-	28	8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	557	43	3	18.0	1,100
November	888	38	19	29.6	1,760
December	1,437	54	30	46.4	2,850
Calendar year 1934	10,458	90	0	28.7	20,740
January	1,517	54	46	48.9	3,010
February	1,346	55	37	48.1	2,670
March	1,143	44	27	36.9	2,270
April	398	44	6	13.3	789
May	21,551	1,610	27	695	42,750
June	55,500	2,700	1,090	1,850	110,100
July	13,301	1,100	28	429	26,380
August	849	105	7	27.4	1,680
September	1,175	60	25	39.2	2,330
Water year 1934-35	99,662	2,700	3	273	197,700

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San Antonio River at Ortiz, Colo.

Location.- Water-stage recorder, lat. 37°, long. 106°2', in sec. 19, T. 32 N., R. 9 E. (revised), half a mile south of Ortiz and half a mile above mouth of Los Pinos Creek.

Drainage area.- 110 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; January to October 1915, May 1919 to October 1920, October 1924 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 418 second-feet May 11 (gage height, 2.85 feet); no flow Aug. 17, 18, 21, Sept. 12-18, 22.
1915, 1919-20, 1924-35: Maximum discharge, 900 second-feet May 6, 1926 (gage height, 3.00 feet); no flow for periods nearly every year.

Remarks.- Records good except those below 10 second-feet and those estimated for Oct. 1-31, Apr. 1, Sept. 2-15, which are fair. No records Nov. 1 to Mar. 31. Small diversions for irrigation above station.

Rating table, water year 1934-35 (gage height, in feet, and discharge, in second-feet)

0.5	0.1	1.8	115
.6	1	2.0	157
.8	9	2.2	209
1.0	21	2.4	268
1.2	37	2.6	332
1.4	57	2.8	400
1.6	83		

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1						30	125	106	2	6	3
2	1						32	98	98	2	3	3
3	1						52	98	90	2	2	3
4	1						52	83	83	1	2	3
5	1						52	83	69	1	6	3
6	1						28	106	63	1	6	2
7	1						24	125	57	3	3	2
8	1						37	182	46	1	6	2
9	1						24	253	42	1	15	1
10	1						18	300	37	2	3	1
11	1						24	316	37	2	2	1
12	1						24	300	32	1	1	0
13	1						32	253	26	6	3	0
14	1						46	268	28	3	3	0
15	1						76	224	28	3	1	0
16	1						98	224	21	6	1	0
17	1						98	284	18	2	0	0
18	1						90	284	15	2	0	0
19	1						63	253	15	9	1	1
20	1						98	268	12	9	1	1
21	1						115	238	9	9	0	1
22	1						157	238	9	12	1	0
23	1						170	253	9	21	32	1
24	1						170	284	9	6	9	1
25	1						106	349	6	3	6	1
26	1						76	284	6	2	6	9
27	1						125	253	3	2	2	21
28	1						157	196	3	2	18	18
29	1						170	182	3	9	9	9
30	1						170	157	3	9	3	6
31	1						-	135	-	21	3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31	1	1	1.0	61
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	2,414	170	18	80.5	4,790
May	6,696	349	83	216	13,280
June	985	106	3	32.8	1,950
July	155	21	1	5.0	307
August	154	32	0	5.0	305
September	93	21	0	3.1	184
Water year					

San Antonio River at mouth, near Manassa, Colo.

Location.- Water-stage recorder, lat. 37°11', long. 105°53', in sec. 21, T. 34 N., R. 10 E., 2½ miles east of Manassa and 1 mile above mouth.

Drainage area.- 348 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; April 1923 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,160 second-feet May 30 (gage height, 5.22 feet); no flow Oct. 1 to Nov. 30.
1923-35: Maximum discharge, 1,890 second-feet May 5, 1924; no flow for periods nearly every year.

Remarks.- Records good except those estimated for period of ice effect, Dec. 1 to Mar. 21, on the basis of six discharge measurements and temperature records and those estimated for period of no record, Apr. 18, May 17-19, 25-28, Sept. 1-4, 25, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.1	0.2	1	1	1	202	752	177	11	15
2			.1	.2	1	1	1	161	764	157	11	15
3			.1	.2	1	1	1	166	848	157	15	12
4			.1	.2	1	1	1	170	840	139	18	12
5			.1	.2	1	1	1	161	790	126	15	12
6			.1	.2	1	1	1	152	794	121	15	10
7			.1	.2	1	1	2	173	802	114	20	8
8			.1	.2	1	1	2	224	768	102	21	7
9			.1	.2	1	1	2	354	745	86	41	7
10			.1	.2	1	1	2	524	680	79	26	7
11			.1	.2	1	1	2	688	680	72	20	6
12			.1	.2	1	1	2	726	626	60	16	5
13			.1	.2	1	1	2	657	581	54	16	4
14			.1	.2	1	1	2	622	596	55	13	4
15			.1	.2	1	1	1	554	643	64	11	3
16			.1	.2	1	1	1	504	699	63	8	3
17			.1	.2	1	1	1	540	609	41	6	2
18			.1	.2	1	1	1	620	495	34	5	2
19			.1	.2	1	1	4	780	429	32	4	2
20			.1	.2	1	1	15	741	423	40	3	1
21			.1	.2	1	1	37	639	414	42	3	1
22			.1	.2	1	1	71	602	417	40	2	1
23			.1	.2	1	1	111	646	423	40	2	1
24			.1	.2	1	2	163	703	372	35	2	1
25			.1	.2	1	1	146	870	331	28	2	1
26			.1	.2	1	1	110	1,100	286	24	2	2
27			.1	.2	1	1	100	1,110	264	21	2	4
28			.1	.2	1	1	113	1,080	261	18	2	9
29			.1	.2	-	1	177	1,050	236	15	2	12
30			.1	.2	-	1	226	992	202	13	2	10
31			.1	.2	-	1	-	908	-	11	2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	3.1	.1	.1	.10	6
Calendar year 1934	2,737.6	82	0	7.50	5,430
January	6.2	.2	.2	.20	12
February	28	1	1	1.0	56
March	32	2	1	1.0	63
April	1,299	226	1	43.3	2,580
May	18,419	1,110	152	594	36,530
June	16,772	848	202	559	33,270
July	2,060	177	11	66.5	4,090
August	318	41	2	10.3	631
September	179	15	1	6.0	355
Water year 1934-35	39,116.3	1,110	0	107	77,590

RIO GRANDE BASIN

Los Pinos River near Ortiz, Colo.

Location.- Water-stage recorder, lat. 36°58', long. 106°3', in sec. 34 (revised), T. 32 N., R. 8 E., 3 miles southwest (revised) of Ortiz.

Drainage area.- 167 square miles.

Records available.- October 1933 to September 1935 in reports of U. S. Geological Survey; January 1914 to November 1920, October 1924 to September 1935 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,420 second-feet May 27 (gage height, 4.39 feet); minimum occurred during period of no record.
1914-20, 1924-35: Maximum discharge, 2,300 second-feet May 21, 1920 (gage height, 6.10 feet); minimum mean daily discharge, 5 second-feet Aug. 11, Sept. 19, 1934.

Remarks.- Records good except those estimated for Nov. 21-30, June 13-17, 20-23, Sept. 4-15, which are fair. No records Dec. 1 to Mar. 22. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	13				-	41	317	875	288	69	55
2	18	16				-	45	259	960	266	72	49
3	17	10				-	57	235	1,020	252	59	41
4	17	12				-	51	194	1,050	232	51	40
5	17	19				-	76	180	960	203	110	40
6	17	17				-	81	232	990	186	98	35
7	17	18				-	55	310	970	166	67	30
8	17	18				-	62	474	920	175	65	25
9	17	18				-	60	594	855	159	57	20
10	17	18				-	52	718	812	141	48	20
11	17	16				-	51	816	783	127	51	20
12	17	18				-	52	793	666	124	74	20
13	16	18				-	62	689	690	127	51	20
14	16	14				-	e3	616	760	114	43	20
15	14	13				-	127	535	845	129	38	20
16	14	12				-	175	566	765	98	44	19
17	13	18				-	194	589	705	89	37	19
18	14	16				-	178	662	652	94	34	18
19	14	14				-	162	571	652	146	32	18
20	14	11				-	222	594	650	118	32	18
21	13	11				-	246	576	670	110	28	17
22	14	11				-	291	634	675	110	28	17
23	17	10				25	332	755	555	89	32	17
24	13	10				26	344	895	469	81	28	17
25	13	10				23	242	1,060	478	67	27	24
26	14	10				26	200	1,140	436	60	30	32
27	15	10				31	226	1,100	416	59	92	55
28	15	10				29	310	1,110	401	55	81	42
29	14	10				33	401	1,080	344	54	51	42
30	13	10				39	408	1,080	306	54	100	35
31	13	-				41	-	940	-	60	69	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	475	18	13	15.3	942
November	411	19	10	13.7	815
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 23-31	273	41	23	30.3	541
April	4,886	408	41	163	9,690
May	20,314	1,140	180	655	40,290
June	21,330	1,050	306	711	42,310
July	4,053	288	54	131	8,040
August	1,698	110	27	54.8	3,370
September	e43	55	17	28.1	1,670
Water year					

Culebra Creek at San Luis, Colo.

Location.- Water-stage recorder, lat. 37°11', long. 105°26', in sec. 35, T. 3 N., R. 72 W. (Beaubien Grant Survey), 1 mile southeast of San Luis.

Drainage area.- 220 square miles.

Records available.- January 1910 to December 1911, October 1933 to September 1935 in reports of U. S. Geological Survey; May 1909 to December 1910, April 1927 to September 1935 in reports of State engineer; unpublished records 1911-19 in office of State engineer.

Average discharge.- 18 years (1909-19, 1927-35), 65.9 second-feet.

Extremes.- Maximum discharge during year, 442 second-feet Aug. 2 (gage height, 4.00 feet); minimum mean daily discharge, 7 second-feet Apr. 14, 21, 22.
1909-19, 1927-35: Maximum mean daily discharge, 470 second-feet June 26, 1915; minimum mean daily discharge, 5 second-feet Sept. 14-16, 1934.

Remarks.- Records good except those estimated for Dec. 1 to Mar. 31. Discharge based on formula for 12-foot Parshall flume. Diversions for irrigation above station. Flow regulated by Sanchez Reservoir (capacity, 103,100 acre-feet).

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	25					11	16	48	182	222	18
2	23	26					10	17	40	176	189	34
3	24	24					11	16	62	149	170	40
4	24	27					10	14	75	72	203	39
5	24	26					10	9	110	141	181	41
6	23	26					8	10	66	161	148	41
7	13	26					10	12	135	143	121	46
8	22	21					10	13	136	175	98	44
9	21	17					13	14	109	170	120	41
10	24	24					12	14	153	175	112	36
11	24	14					12	15	182	161	85	30
12	22	16					12	9	184	140	128	28
13	22	15					10	32	177	71	124	26
14	13	22					7	46	185	54	109	27
15	18	18					8	47	161	42	118	16
16	24	14					8	54	163	40	130	15
17	27	19					8	44	169	59	116	28
18	27	10					8	33	173	53	93	27
19	26	17					8	19	204	44	95	22
20	26	22					8	24	198	73	110	24
21	29	23					7	20	171	30	85	24
22	27	19					7	21	164	43	63	25
23	22	16					14	20	160	73	53	27
24	24	16					17	27	186	96	57	26
25	23	11					18	39	198	143	52	32
26	22	15					12	38	213	184	40	33
27	22	17					13	39	217	200	53	36
28	23	18					11	41	210	186	54	26
29	22	11					15	41	194	176	49	15
30	22	12					15	36	152	185	44	23
31	20	-					-	36	-	176	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	707	29	13	22.8	1,400
November	567	27	10	18.9	1,120
December	620	-	-	20	1,230
Calendar year 1934	15,890	166	5	43.5	31,520
January	620	-	-	20	1,230
February	420	-	-	15	833
March	465	-	-	15	922
April	323	18	7	10.8	641
May	816	54	9	26.3	1,620
June	4,595	217	40	153	9,110
July	3,773	200	30	122	7,480
August	3,252	222	30	105	6,450
September	890	46	15	29.7	1,770
Water year 1934-35	17,048	222	7	46.7	33,810

Rio Colorado near Questa, N. Mex.

(Also known as Red River)

Location.- Water-stage recorder, lat. 36°42', long. 105°33', in sec. 33, T. 29 N., R. 13 E., 1 3/4 miles above mouth of Cabresto Creek and 2 miles east of Questa.

Drainage area.- 112 square miles.

Records available.- October 1912 to August 1915, October 1930 to September 1935 in reports of U. S. Geological Survey; October 1912 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 870 second-feet June 14 (gage height, 3.14 feet); minimum mean daily discharge, 8.8 second-feet Dec. 3.
1930-35: Maximum discharge, that of June 14, 1935; minimum mean daily discharge, 6.3 second-feet Nov. 24, 25, 1931.

Remarks.- Records good except those for June 7-16, which are fair, and those estimated on basis of weather records and hydrographic comparison with nearby stations, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*24	18	9.5	12	*20	17	*23	56	222	140	54	40
2	*24	18	9.5	11	*19	*19	*25	55	222	127	59	39
3	*24	15	8.8	15	*19	*21	*28	51	230	135	58	40
4	*24	16	9.0	13	*18	*21	*30	47	242	122	58	39
5	*24	16	9.5	18	*18	*20	*30	47	238	112	59	46
6	24	17	10	*18	*19	*16	*28	54	254	106	58	38
7	23	18	12	*20	*19	*16	*25	55	325	99	52	36
8	*24	17	12	*19	*18	*17	*27	62	388	93	51	39
9	*24	17	16	*18	*18	*17	*25	76	481	93	52	36
10	*24	17	15	*18	*18	*16	*24	86	637	89	54	36
11	24	17	15	*18	*17	*16	24	84	655	84	55	35
12	24	17	15	*20	*17	*16	26	88	691	84	55	34
13	23	17	15	*19	*18	*17	*30	88	745	82	54	32
14	22	16	16	*18	*18	*17	*38	91	570	78	51	33
15	22	15	16	*20	*17	*18	*50	88	352	78	46	32
16	20	15	16	*19	*13	*15	*60	86	278	70	45	33
17	20	17	16	*18	*14	*17	*60	106	278	70	43	32
18	20	17	15	*18	*17	*17	*55	122	258	72	42	34
19	19	17	12	*15	*20	*18	*50	115	246	68	42	34
20	19	16	14	*12	*22	*16	*45	110	246	64	41	34
21	19	17	16	*10	*21	*15	*45	104	250	68	41	34
22	19	13	18	16	*21	16	*45	106	254	67	39	34
23	19	12	17	16	*20	*16	*40	127	238	59	40	34
24	19	15	16	*17	*18	*17	*40	157	226	55	39	36
25	19	15	16	*18	*16	*16	*35	200	206	52	38	40
26	20	13	15	*19	*12	*16	*40	218	189	54	38	55
27	20	13	15	*20	*15	*17	*40	222	175	52	43	58
28	19	13	16	*20	*16	*16	*45	206	172	52	43	52
29	19	10	16	*21	-	*18	*45	203	163	54	42	49
30	18	10	16	*20	-	*20	*50	214	151	54	43	47
31	18	-	12	*20	-	*22	-	226	-	58	41	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	661	24	18	21.3	1,310
November	464	18	10	15.5	920
December	434.3	18	8.8	14.0	861
Calendar year 1934	9,815.3	78	8.8	26.9	19,450
January	536	21	10	17.3	1,060
February	498	22	12	17.8	988
March	536	22	15	17.3	1,060
April	1,128	60	23	37.6	2,240
May	3,550	226	47	115	7,040
June	9,582	745	151	319	19,010
July	2,491	140	52	80.4	4,940
August	1,476	59	38	47.6	2,930
September	1,161	58	32	38.7	2,300
Water year 1934-35	22,517.3	745	8.8	61.7	44,660

*Estimated.

Rio Hondo near Valdez, N. Mex.

Location.- Water-stage recorder, lat. 36°32'20", long. 105°33'30", in S½ sec. 28, T. 27 N., R. 13 E., 200 feet above old toll gate, 1½ miles east of Valdez, and above all diversions. Records at station half a mile downstream, below two diversion ditches, October 1930 to September 1934.

Records available.- August 1934 to September 1935.

Extremes.- Maximum discharge during period Aug. 25 to Sept. 30, 1934, 42 second-feet Sept. 23 (gage height, 2.72 feet); minimum mean daily discharge, 8.2 second-feet Sept. 15.

Maximum discharge during water year 1934-35, 276 second-feet June 16; maximum gage height, 5.18 feet (ice effect) Jan. 4, minimum mean daily discharge, 3.0 second-feet (estimated) Jan. 21.

Remarks.- Records fair. Estimated discharge determined by hydrographic comparison with nearby stations and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, period August to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											-	16
2											-	15
3											-	13
4											-	12
5											-	13
6											-	15
7											-	15
8											-	15
9											-	16
10											-	14
11											-	13
12											-	15
13											-	13
14											-	10
15											-	8.2
16											-	8.5
17											-	13
18											-	14
19											-	13
20											-	13
21											-	13
22											-	14
23											-	29
24											-	20
25											20	12
26											20	12
27											18	12
28											16	13
29											16	14
30											15	15
31											15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June					
July					
August 25-31	120	20	15	17.1	238
September	418.7	29	8.2	14.0	830
Water year					

RIO GRANDE BASIN

Rio Hondo near Valdez, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	14	*8	*7	6.2	6.2	24	34	151	125	44	27
2	18	14	*8	*6	6.2	6.4	26	32	157	119	45	26
3	21	*13	*8	*7	6.4	6.6	25	30	172	113	43	26
4	23	13	*8	*7	6.4	*7.0	24	28	178	102	48	26
5	22	13	*9	*7	6.2	6.8	24	28	178	101	47	26
6	22	14	*9	7.5	6.4	*7.8	22	28	188	96	43	25
7	21	13	*10	7.5	6.6	*7.8	20	29	201	92	41	26
8	21	13	*12	7.2	6.6	7.5	20	33	199	89	40	26
9	20	13	*12	7.0	6.4	7.8	20	40	188	85	41	25
10	20	13	*12	7.0	6.4	7.8	18	45	176	81	40	25
11	20	13	12	7.0	6.2	*8.8	18	52	170	78	41	25
12	20	13	12	7.2	6.2	*9.2	19	58	174	74	42	24
13	19	12	12	6.8	6.2	9.5	22	58	178	69	40	24
14	18	12	12	6.6	6.2	11	29	58	174	66	37	24
15	18	12	11	6.8	6.0	13	45	56	184	62	36	24
16	18	13	11	5.8	3.8	13	59	56	141	60	35	23
17	18	14	11	*5.6	*5.0	13	62	64	102	61	34	24
18	18	13	11	*5.0	*6.0	13	59	71	79	60	33	24
19	17	13	*9	*5.0	*7.0	13	49	71	76	57	32	23
20	18	13	*8	*4.2	6.0	12	37	70	80	55	32	23
21	18	13	*9	*3.0	6.0	12	33	64	78	54	31	23
22	18	12	*10	*3.5	6.2	13	32	68	114	52	30	22
23	18	*11	*10	*4.0	6.2	14	32	86	123	49	29	22
24	17	12	*10	*4.5	6.2	13	37	109	136	46	29	23
25	17	12	*10	*5.0	5.6	13	24	128	136	45	28	25
26	16	11	*9	6.0	*5.7	15	22	134	139	45	29	26
27	16	*11	*9	6.0	*5.9	18	26	143	130	44	28	27
28	15	*10	9.5	6.2	*6.1	18	37	139	128	45	27	26
29	15	*9	9.2	6.2	-	20	41	141	128	44	29	24
30	15	*9	9.2	6.2	-	24	38	143	125	44	28	24
31	14	-	*8	6.2	-	26	-	159	-	43	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	567	23	14	18.3	1,120
November	371	14	9	12.4	736
December	307.9	12	8	9.93	611
Calendar year					
January	187.0	7.5	3.0	6.03	371
February	170.3	7.0	3.8	6.08	338
March	373.2	26	6.2	12.0	740
April	944	62	18	31.5	1,870
May	2,255	159	28	72.7	4,470
June	4,383	201	76	146	8,690
July	2,156	125	43	69.5	4,280
August	1,109	48	27	35.8	2,200
September	738	27	22	24.6	1,460
Water year 1934-35	13,561.4	201	3.0	37.2	26,890

*Estimated.

Rio Taos at Los Cordovas, N. Mex.

Location.- Water-stage recorder, lat. 36°23', long. 105°39', in Martinez Grant, about 50 feet below mouths of Rio Ranchos de Taos and Arroyo Seco, half a mile northeast of Los Cordovas, and 4 miles west of Taos, Taos County, Datum lowered 0.26 foot Apr. 20, 1934.

Drainage area.- 395 square miles.

Records available.- April 1910 to August 1915, October 1930 to September 1935 in reports of U. S. Geological Survey; April 1910 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 520 second-feet May 26 (gage height, 4.06 feet); minimum mean daily discharge, 4.5 second-feet July 26.
1930-35: Maximum discharge, 725 second-feet Sept.24, 1931 (gage height, 4.65 feet, former datum); minimum mean daily discharge, 1.4 second-feet Aug. 7, 10, 1934.

Remarks.- Records good except those estimated because of ice effect, which are fair. Estimates based on hydrographic comparison with nearby stations and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	11	*12	30	24	24	23	25	314	30	12	41
2	10	13	*10	32	24	25	24	24	285	26	11	38
3	10	14	*11	30	24	28	25	26	273	26	13	41
4	11	16	*9	34	26	24	26	28	261	20	16	37
5	11	16	*10	32	26	22	20	36	243	18	14	38
6	10	17	*9	32	26	21	17	30	254	16	13	31
7	9.9	18	10	41	28	19	22	28	273	16	10	32
8	11	18	13	39	30	22	18	28	302	15	9.4	35
9	9.4	18	16	36	28	22	26	39	328	12	10	29
10	9.9	18	17	36	30	21	22	58	328	9.9	9.0	28
11	11	20	17	34	28	20	20	72	309	8.6	10	26
12	13	19	16	40	28	19	18	95	314	6.6	10	22
13	14	19	18	32	28	20	18	101	306	6.9	14	19
14	13	18	18	32	26	19	18	104	314	6.6	13	18
15	11	17	19	68	26	22	30	112	306	8.0	9.9	17
16	12	16	18	46	*23	21	38	101	306	7.6	9.0	16
17	13	18	17	30	*22	23	43	191	278	9.4	10	16
18	13	18	15	26	*23	22	45	387	227	8.6	11	16
19	12	17	*12	23	25	22	42	387	183	9.9	11	15
20	10	17	*9	*21	25	24	32	445	163	7.2	18	13
21	9.9	22	12	*19	24	23	28	360	150	20	21	12
22	9.4	21	15	*20	25	24	28	333	146	15	21	12
23	10	20	16	22	25	24	26	373	150	8.6	30	11
24	11	20	19	23	25	24	32	445	126	6.2	20	17
25	11	22	20	23	24	23	30	490	102	4.5	18	20
26	11	22	22	24	24	22	26	505	85	4.2	19	29
27	12	21	23	25	23	22	24	476	63	5.5	22	33
28	12	22	23	26	23	22	22	448	54	5.5	47	25
29	12	22	28	26	-	22	23	406	49	6.6	48	23
30	10	*15	28	26	-	24	25	364	38	8.0	44	22
31	10	-	30	25	-	25	-	346	-	11	45	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	342.5	14	9.4	11.0	679
November	545	22	11	18.2	1,080
December	512	30	9	16.5	1,020
Calendar year 1934	5,536.7	44	1.4	15.2	10,990
January	953	68	19	30.7	1,890
February	713	30	22	25.5	1,410
March	695	28	19	22.4	1,380
April	791	45	17	26.4	1,570
May	6,863	505	24	221	13,610
June	6,530	328	38	218	12,950
July	363.4	30	4.2	11.7	721
August	568.3	48	9.0	18.3	1,130
September	732	41	11	24.4	1,450
Water year 1934-35	19,608.2	505	4.2	53.7	38,890

*Estimated.

Rio Lucero near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°30', long. 105°32', in Antoine Leroux Grant, in T. 26 N., R. 13 E., 200 feet above Rio Lucero diversion dam, 2 miles southeast of Arroyo Seco, 4½ miles north of Taos Pueblo, and 7⅞ miles northeast of Taos.

Records available.- April 1910 to December 1915 (published as Rio Lucero near Taos, N. Mex.), November 1933 to September 1935 in reports of U. S. Geological Survey; January 1911 to December 1915 in reports of State engineer.

Extremes.- Maximum discharge during year, 144 second-feet June 16; maximum stage, 2.09 feet June 10; minimum mean daily discharge not determined.
1933-35: Maximum discharge, that of June 16, 1935; maximum stage, that of June 10, 1935; minimum mean daily discharge not determined.

Remarks.- Records fair except those estimated because of ice effect or missing gage-height record, which are fair. Estimates based on hydrographic comparison with nearby station and study of weather records. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	8.6				9.3	17	18	70	62	21	17
2	12	8.6				8.9	19	17	71	59	23	17
3	12	8.0		*7		8.9	20	16	82	57	21	18
4	12					8.9	21	16	89	53	24	19
5	12		*6			8.6	20	15	89	50	24	19
6	12					8.6	17	15	96	48	26	18
7	12					8.3	16	16	102	46	24	18
8	12					8.1	15	18	111	44	22	18
9	12					8.1	15	21	125	40	24	17
10	12	*8		*9	*7	7.8	15	25	133	37	22	16
11	11		†7			7.8	14	31	135	36	21	16
12	12					8.1	14	34	119	35	21	15
13	11					8.9	17	35	116	33	20	15
14	11					11	21	33	126	34	19	14
15	10					12	28	32	127	33	19	13
16	10					12	32	32	129	30	19	13
17	10					12	31	41	111	30	18	13
18	10					11	28	55	106	29	19	13
19	9.8	*7			*11	11	25	53	113	28	18	12
20	9.8			*5	*12	11	22	50	115	27	18	12
21	9.5		*7		*14	10	21	45	121	30	18	13
22	9.2				*15	10	21	49	117	28	17	13
23	9.2	†5			*14	10	20	61	115	26	17	13
24	9.2				*13	10	20	79	112	25	16	14
25	8.9			†5	*12	10	18	81	103	24	17	14
26	9.2	*6			*11	11	17	74	93	24	19	15
27	9.2				†11	12	17	72	87	22	18	18
28	8.9				10	13	18	67	82	22	18	16
29	8.9			*6	-	15	19	66	73	22	19	16
30	8.6				-	17	18	70	67	20	18	15
31	8.6	—			-	18	-	76	-	20	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	325.0	13	8.6	10.5	645
November	217.2	-	-	7.24	431
December	207	-	-	6.7	411
Calendar year 1934	5,012.3	59	-	13.7	9,950
January	211	-	-	6.8	419
February	249	15	-	8.9	494
March	326.3	18	7.8	10.5	647
April	596	32	14	19.9	1,180
May	1,313	81	15	42.4	2,600
June	3,135	135	67	104	6,220
July	1,074	62	20	34.6	2,130
August	617	26	16	19.9	1,220
September	460	19	12	15.3	912
Water year 1934-35	8,730.5	135	-	23.9	17,310

*Estimated.
†Discharge measurement.

Rio Lucero below diversions, near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°28', long. 105°34', in sec. 21, T. 26 N., R. 13 E., 2 miles northwest of Taos Pueblo, 3 1/2 miles south of Arroyo Seco, and 4 miles northeast of Taos.

Records available.- May 1934 to September 1935.

Extremes.- Maximum discharge for period May 10 to Sept. 30, 1934, 34 second-feet May 18; maximum gage height, 1.60 feet May 29; no flow at times.
Maximum discharge during water year 1934-35, about 89 second-feet May 24 (gage height, 1.77 feet); no flow at times.

Remarks.- Records good. Estimated discharge, because of ice effect or missing gage-height record, based on comparison with records of upper Rio Lucero station. Several diversions for irrigation above station.

Discharge, in second-feet, water year October 1933 to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	8.3	0.1	0	0
2								-	8.3	.1	0	0
3								-	7.8	.1	0	0
4								-	7.5	.1	.1	0
5								-	8.6	.1	.1	0
6								-	9.3	.1	0	0
7								-	8.3	.1	.1	0
8								-	5.1	.1	0	0
9								-	3.6	.1	0	0
10								18	4.1	.1	0	0
11								17	4.4	.1	0	0
12								19	4.2	.1	0	0
13								20	4.1	.1	0	0
14								19	1.9	.1	0	0
15								17	.8	.1	0	0
16								15	.2	.1	0	0
17								18	.1	.1	0	0
18								24	.1	.1	0	0
19								17	.1	.1	0	0
20								12	.1	.1	0	0
21								23	.1	.1	0	0
22								26	.1	.1	0	0
23								17	0	.1	0	.2
24								16	.2	.1	0	.7
25								17	.4	.1	.4	.2
26								16	.4	.4	.3	.1
27								18	.3	.2	.1	.2
28								18	.1	.1	.1	.3
29								21	.1	.1	.1	.1
30								26	.1	.1	.1	.1
31								*15	-	.1	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 10-31	409	26	12	18.6	811
June	88.7	9.3	0	2.96	176
July	3.5	.4	.1	.11	6.9
August	1.4	.4	0	.05	2.8
September	1.9	.7	0	.06	3.8
The period					1,000

*Estimated.

Rio Lucero below diversions, near Arroyo Sec, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.6	0.5	0.4	0.6	1.5	2.5	13	8.6		
2	0	0	.7	.4	.4	.4	1.0	2.0	12	7.2		
3	0	0	.7	.1	.4	.4	1.4	1.9	12	3.3		
4	0	0	.7	.1	.4	.3	1.5	.9	14	4.2		
5	0	0	.7	.1	.4	.3	1.3	.3	12	3.3		
6	.4	0	.9	.2	.4	*.3	1.1	.2	17	2.2		
7	.8	0	1.0	.2	.4	*.3	.9	.2	27	1.7		
8	.6	0	.9	.2	.3	.3	.4	.4	29	1.0		
9	.4	0	.9	.2	.3	.3	.4	.9	40	*.1		
10	.5	0	.8	.2	.3	*.3	.4	.9	37	0		
11	.3	0	.7	.2	.3	*.2	1.3	1.0	32	0		
12	0	0	.7	.1	.3	*.2	1.8	2.3	31	0		
13	0	0	.7	*.1	.2	*.3	2.1	1.2	30	0		
14	0	0	.5	.1	.2	.7	2.3	.3	*30	0		
15	0	0	.3	*.1	.2	.9	1.1	.2	30	0		
16	0	.3	.3	*0	*0	*.9	.9	.2	30	0		
17	0	.5	.4	*0	*0	*.9	.5	.2	29	0		
18	0	.4	.4	*.1	*0	*.7	.4	5.8	27	0		
19	0	.4	.4	*.1	*0	.5	.4	19	23	0		
20	0	.4	.5	*.1	*0	.1	.5	30	22	0		
21	0	.3	.4	*0	*0	0	.5	32	22	0		
22	.1	.3	.4	*.1	*0	0	.6	37	21	0		
23	.1	.4	.4	.3	*.1	0	.6	46	20	0		
24	.1	.9	.4	.3	*.2	0	.5	59	17	0		
25	.1	.4	.4	.4	.3	0	.4	21	15	0		
26	.1	.5	.4	.3	.4	0	.2	17	15	0		
27	.1	.4	.4	.3	.6	0	.2	16	15	0		
28	.1	.7	.4	.3	.8	.5	.2	16	14	0		
29	.1	.5	.4	.4	-	1.3	.2	16	12	0		
30	.1	.5	.4	.4	-	1.9	1.9	15	9.3	0		
31	0	-	.4	.4	-	1.8	-	15	-	0		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.9	0.8	0	0.13	7.7
November	6.9	.9	0	.23	14
December	17.2	1.0	.3	.55	34
Calendar year					
January	6.3	.5	0	.20	12
February	7.3	.8	0	.26	14
March	14.4	1.9	0	.46	29
April	26.5	2.3	.2	.88	53
May	360.4	59	.2	11.6	715
June	657.3	40	9.3	21.9	1,300
July	31.6	8.6	0	1.02	63
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1934-35	1,131.8	59	0	3.10	2,240

*Estimated.

Tenorio Ditch near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°30', long. 105°32', in Antoine Leroux Grant, in sec. 10 (projected), T. 26 N., R. 13 E., 400 feet below head gate, 2 miles southeast of Arroyo Seco, 4 1/2 miles north of Taos Pueblo, and 7 1/2 miles northeast of Taos.

Records available.- June to September 1935.

Extremes.- Maximum discharge during period, 6.6 second-feet June 30 (gage height, 0.94 foot); no flow at times.

Remarks.- Records good except those estimated, which are fair. Flow regulated at head gate of ditch. No diversions above station. Ditch diverts from right bank of Rio Lucero and is used for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	6.2		2.1
2									-	6.1		2.1
3									-	6.1		2.4
4									-	6.0		2.5
5									-	5.9		2.0
6									-	5.8		1.8
7									-	5.9	*1.3	1.9
8									-	6.0		1.9
9									-	5.8		1.8
10									-			1.7
11									-			1.6
12									-	*3		1.2
13									-		*1.2	1.4
14									-		.6	1.3
15									-		1.2	1.3
16									-	.2	.3	1.3
17									-	.5	0	1.3
18									-	.8	1.0	1.3
19									-	.6	1.2	1.3
20									-	.5	1.4	1.3
21									-	1.4	1.7	1.3
22									-	.8	1.6	1.3
23									-	.4	1.0	1.3
24									-	.4	.2	1.5
25									-	.4	0	1.7
26									-	.6	0	1.9
27									-	1.0	0	2.2
28									1.6	1.1	0	2.1
29									6.3	1.0	.8	2.1
30									6.3	1.0	1.5	1.9
31									-	1.0	2.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 28-30	14.2	6.3	1.6	4.73	28
July	83.5	6.2	.2	2.69	166
August	31.4	-	0	1.01	62
September	50.8	2.5	1.2	1.69	101
The period					357

*Estimated.

Indian Ditch near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°30', long. 105°32', in sec. 10, T. 26 N., R. 13 E., 500 feet below head, 2 miles southeast of Arroyo Seco, 4 1/2 miles north of Taos Pueblo, and 7 1/2 miles northeast of Taos.

Records available.- July 1934 to September 1935 (no records during winter).

Extremes.- Maximum discharge for period July 11 to Sept. 30, 1934, 15 second-feet July 27, Sept. 23; maximum gage height, 1.38 feet July 27; no flow Sept. 25-30.
Maximum discharge for water year 1934-35, 25 second-feet May 18 (gage height, 1.82 feet); no flow at times.

Remarks.- Records good except thoee estimated, which are fair. Flow regulated at head gate. No diversions above station. Ditch diverts from left bank of Rio Lucero and is used for irrigation.

Discharge, in second-feet, water year October 1933 to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										-	4.7	3.9
2										-	4.6	3.6
3										-	4.3	3.4
4										-	4.0	3.3
5										-	3.9	3.2
6										-	3.9	4.0
7										-	4.4	3.5
8										-	*4.3	3.5
9										-	*4.2	4.1
10										-	4.1	3.6
11										4.8	4.3	3.4
12										4.8	4.6	4.1
13										4.4	4.3	3.8
14										4.3	4.0	3.5
15										4.0	4.0	3.5
16										4.0	3.9	3.4
17										4.3	3.8	3.4
18										4.3	3.5	3.3
19										4.0	3.5	3.3
20										3.9	3.5	3.2
21										4.0	3.4	3.2
22										4.4	3.6	3.3
23										6.1	3.3	8.2
24										6.1	3.2	*3
25										5.7	3.6	0
26										7.5	3.5	0
27										11	3.6	0
28										}	3.6	0
29										*6	3.6	0
30										}	3.8	0
31										*4.8	3.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June					
July 11-31	110.4	11	3.9	5.26	219
August	120.6	4.7	3.2	3.89	239
September	88.7	8.2	0	2.96	176
Water year					

*Estimated.

Indian Ditch near Arroyo Seco, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	2.5						6.2	0	12	7.3	5.0
2	0	2.5						5.4	0	12	8.2	4.8
3	0	3.2						5.0	0	12	7.5	5.4
4	0	2.6						4.3	0	12	8.6	5.6
5	0	2.6						3.9	0	12	8.4	5.9
6	0	2.5						3.9	0	12	9.2	5.4
7	0	2.5						3.9	0	12	8.6	5.6
8	.9	2.4							0	15	7.9	5.4
9	1.5	2.4						*6	0	15	8.0	5.1
10	0	2.2						9.0	1.2	15	7.5	5.0
11	1.4	2.2	0.6					11	3.8	15	7.3	4.7
12	2.6	2.3						12	3.9	15	7.1	4.7
13	2.6	2.3						12	4.3	13	6.9	4.6
14	2.5	1.6						12	5.6	13	6.8	4.4
15	2.7	.3						11	2.6	12	6.9	4.3
16	3.0	.4						9.7	1.8	11	6.6	4.1
17	3.0	.6						14	1.6	11	6.2	4.1
18	2.8	.6						17	1.5	11	5.9	4.1
19	3.0	.6						10	1.5	10	5.6	4.0
20	2.9	.6				0		0	1.5	9.7	5.9	3.9
21	2.8	.8						0	1.4	11	5.6	3.6
22	2.7	*.6						0	1.4	11	5.3	3.4
23	2.7	.4						0	1.5	9.9	5.1	3.4
24	2.7							0	1.5	9.2	5.4	3.9
25	2.7							0	1.6	9.0	6.1	4.3
26	2.7	*.4		0				0	4.4	8.8	6.8	4.7
27	2.7							0	6.6	8.0	6.4	5.6
28	2.7				0			0	6.7	8.2	6.2	5.0
29	2.7				-			0	10	7.9	6.6	5.0
30	2.6				-		*5	0	12	7.5	5.7	4.8
31	2.5	-			-			0	-	6.9	5.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	58.4	3.0	0	1.88	116
November	41.5	3.2	-	1.38	82
December	-	-	-	-	-
Calendar year					
January					
February					
March					
April					
May	162.3	17	0	5.24	322
June	76.4	12	0	2.55	152
July	347.1	15	6.9	11.2	688
August	210.9	9.2	5.1	6.80	418
September	139.8	5.9	3.4	4.66	277
Water year					

*Estimated.

Seco Ditch at head, near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°31', long. 105°32', in sec. 10, T. 26 N., R. 13 E., 2 miles southeast of Arroyo Seco, 4 1/2 miles north of Taos Pueblo, and 7 1/2 miles northeast of Taos.

Records available.- July 1934 to September 1935.

Extremes.- Maximum discharge during year, 34 second-feet July 3 (gage height, 2.10 feet); no flow at times.
1934-35: Maximum discharge and stage, those of July 3, 1935; no flow at times.

Remarks.- Records good except those estimated by interpolation, which are fair. Discharge below 5 second-feet based on formula for 2-foot Venturi flume. Flow regulated at head gate of ditch. No diversions above station. Ditch diverts from Rio Lucero and is used for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	9.2	0	0	16	3.2	2.5
2						-	10	0	0	22	3.7	2.6
3						-	11	0	0	28	3.4	2.9
4						-	11	0	0	25	3.9	3.2
5	†1.8					-	11	0	0	23	3.8	3.4
6						-	9.2	.2	0	15	4.3	3.2
7						-	8.1	.3	0	8.0	4.0	3.4
8						-	8.0	.7	0	7.8	3.6	3.4
9						-	7.3	.8	0	8.1	3.6	3.2
10						-	3.3	.9	0	6.7	3.4	3.0
11						-	0	.9	3.1	6.5	2.8	2.7
12			†1.7			-	0	.7	9.1	6.2	1.5	2.7
13						-	0	.6	10	6.3	1.9	2.6
14						-	0	.5	12	6.3	2.8	2.5
15						-	0	.4	11	5.9	2.3	2.5
16						-	0	.5	12	5.6	2.6	2.2
17						-	0	.6	11	5.5	2.7	2.2
18						-	0	.7	16	5.0	2.5	2.2
19						-	0	.8	20	4.6	2.3	2.1
20						5.5	0	*1.0	20	4.2	2.6	2.0
21	†.8					5.3	0	*1.2	20	5.2	2.4	1.9
22						5.3	0	*1.3	20	4.7	2.2	1.9
23		†2.0				4.1	0	*1.5	*20	4.3	2.2	1.9
24						3.1	0	1.7	*19	4.1	2.3	2.2
25						4.9	0	.4	*19	4.0	2.6	2.5
26						5.6	0	.2	*19	3.8	3.1	2.7
27					†1.7	6.6	0	.1	*18	3.4	3.0	3.3
28						7.2	0	.9	18	3.5	3.0	3.0
29						8.1	0	1.1	19	3.4	3.0	2.9
30						9.4	0	.5	18	3.3	2.9	2.7
31						10	-	0	-	3.0	2.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 20-31	75.1	10	3.1	6.26	149
April	88.1	11	0	2.94	175
May	18.5	1.7	0	.60	37
June	314.2	20	0	10.5	623
July	258.4	28	3.0	8.34	513
August	90.1	4.3	1.5	2.91	179
September	79.5	3.4	1.9	2.65	158
The period					1,830

*Estimated.
†Discharge measurement.

Juan Manuel Ditch near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°29', long. 105°34', in Antoine Leroux Grant, in sec. 16 (projected), T. 26 N., R. 13 E., 40 feet below heading, 2.5 miles south of Arroyo Seco, 3 miles north of Taos Pueblo, and 5.5 miles north of Taos.

Records available.- June to September 1935.

Extremes.- Maximum discharge during period, 13 second-feet July 21 (gage height, 1.33 feet); no flow at times.

Remarks.- Records good. Flow regulated at head gate of ditch. Discharge based on formula for 2-foot Venturi flume. No diversions above station. Ditch diverts from Rio Lucero and is used for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	4.8	0	0.3
2									-	3.7	0	.4
3									-	3.7	0	.4
4									-	4.6	0	.3
5									-	3.9	0	.3
6									-	3.3	0	.2
7									-	3.3	1.4	.3
8									-	2.2	1.9	.3
9									-	2.2	0	.2
10									-	1.4	0	.3
11									-	.5	0	.3
12									-	.5	0	.2
13									-	.6	0	.2
14									-	.6	0	.2
15									-	.6	0	.5
16									-	.4	0	.2
17									-	.4	.3	.2
18									-	.6	4.4	.2
19									-	1.2	3.5	.2
20									-	2.6	.3	.2
21									-	8.0	.3	.2
22									-	2.3	.3	.1
23									-	0	.3	.1
24									-	0	.3	.1
25									-	0	.3	.1
26									-	0	.3	.1
27									-	0	.3	.1
28									-	0	.3	.1
29									5.1	0	.3	.1
30									4.7	0	.3	0
31									-	0	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 29-30	9.8	5.1	4.7	4.90	19
July	51.4	8.0	0	1.66	102
August	15.1	4.4	0	.49	30
September	6.4	.5	0	.21	13
The period					164

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Prado Ditch near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°28', long. 105°34', in sec. 21, T. 26 N., R. 13 E., 2 miles northwest of Taos Pueblo, 3 1/2 miles south of Arroyo Seco, and 4 miles northeast of Taos.

Records available.- May 1934 to September 1935. (No record during winter.)

Extremes.- Maximum discharge during period May 10 to Sept. 30, 1934, 16 second-feet May 10 (gage height, 1.55 feet); minimum mean daily discharge, 0.6 second-foot Aug. 18. Maximum discharge during water year 1934-35, 24 second-feet June 7 (gage height, 2.02 feet); no flow at times.

Remarks.- Records good. Discharge based on formula for 2-foot Venturi flume. Flow regulated at head gate of ditch. No diversions above station. Ditch diverts from Rio Lucero a short distance upstream and is used for irrigation.

Discharge, in second-feet, water year October 1933 to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	4.9	3.7	3.6	2.8
2								-	6.6	3.2	3.5	2.4
3								-	7.4	2.9	3.4	2.0
4								-	5.3	3.4	3.3	1.8
5								-	5.8	3.4	3.2	1.7
6								-	7.8	4.3	3.1	2.4
7								-	6.8	3.4	3.1	2.0
8								-	5.7	4.6	3.0	2.0
9								-	4.5	3.5	2.8	2.5
10								*14	6.0	3.0	2.7	1.9
11								10	7.2	3.1	2.7	1.6
12								9.7	6.8	3.3	3.4	2.2
13								9.1	6.4	2.4	3.1	2.0
14								8.8	5.3	2.1	2.8	1.7
15								8.6	5.4	1.9	2.6	1.7
16								8.1	4.4	1.9	2.5	1.6
17								9.7	4.3	2.2	1.8	1.6
18								11	2.8	2.3	.6	1.8
19								9.0	1.1	2.0	2.0	1.3
20								6.4	2.1	1.6	1.9	1.0
21								10	2.6	2.3	1.9	.7
22								13	2.9	3.4	2.2	.7
23								9.0	3.5	3.1	1.9	3.6
24								7.9	5.1	1.9	1.6	6.4
25								8.6	4.2	3.3	4.1	4.2
26								7.9	3.6	6.3	4.9	4.0
27								7.5	3.7	5.1	2.9	4.2
28								6.4	3.9	4.6	2.7	5.1
29								4.4	3.9	3.4	2.6	3.4
30								4.7	4.1	3.8	2.4	3.0
31								4.8	-	4.3	2.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 10-31	188.6	14	4.4	8.57	374
June	144.1	7.8	1.1	4.80	286
July	99.7	6.3	1.6	3.22	198
August	84.9	4.9	.6	2.74	168
September	73.3	6.4	.7	2.44	145
The period					1,170

*Partly estimated.

Prado Ditch near Arroyo Seco, N. Mex.

(Continued)

Discharge, in second-feet, water year, October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	1.9				-	1.6	6.4	11	16	5.3	3.6
2	2.6	1.9				-	.5	5.4	14	14	6.0	3.6
3	2.4	1.4				-	0	5.3	17	10	5.9	4.1
4	2.2	1.8				-	0	6.1	17	8.1	6.8	4.2
5	2.9	1.6				-	0	5.8	18	7.3	6.4	4.5
6	3.6	1.2				-	0	4.2	19	11	7.0	3.9
7	1.9	1.2				-	0	4.7	16	13	5.3	4.0
8	.9	1.1				-	0	5.7	22	9.4	3.5	4.3
9	1.8	1.0				-	1.3	7.3	21	7.2	6.1	4.1
10	3.2	.9				-	2.5	7.8	18	6.9	5.8	3.8
11	2.6	.9				-	1.6	8.6	15	7.9	5.9	3.3
12	2.2	1.3	*2.0			-	1.2	8.9	14	7.4	6.9	3.3
13	1.9	1.4				-	1.4	10	14	8.6	6.6	3.3
14	1.4	1.2				-	2.3	11	13	11	5.7	3.0
15	1.2	1.3				-	6.9	9.7	12	9.9	4.6	2.6
16	.9	1.1				-	10	9.7	12	9.5	4.9	2.9
17	1.0	1.0				-	12	12	11	9.5	5.0	2.8
18	.9	.9				-	12	11	13	9.1	.3	2.9
19	.9	.8				-	9.9	.8	16	7.9	.5	2.8
20	1.5	.8				0	8.1	.6	16	5.9	4.1	2.7
21	2.2	.5				0	6.7	.7	16	3.9	4.1	2.7
22	2.8	.5				0	10	.7	16	6.0	3.8	2.6
23	3.4	1.0				0	10	.8	14	7.8	3.8	2.6
24	3.0	1.6				.1	9.0	.3	17	7.3	4.0	2.9
25	3.2	1.1				0	6.8	.4	20	6.9	4.4	3.4
26	3.4	†7		*0.1	*0	0	5.2	.5	19	6.7	4.8	3.6
27	3.4					.6	5.3	2.3	18	6.2	4.8	4.4
28	3.3	†.5				1.9	5.6	3.3	17	6.2	4.8	3.7
29	3.3					3.1	4.0	5.7	16	5.9	4.7	3.7
30	3.0					2.8	5.2	11	15	4.8	4.7	3.5
31	2.0	-				-	-	11	-	4.5	3.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	71.8	3.6	0.9	2.32	142
November	32.1	1.9	-	1.07	64
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 20-31	8.5	3.1	0	.71	17
April	139.1	12	0	4.64	276
May	177.7	12	.3	5.73	352
June	477	22	11	15.9	946
July	255.8	16	3.9	8.25	507
August	150.4	7.0	.3	4.85	298
September	102.8	4.5	2.6	3.43	204
Water year					

†Estimated.
*Discharge measurement.

Embudo Creek at Dixon, N. Mex.

Location.- Water-stage recorder, lat. 36°12', long. 105°55', in sec. 29, T. 23 N., R. 10 E., 1 mile northwest of Dixon and 1½ miles above confluence with Rio Grande.

Drainage area.- 305 square miles.

Records available.- October 1930 to September 1935 in reports of U. S. Geological Survey; October 1923 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge, about 3,010 second-feet Aug. 26 (gage height, 5.66 feet); minimum mean daily discharge, 12 second-feet Nov. 27, 30.
1930-35: Maximum discharge, about 5,190 second-feet June 13, 1933 (gage height, 6.66 feet); minimum mean daily discharge, 1 second-foot July 23, 24, 1932.

Remarks.- Records poor. Estimated discharge based on hydrographic comparison with nearby stations and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	17	13	22	34	28	74	220	650	172	106	233
2	30	17	14	22	28	31	92	229	644	152	116	260
3	28	17	13	25	28	38	103	216	657	172	149	263
4	27	17	14	25	26	31	116	210	692	152	188	243
5	27	17	16	30	22	28	127	213	664	127	203	213
6	24	16	19	36	42	27	115	216	673	110	200	213
7	23	16	20	40	36	28	94	239	692	106	181	197
8	21	16	21	36	33	31	92	368	657	106	156	160
9	20	17	21	38	29	30	117	402	638	106	140	122
10	20	16	21	38	31	28	80	430	584	106	191	99
11	20	17	22	35	28	27	76	480	542	92	158	69
12	20	19	23	40	22	28	67	450	554	92	133	49
13	17	17	26	27	25	31	72	486	566	115	127	36
14	17	17	32	41	21	36	96	486	620	122	101	36
15	17	19	33	47	*20	43	133	486	620	117	84	35
16	19	18	27	59	*18	39	188	497	608	99	88	34
17	20	25	24	25	29	43	216	638	536	84	86	33
18	21	25	22	30	27	41	226	660	480	74	138	31
19	24	22	16	33	*28	43	184	638	435	78	149	31
20	23	22	22	20	*30	43	181	608	412	57	149	28
21	20	23	30	18	*28	32	191	626	407	44	213	28
22	20	20	30	25	*27	38	213	620	389	46	163	27
23	21	17	29	36	*25	38	229	644	376	40	143	27
24	20	19	27	35	*24	38	263	638	352	32	181	34
25	21	17	26	34	22	30	246	692	305	23	140	74
26	19	14	25	36	21	32	216	664	246	21	*184	135
27	17	12	27	41	20	36	197	614	243	40	*120	127
28	17	17	35	40	23	41	203	590	239	54	59	92
29	16	14	35	43	-	50	206	602	210	35	74	84
30	16	12	31	42	-	60	200	632	188	21	203	72
31	16	-	23	39	-	72	-	644	-	48	233	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	652	31	16	21.0	1,290
November	532	25	12	17.7	1,060
December	737	35	13	23.8	1,460
Calendar year 1934	7,517	56	3	20.6	14,910
January	1,058	59	18	34.1	2,100
February	747	42	18	26.7	1,480
March	1,140	72	27	36.8	2,260
April	4,612	263	67	154	9,150
May	15,128	692	210	488	30,010
June	14,884	692	188	496	29,520
July	2,645	172	21	85.3	5,250
August	4,554	233	59	147	9,030
September	3,085	263	27	103	6,120
Water year 1934-35	49,774	692	12	136	98,730

*Estimated.

Rio Chama at Park View, N. Mex.

Location.- Water-stage recorder, lat. 36°43', long. 106°34', long. 106°34', in Tierra Amarilla Grant 150 feet (revised) above highway bridge, 650 feet (revised) below mouth of Rio Brazos, and half a mile northwest of Park View, Rio Arriba County. Prior to June 16, 1934, at site 150 feet downstream with datum 1.57 feet higher during period May 10, 1933, to June 16, 1934, and at datum 1.06 feet lower prior to May 10, 1933.

Drainage area.- 405 square miles.

Records available.- November 1912 to September 1916, October 1930 to September 1935 in reports of U. S. Geological Survey; November 1912 to September 1916, August 1924 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 4,970 second-feet May 25 (gage height, 6.75 feet); minimum recorded daily discharge, 13 second-feet Dec. 4.
1930-35: Maximum discharge, 5,770 second-feet May 22, 1932 (gage height, 6.68 feet at former site and datum prior to May 10, 1933; minimum mean daily discharge, 3 second-feet July 6, 7, 1934.

Remarks.- Records good except those estimated because of ice effect or missing gage-height record, which are poor. Estimates based on hydrographic comparison with nearby stations and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	21	20			50		864	2,770	578	167	148
2	30	29	*22			50		711	3,090	554	184	154
3	28	22	*17		*40	48	*380	630	3,300	518	139	120
4	27	22	*13			45		522	3,070	488	181	109
5	26	28	*15	*28		40		480	2,920	437	410	107
6	25	30	*20			36		582	3,050	395	238	91
7	23	34	*22			48		790	2,920	400	170	89
8	22	33	*24		*45	48	*400	1,440	2,750	375	139	130
9	22	29	*26			45		2,060	2,580	345	157	98
10	22	29	*24	30		40		2,670	2,440	320	151	85
11	24	30	*25	38	46	40		3,070	2,340	297	125	76
12	26	29	*27	35	40	45		2,710	2,110	279	139	69
13	31	30	*29	33	40	48		2,560	2,110	258	109	62
14	28	26	*30	39	45	55	*500	2,020	2,190	250	96	59
15	26	23	*33	38	*35	71		1,650	2,150	292	91	55
16	25	21	*33	24		75		1,870	2,020	230	151	55
17	24	28	*28	22	45	80	810	2,080	1,700	209	102	54
18	25	31	*23		52	73	702	2,210	1,490	209	94	51
19	25	31	*18		55	67	574	2,190	1,400	292	79	48
20	24	30			53	58	820	2,580	1,420	270	70	45
21	24	30		*30	53	58	942	2,020	1,380	254	65	45
22	23	31			58	69	1,150	1,920	1,310	230	63	45
23	23	20			57	69	1,120	2,300	1,170	206	72	45
24	23	23			55	73	1,150	3,050	1,080	192	78	60
25	22	25	*23		48	75	790	3,530	920	157	81	91
26	21	15			46	96	666	3,650	835	145	150	102
27	21	16			42	124	800	3,530	788	139	184	488
28	22	21		*40	48	151	1,140	3,530	745	122	188	284
29	23	23			-	161	1,260	3,530	676	117	139	242
30	21	19			-	219	1,180	3,410	632	122	258	195
31	20	-		46	-	260	-	2,980	-	192	234	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	759	33	20	24.5	1,510
November	779	34	15	26.0	1,550
December	725	33	13	23.4	1,440
Calendar year 1934	42,950	1,380	3	118	85,200
January	997	-	-	32.2	1,980
February	1,278	-	-	45.6	2,530
March	2,397	260	36	77.3	4,750
April	20,004	1,260	-	667	39,680
May	67,139	3,650	480	2,166	133,200
June	57,356	3,300	632	1,912	113,800
July	8,872	578	117	286	17,600
August	4,504	410	63	145	8,930
September	3,302	488	45	110	6,550
Water year 1934-35	168,112	3,650	13	461	333,500

*Estimated.

El Vado Reservoir near Tierra Amarilla, N. Mex.

Location.- Staff gage, lat. 36°36', long. 106°44', in NE¼ sec. 33, T. 28 N., R. 2 E., 2 miles below old town of El Vado, 13 miles southwest of Tierra Amarilla. Zero of gage is 9.565 feet above mean sea level.

Records available.- January to September 1935.

Extremes.- Maximum mean daily contents during period, 171,200 acre-feet July 16, 17 (gage height, 6,893.5 feet); minimum mean daily contents, 56 acre-feet Jan. 1.

Remarks.- Capacity of reservoir is 226,000 acre-feet at gage height, 6,910.0 feet. Stored water is used for irrigation of land in Middle Rio Grande Conservancy District. Gage-height record and table of storage capacity furnished by Middle Rio Grande Conservancy District.

Contents, in acre-feet, for period January to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				56	2,421	6,152	18,420	64,380	157,000	164,000	163,700	149,400
2				100	2,535	6,281	19,490	66,180	156,400	164,900	162,200	149,100
3				145	2,650	6,453	20,650	67,730	157,000	165,800	160,900	148,800
4				197	2,790	6,650	21,760	68,950	157,500	166,400	159,400	148,800
5				257	2,915	6,784	22,940	70,040	159,900	167,400	160,100	148,600
6				320	3,075	6,909	24,000	71,120	159,400	168,100	160,700	148,700
7				380	3,207	7,000	24,720	72,340	159,400	168,400	161,300	148,800
8				440	3,320	7,116	25,470	74,050	158,300	168,600	161,600	149,100
9				506	3,430	7,236	26,800	76,660	157,800	169,100	161,800	149,100
10				584	3,534	7,332	28,100	80,250	157,000	169,500	161,300	149,200
11				657	3,639	7,430	28,850	84,490	156,700	169,800	160,300	149,400
12				752	3,738	7,530	29,520	89,380	156,200	170,000	159,400	149,400
13				850	3,840	7,670	30,500	93,940	158,300	170,300	158,000	148,700
14				922	3,932	7,968	31,900	98,200	158,600	170,600	156,400	147,700
15				997	4,029	8,462	33,150	101,400	158,600	170,900	155,900	146,700
16				1,099	4,129	9,134	35,050	104,200	158,600	171,200	155,300	145,700
17				1,169	4,203	9,526	37,040	107,600	158,000	171,200	154,900	144,500
18				1,206	4,274	9,969	38,800	111,200	158,300	171,100	154,500	143,300
19				1,243	4,374	10,320	40,440	115,900	157,800	170,900	154,000	142,100
20				1,298	4,486	10,620	42,350	120,700	157,200	170,900	153,700	140,700
21				1,355	4,714	10,910	44,600	126,600	157,200	170,900	153,200	139,400
22				1,413	5,046	11,460	46,580	130,700	157,500	170,900	152,700	138,400
23				1,511	5,346	11,950	48,670	133,300	157,200	170,900	152,100	137,200
24				1,590	5,526	12,380	51,210	138,600	157,200	170,800	151,600	136,100
25				1,680	5,702	12,620	53,160	143,100	157,000	170,800	151,000	135,300
26				1,764	5,844	13,080	54,720	147,700	157,500	170,800	150,500	134,500
27				1,852	5,955	13,770	56,190	151,000	159,400	170,600	150,200	135,200
28				1,939	6,050	14,550	57,980	153,200	160,500	169,500	149,900	137,000
29				2,040	-	15,270	60,100	154,500	161,800	168,100	149,700	137,200
30				2,144	-	16,280	62,160	156,400	162,900	166,400	149,700	137,200
31				2,275	-	17,310	-	157,000	-	165,100	149,700	-

Note.- No storage prior to Jan. 1, 1935.

Rio Chama near Chamita, N. Mex.

Location.- Water-stage recorder, lat. 36°6', long. 106°8' in S½ sec. 31, T. 22 N., R. 8 E., 50 feet below Espanola-Ojo Caliente highway bridge, 3 3/4 miles northwest of Chamita, and 4 miles above confluence with Rio Grande.

Records available.- October 1912 to June 1915, October 1930 to September 1935 in reports of U. S. Geological Survey; October 1912 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 7,100 second-feet May 16 (gage height, 6.74 feet); minimum mean daily discharge, 4 second-feet July 7.
1930-35: Maximum discharge, 7,700 second-feet May 20, 1932 (gage height, 6.40 feet, former site and datum); maximum stage at present site and datum, that of May 16, 1935; no flow at times.

Remarks.- Records fair except those estimated for Dec. 1 to Jan. 17, Jan. 22-25 because of ice effect, which are poor. Estimates based on comparison with records at Otowi and Embudo and study of weather records. Diversions for irrigation above station. Subsequent to December 1934 flow regulated to an extent by operation of gates at El Vado Dam.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	13	50	50	163	61	154	554	3,620	16	1,130	304
2	44	13	30	60	133	66	167	463	3,530	35	1,530	348
3	56	13	30	60	115	93	219	421	3,530	41	1,280	335
4	20	16	40	40	118	104	292	400	3,440	30	1,540	268
5	21	23	50	40	115	78	329	428	2,320	20	765	219
6	25	39	50	70	118	41	317	470	3,800	7	209	190
7	25	49	60	90	118	30	252	515	3,710	4	258	104
8	26	21	50	70	115	41	236	588	3,530	51	258	163
9	23	7	50	70	93	56	311	774	3,350	111	185	176
10	23	9	50	70	75	58	323	850	3,260	49	209	93
11	26	16	50	90	75	63	230	940	2,850	37	729	53
12	26	17	60	80	78	69	252	930	2,620	49	850	26
13	25	20	50	80	69	69	298	820	1,560	81	980	59
14	23	26	60	80	58	248	449	840	2,030	100	910	478
15	21	32	60	90	63	400	630	738	2,390	90	604	470
16	23	28	60	100	53	348	830	1,190	2,320	81	414	442
17	20	26	40	120	44	195	890	1,930	2,170	110	374	485
18	20	25	50	104	69	137	970	1,300	1,830	263	387	515
19	20	25	60	93	63	133	756	1,580	1,830	263	348	639
20	23	39	30	49	51	111	1,060	2,620	1,760	286	361	702
21	20	72	30	46	61	104	1,060	2,690	1,510	292	515	774
22	20	69	50	60	368	87	1,090	1,830	1,350	298	368	729
23	20	46	30	70	246	100	1,020	1,560	1,420	280	361	765
24	21	39	30	90	154	100	970	1,380	1,240	268	354	880
25	20	41	30	100	78	87	675	1,580	1,220	263	348	1,300
26	18	44	30	63	44	93	522	1,960	890	274	361	1,000
27	14	34	30	66	41	78	538	2,620	224	394	747	1,180
28	13	37	40	63	41	84	648	2,930	93	485	613	2,030
29	13	35	60	63	-	93	720	3,180	49	801	374	729
30	13	35	50	75	-	122	684	3,350	30	850	668	449
31	13	-	40	133	-	150	-	3,620	-	765	773	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	707	56	13	22.8	1,400
November	909	72	7	30.3	1,800
December	1,390	60	30	44.8	2,760
Calendar year 1934	55,329	1,540	0	152	109,700
January	2,335	133	40	75.3	4,630
February	2,819	368	41	101	5,590
March	3,499	400	30	113	6,940
April	16,892	1,090	154	563	33,500
May	45,081	3,620	400	1,454	89,420
June	63,476	3,800	30	2,116	125,900
July	6,694	850	4	216	13,280
August	18,803	1,540	165	607	37,300
September	15,905	2,030	26	530	31,550
Water year 1934-35	178,510	3,800	4	489	354,100

El Rito Creek near El Rito, N. Mex.

Location.- Water-stage recorder, lat. 36°23', long. 106°13', in sec. 19, T. 25 N., R. 7 E., 3 miles northwest of El Rito.

Records available.- May 1931 to September 1935 in reports of U. S. Geological Survey; May to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 260 second-feet May 20 (gage height, 3.20 feet); minimum mean daily discharge, 0.5 second-foot Sept. 22, 23.
1931-35: Maximum discharge, 398 second-feet May 19, 1932 (gage height, 4.16 feet, former site and datum); minimum mean daily discharge, 0.3 second-foot June 21-23, 1934.

Remarks.- Records good except those estimated on basis of hydrographic comparison with records of nearby stations and study of weather records, which are poor. Stage-discharge relation affected by ice Dec. 4, 11, 17-20, 26, 27, 31, Jan. 1-8, 13, 17-31, Feb. 1-28, Mar. 1, 2, 4-7, 9, 11. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9		*1.2			*2.5	31	70	71	4.4	3.0	2.1
2	.8						39	58	67	5.1	3.9	2.2
3	.7	*0.9	1.4		*2.2	2.6	45	53	60	4.2	2.6	2.1
4	.7			*1.7			49	49	50	3.4	5.9	2.1
5	.7					*2.5	43	52	44	2.9	8.3	1.6
6	.8	1.0					28	59	41	2.9	5.6	1.2
7	.8	1.1	*1.4				20	70	36	3.0	5.1	1.3
8	.8	1.2			*2.5	2.7	22	106	31	3.4	2.9	2.1
9	.8	1.2		1.9		*2.6	17	136	29	3.2	2.2	1.4
10	.8	1.1		1.8		2.9	13	155	27	3.0	2.1	1.4
11	.8	1.2		1.8		*2.8	13	143	27	2.9	1.8	1.1
12	1.0	1.1	1.5	1.9		3.0	21	123	36	2.7	2.6	.9
13	1.1	1.2	1.5	*2.0		3.0	36	121	27	3.7	1.5	.9
14	1.0	1.2	1.4	2.1		3.9	60	106	24	3.0	1.4	.8
15	.9	1.1	1.4	2.1	*2.2	4.4	95	90	21	3.0	1.2	.7
16	.9	1.1	1.2	2.2		4.9	121	107	16	2.7	1.2	.7
17	.8	1.3				4.9	104	149	13	2.9	1.2	.6
18		1.4	*1.2			3.9	80	134	12	2.9	1.3	.6
19		1.3		*2.0		3.4	75	167	11	2.6	1.2	.6
20		1.3	*1.2			2.7	103	221	9.2	2.6	1.0	.5
21		1.3	1.3		*2.5	3.0	130	188	8.8	2.4	1.3	.7
22	*.8	1.3	1.5			2.6	143	163	8.2	1.9	1.1	.5
23		1.0	1.5			2.6	139	153	8.2	1.5	1.0	.5
24		.8	1.4			3.0	114	155	7.5	1.6	1.0	.6
25		.9	1.5	*2.5		2.6	70	165	6.9	1.9	1.0	2.1
26		1.1	*1.5			3.2	70	149	6.2	2.1	2.2	1.6
27		1.2			*2.2	5.9	92	130	5.9	2.7	1.9	7.8
28			1.5			6.9	112	124	6.2	1.8	1.4	5.9
29	*.9	*1.0	1.5		-	12	101	112	5.4	3.0	1.3	4.2
30			1.6	2.4	-	22	82	106	4.6	3.1	1.9	2.4
31		-	*1.5	*2.3	-	27	-	87	-	7.4	3.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	26.0	-	-	0.84	52
November	32.9	-	-	1.10	65
December	43.1	-	-	1.39	85
Calendar year 1934	1,198.2	22	.3	3.28	2,380
January	64.1	-	-	2.07	127
February	65.2	-	-	2.33	129
March	153.5	27	-	4.95	304
April	2,068	143	13	68.9	4,100
May	3,701	221	49	119	7,340
June	720.1	71	4.6	24.0	1,430
July	93.9	7.4	1.5	3.03	186
August	73.5	8.3	1.0	2.37	146
September	51.3	7.8	.5	1.71	102
Water year 1934-35	7,092.6	221	.5	19.4	14,070

*Estimated.

Rio Ojo Caliente at La Madera, N. Mex.

Location.- Water-stage recorder, lat. 36°20'45", long. 106°2'50", in NE¼ sec. 1, T. 24 N., R. 8 E., 2.5 miles south of La Madera and 4 miles north of Ojo Caliente. Prior to Apr. 23, 1934, water-stage recorder at site 2 miles upstream to a different datum.

Records available.- April 1932 to September 1935.

Extremes.- Maximum discharge during water year 1933-34, about 406 second-feet July 17 (gage height, 2.76 feet); minimum mean daily discharge, 1 second-foot Sept. 22.
Maximum discharge during water year 1934-35, about 995 second-feet July 26 (gage height, 4.10 feet); minimum mean daily discharge 1 second-foot Sept. 22-24.
1932-35: Maximum discharge, about 1,700 second-feet Aug. 28, 1932; maximum gage height, 7.60 feet (former site and datum) July 15, 1933; minimum, 1 second-foot at times.

Remarks.- Records poor. Stage-discharge relation affected by ice Jan. 21-25, 1935. Estimated records based on comparison with records at Questa and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1933 to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4	12	26		12	13	70	41	30	3	3	3
2	4	12	18		14	20	76	43	18	3	3	3
3	5	12	12		14	21	60	39	14	3	6	3
4	5	12	12		16	20	38	41	12	3	4	3
5	11	14	16		19	23	39	39	9	3	3	3
6	18	13	12		19	26	40	30	7	3	3	3
7	12	13	12		22	32	40	26	6	3	3	4
8	10	12	12		19	35		22	5	4	3	3
9	8	13	12		23	31		19	5	4	3	4
10	8	14	12		22	29		19	4	4	3	6
11	7	12	12		13	30		21	3	4	4	5
12	8	12	12	*15	15	31		21	3	4	4	5
13	8	12	12		19	33		18	3	4	4	4
14	12	12	14		17	35	*50	15	3	4	6	5
15	12	13	14		20	35		11	3	4	5	4
16	11	12	16		17	36		11	3	4	4	3
17	9	14	17		22	38		9	3	18	4	4
18	10	14	17		16	31		7	4	43	4	4
19	10	14	17		13	31		7	4	5	6	4
20	9	14	17		16	30		7	3	4	3	4
21	9	14	17		18	33		6	3	3	3	2
22	10	14	17		14	35		7	3	3	4	1
23	10	13	16		17	37	59	7	4	4	2	8
24	10	13			20	39	83	8	6	3	2	29
25	10	13		14	18	38	86	6	5	3	3	18
26	10	13	*15	12	17	40	75	8	4	17	3	12
27	10	13		12	16	46	64	12	4	7	3	9
28	11	14		12	16	52	62	27	4	4	3	8
29	10	16		12	-	63	54	16	4	4	3	5
30	11	19		11	-	86	45	15	3	4	3	4
31	11	-		12	-	99	-	41	-	3	4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	293	18	4	9.5	581
November	398	19	12	13.3	789
December	462	26	-	14.9	916
Calendar year 1933	19,533	742	2	53.5	38,790
January	445	-	-	14.4	883
February	484	23	12	17.3	960
March	1,148	99	13	37.0	2,280
April	1,641	83	38	54.7	3,250
May	601	43	6	19.4	1,190
June	182	30	3	6.1	361
July	182	43	3	5.9	361
August	111	6	2	3.6	220
September	173	29	1	5.8	343
Water year 1933-34	6,120	99	1	16.8	12,130

*Estimated.

Rio Ojo Caliente at La Madera, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4	19	7	16	24	16	83	230	281	6	11	30
2	4	16	7	18	24	18	97	194	269	6	7	26
3	5	12	7	19	22	21	128	173	269	7	*15	18
4	4	8	8	19	21	16	137	156	249	6	*20	32
5	3	7	9	21	21	15	153	150	230	5	*25	32
6	3	6	9	21	22	13	128	190	219	4	34	19
7	5	6	11	22	27	12	106	226	201	4	118	16
8	6	6	12	19	26	16	131	309	176	4	62	15
9	6	7	12	21	18	15	124	384	170	5	34	15
10	7	7	12	21	22	14	83	438	153	5	24	15
11	7	9	14	19	22	12	94	402	163	4	48	12
12	9	9	14	22	19	14	115	374	128	5	36	8
13	9	10	15	16	16	18	150	366	115	4	27	6
14	10	9	16	19	13	30	198	338	124	5	19	4
15	11	10	15	27	18	45	265	269	131	4	13	3
16	14	10	14	32	21	47	325	301	115	4	10	2
17	16	10	13	21	16	39	366	397	100	10	8	2
18	13	9	15	19	16	34	348	392	83	27	6	2
19	15	8	12	22	19	39	273	406	72	10	5	2
20	14	9	13	22	18	32	343	580	59	6	4	2
21	12	9	16	*10	24	26	392	595	50	57	4	2
22	11	9	16	*20	26	29	438	475	39	45	4	1
23	10	10	16	*30	24	29	460	433	39	13	2	1
24	12	10	16	*30	24	30	420	433	34	6	2	1
25	13	12	16	*30	19	32	265	433	29	5	2	2
26	12	10	15	32	16	34	230	420	19	102	2	4
27	13	6	16	30	12	54	281	384	16	29	2	21
28	13	7	19	30	13	54	343	366	14	11	4	32
29	15	7	21	30	-	59	343	343	12	12	5	21
30	18	6	18	26	-	75	313	334	7	12	5	15
31	21	-	16	26	-	86	-	305	-	30	7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	315	21	3	10.2	625
November	273	19	6	9.1	541
December	420	21	7	13.5	833
Calendar year 1934	5,975	99	1	16.4	11,850
January	710	32	10	22.9	1,410
February	563	27	12	20.1	1,120
March	974	86	12	31.4	1,930
April	7,132	460	83	238	14,150
May	10,796	595	150	348	21,410
June	3,566	281	7	119	7,070
July	453	102	4	14.6	899
August	565	118	2	18.2	1,120
September	361	32	1	12.0	716
Water year 1934-35	26,128	595	1	71.6	51,820

*Estimated.

Rio Santa Cruz at Cundiyo, N. Mex.

Location.- Water-stage recorder, lat. 35°58', long. 105°55', in SE¼NW¼ sec. 17, T. 20 N., R. 10 E., 135 feet below highway bridge at junction of Rio Medio and Rio Frijoles to form Rio Santa Cruz and a quarter of a mile northwest of Cundiyo. Prior to Oct. 30, 1934, at site 35 feet downstream to a datum 1.06 feet lower.

Records available.- September 1931 to September 1935 in reports of U. S. Geological Survey; June 1928 to June 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 575 second-feet Aug. 20 (gage height, 3.87 feet); minimum mean daily discharge (estimated), 3 second-feet Jan. 21.
1931-35: Maximum discharge, about 2,610 second-feet Sept. 24, 1931 (gage height, 8.20 feet, former datum); minimum mean daily discharge, 3 second-feet Feb. 3, 1932, Jan. 21, 1935.

Remarks.- Records fair except those estimated because of ice effect, which are poor. Estimates based on comparison with records of nearby stations and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	6.9	*5	*6.8	*11	*9	41	38	226	59	49	48
2	11	9.7	*5	*6	*9	12	47	35	214	61	69	49
3	11	5.2	*5	*6	*9	12	49	32	215	60	71	49
4	11	9.3	*5	*6	*8	9.7	48	31	215	50	67	51
5	11	8.9	*6	*6.3	*7	9.7	47	31	220	45	65	50
6	10	8.0	*7	7.6	*13	*8	37	32	225	44	54	46
7	9.8	7.6	*8	8.0	12	*8	34	42	231	44	47	45
8	9.8	7.2	*8	*6.8	11	8.9	35	65	231	43	45	49
9	9.4	7.2	*8	7.6	11	8.4	33	78	215	42	44	44
10	9.8	7.6	*8	7.6	10	8.0	29	82	197	44	50	41
11	10	7.6	*8	8.0	9.3	7.6	29	91	188	35	45	39
12	12	7.6	*9	8.0	*7	8.4	29	95	180	34	42	36
13	13	8.0	*10	7.6	*8	10	34	90	178	33	38	33
14	11	7.2	*12	8.4	*7	18	44	91	182	31	33	32
15	10	6.8	*13	9.3	*6	23	57	85	187	34	30	30
16	9.4	7.6	*10	7.6	*5	19	74	90	184	33	28	28
17	11	9.7	*9	5.2	*8	19	54	109	167	30	29	27
18	11	8.4	*8	*6	*7	16	54	145	152	35	30	25
19	9.0	8.4	*6	*6	*6	16	47	194	137	31	34	25
20	8.6	6.3	*8	*4	*9	18	46	170	128	28	77	24
21	8.6	7.2	9.3	*3	*9	18	46	185	122	33	68	22
22	9.0	7.6	*7.6	*5	*8	21	45	194	121	27	53	23
23	8.3	6.3	*7.2	*7	*8	20	45	210	113	23	49	23
24	8.0	9.3	*6.8	*7	*7	19	47	228	101	21	44	26
25	8.3	7.2	*6.8	*6	*7	18	40	276	89	22	39	35
26	8.3	6.3	*7.2	*7	*7	20	38	295	84	23	38	37
27	8.6	8.0	*6.8	*8	*6	27	37	277	79	23	43	38
28	8.6	8.0	7.6	*9	*7	29	40	252	75	26	51	33
29	8.3	7.6	7.6	11	-	32	40	237	68	26	48	28
30	8.1	*7	7.2	*13	-	37	38	237	64	23	53	25
31	8.4	-	*6.8	*12	-	40	-	236	-	25	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	302.3	13	8.0	9.75	600
November	231.7	9.7	5.2	7.72	460
December	238.9	13	5	7.71	474
Calendar year 1934	4,310.5	68	3.2	11.8	8,550
January	226.8	13	3	7.32	450
February	232.3	13	5	8.30	461
March	529.7	40	7.6	17.1	1,050
April	1,284	74	29	42.8	2,550
May	4,253	295	31	137	8,440
June	4,788	231	64	160	9,500
July	1,088	61	21	35.1	2,160
August	1,485	77	28	47.9	2,950
September	1,061	51	22	35.4	2,100
Water year 1934-35	15,720.7	295	3	43.1	31,200

*Estimated.

Nambe Creek near Nambe, N. Mex.

Location.- Water-stage recorder, lat. 35°52', long. 105°57', in Nambe Pueblo Grant, about 1,000 feet below diversion dam for Nambe Canal and 2½ miles southeast of Nambe, Santa Fe County.

Records available.- October 1932 to September 1935.

Extremes.- Maximum discharge during year, about 878 second-feet Aug. 23 (gage height, 6.43 feet); no flow at times.
1932-35: Maximum discharge and gage height, those of Aug. 23, 1935; no flow at times.

Remarks.- Records poor. Discharge estimated because of ice effect or missing gage-height record by comparison with records of station at Santa Cruz and study of weather records. One diversion for irrigation above station. Stage-discharge relation affected by ice Nov. 30, Dec. 2, 3, 8-10, 12, 18, 26, 27, Jan. 1, Feb. 2-5, 17.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	7.2	2.9	*9.6	1.3	3.5	6.5	11	65	28	14	24
2	.1	3.5	*2.9	8.3	*1.4	3.5	7.2	11	63	27	18	31
3	.1	1.1	*4.7	7.2	*1.4	3.3	8.6	10	65	27	18	40
4	0	1.6	*4.0	7.2	*1.1	2.8	9.8	11	68	25	24	37
5	0	1.7	*3.5	7.2	*1.2	2.9	9.0	11	71	24	22	33
6	0	1.4	*3.0	6.8	2.2	2.8	6.5	11	71	22	23	30
7	.1	3.5	*2.8	6.5	2.8	2.8	5.8	13	74	20	20	32
8	0	6.3	*6.5	5.0	2.8	2.6	5.8	15	77	17	20	29
9	.1	5.8	*6.8	3.7	4.0	2.6	*7	16	72	12	22	27
10	.1	5.5	*7.5	4.5	3.8	2.4	*6	19	69	11	20	24
11	0	6.3	8.3	4.7	3.5	2.4	*6	23	65	12	19	21
12	.2	5.8	*11	4.7	3.5	2.6	*6	24	68	12	20	17
13	0	5.5	12	5.8	3.3	2.8	*8	24	72	11	22	16
14	0	4.0	9.4	6.8	3.3	3.1	*10	24	82	11	18	15
15	.1	3.7	9.4		2.9	4.0	*13	24	77	14	17	14
16	0	4.2	10	*8	4.7	3.7	*16	26	83	13	16	14
17	0	6.0	10		*4.2	5.0	*12	31	72	13	18	14
18	0	4.7	*10	9.0	4.0	4.7	*12	34	68	15	22	13
19	0	4.5	10	7.5	3.7	5.5	*10	38	66	12	30	13
20	0	3.8	9.8	8.6	3.7	5.5	*10	41	59	11	34	8.9
21	0	3.7	8.6	7.9	3.8	4.5	*10	42	74	11	22	11
22	0	3.7	8.3	6.8	4.2	4.7	*10	40	88	10	20	11
23	0	3.8	8.6	5.8	4.0	5.0	*10	44	83	8.9	43	11
24	2.8	5.5	8.6	5.5	4.2	5.5	*11	50	72	8.3	15	13
25	*2.0	4.0	8.3	5.2	3.8	4.0	*11	45	61	7.7	25	18
26		4.7	*7.2	5.0	4.5	4.2	11	48	52	11	22	18
27	*.1	3.7	*7.9	4.7	3.3	5.2	12	55	47	12	22	20
28		4.2	7.9	4.5	3.1	5.5	12	53	42	15	16	18
29		3.7	8.3	3.3	-	5.5	12	57	37	13	17	18
30	*1.3	* 2.6	7.9	.8	-	6.5	12	59	33	12	21	18
31	5.0	-	8.6	1.3	-	6.5	-	63	-	12	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12.5	5.0	0	0.40	25
November	125.7	7.2	1.1	4.19	249
December	234.7	12	2.8	7.57	466
Calendar year 1934	1,706.6	48	0	4.68	3,390
January	187.9	9.6	.8	6.06	373
February	90.3	4.7	1.1	3.22	179
March	125.6	6.5	2.4	4.05	249
April	286.2	16	5.8	9.54	568
May	973	63	10	31.4	1,930
June	1,996	88	33	66.5	3,960
July	457.9	28	7.7	14.8	908
August	659	43	14	21.3	1,310
September	608.9	40	8.9	20.3	1,210
Water year 1934-35	5,757.7	88	0	15.8	11,430

*Estimated.

Nambe Canal near Nambe, N. Mex.

Location.- Water-stage recorder, lat. 35°52', long. 105°57', in Nambe Pueblo Grant, about 300 feet below head of Nambe Canal, which diverts from Nambe Creek about 2½ miles southeast of Nambe, Santa Fe County.

Records available.- May 1932 to September 1935.

Extremes.- Maximum discharge during year, 5.5 second-feet Oct. 25 (gage height, 1.26 feet); no flow at times.
1932-35: Maximum discharge, 6.5 second-feet Sept. 23, 1934 (gage height, 1.38 feet); no flow at times.

Remarks.- Records fair except those estimated, which are poor. Discharge based on formula for 1-foot Venturi flume. Flow regulated at head gate 300 feet above. Water used for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.8	0.3			0.5	0.5	1.7	0.1	1.3	1.1	1.3
2	.5	.6	.6			.5	.4	1.4	.5	1.8	1.2	1.0
3	.4	.9			*0.3	.5	.4	.9	1.1	2.4	1.2	.3
4	.4	1.4				.4	.3	.5	1.4	1.2	.8	.2
5	.4	.7	*.6			.4	1.1	.6	1.2	1.1	.5	.8
6	.4	.7		*0.5	*.4	.3	1.5	1.0	.9	1.2	.2	0
7	.4	.5	.6		*.4	.4	1.4	.7	1.0	1.1	.2	0
8	.4	.2	.6		.4	.6	1.4	.2	.4	2.7	.3	0
9	.3	.2	.6		.4	.6	1.4	1.6	.8	3.8	.3	0
10	.2	.2	.6		.4	.5	1.7	1.3	1.1	3.7	.3	.8
11	.2	.2	.6		.2	.5	1.2	1.2	1.7	3.5	.3	1.7
12	.2	.1	.6		.2	.5	.9	.7	1.8	2.6	2.2	1.6
13	.2	.1	.5		.2	.9	.3	1.5	1.3	2.7	3.5	1.5
14	.1	.1	.6		.2	1.6	0	1.5	2.3	2.0	1.5	1.2
15	.1	.1	.6	*.4	.2	1.4	0	.2	2.8	2.6	.6	.5
16	.1	.1	.5		.2	1.0	.4	2.3	2.1	3.0	1.8	1.0
17	.1	.1	.6		.2	.8	1.0	2.3	1.3	2.2	1.6	.9
18	.1	.1			.2	.8	1.1	0	.2	1.3	.2	.9
19	.1	.1		.4	.3	.7	.4	0	.2	1.2	.1	.6
20	.1	.1			.4	.7	1.0	0	.2	1.0	.1	.3
21	.3	.1	*.6		.5	.7	.3	.1	.5	1.2	0	.5
22	.3	.1			.5	.9	.5	.5	.7	1.3	.2	.5
23	.3	.1			.5	.8	.4	1.0	.5	1.4	.2	.6
24	.5	.1		*.3	.4	.9	.5	1.2	.4	2.6	0	.8
25	3.6	0			.4	.8	.5	.5	1.3	3.3	0	.2
26	5.2	0			.4	.8	.7	0	1.1	2.7	0	0
27	5.0	0			.5	.7	.9	.3	.7	1.7	0	.9
28	5.0	0	*.5		.3	.7	1.4	1.0	.8	0	.3	1.0
29	4.9	0		.2	-	.6	1.6	.9	.8	1.5	1.1	.8
30	4.1	0		*.2	-	.5	.8	1.4	.6	1.9	.1	.7
31	2.7	-		*.2	-	.5	-	.8	-	.6	.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	37.1	5.2	0.1	1.20	74
November	7.7	1.4	0	.26	15
December	17.5	-	-	.56	35
Calendar year 1934	168.4	5.2	0	.46	334
January	11.8	-	.2	.38	23
February	9.3	.5	.2	.33	18
March	21.5	1.6	.3	.69	43
April	24.0	1.7	0	.80	48
May	27.8	2.3	0	.90	55
June	29.8	2.8	.1	.99	59
July	60.6	3.8	0	1.95	120
August	20.3	3.5	0	.65	40
September	20.6	1.7	0	.69	41
Water year 1934-35	288.0	5.2	0	.79	571

*Estimated.

RIO GRANDE BASIN

Santa Fe Creek near Santa Fe, N. Mex.

Location.- Water-stage recorder, lat. 35°41', long. 105°50', in SW¼SW¼ sec. 24, T. 17 N., R. 10 E., about 300 feet below upper storage reservoir of New Mexico Power Co. and 6 miles east of Santa Fe.

Records available.- October 1930 to September 1935, May to June 1910 at a site 3 miles downstream, April 1913 to December 1914 at a site 2 miles downstream, in reports of U. S. Geological Survey; November 1930 to December 1931, January 1913 to November 1930 at a site 2 miles downstream, in reports of State engineer.

Extremes.- Maximum discharge during year, 66 second-feet May 21 (gage height, 1.59 feet); minimum mean daily discharge, 0.8 second-foot Feb. 18, 19, 23, 24.
1930-35: Maximum discharge, 139 second-feet Sept. 19, 1931 (gage height, 2.35 feet); minimum mean daily discharge, 0.6 second-feet Nov. 13, 1933.

Remarks.- Records good except those estimated on basis of gate operations at reservoir upstream, which are fair. Flow regulated at dam immediately above station. No diversions above gage.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.2	1.2	1.3	1.3	2.3	4.7		41	13	5.7	7.0
2	1.0	1.3	1.2	1.3	1.3	2.3	4.7		38	13	6.0	8.3
3	1.0	2.7	1.0	1.3	1.3	2.5	5.0		37	9.7	6.3	19
4	1.2	4.3	1.3	1.3	1.4	2.2	5.0	*7	37	7.0	7.6	19
5	1.2	4.5	1.3	1.2	1.3	1.9	5.0		38	7.3	9.3	18
6	1.2	4.3	1.2	1.3	1.2	1.7			41	7.3	9.7	17
7	1.3	4.3	1.3	1.2	1.0	1.6			41	7.0	12	16
8	3.3	4.7	1.2	1.2	1.2	1.7		7.0	40	7.0	14	15
9	6.3	4.3	1.2	1.3	1.2		*5	7.6	36	7.3	14	14
10	6.7	4.3	1.2	1.2	1.2			8.6	33	6.7	14	14
11	6.3	4.5	1.2	1.0	1.0			9.7	30	6.7	14	12
12	6.3	4.5	1.2	1.2	1.0			11	30	6.7	14	11
13	6.0	4.5	1.3	1.2	.9			12	28	6.3	13	10
14	3.0	4.5	1.2	1.2	.9	*1.7		13	31	6.7	13	9.7
15	1.2	3.1	1.2	1.2	.9			13	31	6.7	13	9.3
16	1.0	1.9	1.2	1.2	1.0			14	29	6.0	13	8.6
17	1.0	1.5	1.2	1.0	.9			20	25	6.0	8.9	7.9
18	1.2	1.0	1.2	1.2	.8			28	22	6.3	6.7	8.3
19	1.0	1.0	1.2	1.0	.8			43	20	6.0	7.0	9.3
20	1.0	1.0	1.2	1.2	.9			59	20	5.7	7.0	10
21	1.2	1.0	1.0	1.0	.9	*2.9	*6	58	19	5.7	3.5	10
22	1.0	.9	1.3	1.0	.9	4.0		50	18	5.5	2.2	10
23	1.0	1.0	1.3	1.2	.8	3.8		53	16	5.7	2.2	10
24	1.2	.9	1.2	1.2	.8	3.8		60	16	5.7	3.3	8.9
25	1.0	.9	1.3	1.0	1.7	3.5		62	16	5.7	4.5	7.9
26	1.0	1.2	1.2	1.2	2.5	3.5		59	15	5.7	5.0	7.9
27	1.2	1.0	1.2	1.2	2.0	3.8		54	14	6.0	5.7	7.9
28	1.2	1.0	1.2	1.2	2.2	4.0		49	14	5.7	6.7	7.9
29	1.2	1.2	1.2	1.2	-	4.5		46	14	5.7	6.7	7.9
30	1.3	1.2	1.2	1.2	-	4.5	*7	44	13	5.5	7.0	7.6
31	1.3	-	1.3	1.2	-	4.5	-	43	-	5.7	7.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	64.8	6.7	1.0	2.09	129
November	73.7	4.7	.9	2.46	146
December	37.6	1.3	1.0	1.21	75
Calendar year 1934	947.8	9.4	.9	2.60	1,880
January	36.6	1.3	1.0	1.18	73
February	33.3	2.5	.8	1.19	66
March	79.4	4.5	1.6	2.56	157
April	167.4	-	4.7	5.58	332
May	872.9	62	-	28.2	1,730
June	803	41	13	26.8	1,590
July	211.0	13	5.5	6.81	419
August	262.0	14	2.2	8.45	520
September	329.4	19	7.0	11.0	653
Water year 1934-35	2,971.1	62	.8	8.14	5,890

*Estimated.

Rio Puerco at Rio Puerco, N. Mex.

Location.- Water-stage recorder, lat. 34°47', long. 107°, in sec. 31, T. 7 N., R. 1 W., in San Clemente Grant, at Atchison, Topeka & Santa Fe Railway bridge in Rio Puerco.

Records available.- Fragmentary records September 1910 to October 1911, August 1912 to December 1914, March 1934 to September 1935 in reports of U. S. Geological Survey (only gage heights prior to March 1913); January 1913 to December 1925, September 1926 to December 1927 in reports of State engineer.

Extremes.- Maximum discharge during period Mar. 1 to Sept. 30, 1934, about 11,900 second-feet Sept. 24 (gage height, 4.38 feet); no flow at times.
Maximum discharge during water year 1934-35, about 28,300 second-feet Aug. 21 (gage height, 7.24 feet); no flow at times.
Maximum discharge during flood of Sept. 23, 1929, about 40,000 second-feet.

Remarks.- Records fair between 100 and 2,000 second-feet except those estimated, which are poor. Records poor below 100 and above 2,000 second-feet. Stage-discharge relation affected by ice Jan. 20, 21, 1935. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1933 to September 1934

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	282	0	*10	1,120
2								0	41	0	1	290
3								0	22	0	1	41
4								0	23	0	0	106
5								0	17	0	1	64
6						†0		0	7	0		17
7								0	3	0	*13	453
8								0	1	0		1,330
9								0	1	0		230
10								0	1	0		170
11								11	1	0		100
12		†4						0	1	0		37
13								0	1	0		*250
14								0	0	0		
15								0	0	0		
16	†10		†7		†0			0	0	0	*20	
17								0	0	0		
18								0	0	0		
19								0	0	0		*20
20				†14				0	0	0		
21							†0	0	0	0		
22								0	0	2		
23								0	0	3		
24							•	0	4	146	37	6,720
25								0	1	91	842	1,010
26								0	0	0	661	162
27								0	0	0	2,120	30
28								0	0	*180	1,820	22
29								8	0		724	19
30								19	0	*40	75	12
31								666	-		50	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	0	0	0	0	0
April	0	0	0	0	0
May	704	666	0	22.7	1,400
June	416	282	0	13.9	825
July	542	180	0	17.5	1,080
August	6,581	2,120	0	212	13,050
September	12,383	6,720	12	413	24,560
The period					40,920

*Estimated.
†Discharge measurement.

Note.- Records for water year 1933-34 are revised records and supersede those published in Water-Supply Paper 763.

Rio Puerco at Rio Puerco, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	1	0	1	46	7	*7	1	179		185	528
2	5	1	0	0	33	3	6	1	179		37	196
3	3	1	0	0	33	3	6	2	170		26e	577
4	3	1	0	0	19	2	5	3	162		1,400	70
5	3	1	0	1	15	7	5	12	162		*7,600	80
6	3	1	0	2	12	17	5	6	154		*1,200	132
7	3	1	1	12	11	12	5	5	145		390	50
8	3	0	1	11	12	12	3	75	75		530	719
9	3	0	1	7	12	12	3	80	41		93	610
10	3	1	1	5	12	12	3	46	24		11	80
11	3	1	1	3	11	17	3	41	12		24	15
12	5	1	1	9	11	12	3	46	*130		127	6
13	6	1	9	259	9	11	11	41	*40		1,010	1
14	5	1	11	250	7	*5	11	59			119	0
15	5	1	9	30	7	*2	7	64	9		19	0
16	9	1	5	11	6	*180	3	37	9		27	0
17	9	2	2	270	3	*230	1	33	9		24	0
18	5	2	3	100	1	*130	1	24	11		3	0
19	1	1	1	17	1	*70	3	24	15		7	0
20	1	1	1	*1	1		24	27	12		126	0
21	1	2	1	*5	1		41	126	1		8,200	0
22	1	1	1	19	1	*30	19	179	0		3,150	0
23	1	1	2	152	138		9	179	0		554	0
24	1	1	1	12	59		3	196	0		280	0
25	1	0	0	9	30		5	179	0		179	638
26	1	1	0	5	24		5	179	0		138	827
27	1	1	0	5	15		7	196	0		250	1,080
28	1	1	1	3	12		3	213	0		508	4,690
29	1	1	6	3	-	*8	2	213	0		762	1,640
30	1	0	6	15	-		2	204	0		5,410	378
31	1	-	3	112	-		-	196	-		3,370	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	95	9	1	3.1	188
November	29	2	0	1.0	58
December	68	11	0	2.2	135
Calendar year					
January	1,329	270	0	42.9	2,640
February	542	138	1	19.4	1,080
March	972	230	2	31.4	1,930
April	211	41	1	7.0	419
May	2,687	213	1	86.7	5,330
June	1,579	179	0	52.6	3,130
July	0	0	0	0	0
August	36,001	8,200	3	1,161	71,410
September	12,317	4,690	0	411	24,430
Water year 1934-35	55,830	8,200	0	153	110,800

*Estimated.

Bluewater Creek near Bluewater, N. Mex.

Location.- Water-stage recorder, lat. 35°18', long. 108°1', in SW¼ sec. 5, T. 12 N., R. 11 W., 2⅝ miles northwest of Bluewater and 8 miles below storage reservoir of Bluewater-Toltec Irrigation District.

Drainage area.- 235 square miles.

Records available.- May 1912 to December 1914, October 1930 to September 1935 in reports of U. S. Geological Survey; May 1912 to June 1919, April 1921 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 592 second-feet July 18 (gage height, 5.25 feet); no flow Feb. 3.
1930-35: Maximum discharge and stage, those of July 18, 1935; no flow Mar. 9, 1931, and Feb. 3, 1935.

Remarks.- Records fair except those estimated because of ice effect or missing gage-height record, which are poor. Estimates were based on existing gage-height record and study of weather records. Flow regulated by storage in Bluewater-Toltec Reservoir for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6		*0.4	0.2	0.4	3.7	*8.8	59	42	64	4.6
2	.4	.6		*.4	.1	.4	3.9	*9.6	64	41	49	4.8
3	.4	.6		*.4	0	.6	4.8	*10	70	37	35	4.6
4	.4	.6		*.4	.1	.5	5.5	11	67	30	14	4.4
5	.4	.7		*.4	.1	.4	6.2	9.6	68	30	8.2	4.4
6	.3	.7		*.8	.2	.3	6.9	8.8	70	30	6.9	4.4
7	.4	.7	*0.5	*.4	.5	.4	7.4	8.2	74	30	7.1	4.8
8	.4	.7		*.4	.3	.5	8.0	8.0	76	36	11	4.8
9	.4	.7		*.4	.2	.6	8.2	7.7	76	39	11	4.6
10	.4	.7		*.3	.3	.8	*8.2	12	75	38	11	4.6
11	.4	.7		*.3	.2	.6	*8.2	15	75	52	12	4.4
12	.4	.7		*.3	.2	.6	*8.2	15	75	64	11	4.4
13	.4	1.1		*.3	.3	.7	*8.2	14	60	66	11	4.4
14	.4	.9		*.3	.4	.7	8.2	20	49	64	14	4.2
15	.4	.8	.6	.3	.2	.8	8.2	22	36	65	22	3.9
16	.4	.8	.4	*.4	.1	.7	8.2	22	35	66	17	6.9
17	.4	.7	.4	*.5	*.1	.6	8.5	22	49	64	17	6.9
18	.4	.7	*.4	*.5	*.1	.7	9.0	22	56	92	6.6	6.6
19	.4	.7	.4	*.6	*.1	.8	8.8	19	56	72	5.1	6.6
20	.4	.7	*.4	*.6	*.2	.9	8.8	17	66	52	7.4	6.4
21	.4	.8	.4	*.6	*.3	1.0	9.0	20	74	22	5.3	6.2
22	.4	.7	.4	*.6	*.4	1.1	9.0	16	56	21	5.1	6.4
23	.4	*.6	.4	*.6	.4	1.2	9.0	16	39	26	4.8	6.6
24	.4	*.7	.4	*.5	.4	1.3	*8.9	16	38	30	4.8	8.0
25	.4	*.7	*.4	*.5	.3	1.4	*8.8	17	39	30	4.6	5.5
26	.4	*.7	*.4	*.5	.2	1.6	*8.6	20	52	38	4.6	5.3
27	.4	*.8	*.4	*.5	.2	1.9	8.5	19	48	44	8.8	*5.5
28	.4	.9	*.4	*.5	.3	2.0	8.5	47	47	44	9.6	5.7
29	.4	*.5	*.4	.5	-	2.5	8.5	50	46	44	10	*5.6
30	.5	*.5	.4	.4	-	2.7	8.0	51	46	62	12	*5.6
31	.5	-	*.4	.3	-	3.4	-	51	-	73	4.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12.5	0.5	0.3	0.40	25
November	21.3	1.1	.5	.71	42
December	14.0	-	-	.45	28
Calendar year 1934	2,205.9	66	.3	6.04	4,370
January	13.9	.8	.3	.45	28
February	6.4	.5	0	.23	13
March	32.1	3.4	.3	1.04	64
April	233.9	9.0	3.7	7.80	464
May	604.7	51	7.7	19.5	1,200
June	1,741	76	35	58.0	3,450
July	1,444	92	21	46.6	2,860
August	414.7	64	4.6	13.4	823
September	161.1	8.0	3.9	5.37	320
Water year 1934-35	4,699.6	92	0	12.9	9,320

*Estimated.

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Alamosa River near Monticello, N. Mex.

Location.- Water-stage recorder, lat. 33°35', long. 107°36', in SW¼ sec. 31, T. 8 S., R. 7 W., just below mouth of Wildhorse Creek, Alamosa dam site, and old Fort Quitman and 15 miles northwest of Monticello.

Drainage area.- 470 square miles.

Records available.- May 1931 to September 1935 in reports of U. S. Geological Survey; October to December 1929, May to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 7,050 second-feet Aug. 18 (gage height, 6.83 feet); minimum mean daily discharge, 5.8 second-feet Jan. 13, 14.
1931-35: Maximum discharge, that of Aug. 18; minimum mean daily discharge, 5.6 second-feet Jan. 9, 1932.

Remarks.- Records good except those above 10 second-feet and those estimated by interpolation and study of weather records, which are poor. No diversions above station; entire normal flow diverted below for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.4	7.4	8.0	6.6	6.4	6.9	*6.8	7.2	7.8	6.7	28	8.9
2	7.4	7.6	8.1	6.6	6.1	6.9	*6.8	7.2	7.8	6.6	11	16
3	7.4	7.4	8.1	6.6	6.2	6.9	*6.8	7.2	7.4	6.6	8.1	18
4	7.4	7.1	8.1	6.4	6.2	6.9	*6.8	7.4	7.2	6.6	8.0	9.2
5	7.6	6.9	8.1	6.2	6.2	6.7	*6.8	7.4	7.1	6.6	*7.8	9.2
6	7.6	6.9	8.1	6.6	6.2	6.7	*6.8	7.4	7.1	6.4	19	7.4
7	7.6	6.9	8.1	6.1	6.2	6.7	*6.8	7.4	7.1	6.2	9.8	7.2
8	7.4	6.9	8.3	6.1	6.2	6.6	*6.8	7.4	6.9	6.2	8.5	7.2
9	7.1	6.9	8.3	6.1	6.2	6.6	*6.8	7.4	6.9	6.2	8.1	7.2
10	7.1	6.9	8.1	6.0	6.4	6.6	*6.8	7.4	6.9	6.1	8.0	7.2
11	6.9	6.9	8.0	6.0	6.6	6.6	*6.8	7.4	6.9	6.1	7.6	7.2
12	7.1	7.6	8.0	6.0	6.6	6.6	*6.8	7.4	6.9	6.0	94	7.2
13	7.2	6.7	8.0	5.8	6.6	6.6	*6.8	7.4	7.1	6.2	7.6	7.1
14	7.1	6.7	7.8	5.8	6.6	6.7	*6.8	7.4	7.1	6.1	7.2	7.1
15	7.6	6.9	7.8	6.0	6.7	6.6	*6.8	7.4	6.9	6.1	7.2	7.1
16	7.2	7.2	7.6	6.0	6.7	6.6	*6.9	7.4	6.9	6.1	7.1	7.1
17	7.2	7.2	7.6	6.1	6.9	6.7	*6.9	7.4	6.7	6.2	7.1	6.9
18	7.2	7.2	7.4	6.0	6.7	6.7	*6.9	7.4	6.7	6.2	193	6.9
19	7.2	7.2	7.4	6.0	6.7	6.7	*6.9	7.4	6.7	6.2	7.1	6.9
20	7.2	7.2	7.2	6.0	6.9	6.7	*6.9	7.4	*6.9	6.6	7.4	6.9
21	7.4	7.4	7.2	6.0	6.9	6.7	*6.9	7.4	7.1	6.4	7.1	6.9
22	7.2	7.4	7.2	6.0	6.9	6.7	*6.9	7.4	7.1	6.7	15	6.9
23	7.2	7.4	7.1	6.1	6.9	6.6	*6.9	*7.4	7.1	6.7	7.6	7.1
24	7.2	7.4	7.1	6.1	6.9	*6.7	6.9	*7.5	6.9	6.7	7.1	7.8
25	7.2	7.6	7.1	6.1	6.9	*6.7	6.9	*7.6	6.9	6.9	7.4	7.6
26	7.2	7.6	6.9	6.0	6.9	*6.7	6.9	7.6	6.6	7.1	7.6	7.2
27	7.4	7.8	7.1	6.1	6.9	*6.7	6.9	7.6	6.6	7.2	7.4	71
28	7.4	8.0	7.2	6.2	6.9	*6.7	6.9	7.8	6.6	7.2	30	55
29	7.2	8.0	7.1	6.2	-	*6.7	6.9	7.8	6.7	7.4	15	8.0
30	7.2	7.8	6.9	6.2	-	*6.7	7.1	7.8	6.7	7.4	8.7	7.2
31	7.6	-	6.7	6.4	-	*6.7	-	7.8	-	11	55	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	226.1	7.6	6.9	7.29	448
November	218.1	8.0	6.7	7.27	433
December	235.7	8.3	6.7	7.60	468
Calendar year 1934	3,237.8	100	6.0	8.87	6,430
January	190.4	6.6	5.8	6.14	378
February	184.5	6.9	6.1	6.59	366
March	207.6	6.9	6.6	6.70	412
April	205.7	7.1	6.8	6.86	408
May	231.1	7.8	7.2	7.45	458
June	209.3	7.8	6.6	6.98	415
July	206.7	11	6.0	6.67	410
August	629.5	193	7.1	20.3	1,250
September	352.6	71	6.9	11.8	699
Water year 1934-35	3,097.3	193	5.8	8.49	6,140

*Estimated.

Tornillo Drain at mouth, at Alamo Alto, Tex.

Location.- Staff gage, lat. 31°23'40", long. 106°1'5", in sec. 11, T. 35 S., R. 9 E., 1,230 feet above mouth and half a mile below Alamo Alto.

Records available.- October 1931 to September 1935 in reports of U. S. Geological Survey; January 1930 to December 1931 in report of New Mexico State engineer.

Remarks.- Records furnished by U. S. Bureau of Reclamation. Tornillo Drain represents return flow from about 11,000 acres of the Tornillo district and from about 14,000 acres on San Elizario Island.

Discharge measurements, in second-feet, water year 1934-35

Date	Discharge	Date	Discharge	Date	Discharge
1934		Jan. 28	43	May 27	62
Oct. 5	66	Feb. 6	43	June 4	58
11	65	13	36	11	67
18	55	19	39	13	65
25	49	26	43	18	68
Nov. 1	51	28	42	26	65
8	50	Mar. 5	45	July 2	67
15	47	12	39	9	71
22	49	13	42	12	71
29	45	19	41	16	66
30	46	26	44	23	67
Dec. 6	48	29	44	27	67
12	45	Apr. 2	46	Aug. 13	104
20	43	9	49	15	85
26	45	12	56	20	92
27	47	16	55	21	69
1935		23	52	27	89
Jan. 2	45	29	53	28	91
9	45	May 7	53	Sept.17	112
17	44	13	57	30	94
23	44	21	54		

Tornillo Canal at waste, near Alamo Alto, Tex.

Location.- Water-stage recorder, lat. 31°23'25", long. 105°59'40", in sec. 11, T. 35 S., R. 9 E., at mouth, 2 miles southeast of Alamo Alto. Zero of gage is 3,557.15 feet above mean sea level.

Records available.- October 1931 to September 1935 in reports of U. S. Geological Survey; January 1930 to December 1931 in report of New Mexico State engineer.

Extremes.- Maximum daily discharge during year, 327 second-feet Sept. 2; no flow at times. 1930-35: Maximum daily discharge, that of Sept. 2, 1935; no flow at times.

Remarks.- Records furnished by U. S. Bureau of Reclamation. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	62	1.4	0	0	1.4	0.8	0	0	15	0.3	110
2	2.4	55	1.4	0	0	9.2	.2	0	0	.6	0	327
3	.8	42	.9	0	0	4.8	.2	0	0	.3	46	298
4	1.6	20	.4	0	0	0	.3	0	0	3.6	97	0
5	2.2	15	.4	0	12	.6	.2	0	0	13	46	0
6	.9	3.6	0	0	71	.4	.2	8.0	0	18	54	0
7	5.2	2.8	0	63	81	.3	0	10	0	16	54	0
8	1.1	1.4	0	55	64	.2	7.9	1.6	0	45	62	0
9	0	1.4	0	2.6	34	.2	3.7	.9	10	4.9	53	0
10	0	.9	3.8	.2	15	0	0	.8	0	2.2	47	0
11	0	.3	25	0	13	0	0	.2	0	.9	3.9	0
12	0	0	.6	0	10	0	0	0	0	0	50	22
13	0	15	.4	0	18	0	0	0	25	0	44	14
14	0	6.7	.3	0	7.8	0	0	0	39	0	17	12
15	0	5.6	.2	0	2.8	0	0	0	46	.1	39	5.1
16	0	5.6	.2	0	2.5	0	0	0	16	1.8	25	3.5
17	37	5.6	.2	0	2.8	0	0	.4	11	2.2	39	3.7
18	47	5.6	.2	0	1.6	0	0	0	.1	1.1	54	9.2
19	19	4.5	.2	0	1.6	0	0	0	0	.9	35	15
20	14	0	.2	0	1.6	0	0	0	0	.8	26	24
21	18	0	0	0	1.6	0	0	0	0	3.7	4.9	3.9
22	19	0	0	0	1.6	0	0	0	0	3.4	23	26
23	18	0	0	0	1.6	0	0	0	43	.8	42	20
24	7.5	0	0	0	1.6	0	0	0	37	0	2.5	37
25	.5	0	0	0	4.5	0	0	0	57	.7	2.5	66
26	0	e.4	0	0	1.6	0	0	0	47	0	6.7	58
27	0	65	0	0	1.4	0	0	0	66	0	24	81
28	0	35	0	0	1.4	.5	0	.1	42	2.3	33	124
29	0	8.6	0	0	-	.7	0	0	52	.6	15	94
30	0	1.4	0	0	-	0	0	0	36	0	126	71
31	0	-	0	0	-	.2	-	0	-	.2	93	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	195.1	47	0	6.29	387
November	371.4	65	0	12.4	737
December	35.8	25	0	1.15	71
Calendar year 1934	4,826.6	96	0	13.2	9,570
January	120.8	63	0	3.90	240
February	354.0	81	0	12.6	702
March	18.5	9.2	0	.60	37
April	13.5	7.9	0	.45	27
May	22.0	10	0	.71	44
June	527.1	66	0	17.6	1,050
July	138.1	45	0	4.45	274
August	1,174.8	126	0	37.9	2,330
September	1,424.4	327	0	47.5	2,830
Water year 1934-35	4,395.5	327	0	12.0	8,730

Hudspeth Canal at head, near Alamo Alto, Tex.

Location.- Water-stage recorder, lat. 31°23'25", long. 105°59'40", in sec. 11, T. 35 S., R. 9 E., surveys of U. S. Bureau of Reclamation, at head of canal, 2 miles southeast of Alamo Alto.

Records available.- October 1931 to September 1935 in reports of U. S. Geological Survey; March 1930 to December 1931 in report of New Mexico State engineer.

Extremes.- Maximum mean daily discharge during year, 249 second-feet June 9 (gage height, 3.4 feet); no flow at times.
1930-35: Maximum mean daily discharge, that of June 9, 1935; maximum mean daily gage height, 4.53 feet Aug. 14, 1934; no flow at times.

Remarks.- Records good. Flow is used for irrigation in Hudspeth County Conservation and Reclamation District No. 1. Records furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	105	0	70	0	0	77	161	16	137	161	129	2.6
2	120	0	88	65	0	83	18	12	188	155	107	51
3	117	55	28	66	0	62	72	47	174	104	134	38
4	121	77	0	45	0	55	156	81	143	82	139	3.6
5	121	90	0	60	0	18	122	197	143	161	167	0
6	113	80	0	78	0	24	59	210	102	194	175	0
7	102	69	0	24	0	13	67	220	162	187	179	0
8	2.7	58	0	0	7.6	12	68	105	241	185	167	0
9	0	60	0	0	24	7.4	32	25	249	192	170	0
10	0	6.9	0	0	51	8.6	69	17	204	193	148	0
11	0	0	43	0	57	18	81	5.6	181	174	13	0
12	0	0	44	0	59	15	76	12	193	117	148	38
13	0	13	37	0	62	7.9	85	34	188	95	164	143
14	0	60	34	0	68	13	154	22	181	113	172	145
15	0	48	33	0	68	8.6	116	41	175	153	176	111
16	0	38	55	0	49	5.4	54	21	135	198	168	115
17	0	53	62	0	43	14	47	13	176	188	183	130
18	57	56	64	0	38	30	66	23	96	190	183	109
19	56	30	59	0	34	26	100	32	80	205	193	126
20	41	0	59	0	32	29	76	48	107	184	200	165
21	78	0	11	0	11	31	47	37	84	163	193	123
22	100	0	5.2	0	28	32	74	16	115	194	205	119
23	99	0	4.6	0	32	21	37	22	126	165	205	117
24	31	0	0	0	50	13	12	31	171	143	171	133
25	0	0	0	0	63	23	35	36	189	161	171	132
26	0	0	0	0	73	63	36	40	184	150	184	133
27	0	0	0	0	85	67	43	74	163	128	187	118
28	0	33	0	0	83	49	64	180	184	164	174	71
29	0	58	0	0	-	54	79	141	185	183	192	84
30	0	57	0	0	-	68	42	108	171	187	43	84
31	0	-	0	0	-	94	-	86	-	115	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,263.7	121	0	40.8	2,510
November	941.9	90	0	31.4	1,870
December	696.8	88	0	22.5	1,380
Calendar year 1934	35,762.4	236	0	98.0	70,930
January	338	78	0	10.9	670
February	1,017.6	85	0	36.3	2,020
March	1,041.9	94	5.4	33.6	2,070
April	2,148	161	12	71.6	4,260
May	1,952.6	220	5.6	63.0	3,870
June	4,827	249	80	161	9,570
July	5,004	205	82	161	9,930
August	4,840	205	0	156	9,600
September	2,291.2	165	0	76.4	4,540
Water year 1934-35	26,362.7	249	0	72.2	52,290

Pecos River at Irvin ranch, near Pecos, N. Mex.

Location.- Water-stage recorder, lat. 35°42'25", long. 105°41', in NE¼NE¼ sec. 17, T. 17 N., R. 12 E., at private road bridge on Irvin ranch, 600 feet above mouth of Indian Creek, 2 miles below Canon Espiritu Santo, and 11 miles north of Pecos.

Drainage area.- 175 square miles.

Records available.- March 1910 to December 1914 (published as "Pecos River near Cowles"), October 1930 to September 1935 in reports of U. S. Geological Survey; August 1919 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 684 second-feet June 7 (gage height, 3.29 feet); minimum mean daily discharge, 16 second-feet (estimated) Jan. 20.
1930-35: Maximum discharge, 1,390 second-feet Sept. 24, 1931 (gage height, 3.70 feet); minimum mean daily discharge, 6.1 second-feet Jan. 18, 1934.

Remarks.- Records good except those estimated because of ice effect or missing gage height record, which are fair. Estimates based on hydrographic comparison with other Pecos River stations, study of weather records, and three discharge measurements during period of ice effect. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	*58	28	*24	*20	22	25	95	140	574	163	158	244
2	*54	30	*22	*19	*21	23	108	128	574	172	128	271
3	*50	24	*23	*19	*20	22	114	117	596	172	174	263
4	*49	29	*24	*20	*19	21	119	112	596	144	323	271
5	49	28	*24	*20	*19	22	119	110	596	130	307	248
6	*48	27	*25	20	*20	22	99	128	618	121	291	219
7	*48	27	25	20	20	22	82	160	624	125	287	202
8	*47	26	*25	*20	18	21	79	196	618	137	291	206
9	*47	25	*24	20	18	20	74	219	569	128	263	186
10	*46	27	*24	20	18	20	62	241	542	121	255	169
11	46	24	*23	20	18	20	64	275	520	108	216	152
12	51	26	*23	20	*18	22	60	295	547	108	216	140
13	49	27	22	*20	18	29	71	291	536	106	202	130
14	42	23	23	20	20	40	88	291	558	104	174	121
15	39	23	23	25	20	47	114	267	552	112	157	114
16	37	24	22	21	25	42	147	279	525	100	144	108
17	38	30	*22	*21	28	44	163	340	486	102	137	104
18	37	25	22	*21	27	37	154	348	440	104	137	104
19	35	25	*22	*18	23	37	144	331	407	93	140	99
20	33	23	*22	*16	25	35	147	340	384	88	149	93
21	32	24	22	*18	29	34	152	327	366	104	177	88
22	32	24	*22	*20	28	42	174	335	348	97	157	86
23	32	26	*22	20	25	37	186	376	323	81	163	82
24	31	27	*21	20	25	35	196	445	295	76	169	102
25	32	25	*20	20	*20	34	169	505	267	77	152	121
26	32	26	*21	21	*21	42	152	520	241	89	166	114
27	31	27	*22	22	*22	55	152	515	233	86	186	123
28	31	24	*22	22	*24	59	154	515	219	79	233	112
29	30	*20	*21	22	-	70	150	525	193	81	226	108
30	28	*22	*20	22	-	81	144	547	174	89	283	97
31	29	-	*19	22	-	93	-	569	-	91	244	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,243	58	28	40.1	2,470
November	766	30	20	25.5	1,520
December	696	25	19	22.5	1,380
Calendar year 1934	14,620.6	130	6.1	40.1	29,000
January	629	25	16	20.3	1,250
February	611	29	18	21.8	1,210
March	1,153	93	20	37.2	2,290
April	3,732	196	60	124	7,400
May	9,787	569	110	316	19,410
June	13,520	624	174	451	26,820
July	3,388	172	76	109	6,720
August	6,305	323	128	203	12,510
September	4,477	271	82	149	8,880
Water year 1934-35	46,307	624	16	127	91,860

*Estimated.

Pecos River near Anton Chico, N. Mex.

Location.- Water-stage recorder, lat. 35°11', long. 105°8', in Anton Chico Grant, 1¼ miles southeast of Anton Chico and 4 miles below mouth of Tecolote Creek.

Drainage area.- 1,080 square miles.

Records available.- April 1910 to December 1914, October 1930 to September 1935 in reports of U. S. Geological Survey; April 1910 to December 1931 in reports of State engineer. Prior to Jan. 11, 1929, station was located at four sites from 3½ miles above to 1 1/3 miles below present location. Records believed to be comparable.

Extremes.- Maximum discharge during year, about 11,300 second-feet Aug. 30 (gage height, 7.42 feet); minimum mean daily discharge, 2.1 second-feet, Oct. 23 and Nov. 19.

1930-35: Maximum discharge, about 12,900 second-feet July 16, 1933 (gage height, 8.0 feet); no flow at times.

Remarks.- Records good except those estimated because of ice effect or missing gage-height record, which are poor. Estimates based on hydrographic comparison with other Pecos River stations and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29	4.0		8.8	4.0	29	64	145	547	176	52	*400
2	22	3.3		6.5	4.6	30	80	130	547	148	310	*300
3	17	2.4	*5	6.2	3.8	33	98	141	554	152	444	*300
4	14	3.8		5.1	3.1	35	96	130	596	163	1,290	370
5	12	3.6		11	3.5	32	98	130	582	120	1,690	*400
6	7.2	3.6		9.1	3.8	30	104	124	596	111	792	348
7	7.2	3.8		17	2.6	26	93	134	603	234	624	279
8	7.6	3.5		*17	3.6	32	80	160	603	95	432	239
9	6.5	4.3	*8	17	6.5	29	62	229	589	68	392	239
10	4.6	4.3		14	10	29	72	253	554	72	404	206
11	3.6	4.8		15	8.8	27	50	274	534	50	343	180
12	6.0	4.3		9.9	8.0	25	46	310	603	31	321	152
13	9.1	3.5	11	9.5	5.7	23	38	321	582	93	239	134
14	11	2.7	17	9.1	3.3	22	42	332	631	82	220	124
15	9.5	2.7	17	9.1	4.3	22	88	370	554	80	176	117
16	6.6	2.9	16	8.4	7.2	36	95	294	575	54	130	98
17	16	4.0	15	9.5	14	56	101	645	522	120	124	80
18	33	2.6	14	8.8	19	64	220	704	456	48	134	141
19	14	2.1		8.4	22	48	248	768	392	60	120	90
20	11	6.8	*10	5.7	29	31	184	736	365	50	124	*60
21	11	10		6.8	26	22	210	610	332	40	210	*50
22	3.6	9.1	12	9.5	27	14	201	528	326	52	200	52
23	2.1	8.8	13	9.5	32	8.0	229	534	316	90	167	42
24	3.1	7.2	13	9.9	36	10	244	603	279	68	363	66
25	2.7		12	17	38	13	263	603	215	86	184	354
26	2.9		10	21	37	9.5	224	610	176	105	160	176
27	3.6	*6	10	14	32	8.8	188	575	450	35	629	160
28	3.8		12	15	29	9.9	184	540	474	36	784	156
29	4.3		14	9.1	-	16	180	528	294	56	794	141
30	4.3		9.1	4.8	-	24	148	516	210	26	1,880	111
31	4.6	—	9.9	4.0	-	42	-	528	-	24	*660	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	293.1	33	2.1	9.45	581
November	144.1	10	2.1	4.80	286
December	316.0	17	-	10.2	627
Calendar year 1934	9,456.2	1,100	0	25.9	18,760
January	325.7	21	4.0	10.5	646
February	423.8	38	2.6	15.1	841
March	836.2	64	8.0	27.0	1,660
April	4,030	263	38	134	7,990
May	12,535	768	124	404	24,860
June	14,057	631	176	469	27,880
July	2,650	234	24	85.5	5,260
August	14,392	1,880	52	464	28,550
September	5,565	400	42	186	11,040
Water year 1934-35	55,567.9	1,880	2.1	152	110,200

*Estimated.

Pecos River at Santa Rosa, N. Mex.

Location.- Water-stage recorder, lat. 34°56', long. 104°42', in sec. 3, T. 8 N., R. 21 E., at Santa Rosa, a quarter of a mile above highway bridge and 1¼ miles above mouth of Rio Agua Negro Chiquita.

Drainage area.- 2,880 square miles.

Records available.- May 1903 to December 1906, February 1910 to July 1911, September 1912 to December 1914, October 1930 to September 1935 in reports of U. S. Geological Survey; February 1910 to July 1911, September 1912 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 9,590 second-feet Aug. 4 (gage height, 7.73 feet); minimum mean daily discharge, 6 second-feet (estimated) Aug. 1.
1930-35: Maximum discharge, that of Aug. 4, 1935; minimum mean daily discharge, that of Aug. 1, 1935.

Remarks.- Records fair except those estimated on basis of hydrographic comparison with records of other Pecos River stations and study of weather records, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	9.2	10		9.0	7.7	8.3	44	339	79	*6	*730
2	9.5	8.6	10	*11	9.3	7.7	8.5	43	350	39	*20	*570
3	9.3	8.6	10		9.3	7.5	8.8	48	355	37	109	*480
4	9.5	8.8	9.7		9.2	7.5	9.2	79	370	100	6,370	*380
5	9.8	9.2	10	11	9.2	7.3	9.5	88	375	18	3,290	*300
6	9.8	9.2	11		9.3	7.2	9.7	55	350	22	1,650	*230
7	9.8	9.3	10		9.2	7.0	9.8	40	381	14	572	*170
8	9.5	9.5	11		9.2	7.0	10	32	401	12	397	124
9	9.7	9.7	10	*10	9.2	6.9	11	33	430	20	255	169
10	9.3	9.8	9.7		9.2	6.9	11	66	408	13	233	90
11	9.3	10	9.7		9.3	6.9	11	113	401	12	*220	63
12	29	9.8	9.7	9.8	9.3	6.9	10	133	435	13	*150	*40
13	15	9.8	9.6		9.3	6.8	10	176	401	11	*100	*30
14	9.5	9.8	9.8		9.3	6.8	10	186	452	11	*70	20
15	9.3	9.8	9.8	*10	9.3	6.7	9.8	272	505	10	*50	*15
16	9.3	9.8	9.5		9.5	6.7	9.6	259	419	10	*30	*13
17	9.3	10	9.5		9.5	6.5	9.8	1,250	408	9.8	*30	*12
18	9.5	9.8	9.5		9.5	6.5	15	*2,000	355	9.3	25	*12
19	9.2	9.2	9.7	9.8	9.3	6.4	89	1,230	286	9.2	58	*11
20	9.2	9.0	9.8		9.2	6.2	145	970	221	9.0	27	11
21	9.2	9.0	11	*9.4	9.0	6.4	92	842	176	*26	*20	11
22	9.0	9.7	11		9.0	6.5	86	535	146	9.8	*30	11
23	8.8	9.8	11		8.6	6.6	81	435	169	13	*35	11
24	9.0	10			8.3	6.8	88	419	217	9.5	83	77
25	9.0	10		9.0	8.3	6.9	102	413	113	6.9	155	441
26	9.2	9.8	*10	9.0	8.0	7.2	108	441	66	9.1	116	*250
27	9.2	10		9.0	8.0	7.3	105	447	36	27	83	*100
28	9.2	10		9.2	7.7	7.5	86	397	551	14	434	*50
29	9.2	10	10	9.0	-	7.7	63	370	238	*12	604	*30
30	9.2	10	*10	9.0	-	7.9	63	355	143	*10	3,170	*20
31	9.0	-	*10	9.0	-	8.0	-	350	-	*8	1,470	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	314.0	29	8.8	10.1	623
November	287.2	10	8.6	9.57	570
December	311.2	11	9.5	10.0	617
Calendar year 1934	10,034.4	1,350	8	27.5	19,900
January	304.8	-	9.0	9.83	605
February	252.5	9.5	7.7	9.02	501
March	217.9	8.0	6.2	7.03	432
April	1,267.2	143	8.3	42.9	2,550
May	12,121	2,000	32	391	24,040
June	9,497	551	36	317	18,840
July	603.6	100	6.9	19.5	1,200
August	19,862	6,370	6	641	39,400
September	4,471	730	11	149	8,870
Water year 1934-35	49,529.4	6,370	6	136	98,250

*Estimated

Pecos River near Guadalupe, N. Mex.

Location.- Water-stage recorder, lat. 34°36', long. 104°23', in sec. 34, T. 5 N., R. 24 E., 500 feet below mouth of Alamogordo Creek, half a mile above Alamogordo dam site, and 4 miles north of Guadalupe.

Drainage area.- 4,470 square miles.

Records available.- October 1912 to December 1914; October 1930 to September 1935 in reports of U. S. Geological Survey; October 1912 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 6,400 second-feet Aug. 4 (gage height, 6.39 feet); minimum mean daily discharge, 38 second-feet July 31.
1930-35: Maximum discharge, about 27,000 second-feet Oct. 11, 1930 (gage height, 12.8 feet); minimum mean daily discharge, that of July 31, 1935.

Remarks.- Records fair except those estimated on basis of hydrographic comparison with records of other Pecos River stations and study of weather records, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	72		80	88	70	58	136	491	227	130	789
2	60	70		80	88	66	58	125	473	172	70	503
3	66	68		78	90	72	58	136	465	153	516	461
4	62	64		72	88	72	52	142	473	172	4,060	473
5	62	70	*85	80	88	66	58	156	479	176	3,490	394
6	64	78		82	85	66	54	166	491	*110	1,760	300
7	66	82		101	90	64	48	139	485	*100	905	290
8	60	82		98	85	66	52	125	497	*170	692	255
9	64	85		95	85	72	54	110	509	*100	515	603
10	66	86	ee	90	85	68	50	107	503	*80	444	300
11	60	90	88	85	90	64	56	136	467	60	372	188
12	75	85	88	85	90	70	60	160	433	62	367	142
13	85	101	88	82	90	70	60	214	483	206	300	128
14	104	98	88	88	85	66	60	348	797	139	285	125
15	82	85	85	90	80	66	48	325	775	75	227	107
16	80	88	85	95	82	54	54	350	497	64	204	88
17	125	88	90	90	80	64	50	812	485	58	*350	78
18	132	90	90	92	85	72	50	1,820	428	90	*600	70
19	85	82	82	92	88	78	82	1,010	372	50	367	66
20	70	82	82	88	88	70	116	1,030	330	52	180	64
21	60	156	82	41	82	68	146	1,000	285	70	122	64
22	58	96	82	136	78	62	136	747	285	101	98	64
23	60	85	85	104	78	72	128	601	400	124	82	60
24	60	82	82	82	82	70	125	557	305	62	*150	68
25	62	82	85	90	72	62	139	588	275	58	*180	*260
26	62	80	82	90	85	66	146	614	204	54	*140	*250
27	68	82	82	88	75	62	156	601	160	47	525	372
28	70	80	85	82	70	78	156	563	434	88	434	290
29	64	85	88	90	-	70	142	527	563	70	660	232
30	66	88	82	90	-	62	125	503	305	46	1,220	188
31	70	-	78	90	-	66	-	491	-	38	1,550	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,226	132	58	71.8	4,420
November	2,566	156	64	85.5	5,090
December	2,632	-	78	84.9	5,220
Calendar year 1934	40,043	2,020	-	110	79,440
January	2,726	136	41	87.9	5,410
February	2,352	90	70	84.0	4,670
March	2,094	78	54	67.5	4,150
April	2,577	156	48	85.9	5,110
May	14,361	1,820	107	463	28,480
June	13,159	797	160	439	26,100
July	3,074	227	38	99.2	6,100
August	20,995	4,060	70	677	41,640
September	7,272	789	60	242	14,420
Water year 1934-35	76,034	4,060	38	208	150,800

*Estimated.

Pecos River near Dayton, N. Mex.

Location.- Water-stage recorder, lat. 32°45', long. 104°19' in sec. 18, T. 18 S., R. 27 E., half a mile above mouth of Rio Penasco, 3 miles east of Dayton, and about 10 miles above McMillan Dam.

Records available.- March 1905 to September 1925, October 1931 to September 1935 in reports of U. S. Geological Survey; March 1905 to December 1931 in reports of State engineer.

Average discharge.- 30 years (1905-35), 355 second-feet.

Extremes.- Maximum mean daily discharge during year, 6,900 second-feet (estimated) Aug. 6; maximum mean daily gage height not determined; minimum mean daily discharge, 10 second-feet Aug. 2.
1905-35: Maximum mean daily discharge, 50,300 second-feet during July 1905; no flow Aug. 17-24, 1934.

Remarks.- Records furnished by U. S. Bureau of Reclamation. Considerable water is diverted for irrigation above station, amount not known. Discharge represents inflow into McMillan Reservoir for irrigation of about 25,000 acres of the Carlsbad project.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	43	48	158	151	141	93	77	54	382	159	15	638
2	43	48	152	151	159	91	75	52	336	470	10	1,650
3	31	51	152	155	138	91	62	54	348	295	19	1,090
4	27	53	152	154	138	110	51	92	340	455	35	860
5	39	53	158	147	141	125	41	209	330	449	*230	1,480
6	35	53	146	151	152	136	54	278	322	278	*6,900	732
7	35	53	140	143	174	127	46	209	298	164	*4,350	615
8	35	55	140	143	192	115	59	202	294	140	*2,000	460
9	35	55	140	143	196	109	64	214	300	118	*1,040	1,170
10	31	53	140	145	209	109	56	188	312	106	*680	925
11	27	68	146	151	231	121	61	181	304	100	484	955
12	31	68	146	155	236	158	59	174	394	83	412	476
13	79	68	146	160	248	161	58	160	741	72	336	278
14	239	68	146	160	236	169	56	134	710	58	328	280
15	133	73	152	157	231	163	62	242	409	111	288	268
16	79	85	152	151	239	155	69	167	434	238	308	240
17	58	224	152	147	212	139	56	218	588	141	249	216
18	48	841	152	145	203	131	41	424	510	88	253	197
19	58	277	152	145	192	127	56	817	386	63	300	175
20	53	211	146	143	170	109	68	2,140	386	47	411	155
21	73	169	152	145	153	105	89	1,420	266	36	288	140
22	181	157	146	143	143	103	89	1,340	187	213	321	132
23	139	267	137	139	133	97	77	1,200	163	47	306	127
24	109	231	137	131	122	91	61	993	163	40	384	152
25	91	217	137	121	115	97	58	715	140	36	291	301
26	73	212	139	127	109	96	64	610	201	33	249	278
27	68	188	139	129	103	84	39	563	260	33	206	218
28	63	170	139	133	100	79	41	560	201	47	195	167
29	63	158	139	175	-	73	41	550	181	43	475	153
30	53	158	145	167	-	73	41	537	131	43	817	170
31	48	-	145	157	-	85	-	497	-	30	656	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,120	239	27	68.4	4,200
November	4,432	841	48	148	8,790
December	4,523	158	137	146	8,970
Calendar year 1934	47,238	1,090	0	129	93,690
January	4,564	175	121	147	9,050
February	4,818	248	100	172	9,560
March	3,522	169	73	114	6,990
April	1,771	89	39	59.0	3,510
May	15,194	2,140	52	490	30,140
June	10,017	741	131	334	19,870
July	4,236	470	30	137	8,400
August	22,838	6,900	10	737	45,300
September	4,698	1,650	127	490	29,150
Water year 1934-35	92,733	6,900	10	254	183,900

*Estimated.

Pecos River at Carlsbad, N. Mex.

Location.- Water-stage recorder, lat. 32°25', long. 104°13', in SE¼ sec. 6, T. 22 S., R. 27 E., at Green Street Bridge, in Carlsbad.

Records available.- May 1903 to March 1908, May 1914 to September 1925, October 1928 to September 1930, October 1931 to September 1935 in reports of U. S. Geological Survey; June 1903 to December 1906, May 1914 to December 1928, January 1930 to December 1931 in reports of State engineer.

Average discharge.- 23 years (1903-4, 1905-6, 1914-35), 302 second-feet.

Extremes.- Maximum mean daily discharge during water year 1928-29, 1,280 second-feet Nov. 1; minimum mean daily discharge, 50 second-feet Feb. 19, May 10, 11.
Maximum mean daily discharge during water year 1929-30, 2,670 second-feet Oct. 12 (gage height, 3.53 feet); minimum mean daily discharge, 63 second-feet.
Maximum mean daily discharge during water year 1934-35, 4,480 second-feet June 13 (gage height, 4.75 feet); minimum mean daily discharge, 24 second-feet Nov. 3.
1903-8, 1914-35: Maximum discharge, about 85,700 second-feet Aug. 7, 1916 (gage height, about 21.0 feet); no flow May 9, 1904.

Remarks.- Records furnished by U. S. Bureau of Reclamation. Considerable water is diverted for irrigation above station, amount not known.

Discharge, in second-feet, water year October 1928 to September 1929

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	123	1,280	469	177	267	289	109	98	116	139	92	150
2	130	550	441	168	177	289	109	100	103	139	92	100
3	116	620	441	173	135	267	109	100	113	139	109	109
4	109	1,130	441	173	135	261	109	100	120	139	78	103
5	116	645	427	146	135	227	109	100	127	139	98	98
6	138	755	412	124	95	168	100	100	113	116	100	98
7	127	580	381	131	66	124	109	103	120	124	109	98
8	127	1,000	400	116	72	116	109	106	100	109	103	98
9	123	890	412	127	95	90	109	70	74	95	106	98
10	138	375	420	139	113	84	109	50	74	80	*110	81
11	120	645	420	155	109	103	113	50	74	89	*115	87
12	123	445	420	201	109	95	113	*60	87	81	*120	81
13	123	420	420	211	109	95	113	*70	95	98	*125	78
14	96	407	420	255	106	95	113	*80	98	103	*130	81
15	92	420	420	261	100	95	120	*90	103	89	*135	109
16	98	420	407	267	106	95	127	*95	96	103	*140	109
17	130	440	407	261	106	100	120	*95	98	103	146	95
18	123	325	420	255	67	100	116	95	98	98	164	109
19	134	337	420	255	50	100	116	66	98	92	146	81
20	138	462	420	255	63	100	116	81	98	109	146	95
21	142	434	420	255	100	100	116	109	98	109	146	92
22	146	440	420	255	74	100	116	81	98	109	151	81
23	120	455	420	255	84	89	142	89	74	116	116	74
24	92	455	412	255	168	84	177	87	98	116	109	74
25	109	470	407	255	211	106	109	109	98	106	155	69
26	134	463	388	255	255	106	100	92	98	98	155	78
27	168	483	307	255	283	106	120	98	76	109	140	81
28	250	483	95	261	283	109	109	81	103	81	116	74
29	250	476	146	267	-	109	103	89	109	92	146	103
30	1,060	483	394	267	-	109	100	100	121	100	146	116
31	520	-	262	270	-	109	-	116	-	100	146	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,417	1,060	92	175	10,740
November	16,806	1,280	325	560	33,340
December	12,089	469	95	390	23,980
Calendar year					
January	6,700	270	116	216	13,290
February	3,675	283	50	131	7,290
March	4,020	289	84	130	7,970
April	3,440	177	100	115	6,820
May	2,760	116	50	89.0	5,470
June	2,980	127	74	99.3	5,910
July	3,320	139	80	107	6,590
August	3,870	164	78	125	7,680
September	2,800	150	69	93.3	5,550
Water year 1928-29	67,879	1,280	50	186	134,600

*Estimated.

Note.- Records for water year 1928-29 not previously published.

Pecos River at Carlsbad, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1929 to September 1930

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	109	222	201	*260	139	146	98	109	106	100	98	87
2	116	185	233	*300	146	173	98	113	95	89	98	98
3	109	233	222	*900	146	182	98	109	81	92	103	87
4	109	191	182	*500	164	164	87	81	98	89	92	81
5	127	261	222	525	160	182	127	92	80	95	89	108
6	98	238	211	730	168	177	124	98	74	92	89	92
7	98	238	217	665	146	177	146	92	74	100	87	95
8	98	222	227	550	146	168	135	103	81	100	87	103
9	98	222	227	435	131	155	124	103	74	100	87	109
10	98	261	211	410	135	150	135	109	89	98	87	109
11	410	255	211	301	131	135	135	92	92	98	92	120
12	2,670	249	211	272	131	142	146	84	81	98	92	120
13	690	243	217	301	131	150	146	87	*85	95	84	120
14	400	243	201	222	168	150	116	84	*90	98	92	134
15	303	243	201	217	201	160	124	92	*95	*95	103	127
16	352	243	222	168	233	*150	120	89	95	*95	103	92
17	326	*243	222	146	233	*140	127	89	89	*95	95	98
18	222	*243	227	191	233	*135	127	63	92	*95	92	98
19	164	*243	217	233	225	*133	124	66	81	*95	98	98
20	173	*243	227	243	233	*130	92	73	92	*95	87	98
21	191	*243	217	211	155	*130	92	70	89	*90	106	103
22	191	*243	233	196	155	124	87	78	89	87	106	103
23	191	243	261	201	*150	116	83	70	100	84	95	100
24	211	243	255	201	*150	109	95	106	100	89	80	100
25	233	243	283	168	*150	106	92	106	100	109	98	100
26	233	233	272	191	*150	120	98	124	98	113	92	100
27	238	233	255	155	*150	106	120	155	95	113	74	100
28	238	233	*260	164	*150	109	106	255	100	109	98	100
29	243	222	*260	155	-	135	109	87	92	106	92	*100
30	243	233	*260	146	-	98	109	95	98	98	81	*100
31	238	-	*260	163	-	98	-	106	-	98	78	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,220	2,670	98	297	18,290
November	7,090	261	185	236	14,060
December	7,125	283	182	230	14,130
Calendar year					
January	9,520	900	146	307	18,880
February	4,610	233	131	165	9,140
March	4,350	182	98	140	8,630
April	3,420	146	83	114	6,780
May	3,080	255	63	99.4	6,110
June	2,705	106	74	90.2	5,370
July	3,010	113	84	97.1	5,970
August	2,855	106	74	92.1	5,660
September	3,080	134	81	103	6,110
Water year 1929-30	60,065	2,670	63	165	119,100

*Estimated.

Note.- Records for water year 1929-30 not previously published.

Pecos River at Carlsbad, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53	76	50	48	50	53	58	61	50	60	66	71
2	53	76	50	48	50	53	58	56	50	856	63	82
3	53	24	50	48	50	45	58	58	50	76	63	74
4	53	34	50	48	50	45	58	63	50	55	63	85
5	53	34	50	48	50	45	58	63	50	58	66	2,840
6	53	34	50	45	50	45	58	55	50	60	69	400
7	43	34	50	45	50	45	55	53	50	63	69	230
8	43	34	50	45	50	45	55	55	50	66	69	175
9	43	34	48	45	50	45	55	58	50	69	66	192
10	43	50	48	45	48	48	55	58	50	69	63	170
11	43	50	48	45	48	48	55	58	60	66	66	139
12	43	50	48	45	48	48	55	58	50	66	66	112
13	43	50	48	50	48	48	55	58	4,480	66	69	92
14	58	50	48	50	48	48	58	53	137	60	69	121
15	58	50	48	50	48	48	60	53	53	69	69	102
16	58	50	53	50	48	48	60	53	53	63	69	106
17	58	53	53	50	48	45	58	55	53	69	69	104
18	58	53	53	50	48	45	60	58	63	69	69	80
19	58	53	53	50	48	45	58	50	58	66	69	74
20	32	53	53	50	48	45	58	50	60	69	69	76
21	32	53	53	50	48	45	58	50	63	74	69	70
22	32	53	53	50	48	45	58	50	63	69	69	66
23	32	53	50	50	48	45	58	50	685	103	69	66
24	32	53	50	50	53	50	58	50	71	74	69	100
25	32	55	50	50	53	50	52	50	55	69	69	138
26	32	55	50	50	53	50	50	50	60	66	63	125
27	76	55	50	50	53	50	53	50	55	66	74	85
28	76	55	50	50	53	50	61	50	60	69	74	106
29	76	55	50	50	-	50	56	50	60	69	74	85
30	76	55	50	50	-	50	56	50	60	69	74	119
31	76	-	50	50	-	50	-	50	-	66	74	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,571	76	32	50.7	3,120
November	1,484	76	24	49.5	2,940
December	1,557	53	48	50.2	3,090
Calendar year 1934	22,895	149	24	62.7	45,420
January	1,505	50	45	48.5	2,990
February	1,387	53	48	49.5	2,750
March	1,472	53	45	47.5	2,920
April	1,705	61	50	56.8	3,380
May	1,676	63	50	54.1	3,320
June	6,799	4,480	50	227	13,490
July	2,889	856	55	93.2	5,730
August	2,119	74	63	68.4	4,200
September	6,285	2,840	66	210	12,470
Water year 1934-35	30,449	4,480	24	83.4	60,400

Pecos River near Malaga, N. Mex.

Location.- Water-stage recorder, lat. 32°12', long. 104°1', in sec. 19, T. 24 S., R. 29 E., 3 miles southeast of Malaga and 4½ miles below mouth of Black River.

Records available.- May 1920 to September 1925, October 1931 to September 1935 in reports of U. S. Geological Survey; January 1921 to December 1931 in reports of State engineer.

Average discharge.- 15 years (1920-35), 281 second-feet.

Extremes.- Maximum mean daily discharge during year 5,120 second-feet June 13; maximum mean daily gage height, 8.71 feet Sept. 4; minimum mean daily discharge, 13 second-feet Apr. 8, 9.

1920-35: Maximum mean daily discharge, about 22,000 second-feet June 8, 1921 (gage height, 12.85 feet); no flow Aug. 20-22, 1934.

Maximum stage known, 26.4 feet in September 1919 (discharge not determined).

Remarks.- Records furnished by U. S. Bureau of Reclamation. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	45	65	86	80	57	26	58	58	48	96	15
2	58	52	75	86	81	58	32	48	77	493	100	15
3	58	45	75	86	58	50	29	89	87	219	105	273
4	58	37	75	86	58	50	23	74	91	94	105	4,180
5	58	42	75	86	58	51	26	96	74	77	100	4,050
6	58	27	75	77	58	51	27	75	74	45	111	560
7	65	26	75	77	53	52	19	66	87	43	96	365
8	65	52	75	77	58	52	13	51	93	48	53	300
9	65	77	82	77	56	52	13	58	77	46	39	316
10	65	77	82	77	51	61	23	58	43	39	27	252
11	65	63	82	77	51	61	33	66	51	18	18	234
12	65	63	82	77	51	61	39	43	115	25	18	230
13	65	63	82	80	50	61	39	51	5,120	25	82	224
14	102	63	82	80	50	61	40	102	2,020	31	57	211
15	102	63	82	80	50	61	51	84	216	39	57	199
16	102	63	82	80	46	61	46	75	135	46	79	182
17	102	63	79	81	43	57	37	93	79	53	97	166
18	102	60	79	81	43	57	37	131	61	53	186	141
19	102	60	79	81	43	57	43	73	60	46	46	135
20	89	60	79	72	43	57	115	72	60	53	32	106
21	58	60	82	70	43	57	66	72	53	58	27	87
22	58	60	82	72	43	57	52	72	55	53	19	107
23	58	60	84	70	43	57	43	72	279	79	20	146
24	58	60	84	72	57	32	56	72	261	125	45	225
25	58	69	84	71	57	33	40	72	65	50	49	288
26	58	69	84	72	58	39	46	58	34	70	39	182
27	58	69	84	80	58	18	43	58	29	48	46	193
28	58	69	84	80	58	21	33	58	32	61	43	194
29	77	69	84	80	-	22	58	93	26	96	51	166
30	69	69	84	81	-	14	61	84	26	100	73	183
31	60	-	84	81	-	14	-	84	-	100	70	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,174	102	58	70.1	4,310
November	1,755	77	26	58.5	3,480
December	2,482	84	65	80.1	4,920
Calendar year 1934	27,939	208	0	76.5	55,410
January	2,433	86	70	78.5	4,830
February	1,505	81	43	53.8	2,990
March	1,492	61	14	48.1	2,960
April	1,211	115	13	40.4	2,400
May	2,260	131	43	42.9	4,480
June	9,538	5,120	26	318	18,920
July	2,381	493	18	76.8	4,720
August	1,976	186	18	63.7	3,920
September	13,925	4,180	15	464	27,620
Water year 1934-35	43,132	5,120	13	118	85,550

Pecos River near Angeles, Tex.

Location.- Water-stage recorder, lat. 32°2', long. 104°, in T. 26 S., R. 29 E., half a mile below mouth of Delaware Creek, 2 miles north of Texas-New Mexico State line, and 8½ miles northwest of Angeles, Reeves County. Zero of gage is 2,831.2 feet above mean sea level.

Records available.- May 1914 to September 1935.

Average discharge.- 20 years (1914-15, 1916-35), 361 second-feet.

Extremes.- Maximum discharge during year, about 23,500 second-feet June 13 (gage height, 18.30 feet); minimum, 25 second-feet Apr. 9.
1914-35: Maximum stage, 22.5 feet (present datum) Aug. 8, 1916 (discharge not determined); minimum discharge, 23 second-feet Aug. 20, 1934.

Remarks.- Records good except those above 500 second-feet, which are fair. Discharge estimated Nov. 22 to Dec. 19. Large part of natural flow above Carlsbad, N. Mex., diverted for irrigation; considerable water is returned by seepage. Flow regulated to large extent by storage in reservoirs of the Carlsbad project.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	167		122	101	70	57	74	142	81	86	81
2	84	145		114	94	81	63	74	98	86	79	294
3	94	139		131	94	94	59	68	91	466	91	240
4	91	94		119	96	96	46	98	104	147	94	550
5	98	79		128	106	101	37	136	108	142	142	6,560
6	91	65		133	84	106	36	101	94	98	117	2,300
7	96	61		125	77	59	37	108	94	61	104	424
8	101	61		122	74	57	37	79	94	50	88	330
9	101	81		125	81	79	29	64	94	54	61	344
10	94	98	110	133	74	79	40	68	94	44	43	298
11	88	96		117	70	81	46	65	565	38	38	263
12	91	106		98	79	96	50	72	1,160	30	33	263
13	98	104		128	84	101	55	74	7,890	33	52	234
14	128	98		119	72	104	70	91	3,480	37	86	210
15	106	104		122	81	84	63	48	512	38	61	125
16	101	111		119	81	98	70	65	224	50	65	151
17	104	104		119	77	96	63	84	139	46	77	158
18	117	108		114	79	94	59	111	104	48	142	167
19	128	106		117	104	94	63	125	84	50	126	136
20	299	91	106	108	70	91	84	98	84	46	61	131
21	197	114	117	106	59	88	125	96	86	65	48	104
22	106		119	108	68	88	79	94	70	52	48	128
23	77		119	114	74	94	68	101	107	55	46	216
24	88		117	111	74	86	54	91	362	46	52	250
25	108		114	98	72	81	65	88	158	101	88	1,550
26	106	110	117	96	94	84	54	70	101	50	96	328
27	111		125	104	81	86	48	681	79	54	81	294
28	117		114	106	79	65	44	228	68	43	79	294
29	122		122	106	-	68	52	94	70	52	104	234
30	151		117	108	-	65	63	108	63	77	81	246
31	188	-	128	101	-	59	-	112	-	81	79	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,572	299	77	115	7,080
November	3,122	167	61	104	6,190
December	3,505	128	-	113	6,950
Calendar year 1934	40,761	449	24	112	80,850
January	3,571	133	96	115	7,080
February	2,279	106	59	81.4	4,520
March	2,625	106	57	84.7	5,210
April	1,716	125	29	57.2	3,400
May	3,476	681	48	112	6,890
June	16,419	7,890	63	547	32,570
July	2,321	466	30	74.9	4,600
August	2,448	142	33	79.0	4,860
September	16,903	6,560	81	563	33,530
Water year 1934-35	61,957	7,890	29	170	122,900

Gallinas River near Montezuma, N. Mex.

Location.- Water-stage recorder, lat. 35°41', long. 105°21', in Las Vegas Grant, 2 miles west of Montezuma, San Miguel County.

Drainage area.- 86 square miles.

Records available.- October 1930 to September 1935 in reports of U. S. Geological Survey; March 1915 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 1,420 second-feet Aug. 5 (gage height, 4.98 feet); minimum mean daily discharge, 1.0 second-foot Nov. 8-10.
1930-35: Maximum discharge and stage, those of Aug. 5, 1935; minimum mean daily discharge, 0.8 second-foot Aug. 15-18, 21, 25, 26, 30, 1934.

Remarks.- Records good except those estimated by hydrographic comparison with records of station at Montezuma, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	2.2	*1.7	1.6	3.8	3.2	6.4	21	70	*8	7.9	12
2	1.7	2.4	*1.7	1.6	3.8	3.2	6.4	19	60	*7	41	12
3	1.6	2.4	*1.7	2.2	3.6	3.4	6.1	20	56	*8	37	14
4	1.6	1.7	*1.7	2.4	2.6	3.4	4.2	17	75	*7	34	12
5	1.6	1.6	*1.7	2.6	2.2	3.8	3.6	22	56	*6	106	12
6	1.4	1.6	*1.7	*2.5	2.2	3.4	4.5	45	52	5.5	46	9.7
7	1.3	1.2	*1.7	*2.5	2.2	3.4	5.5	94	48	5.5	30	8.8
8	1.2	1.0	1.7	*2.4	2.4	3.6	5.8	121	46	7.4	22	8.3
9	1.2	1.0	*1.8	*2.3	2.6	3.4	7.1	116	41	7.9	16	9.2
10	1.2	1.0	*2.0	*2.2	3.0	3.2	6.4	101	38	7.9	14	8.8
11	1.2	1.4	*2.1	2.2	3.0	3.2	6.1	83	33	6.8	13	7.4
12	1.3	1.2	*2.3	2.1	2.4	2.8	5.2	68	32	4.5	13	6.8
13	1.6	1.3	2.4	1.9	2.4	3.0	4.0	56	29	4.2	12	6.1
14	1.7	1.2	2.4	2.2	1.9	3.4	4.2	51	29	4.5	9.2	5.8
15	1.7	1.3	2.2	2.8	2.4	3.8	6.9	46	31	4.5	8.3	5.2
16	1.7	1.3	2.2	3.0	2.4	4.2	8.3	39	27	4.2	6.4	4.5
17	1.7	1.4	1.9	2.6	3.4	5.2	9.7	256	24	4.2	6.1	4.2
18	2.1	1.7	1.9	2.8	2.6	3.4	12	355	21	4.0	5.5	4.2
19	1.9	1.8	1.6	3.0	2.6	4.5	14	435	17	4.0	6.4	4.0
20	1.9	1.9	1.9	3.0	3.2	4.8	23	355	16	4.2	9.7	4.0
21	1.9	2.2	1.9	*3.4	3.6	5.2	29	232	16	4.5	19	4.0
22	1.4	1.8	1.9	4.2	3.2	5.2	36	181	16	4.8	12	3.8
23	1.7	2.2	1.8	4.2	3.4	5.2	43	197	14	4.5	11	3.8
24	1.8	1.8	1.8	3.8	3.6	4.5	45	218	12	4.5	12	4.2
25	1.9	1.7	1.8	4.0	3.2	4.2	32	190	12	4.0	11	6.1
26	2.1	1.4	1.6	3.8	3.0	3.8	24	155	9.2	4.2	12	7.1
27	2.2	1.2	1.8	3.8	3.0	4.5	23	131	12	4.2	16	7.9
28	2.2	1.3	2.1	3.8	3.4	4.8	25	111	13	4.0	18	8.3
29	2.1	1.7	1.8	4.0	-	5.8	23	92	11	4.0	68	8.8
30	1.8	*1.7	1.4	3.6	-	6.1	22	88	9.7	3.8	23	7.1
31	2.1	-	1.6	3.8	-	6.4	-	77	-	3.8	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	52.6	2.2	1.2	1.70	104
November	47.6	2.4	1.0	1.59	94
December	57.8	2.4	1.4	1.86	115
Calendar year 1934	1,179.5	11	.8	3.23	2,340
January	90.3	4.2	1.6	2.91	179
February	81.1	3.8	1.9	2.90	161
March	128.0	6.4	2.8	4.13	254
April	451.3	45	3.6	15.0	895
May	3,992	435	17	129	7,920
June	925.9	75	9.2	30.9	1,840
July	161.6	8	3.8	5.21	321
August	661.5	106	5.5	21.3	1,310
September	220.1	14	3.8	7.34	437
Water year 1934-35	6,869.8	435	1.0	18.8	13,630

*Estimated.

Gallinas River at Montezuma, N. Mex.

Location.- Water-stage recorder, lat. 35°39', long. 105°18', in Las Vegas Grant, at highway bridge half a mile below Montezuma, San Miguel County.

Drainage area.- 89 square miles.

Records available.- August 1903 to December 1914, October 1930 to September 1935 in reports of U. S. Geological Survey; October 1904 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 660 second-feet May 18 (gage height, 4.55 feet); no flow Oct. 4-7.
1930-35: Maximum discharge, about 720 second-feet Oct. 1, 1930 (gage height, 4.81 feet); no flow Oct. 4-7, 1934.

Remarks.- Records good except those estimated on basis of hydrographic comparison with records of station near Montezuma, which are fair. Flow regulated by reservoirs owned by Agua Pura Co. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.2	0.6	1.1	0.1	0.7	0.7	24	72	5.0	5.0	12
2	.1	.2	.6	1.1	.1	.7	.6	24	65	4.3	44	10
3	.1	.2	.6	.6	.2	.6	.6	29	62	5.3	33	16
4	0	.2	.6	1.4	.1	.6	.7	22	76	4.3		17
5	0	.1	*.6	1.5	.1	.6	.8	33	66	3.3	*30	10
6	0	.1	*.7		.1	.6	.9	62	56	3.1		9.0
7	0	.2	*.7		.1	.6	.9	111	55	3.1	104	9.0
8	.1	.2	.7		.1	.7	.8	142	51	2.8	82	9.5
9	.1	.1	.6	*2.2	.1	.7	.8	127	44	5.3	55	8.5
10	.1	.1	.6		.1	.6	.8	106	42	5.0	29	7.5
11	.1	.2	.7		.2	.6	.8	92	38	2.8	22	6.8
12	.1	.2	.8	2.8	.2	.7	.8	81	34	2.0	16	6.1
13	.1	.2	.8	2.0	.2	.8	1.0	71	31	1.7	9.5	5.0
14	.1	.2	.9	1.1	.2	.8	1.4	72	32	1.7	6.4	4.6
15	.1	.1	.9		.2	.8	1.4	68	32	1.7	6.4	4.3
16	.1	.1	.8	*.6	.2	.7	1.6	58	28	1.6	6.1	3.1
17	.1	.2	.9		.2	.7	5.7	338	26	1.6	4.3	2.4
18	.1	.1	.9		.3	.8	7.5	455	21	1.6	4.3	3.1
19	.1	.1	.9	.1	.2	.8	8.0	374	*18	1.7	8.0	4.3
20	.1	.2	1.0	.1	.2	.7	22	330	*15	2.0	9.0	2.8
21	.1	.2	1.0	.1	.4	.8	31	228	*15	1.8	18	2.4
22	.1	.1	1.1	.1	.4	.9	41	201	15	3.5	20	2.4
23	.1	.1	1.1	.1	.4	1.0	52	207	13	4.3	10	2.4
24	.1	.2	1.1	.1	.4	.8	57	201	12	3.9	7.1	2.4
25	.1	.2	1.1	.1	.4	.8	41	186	10	8.1	9.5	2.0
26	.1	.4	1.1	.1	.4	.8	25	158	8.5	7.1	10	4.3
27	.1	.6	1.1	.1	.4	.7	18	123	6.8	5.7	16	7.1
28	.1	.6	1.1	.1	.6	.7	22	104	9.0	4.3	28	7.1
29	.1	.6	1.1	.1	-	.7	24	90	6.8	4.3	38	7.1
30	.1	.6	1.1	.2	-	.8	25	84	6.4	3.5	84	6.1
31	.2	-	1.1	.1	-	.7	-	76	-	3.7	21	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2.8	0.2	0	0.09	5.6
November	6.8	.6	.1	.23	13
December	26.9	1.1	.6	.87	53
Calendar year 1934	617.1	12	0	1.69	1,220
January	28.6	2.8	.1	.92	57
February	6.6	.6	.1	.24	13
March	22.5	1.0	.6	.73	45
April	393.8	57	.6	13.1	781
May	4,277	455	22	138	8,480
June	966.5	76	6.4	32.2	1,920
July	110.1	8.1	1.6	3.55	218
August	795.6	104	4.3	25.7	1,580
September	194.3	17	2.0	6.48	385
Water year 1934-35	6,831.5	455	0	18.7	13,550

*Estimated.

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Rio Ruidoso at Hondo, N. Mex.

Location.- Water-stage recorder, lat. 33°23', long. 105°17', in NW¼SW¼ sec. 4, T. 11 S., R. 17 E., a quarter of a mile above confluence with Rio Bonito to form Rio Hondo and half a mile southwest of Hondo.

Records available.- October 1930 to September 1935 in reports of U. S. Geological Survey; August 1930 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 916 second-feet Aug. 18 (gage height, 6.68 feet); no flow Aug. 15, 16.
1930-35: Maximum discharge, about 1,140 second-feet July 23, 1933; no flow Aug. 15, 16, 1935.

Remarks.- Records fair below 100 second-feet, poor above. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	3.1	4.3	4.0	0.7	4.3	1.4	0.6	2.8	0.9	0.5	36
2	1.2	3.1	4.3	4.0	.6	4.3	1.1	.7	1.6	1.0	.6	54
3	1.1	2.5	4.3	3.7	.6	4.0	1.2	1.6	1.4	1.1	83	95
4	1.2	1.8	4.6	2.2	.6	3.4	1.4	1.9	1.2	1.2	113	33
5	1.2	1.8	4.9	2.2	.5	3.1	1.0	2.8	1.0	1.6	104	191
6	1.2	1.8	*5.4	2.2	.5	3.1	.7	3.1	.9	4.0	24	175
7	1.5	3.1	5.6	2.5	.5	*3.4	.7	2.5	.7	7.1	16	119
8	1.6	4.0	5.8	2.2	.5	3.7	.7	2.2	.6	3.4	10	90
9	1.5	3.4	5.8	1.9	.5	3.1	.6	1.9	.6	1.2	8.9	102
10	1.5	4.0	5.8	2.2	.5	3.4	.6	1.8	.6	.6	8.4	67
11	1.4	4.6	5.8	2.2	.6	4.0	.6	1.6	.6	.9	6.7	52
12	1.4	5.3	5.8	2.2	1.5	4.9	.6	1.5	.5	.9	4.9	43
13	1.6	4.6	4.6	2.2	3.7	4.6	.6	1.1	.6	.9	2.5	36
14	1.5	2.2	2.8	2.2	2.6	4.3	.6	1.1	.9	.7	.4	25
15	1.6	2.5	2.8	2.2	.7	4.3	.5	1.4	.9	26	0	24
16	1.8	4.9	3.1	2.2	1.0	5.3	.5	1.4	.9	4.6	0	18
17	1.8	5.3	3.4	2.5	1.5	7.5	.5	18	1.2	3.1	17	13
18	4.4	4.9	3.7	2.5	.6	7.1	.5	5.8	1.1	1.8	112	8.4
19	3.1	4.0	3.7	2.5	.7	2.2	.5	4.0	1.2	1.1	18	6.2
20	2.2	3.4	2.2	2.5	1.2	1.1	.6	4.6	1.1	1.1	12	5.3
21	2.2	3.4	1.5	2.8	1.4	1.1	.6	3.7	1.0	1.1	10	4.6
22	2.8	3.4	3.1	2.8	1.1	1.1	.7	3.7	.9	34	8.4	4.3
23	2.8	3.7	1.8	3.4	.6	1.1	.7	15	.7	42	23	4.0
24	2.8	4.0	2.5	3.1	.5	1.1	.7	15	.6	12	24	19
25	3.1	4.0	2.8	2.8	.6	1.1	.7	16	.6	.4	28	9.9
26	2.5	4.3	2.8	2.8	1.5	1.1	.7	16	.7	.4	21	8.4
27	1.5	4.0	2.8	2.5	3.4	1.1	.6	14	.6	.5	14	6.4
28	1.8	4.3	2.5	1.4	3.7	.9	.7	12	.6	.5	41	10
29	1.4	4.6	2.5	1.0	-	.7	.7	9.3	.7	.5	21	15
30	1.6	4.6	3.7	.7	-	.9	.7	5.8	1.0	.5	23	13
31	2.5	-	4.0	.7	-	.9	-	4.0	-	.5	27	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	59.0	4.4	1.1	1.90	117
November	110.6	5.3	1.8	3.69	219
December	118.9	5.8	1.5	3.84	236
Calendar year 1934	1,319.0	42	.1	3.61	2,620
January	74.3	4.0	.7	2.40	147
February	32.6	3.7	.5	1.16	65
March	92.2	7.5	.7	2.97	183
April	21.7	1.4	.5	.72	43
May	174.1	18	.6	5.62	345
June	27.8	2.8	.5	.93	55
July	155.6	42	.4	5.02	309
August	782.3	113	0	25.2	1,550
September	1,289.5	191	4.0	43.0	2,560
Water year 1934-35	2,938.6	191	0	8.05	5,830

*Estimated.

Rio Bonito at Hondo, N. Mex.

Location.- Water-stage recorder, lat. 33°23', long. 105°16', in NE¼NW¼ sec. 4, T. 11 S., R. 17 E., at Hondo, half a mile above confluence with Rio Ruidoso.

Records available.- October 1930 to September 1935 in reports of U. S. Geological Survey; August 1930 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 1,500 second-feet Aug. 31 (gage height, 6.15 feet); no flow at times.
1930-35: Maximum discharge, about 5,640 second-feet Aug. 28, 1934 (gage height, 14.12 feet); no flow at times.

Remarks.- Records poor. Estimates based on hydrographic comparison with records of Rio Ruidoso and study of weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	1.7	0	0	0		0	0	0	0	*70
2	0	0	.1	0	0	0		0	0	0	0	*30
3	0	0	0	0	0	0		0	0	*70	*25	*70
4	0	0	0	0	0	0		0	0	*3	*3	*20
5	0	0	0	0	*.1	0		0	0	0	*3	34
6	0	0	0	0	0	0		0	0	0	*5	64
7	.4	0	0	0	0	0		0	0	0	15	60
8	0	0	0	0	0	0		0	0	0	11	64
9	0	*0	0	0	0	0		0	0	0	6.6	*170
10	0	*0	0	0	0	0		0	0	0	*2.5	*30
11	*0	*0	0	0	0	*.1		0	0	0	*1	*10
12	0	*0	0	*.1	0	0		0	0	0	0	6.2
13	0	*.3	0	*0	0	0		0	*10	0	0	5.5
14	0	*.5	0	0	0	0		*.1	*5	0	0	3.8
15	0	.7	0	0	0	0		0	0	*3	0	3.4
16	0	7.9	0	0	0	0		0	0	*1	0	3.4
17	0	.4	0	0	0	0		0	0	0	*150	3.0
18	2	0	0	0	0	0		0	0	0	*10	3.2
19	0	0	0	0	0	0		0	0	0	*5	3.0
20	2.1	0	1.0	0	0	0		0	0	0	*1	3.0
21	.3	2.7	0	0	0	0		0	0	0	*0	3.2
22	0	.3	0	0	0	0		0	0	0	0	3.4
23	0	.1	0	0	0	0		*.1	0	*3	0	4.4
24	0	.2	0	0	0	0		0	0	0	0	82
25	0	.2	0	0	0	0		0	0	0	0	*40
26	0	.3	0	0	0	0		0	0	0	0	18
27	0	.4	0	0	0	0		0	0	0	0	16
28	0	.8	0	0	0	0		0	0	0	28	13
29	0	1.1	0	0	-	0		0	0	0	18	11
30	0	1.9	0	0	-	0		0	0	0	S.4	10
31	0	-	0	0	-	0		0	-	0	140	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4.8	2.1	0	0.15	9.5
November	17.8	7.9	0	.59	35
December	2.8	1.7	0	.09	5.6
Calendar year 1934	1,339.6	550	0	3.67	2,660
January	.1	.1	0	0	.2
February	.1	.1	0	0	.2
March	.1	.1	0	0	.2
April	0	0	0	0	0
May	.2	.1	0	.01	.4
June	15	10	0	.5	30
July	80	70	0	2.6	159
August	432.5	150	0	14.0	858
September	907.5	170	3.0	30.2	1,800
Water year 1934-35	1,460.9	170	0	4.00	2,900

*Estimated.

Rio Felix near Hagerman, N. Mex.

Location.- Water-stage recorder, lat. 33°7', long. 104°20', in sec. 3, T. 14 S., R. 26 E., a quarter of a mile below State Highway 2, 1.5 miles north of Hagerman, and 1.6 miles above mouth.

Records available.- March 1932 to September 1935.

Extremes.- Maximum discharge during year, about 7,870 second-feet Sept. 9 (gage height, 11.08 feet); minimum mean daily, 5.4 second-feet Aug. 12-14.
1932-35: Maximum discharge, about 20,000 second-feet Sept. 24, 1932 (gage height, 19.5 feet); minimum mean daily discharge, that of Aug. 12-14, 1935.

Remarks.- Records fair below 200 second-feet, poor above. Estimates based on hydrographic comparison with records of Cottonwood Creek and engineers' notes. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	8.4	25	13	12	8.4	9.8	10	11	9.8	*8.4	7.4
2	7.8	8.4	24	13	11	8.1	9.8	10	9.8	11	*8.1	8.4
3	7.8	8.8	30	13	10	8.8	10	10	10	9.8	*8.1	8.4
4	7.8	8.8	24	13	10	24	10			11	*7.4	*7.8
5	8.1	8.4	14	14	9.5	11	9.5			9.5	*7.1	620
6	7.8	8.8	13	14	9.5	11	10	*10	*11	9.8	*7.1	19
7	8.1	8.8	11	15	9.1	9.1	11			9.8	*6.7	7.1
8	7.8	8.8	11	13	9.5	8.8	11			9.8	*6.4	6.7
9	8.1	14	11	13	9.5	8.4	13			12	*6.4	2,320
10	8.4	11	13	13	9.1	8.1	13			12	6.1	101
11	8.1	13	14	15	8.8	7.8	13	*11	12	14	5.9	14
12	8.1	12	17	15	8.8	*8.4	14		10	14	*5.4	13
13	514	9.8	17	14	8.8	*8.9	15		10	13	*5.4	12
14	25	9.8	17	13	9.1	9.5	15		10	14	*5.4	12
15	9.1	13	15	12	9.1	9.5	16	11	10	14	*5.6	12
16	8.4	15	19	12	24	11	16	11	9.8	15	*5.9	11
17	8.4	1,530	18	11	25	11	17	*12		14	*5.9	10
18	8.4	146	17	9.8	10	9.8	17	*13		14	6.4	10
19	8.8	26	23	9.8	9.8	9.8	15	*13		12	6.4	9.8
20	8.8	21	17	9.8	9.5	9.8	15	*14		13	6.7	10
21	8.4	27	15	9.8	9.8	9.5	16	15	*11	11	*7.1	10
22	8.4	34	12	9.8	9.8	9.5	13	15		11	*6.7	10
23	8.4	27	12	9.8	9.1	9.5	13	15		11	*7.1	9.8
24	8.4	27	12	9.8	9.1	9.8	12	15		9.8	*7.1	9.8
25	8.4	28	13	9.8	8.1	9.8	12	14	12	*9.8	*7.8	979
26	8.4	24	15	9.8	7.8	9.8	12	13	12	*9.8	*8.1	27
27	8.4	26	12	10	8.1	9.8	12	13	11	*9.5	*8.1	19
28	8.4	23	12	10	8.4	9.5	11	13	10	9.5	*8.1	19
29	8.1	25	13	10	-	9.5	*11	12	9.8	*9.5	*7.8	19
30	8.4	27	13	9.8	-	9.5	10	13	9.8	*8.8	*8.4	19
31	8.4	-	15	10	-	9.8		12	-	*9.1	5.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	778.7	514	7.8	25.1	1,540
November	2,157.8	1,530	8.4	71.9	4,280
December	494	30	11	15.9	980
Calendar year 1934	11,963.7	3,040	6.1	32.8	23,720
January	364.0	15	9.8	11.7	722
February	292.3	25	7.8	10.4	580
March	307.2	24	7.8	9.91	609
April	382.1	17	9.5	12.7	758
May	369	-	-	11.9	732
June	322.2	-	-	10.7	639
July	350.3	15	8.8	11.3	695
August	213.0	8.4	5.4	6.87	422
September	4,341.2	2,320	6.7	145	8,610
Water year 1934-35	10,371.8	2,320	5.4	28.4	20,570

*Estimated.

RIO GRANDE BASIN

Cottonwood Creek near Lake Arthur, N. Mex.

Location.- Water-stage recorder, lat. 32°57', long. 104°22', in NE¼NW¼NE¼ sec. 22, T. 18 S., R. 26 E., 1 5/6 miles above mouth and 3½ miles south of Lake Arthur. Prior to Mar. 29, 1934, water-stage recorder at same site to an independent datum.

Records available.- March 1932 to September 1935.

Extremes.- Maximum discharge during year, about 1,100 second-feet June 13 (gage height, 9.85 feet, present datum); minimum mean daily discharge, 1.2 second-feet Aug. 23, 24.

1932-35: Maximum discharge, that of June 13, 1935; minimum mean daily discharge, 0.3 second-foot July 24-27, 30, 31, Aug. 1-3, 1934.

Remarks.- Records fair except those estimated on basis of hydrographic comparison with records of Rio Felix and study of weather records, which are poor. Diversion for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	6.3	9.2	8.2			6.3	2.9	7.7	17	*3	2.8
2	4.0	6.2	9.3	8.1			5.8	2.5	7.6	25	*2	3.0
3	4.2	6.1	9.0	7.6	*6.5	*8	5.5	6.2	7.7	16	5.4	3.2
4	4.0	6.2	9.0	7.6				8.7	7.7	13	5.2	*10
5	4.0	6.1	8.9	7.6				8.1	5.6	11	5.3	*450
6	4.1	6.1	8.8	7.0	6.2			5.8	3.7	8.6	5.4	*100
7	4.0	6.1	8.9	6.8				4.1	2.2	8.3	*4	*30
8	4.2	6.1	9.3	*7			*6	4.0	2.1	8.0	*3	*20
9	4.2	6.2	9.7	7.1				2.7	2.9	7.8	*3	*20
10	4.3	6.2	8.8			*9		2.7	3.3	7.4	2.9	28
11	4.4	6.2	8.7	*7.5	*6			2.4	3.6	7.0	2.4	21
12	5.2	6.3	8.8					2.1	5.3	6.7	2.0	17
13	5.8	6.4	8.9	7.7			6.5	2.4	743	6.8	1.8	16
14	5.5	6.7	9.0			†8.9	5.9	2.4	175	7.4	*2	*15
15	5.3	6.6	9.0	*7			5.7	15	46	6.4	*4	*15
16	5.3	6.6	8.6				6.4	9.2	32	6.1	5.3	16
17	5.3	7.0	8.4	6.7		*8	6.4	11	26	4.4	*5	15
18	5.3	6.7	8.1		*7		6.2	14	21	3.4		11
19	6.1	6.7	8.0				7.8	11	21	3.3		9.3
20	5.4	6.9	8.1				7.8	10	17	*3	*3	9.3
21	5.6	7.2	8.1					11	12	*3		9.3
22	5.8	7.2	8.6		*8		*5	9.8	9.0	*30		9.3
23	5.9	7.4	8.6			*7		9.2	7.6	*10	1.2	10
24	5.9	7.5	8.5	*6.5	†8.2		2.6		8.4	7.0	1.2	12
25	6.1	7.4	8.6				2.7		8.3	5.0	1.3	11
26	5.7	7.5	8.6		*8	*6	2.8	*9	9.5	4.3	8.3	10
27	5.6	7.5	8.8			†6.1	2.8		8.9	4.5	4.0	10
28	5.7	7.8	9.0			*6	2.8		8.6	3.3	3.7	11
29	5.9	7.9	8.8		-	6.0	2.9	9.0	8.6	3.3	3.4	10
30	6.2	8.8	8.3	6.1	-	6.5	2.8	10	8.5	3.2	3.3	10
31	6.2	-	8.3	6.4	-	6.6	-	8.7	-	*3	2.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	159.0	6.2	3.8	5.13	315
November	203.9	8.8	6.1	6.80	404
December	270.7	9.7	8.0	8.73	537
Calendar year 1934	1,933.4	14	.3	5.30	3,840
January	215.4	-	-	6.95	427
February	191.9	-	-	6.85	381
March	241.1	-	-	7.78	478
April	158.7	7.8	2.6	5.29	315
May	229.9	15	2.1	7.42	456
June	1,229.8	743	2.1	41.0	2,440
July	253.2	30	3	8.17	502
August	105.9	8.3	1.2	3.42	210
September	914.2	450	2.8	3.05	1,810
Water year 1934-35	4,173.7	743	1.2	11.4	8,280

*Estimated.
†Discharge measurement.

Madera Canyon near Toyahvale, Tex.

Location.- Water-stage recorder, lat. 30°52', long. 103°58', in Jeff Davis County, 11 miles above confluence with Toyah Creek and 12 miles southwest of Toyahvale, Reeves County.

Drainage area.- 54 square miles.

Records available.- July 1932 to September 1935.

Extremes.- Maximum discharge during year, 148 second-feet Sept. 4 (gage height, 2.41 feet); no flow at times.
1932-35: Maximum stage, 8.00 feet Sept. 29, 1932, from flood marks (discharge not determined); no flow at times.

Remarks.- Records poor. No diversions.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									0	0	0.1	2.1
2									0	0	.4	2.8
3									0	0	2.1	2.8
4									0	0	8.7	32
5									0	0	5.6	18
6									0	0	3.5	14
7									0	0	2.3	11
8									0	0	1.6	7.9
9									0	0	1.3	7.5
10									0	0	1.1	6.0
11									17	0	.6	5.6
12									13	0	.4	5.6
13									5.0	0	.1	5.3
14									3.5	0	3.2	4.7
15									1.6	0	3.4	4.4
16									.7	0	4.9	3.7
17									.6	0	1.6	3.2
18									.4	0	.8	3.0
19									.3	8.9	.5	2.3
20									.1	8.9	.3	2.0
21									.1	4.7	.1	1.7
22									0	1.8	.1	1.6
23									0	28	.1	1.6
24									0	7.2	.5	3.7
25									0	3.7	.1	1.3
26									0	2.6	0	.9
27									0	1.8	0	.9
28									0	1.4	0	.8
29									0	1.1	1.3	.6
30									0	.8	3.2	.5
31									-	.5	2.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1934	86.5	16	0	.24	171
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	42.3	17	0	1.41	84
July	71.4	28	0	2.30	142
August	50.0	8.7	0	1.61	99
September	157.5	32	.5	5.25	312
Water year 1934-35	321.2	32	0	.88	637

Seepage investigation in Reeves County water improvement district no. 1

During the investigation the stage remained constant.

Discharge measurements of laterals of Reeves County water improvement district no. 1 from San Solomon Springs to Balmorhea Reservoir, near Balmorhea, Tex., to determine seepage, on San Solomon Springs Middle Canal, Main Canal take-out to Balmorhea Reservoir, and Madera Canal, in February 1935

Date	Stream or diversion	Location	Approximate distance in miles from springs at Toyahvale	Discharge in second-feet				
				Main stream	Tributary	Diversion	Gain or loss in section	Total gain or loss
Feb. 6	San Solomon Springs Middle Canal	0.5 mile below springs at Toyahvale	0.5	*34.1	-	-	-	-
7	Main Canal	Just below check gate and 2⅔ miles above Balmorhea	1.4	-	-	†2.2	-	-
7	Main Canal take-out to Balmorhea Reservoir	0.2 mile below diversion from Main Canal, near Toyahvale	1.6	**42.8	-	-	†10.9	†10.9
7	....do.....	0.6 mile below diversion from Main Canal, near Toyahvale	2.0	44.0	-	-	†1.2	†12.1
7	Madera Canal	Just above confluence with Main Canal take-out to Balmorhea Reservoir, 1¾ miles northeast of Toyahvale	2.2	-	0	-	-	-
7	....do.....	0.5 mile below confluence with Main Canal take-out to Balmorhea Reservoir	2.7	42.0	-	-	-2.0	†10.1
7	....do.....	300 feet above Balmorhea Reservoir, 1.7 miles southeast of Balmorhea	4.2	37.8	-	-	-4.2	†5.9

*Total flow of San Solomon Springs.
†Leakage through check gates.
**Combined flow from San Solomon Springs and Phantom Lake except 2.2 second-feet leaking through check gates in Main Canal.

Devils River near Juno, Tex.

Location.- Water-stage recorder, lat. 29°58', long. 101°9', 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.- 2,733 square miles.

Records available.- May 1925 to September 1935.

Extremes.- Maximum discharge during year, about 46,200 second-feet Sept. 4 (gage height, 16.00 feet); minimum, 66 second-feet Feb. 21-23, Mar. 5-8, 12-15.
1925-35: Maximum discharge, 370,000 second-feet, by slope-area method, Sept. 1, 1932 (gage height, 31.3 feet, from flood marks); minimum, 48 second-feet June 4-6, 1930.

Remarks.- Records good except those above 1,000 second-feet, which are fair. No diversions above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	80	79	76	72	69	68	69	80	250	141	133	124
2	80	79	76	72	68	68	69	80	3,570	141	131	124
3	80	79	76	72	68	68	69	80	1,330	138	131	129
4	80	78	76	72	68	68	69	82	2,110	136	129	13,200
5	80	78	76	72	68	66	69	83	17,300	134	128	23,900
6	80	78	76	72	70	66	69	82	7,500	134	128	18,300
7	80	78	76	72	70	66	69	80	950	134	128	4,220
8	79	78	75	72	70	66	68	76	310	133	126	7,340
9	79	78	75	71	70	68	69	78	185	133	126	4,410
10	79	79	75	71	69	69	69	78	153	133	126	2,100
11	79	79	75	71	69	68	69	78	211	134	124	944
12	79	79	75	71	69	66	69	76	7,860	133	126	463
13	79	79	75	71	69	66	69	76	3,140	133	128	332
14	79	79	75	71	69	66	68	76	8,600	133	128	278
15	79	79	75	71	69	66	69	143	3,820	131	128	269
16	80	79	75	71	68	68	69	78	1,250	131	128	253
17	83	79	75	71	68	68	69	268	376	289	128	245
18	82	79	75	71	68	68	69	442	235	134	126	240
19	80	82	73	71	68	68	1,120	1,200	662	144	126	230
20	80	80	75	70	68	69	1,040	305	479	133	126	225
21	80	78	75	70	66	69	134	119	220	131	126	218
22	80	76	75	70	66	69	96	100	192	134	124	215
23	80	76	75	70	66	69	96	2,290	164	271	124	211
24	80	76	75	70	68	69	92	4,580	157	1,050	124	211
25	80	76	75	70	68	69	94	516	153	628	124	204
26	80	76	75	69	68	69	88	195	150	198	124	202
27	79	78	75	69	68	69	86	177	146	151	124	198
28	79	78	75	69	68	68	85	9,250	146	146	124	191
29	79	78	75	68	-	69	83	8,990	144	139	124	191
30	79	78	75	68	-	69	80	4,170	143	136	129	189
31	79	-	75	68	-	69	-	839	-	133	126	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,472	83	79	79.7	4,900
November	2,348	82	76	78.3	4,660
December	2,330	76	73	75.2	4,620
Calendar year 1934	36,808	2,620	73	101	73,010
January	2,188	72	68	70.6	4,340
February	1,913	70	66	68.3	3,790
March	2,104	69	66	67.9	4,170
April	4,334	1,120	68	144	8,600
May	34,767	9,250	76	1,122	68,960
June	61,906	17,300	143	2,064	122,800
July	5,969	1,050	131	193	11,840
August	3,927	133	124	127	7,790
September	79,356	23,900	124	2,645	157,400
Water year 1934-35	203,614	23,900	66	558	403,900

Mimbres River near Mimbres, N. Mex.

Location.- Water-stage recorder, lat. 32°52', long. 107°59', in SE¼NW¼ sec. 33, T. 16 S., R. 11 W., 1½ miles northwest of Mimbres.

Drainage area.- 183 square miles.

Records available.- October 1930 to September 1935 in reports on U. S. Geological Survey; May 1921 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,630 second-feet Aug. 29 (gage height 4.33 feet); minimum mean daily discharge, 2.2 second-feet Aug. 24.
1930-35: Maximum discharge, about 2,060 second-feet July 17, 1933 (gage height, 4.51 feet); minimum mean daily discharge, 1.4 second-feet July 11, 12, 1933.

Remarks.- Records good except those estimated on basis of hydrographic comparison with records of nearby stations and study of weather records, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			5.0	4.7	3.8	7.5	3.0	11	5.9	3.5	11	*3
2			5.0	4.7	3.8	7.5	4.1	12	6.5	3.3	11	242
3	*3.5		4.7	4.4	3.8	8.1	4.1	14	5.9	4.4	9.6	157
4		*3.5	4.7	4.4	3.8	8.1	5.9	15	6.2	4.1	15	91
5			4.7	4.7	4.1	7.5	8.6	15	5.9	3.3	9.1	164
6	3.3		4.7	6.5	4.1	7.5	9.6	12	5.6	3.0	8.1	38
7	3.5		4.7	5.9	4.4	7.0	11	12	5.6	2.8	7.0	20
8	3.5	3.3	4.7	5.3	4.4	7.0	11	11	5.9	2.6	6.5	15
9	*3	3.3	4.7	5.0	4.4	7.0	11	11	5.6	3.5	6.5	15
10		3.5	4.7	5.0	5.0	7.0	10	9.6	5.6	4.1	6.5	14
11	10	3.8	4.4	5.3	5.3	7.0	11	9.1	5.9	4.1	6.5	11
12	7	4.1	3.8	5.6	5.3	7.0	11	7.0	5.9	5.9	26	9.1
13	6	4.4	4.1	5.3	5.0	7.0	11	7.5	5.9	5.0	39	8.6
14	5	4.7	4.4	5.0	5.3	7.5	12	7.5	7.5	3.1	5.3	8.1
15		4.7	4.4	5.0	6.2	7.5	12	7.5	7.0	3.8	4.4	7.5
16		5.0	4.4	5.0	5.6	8.1	12	5.6	6.2	4.1	3.8	6.5
17	*4	5.0	4.1	5.0	5.0	8.1	12	8.6	5.3	3.0	5.6	6.2
18		5.0	3.8	5.0	5.0	7.0	14	9.1	4.1	2.8	5.6	5.9
19		5.3	3.8	5.0	5.6	6.5	15	9.6	4.1	*4	18	5.3
20		5.9	4.1	5.0	7.5	7.0	15	8.6	4.4	*5	17	5.9
21		5.6	4.4	4.7	9.1	5.9	15	7.5	3.5	*6	6.2	5.9
22		5.6	4.4	5.0	12	5.3	15	7.0	4.1	*5	5.3	6.5
23		5.6	4.4	5.0	13	5.6	14	6.5	4.7	*5	3.5	7.0
24		5.3	4.4	4.7	12	5.6	13	7.0	5.3	*4	2.2	15
25		5.0	4.4	4.1	11	5.6	11	8.6	6.2	3.5	28	9.1
26	*3.5	5.0	3.8	3.5	9.6	5.6	11	9.1	5.6	4.4	5.0	7.5
27		5.0	3.5	3.5	9.1	5.6	11	9.1	5.3	4.7	3.5	6.5
28		5.0	4.4	3.5	8.6	5.0	9.6	7.5	5.3	5.0	4.4	7.5
29		5.0	4.7	3.8	-	3.8	10	7.5	3.1	11	49	7.0
30		5.0	4.4	3.8	-	4.1	11	7.0	3.3	8.6	9.6	6.5
31		-	4.7	3.8	-	4.7	-	6.5	-	21	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	124.3	-	-	4.01	247
November	134.6	5.9	-	4.49	267
December	136.4	5.0	3.5	4.40	271
Calendar year 1934	1,660.1	50	2.1	4.55	3,290
January	147.2	6.5	3.5	4.75	292
February	181.8	13	3.8	6.49	361
March	203.7	8.1	3.8	6.57	404
April	323.9	15	3.0	10.8	642
May	286.0	15	5.6	9.23	567
June	161.4	7.5	3.1	5.38	320
July	153.6	21	2.6	4.95	305
August	363.2	49	2.2	11.7	720
September	911.6	242	3	30.4	1,810
Water year 1934-35	1,660.1	242	2.2	8.57	6,210

*Estimated.

MIMBRES RIVER BASIN

Mimbres River near Faywood, N. Mex.

Location.- Water-stage recorder, lat. 32°36', long. 107°53', in sec. 7, T. 20 S., R. 10 W., about 6 miles northeast of Faywood Hot Springs and 10 miles northeast of Faywood.

Drainage area.- 485 square miles.

Records available.- April 1908 to December 1914, October 1930 to September 1935 in reports of U. S. Geological Survey; April 1908 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 6,640 second-feet Aug. 30 (gage height, 6.5 feet); no flow at times.
1930-35: Maximum discharge, about 6,900 second-feet Aug. 10, 1931 (gage height, 6.62 feet); no flow at times.

Remarks.- Records poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4				0	4	3	2	1	2	8	*80
2	*4				0	2	4	2	1	3	14	249
3	*3				0	3	4	2	1	2	1	184
4	*2				0	4	3	3	1	2	139	41
5	*1				0	3	3	3	2	2	42	110
6	0				0	4	4	2	2	2	12	51
7	1				0	7	4	1	2	2	2	23
8	1				1	8	4	1	2	1	0	21
9	0				2	6	3	1	2	1	0	18
10	0				2	7	3	1	2	1	0	16
11	2				2	7	3	1	3	1	0	13
12	1				2	6	4	1	3	1	28	11
13	0				3	6	3	2	3	21	60	9
14	0				3	7	3	2	3	4	11	6
15	0				1	6	3	1	3	2	0	5
16	0				1	4	3	1	3	1	0	4
17	0				1	2	3	2	3	1	2	1
18	0				1	3	3	1	2	1	7	0
19	0				1	3	3	1	1	1	4	0
20	0				1	4	3	1	1	4	24	0
21	0				1	4	3	2	1	2	3	0
22	0				8	4	3	2	1	1	13	0
23	0				3	4	2	1	1	0	4	0
24	0				3	3	2	1	1	0	0	268
25	0				7	3	2	1	1	1	40	23
26	0				7	6	2	2	1	1	28	13
27	0				4	4	2	2	1	1	1	32
28	0				5	3	2	2	1	1	29	34
29	0				-	2	2	2	1	1	377	31
30	0				-	3	2	2	1	0	*450	23
31	0				-	3	-	1	-	7	*70	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19	4	0	0.6	38
November	0	0	0	0	0
December	0	0	0	0	0
Calendar year 1934	1,267	147	0	3.5	2,510
January	0	0	0	0	0
February	59	8	0	2.1	117
March	135	8	2	4.4	268
April	88	4	2	2.9	175
May	49	3	1	1.6	97
June	51	3	1	1.7	101
July	70	21	0	2.3	139
August	1,369	450	0	44.2	2,720
September	1,267	268	0	42.2	2,510
Water year 1934-35	3,107	450	0	8.5	6,160

*Estimated.

Rio Tularosa near Tularosa, N. Mex.

Location.- Water-stage recorder, lat. 33°7', long. 105°57', in SW¼SW¼ sec. 15, T. 14 S., R. 10 E., 200 feet above diversion dam for Tularosa Community Ditch and 6 miles northeast of Tularosa.

Records available.- December 1912 to December 1914, October 1931 to September 1935 in reports of U. S. Geological Survey; December 1912 to December 1914, October 1916 to July 1917 in reports of State engineer.

Extremes.- Maximum discharge during year, about 2,480 second-feet Aug. 27 (gage height, 7.54 feet); minimum mean daily discharge, 2 second-feet Aug. 7, 8.
1931-35: Maximum discharge, that of Aug. 27, 1935; minimum mean daily discharge, 1 second-foot July 31, Aug. 1, 1934.

Remarks.- Records fair February to July, others poor. Estimates based on study of weather records and knowledge of local conditions. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	*	*9		12	14	12	11	10	6	6	7
2	8	*15	*9		12	14	12	10	8	8	5	18
3	9		8	*20	12	14	11	11	7	9	5	20
4	10		*10		13	14	12	11	8	10	4	12
5	7	14	12		13	14	12	8	9	9		8
6	10		*14	*24	12	14	11	8	9	10	*5	5
7	13		*12	*17	12	14	11	11	9	11	2	*10
8	11		*11	16	14	14	11	11	9	11	2	50
9	9	*14	10	15	14	14	12	10	9	10	3	25
10	8			13	14	14	12	10	9	10	14	23
11	*10		*12		14	14	12	10	9	*9	8	22
12	11	13		*13	14	14	12	10	10	8	6	20
13	14	*13			14	14	11	9	10	6	8	18
14	*14				14	14	11	8	11	5	8	18
15	14	13	*13	12	14	13	10	8	10	6	8	17
16	12	13	*14	12	13	12	11	9	7	9	8	16
17	12	12			14	12	11	8	8	*10	8	15
18		12			13	11	11	5	11	10	10	14
19		12		*13	12	11	12	8	11	9	8	14
20	*12	13	*15		12	12	11	7	11	9	9	14
21				14	13	12	8	10	10	9		14
22	11			16	13	12	10	*11	10	7	*6	14
23			*15	*11	13	12	12	*12	10	6		14
24		*12	*14	*11	14	12	12	12	7	6		29
25			*15		15	14	11	12	7	6	*5	11
26	*14		*14	*12	15	13	12	*10	7	6	6	11
27		10	*14		15	13	12	7	7	4	104	11
28			*14		14	11	12	6	9	5	12	12
29	16		*18	13	-	12	11	8	6	6	8	12
30	*15	*10	23	*12	-	11	11	9	5	7	7	12
31		-	*23	12	-	12	-	9	-	*7	7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	369	-	7	11.9	732
November	384	-	-	12.8	762
December	422	23	-	13.6	837
Calendar year 1934	4,468	24	1	12.2	6,860
January	450	-	-	14.5	893
February	374	15	12	13.4	742
March	401	14	11	12.9	795
April	339	12	8	11.3	672
May	289	12	5	9.3	573
June	263	11	5	8.8	522
July	244	11	4	7.9	484
August	301	104	2	9.7	597
September	486	50	5	16.2	964
Water year 1934-35	4,322	104	2	11.8	8,570

*Estimated.

Alamogordo-La Luz Ditch at La Luz, N. Mex.

Location.- Water-stage recorder, lat. 32°58'50", long. 105°56'15", in SW¼ sec. 25, T. 15 S., R. 10 E., a quarter of a mile above La Luz and half a mile below head.

Records available.- October 1934 to September 1935.

Extremes.- Maximum discharge during year, 20 second-feet Sept. 2 (gage height, 1.24 feet); minimum mean daily discharge, 0.6 second-foot Feb. 20.

Remarks.- Records fair. Discharge based on formula for a 3-foot Venturi flume. No diversions above station. Ditch diverts from Rio La Luz and is used for irrigation.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		7.6	8.1	7.6	6.6	1.3	7.5	4.8	4.7	3.9	5.2	7.6
2		7.0	8.0	7.3	6.6	1.2	6.9	5.1	5.0	4.0	4.8	7.0
3		6.7	8.0	7.6	6.9	5.0	6.1	6.6	4.6	3.8	5.5	2.9
4		7.5	8.0	7.8	6.9	9.3	5.7	9.0	4.4	3.8	6.0	5.1
5		7.2	8.0	8.0	6.9	9.6	6.3	8.3	3.9	3.4	6.3	6.4
	*9											
6		7.3	8.0	5.6	7.0	8.8	6.0	6.3	4.0	2.9	5.5	8.0
7		7.2	7.8	7.6	5.6	6.3	7.5	5.4	4.0	3.9	5.5	7.8
8		6.7	7.6	7.8	1.2	4.3	6.6	5.5	3.9	3.2	4.8	8.8
9		6.3	7.8	7.3	1.5	3.3	6.0	4.8	4.0	3.2	5.2	5.4
10		6.4	7.8	7.8	6.1	6.0	5.8	5.1	5.0	3.4	7.5	7.2
11	10	6.3	7.8	7.8	7.3	7.3	6.6	4.2	5.7	3.8	7.6	11
12	8.0	6.3	7.8	7.3	6.7	7.0	6.7	4.8	5.2	3.3	7.2	11
13	9.3	6.4	7.6	7.6	1.0	3.1	6.4	5.1	4.8	3.6	7.3	10
14	9.3	6.3	7.5	8.0	1.0	2.5	5.2	5.2	4.4	4.0	6.1	8.5
15	10	6.3	7.6	7.5	6.3	5.4	5.5	5.1	4.3	4.7	6.0	7.0
16	10	6.4	7.6	7.0	9.3	7.3	5.2	5.4	4.8	4.4	5.8	8.1
17	9.8	2.8	7.6	7.5	8.1	8.8	5.4	6.6	3.3	4.8	6.4	8.0
18	9.5	5.1	7.6	7.3	7.8	8.8	5.7	7.8	3.1	4.7	6.0	7.5
19	8.3	6.3	8.0	7.2	.7	9.0	5.7	7.8	3.2	4.6	6.0	7.2
20	6.8	6.0	7.8	6.3	.6	8.5	5.4	6.6	2.5	6.0	6.9	6.1
21	11	6.3	7.8	6.6	.7	1.5	5.4	5.8	3.0	5.8	6.4	6.1
22	11	6.7	7.8	6.0	1.0	4.2	5.4	5.1	4.0	5.0	*3.0	7.0
23	10	6.7	7.8	6.7	1.0	9.1	5.2	5.0	4.3	5.0	1.3	7.3
24	10	7.2	7.8	6.9	1.1	9.3	5.7	4.7	3.9	5.0	6.9	9.3
25	9.6	7.5	7.6	7.2	1.3	8.6	5.1	4.7	3.9	4.2	7.5	6.4
26	9.0	7.5	7.5	7.0	1.2	8.5	5.2	5.0	3.4	4.0	6.3	6.6
27	8.6	6.9	7.5	7.0	1.3	5.6	5.4	5.2	3.3	4.0	7.3	10
28	*8.2	6.6	7.3	7.2	1.2	3.4	5.4	5.2	3.8	4.6	6.7	10
29	*7.9	7.3	7.6	7.2	-	7.6	5.5	4.3	3.7	4.2	7.0	9.8
30	7.5	7.8	7.3	7.0	-	8.1	4.8	4.2	3.9	4.3	7.8	8.5
31	7.6	-	7.5	6.6	-	8.5	-	4.6	-	4.8	7.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	281.4	-	6.8	9.08	558
November	198.6	7.8	2.8	6.62	394
December	239.5	8.1	7.3	7.73	475
Calendar year					
January	223.5	8.0	5.6	7.21	443
February	112.9	9.3	.6	4.03	224
March	197.2	9.6	1.2	6.36	391
April	175.3	7.5	4.8	5.84	348
May	173.3	9.0	4.2	5.59	344
June	122.0	5.7	2.5	4.07	242
July	130.3	6.0	2.9	4.20	258
August	189.3	7.8	1.3	6.11	375
September	231.6	11	2.9	7.72	459
Water year 1934-35	2,274.9	-	.6	6.23	4,510

*Estimated.

Alamo Creek at Wood ranch, near Alamogordo, N. Mex.

Location.- Water-stage recorder, lat. 32°51'25", long. 105°50', in SW¼ sec. 4, T. 17 S., R. 11 E., 100 feet above road crossing at Wood ranch and 8 miles southeast of Alamogordo.

Records available.- October 1931 to September 1935.

Extremes.- Maximum discharge during year, 2.9 second-feet Sept. 5 (gage height, 0.38 foot); minimum mean daily discharge, 0.6 second-foot Apr. 30.
1931-35: Maximum discharge, 7.7 second-feet July 17, 1933 (gage height, 1.55 feet, former datum); minimum mean daily discharge, that of Apr. 30, 1935.

Remarks.- Records good. Discharge based on formula for 3-foot Parshall flume.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.8	1.8	1.9	1.8	1.7	1.3	1.0	1.3	1.2	1.4	1.1
2	1.8	1.8	1.8	1.9	1.8	1.6	1.3	1.3	1.3	1.2	1.4	1.1
3	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.3	1.2	1.5	1.0
4	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.3	1.2	1.5	1.0
5	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.3	1.2	1.4	1.1
6	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.3	1.2	1.4	1.1
7	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.3	1.2	1.4	1.1
8	1.8	1.8	1.8	1.7	1.8	1.6	1.3	1.3	1.3	1.2	1.3	1.1
9	1.8	1.8	1.8	1.7	1.8	1.6	1.3	1.3	1.2	1.2	1.2	1.1
10	1.8	1.8	1.8	1.7	1.8	1.6	1.3	1.3	1.2	1.2	1.3	1.1
11	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.2	1.2	1.3	1.1
12	1.8	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.2	1.2	1.3	1.0
13	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.0	1.3	1.2	1.3	1.0
14	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.0	1.3	1.2	1.3	1.0
15	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.3	1.3	1.2	1.2	1.0
16	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.3	1.3	1.2	1.2	1.0
17	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.3	1.2	1.2	1.2	1.0
18	1.8	1.8	1.8	1.8	1.8	1.5	1.3	1.3	1.2	1.3	*1.2	1.0
19	1.8	1.8	1.8	1.8	1.7	1.4	1.3	1.3	1.2	1.3	*1.2	1.0
20	1.8	1.8	1.8	1.8	1.7	1.4	1.3	1.3	1.2	1.3	*1.2	1.0
21	1.8	1.8	1.8	1.8	1.7	1.4	1.3	1.3	1.2	1.3	*1.1	1.0
22	1.8	1.8	1.8	1.8	1.7	1.4	1.3	1.3	1.2	1.3	*1.1	1.0
23	1.8	1.8	1.8	1.8	1.7	1.4	1.3	1.3	1.2	1.3	*1.1	1.0
24	1.8	1.8	1.8	1.8	1.7	1.3	1.3	1.3	1.2	1.3	1.1	1.0
25	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.3	1.2	1.3	1.1	1.0
26	1.8	1.8	1.8	1.8	1.6	1.3	1.3	1.4	1.2	1.3	1.1	1.0
27	1.8	1.8	1.8	1.8	1.7	1.3	1.3	1.4	1.2	1.3	1.1	1.0
28	1.8	1.8	1.8	1.8	1.7	1.3	1.3	1.4	1.2	1.3	1.1	1.0
29	1.8	1.8	1.9	1.8	-	1.3	.8	1.3	1.2	1.3	1.1	1.0
30	1.8	1.8	1.9	1.8	-	1.3	.6	1.3	1.2	1.3	1.1	1.0
31	1.8	-	1.9	1.8	-	1.3	-	1.3	-	1.4	1.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	55.8	1.8	1.8	1.80	111
November	54.0	1.8	1.8	1.80	107
December	56.1	1.9	1.8	1.81	111
Calendar year 1934	741.2	2.6	1.7	2.03	1,470
January	55.7	1.9	1.7	1.80	110
February	49.2	1.8	1.6	1.76	98
March	45.7	1.7	1.3	1.47	91
April	37.8	1.3	.6	1.26	75
May	39.7	1.4	1.0	1.28	79
June	37.2	1.3	1.2	1.24	74
July	38.7	1.4	1.2	1.25	77
August	38.3	1.5	1.1	1.24	76
September	30.9	1.1	1.0	1.03	61
Water year 1934-35	539.1	1.9	.6	1.48	1,070

*Estimated.

Alamogordo water supply at intake, near Alamogordo, N. Mex.

Location.- Water-stage recorder, lat. 32°50'50", long. 105°50'45", in SE¼SW¼NW¼ sec. 8, T. 17 S., R. 11 E., just above mouth, at Gordon Canyon, at head of intake to Alamogordo water system, 7½ miles southeast of Alamogordo.

Records available.- October 1932 to September 1935.

Extremes.- Maximum discharge during year, 2.3 second-feet Jan. 21 (gage height, 0.49 foot); minimum mean daily discharge, 1.0 second-foot Sept. 12-30.
1932-35: Maximum discharge, 4.3 second-feet Aug. 7, 1933 (gage height, 0.67 foot); no flow July 7, 1933.

Remarks.- Records good except those estimated by comparison with records of station at Wood ranch, which are poor. Discharge based on formula for 2.5-foot rectangular weir with end contractions. Water is diverted from Alamo Creek for use of Alamogordo.

Discharge, in second-feet, water year October 1934 to September 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.3	1.3	1.4	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.1
2	1.8	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.1
3	1.8	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.1
4	1.8	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.3	1.2	1.1
5	1.8	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.3	1.1	1.1
6	1.8	1.3	1.3	1.4	1.3	1.4	1.5	1.5	1.4	1.3	*1.1	1.1
7	*1.8	1.3	1.3	1.4	1.3	1.4	1.5	1.5	1.4	1.3	1.1	1.1
8	*1.7	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.3	1.1	1.1
9	*1.7	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.3	1.1	1.2
10	*1.7	1.3	1.3	1.4	1.3	1.4	1.5	1.5	1.4	1.3	1.2	1.1
11	*1.6	1.3	1.3	1.4	1.3	1.4	1.5	1.5	1.4	1.3	1.1	1.1
12	*1.6	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.4	1.3	1.2	1.0
13	*1.6	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.4	1.3	1.2	1.0
14	*1.5	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.4	1.3	1.1	1.0
15	*1.5	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
16	*1.4	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
17	*1.4	1.4	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
18	*1.4	1.4	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
19	*1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
20	1.3	1.5	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.4	1.1	1.0
21	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
22	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
23	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.2	1.0
24	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
25	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
26	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.1	1.0
27	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.2	1.0
28	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.2	1.0
29	1.3	1.3	1.5	1.4	-	1.5	1.5	1.5	1.3	1.3	1.2	1.0
30	1.3	1.3	1.4	1.3	-	1.5	1.5	1.5	1.3	1.3	1.1	1.0
31	1.3	-	1.4	1.3	-	1.5	-	1.5	-	1.3	1.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	46.5	1.8	1.3	1.50	92
November	39.4	1.5	1.3	1.31	78
December	40.6	1.5	1.3	1.32	81
Calendar year 1934	711.6	2.7	1.1	1.95	1,410
January	42.5	1.4	1.3	1.37	84
February	38.1	1.4	1.3	1.36	76
March	43.7	1.5	1.4	1.41	87
April	45.0	1.5	1.5	1.50	89
May	46.5	1.5	1.5	1.50	92
June	40.4	1.4	1.3	1.35	80
July	40.4	1.4	1.3	1.30	80
August	35.5	1.3	1.1	1.15	70
September	31.2	1.2	1.0	1.04	62
Water year 1934-35	490.0	1.8	1.0	1.34	971

*Estimated.

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 Sept. 30, 1935

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
Jan. 14	Cole Creek.....	South Concho River	150 feet above mouth and about 3 miles above Christoval, Tex.	2.42
Oct. 22	Irrigation Canal..	....do.....	Head of canal, Christoval, Tex.	12.8
Dec. 12	....do.....	....do.....	....do.....	8.18
Jan. 14	....do.....	....do.....	....do.....	9.14
Feb. 20	....do.....	....do.....	....do.....	5.08
Mar. 22	....do.....	....do.....	....do.....	10.7
Apr. 17	....do.....	....do.....	....do.....	9.23
17	....do.....	....do.....	....do.....	9.62
May 20	....do.....	....do.....	....do.....	14.2
June 14	....do.....	....do.....	....do.....	6.62
Aug. 19	....do.....	....do.....	....do.....	16.0
June 14	South Llano River.	Llano River.....	In Edwards County, 5 miles above Paint Creek and 24 miles above Junction, Kimble County, Tex. (Drainage area, 540 square miles.)	*160,000
14	Paint Creek.....	South Llano River.	In Kimble County, Tex., 1¼ miles above mouth. (Drainage area, 218 square miles.)	*69,300
Oct. 22	Barton Creek.....	Colorado River....	Above Barton Springs, Austin, Tex....	0
Dec. 3	....do.....	....do.....	....do.....	0
Jan. 7	....do.....	....do.....	....do.....	0
26	....do.....	....do.....	....do.....	0
Mar. 2	....do.....	....do.....	....do.....	0
16	....do.....	....do.....	....do.....	0
Apr. 6	....do.....	....do.....	....do.....	0
20	....do.....	....do.....	....do.....	0
July 6	....do.....	....do.....	....do.....	19.0
Aug. 7	....do.....	....do.....	....do.....	.6
Oct. 22	Barton Springs....	Barton Creek.....	Austin, Tex.....	†20.8
Dec. 3	....do.....	....do.....	....do.....	†21.7
Jan. 7	....do.....	....do.....	....do.....	†24.1
26	....do.....	....do.....	....do.....	†22.3
Mar. 2	....do.....	....do.....	....do.....	†31.2
16	....do.....	....do.....	....do.....	†30.6
Apr. 6	....do.....	....do.....	....do.....	†25.2
20	....do.....	....do.....	....do.....	†22.6
July 6	....do.....	....do.....	....do.....	†81.0
Aug. 7	....do.....	....do.....	....do.....	†62.5
Nov. 3	San Marcos River..	Guadalupe River...	0.8 mile below San Marcos-Luling highway crossing.	102
Jan. 7	....do.....	....do.....	....do.....	111
Mar. 6	....do.....	....do.....	....do.....	102
May 11	....do.....	....do.....	....do.....	110
June 12	....do.....	....do.....	....do.....	171
Sept.16	....do.....	....do.....	....do.....	116
July 1	San Antonio River.	....do.....	South Alamo Street in San Antonio, Tex.	165
1	San Pedro Creek...	San Antonio River	At West Arsenal Street in San Antonio, Tex.	12.9
1	Salado Creek.....	....do.....	200 feet below Austin road near San Antonio, Tex.	1.87
1	....do.....	....do.....	300 feet below Rittiman road crossing, 1 mile below Austin-San Antonio road crossing, and about 6 miles northeast of San Antonio, Tex.	4.08
2	....do.....	....do.....	2,000 feet below Farmers Well and 1.5 miles east of Fort Sam Houston, near San Antonio, Tex.	28.5
Nov. 5	Medina River.....	....do.....	Just below Cold Springs, 4 miles southwest of Pipe Creek, Bandera County, Tex.	1.13
Jan. 9	....do.....	....do.....	....do.....	13.1
Mar. 3	....do.....	....do.....	....do.....	16.2
June 9	....do.....	....do.....	....do.....	211
Nov. 6	....do.....	....do.....	Medina River, 1 mile below Medina Valley Irrigation Co.'s diversion dam and 5 miles northwest of Riomedina, Medina County, Tex.	**30.5
Jan. 9	....do.....	....do.....	....do.....	**23.1
Mar. 3	....do.....	....do.....	....do.....	**3.22
12	....do.....	....do.....	....do.....	**12.2
May 2	....do.....	....do.....	....do.....	12.5
June 10	....do.....	....do.....	....do.....	††33.6
Nov. 6	Medina Canal.....	Medina River.....	1/3 mile below head gates and 6 miles northwest of Riomedina, Medina County, Tex.	51.9
Jan. 9	....do.....	....do.....	....do.....	0
Mar. 3	....do.....	....do.....	....do.....	0
12	....do.....	....do.....	....do.....	50.1
May 2	....do.....	....do.....	....do.....	26.3
June 10	....do.....	....do.....	....do.....	0
14	West Nueces.....	Nueces River.....	In Edwards County, 2⅔ miles below Kickapoo Springs and 28 miles north of Brackettville, Kinney County, Tex. (Drainage area, 402 square miles.)	(a)
14	....do.....	....do.....	8 miles north of Cline, Uvalde County, Tex. (Drainage area, 808 square miles.)	(a)

*Discharge determined by slope-area method.
†Includes flow of Old Mill Spring.
**Seepage past diversion dam.
††Seepage and flow over spillway at diversion dam.
(a)Extraordinarily high discharge not yet finally determined.

Miscellaneous discharge measurements in western Gulf of Mexico basins during the year ending Sept. 30, 1935--Continued.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
June 14	Dry Frio River....	Frio River.....	4 miles below Regan Wells, Uvalde County, Tex. (Drainage area, 120 square miles.)	*64,700
May 31	Seco Creek.....	....do.....	11 miles above D'Hanis, Medina County, Tex. (Drainage area, 153 square miles.)	(a)
Feb. 4	Rio Grande.....	Gulf of Mexico.....	In NE¼NE¼ sec. 22, T. 33 N., R. 11 E. New Mexico Principal Meridian, 0.7 mile above Lobatos gaging station, 6.7 miles north of Colorado-New Mexico State line, and 8 miles west of Mesita, Colo.	***115
5	....do.....	....do.....	In W½ sec. 31, T. 27 N., R. 12 E., 600 feet below mouth of Rio Hondo and 2.5 miles west of Arroyo Hondo, N. Mex.	350
6	....do.....	....do.....	....do.....	422
6	....do.....	....do.....	In N½ sec. 12, T. 23 N., R. 10 E., 400 feet above Glen Woody Bridge, 4 miles northeast of Rinconada, N. Mex.	***452
5	Rio Colorado.....	Rio Grande.....	In N½ sec. 20, T. 28 N., R. 12 E., 0.3 mile above mouth and 6 miles southwest of Questa, N. Mex.	***37.3
6	Rio San Cristobal.	....do.....	In SE¼SE¼ sec. 7, T. 27 N., R. 12 E., at mouth, 3 miles southwest of San Cristobal, N. Mex.	†††.5
6	Rio Hondo.....	....do.....	In sec. 31, T. 27 N., R. 12 E., 200 feet above mouth and 2.5 miles west of Arroyo Hondo, N. Mex.	15.7
6	Rio Taos.....	....do.....	In sec. 1, T. 24 N., R. 11 E., 500 feet above mouth and 10 miles southwest of Taos, N. Mex.	***19.4
Nov. 22	Rio Pueblo de Taos	Rio Taos.....	In sec. 33, T. 26 N., R. 14 E., 100 feet above Burned Trail Creek and 7 miles northeast of Taos, N. Mex.	3.29
Dec. 12	....do.....	....do.....	....do.....	3.15
Oct. 5	....do.....	....do.....	In about sec. 31, T. 26 N., R. 14 E., 5 miles northeast of Taos, N. Mex.	5.87
Nov. 22	....do.....	....do.....	....do.....	4.59
Dec. 12	....do.....	....do.....	....do.....	4.88
Jan. 24	....do.....	....do.....	....do.....	4.83
Feb. 26	....do.....	....do.....	....do.....	5.10
Mar. 20	....do.....	....do.....	....do.....	11.6
May 1	....do.....	....do.....	....do.....	37.0
25	....do.....	....do.....	....do.....	177
July 17	....do.....	....do.....	....do.....	18.8
Aug. 14	....do.....	....do.....	....do.....	11.3
25	....do.....	....do.....	....do.....	11.0
Sept. 9	....do.....	....do.....	....do.....	12.9
Oct. 21	....do.....	....do.....	In about sec. 36, T. 26 N., R. 13 E., 2 miles above Taos Pueblo and 4 miles northeast of Taos, N. Mex.	5.22
Nov. 22	....do.....	....do.....	....do.....	4.14
Jan. 24	....do.....	....do.....	....do.....	6.28
Sept. 8	Ditch.....	Diverts from Rio Lucero.	At head, in sec. 16, T. 26 N., R. 13 E., 2 miles south of Arroyo Seco, N. Mex.	2.24
8	Bee Line Ditch....	....do.....	At head, in E½ sec. 21, T. 26 N., R. 13 E., 3.5 miles south of Arroyo Seco, N. Mex.	†††.10
Feb. 6	Embudo Creek.....	Rio Grande.....	In sec. 19, T. 23 N., R. 10 E., 1,000 feet above mouth and 2 miles northwest of Dixon, N. Mex.	21.5
Oct. 25	Santa Fe Creek....	....do.....	In sec. 24, T. 17 N., R. 10 E., above upper reservoir and 6.5 miles east of Santa Fe, N. Mex.	2.31
Jan. 4	....do.....	....do.....	....do.....	.99
Feb. 21	....do.....	....do.....	....do.....	2.52
Mar. 28	....do.....	....do.....	....do.....	4.09
May 8	....do.....	....do.....	....do.....	6.93
25	....do.....	....do.....	....do.....	55.6
July 2	....do.....	....do.....	....do.....	6.70
20	....do.....	....do.....	....do.....	3.31
Aug. 1	....do.....	....do.....	....do.....	4.34
Sept.23	....do.....	....do.....	....do.....	5.39
Oct. 4	Las Palomas Creek.	....do.....	In sec. 8, T. 14 S., R. 5 W., 0.8 mile above dam site and 6 miles northwest of Las Palomas, N. Mex.	2.81
Nov. 8	....do.....	....do.....	....do.....	3.73
Dec. 9	....do.....	....do.....	....do.....	3.89
Jan. 14	....do.....	....do.....	....do.....	4.58
Feb. 4	....do.....	....do.....	....do.....	4.34
16	....do.....	....do.....	....do.....	4.27
Mar. 8	....do.....	....do.....	....do.....	4.21
19	....do.....	....do.....	....do.....	3.98
Apr. 23	....do.....	....do.....	....do.....	4.10
June 4	....do.....	....do.....	....do.....	3.52
21	....do.....	....do.....	....do.....	2.83
July 6	....do.....	....do.....	....do.....	3.42

*Discharge determined by slope-area method.
***Furnished by State engineer of N. Mex.
†††Estimated.
(a)Extraordinarily high discharge not yet finally determined.

Miscellaneous discharge measurements in western Gulf of Mexico basins during the year ending Sept. 30, 1935--Continued.

Date	Stream	Tributary to or diverting from-	Locality	Discharge
				Sec.-ft.
July 23	Las Palomas Creek.	Rio Grande.....	In sec. 8, T. 14 S., R. 5 W., 0.8 mile above dam site and 6 miles northwest of Las Palomas, N. Mex.	3.15
Aug. 6	....do.....	....do.....	....do.....	3.04
20	....do.....	....do.....	....do.....	2.64
Sept.10	....do.....	....do.....	....do.....	4.01
Feb. 6	San Solomon Spring	Toyah Creek.....	Middle Canal 0.5 mile below spring at Toyahvale, Tex.	**** 34.1
July 2	....do.....	....do.....	At head of North and South Canals, at Toyahvale, Tex.	**** 32.8
Aug. 13	....do.....	....do.....	At head of South Canal at Toyahvale, Tex.	**** 31.6
Mar. 15	Comanche Springs..	Comanche Creek.....	Main canal ¼ mile below diversion dam, at Fort Stockton, Tex.	**** 44.5
May 1	....do.....	....do.....	....do.....	**** 44.0
15	Mimbres River.....	Mimbres River Basin	In about sec. 20, T. 16 S., R. 11 W., 2.5 miles above Mimbres gaging station and 4 miles northwest of Mimbres, N. Mex.	1.77
Aug. 7	Bear Canyon.....	Mimbres River.....	In SW¼ sec. 29, T. 16 S., R. 11 W., at mouth, 2 miles northwest of Mimbres, N. Mex.	.25
21	....do.....	....do.....	....do.....	.39
Dec. 18	La Luz Ditch.....	Diverts from Alamogordo-La Luz Ditch.	In SW¼ sec. 25, T. 15 S., R. 10 E., at head, a quarter of a mile above La Luz, N. Mex.	.56
18	....do.....	....do.....	....do.....	1.35
18	....do.....	....do.....	....do.....	3.18
Jan. 9	....do.....	....do.....	....do.....	.77
Feb. 1	....do.....	....do.....	....do.....	.83
Mar. 13	....do.....	....do.....	....do.....	1.10
26	....do.....	....do.....	....do.....	.85
June 10	....do.....	....do.....	....do.....	.75
July 9	....do.....	....do.....	....do.....	1.06
28	....do.....	....do.....	....do.....	.80
Aug. 10	....do.....	....do.....	....do.....	.90
28	....do.....	....do.....	....do.....	.90
Sept.16	....do.....	....do.....	....do.....	1.00

****Total flow of spring.

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