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SURFACE WATER SUPPLY *of the* UNITED STATES

1936

PART 8

WESTERN GULF OF MEXICO BASINS

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Prepared in cooperation with the
STATES OF COLORADO, NEW MEXICO
and TEXAS

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SURFACE WATER SUPPLY OF WESTERN GULF OF MEXICO BASINS, 1936

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 water year ending September 30, 1936. The work was begun in 1888 in connection with special studies relating to irrigation. Measurements of stream flow have been made at about 7,200 points in the United States and also at many points in Alaska and the Hawaiian Islands. In July 1936, 3,160 gaging stations were being maintained by the Geological Survey and the cooperating organizations. Many miscellaneous discharge measurements were made at other points.

In the execution of the work many State and private organizations have cooperated, either by furnishing data or by assisting in collecting data. Acknowledgments for cooperation of the first kind are made in connection with the description of each station affected; cooperation of the second kind is acknowledged on page 14.

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 the type of gage, its latitude and longitude determined from the best available maps, and information in regard to 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. 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

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.

5 percent; "good", within 10 percent; "fair", within 15 percent; and "poor", within 20 percent or more.

The monthly means for any station may represent with high accuracy the quantity of water flowing past the gage, but the figures showing discharge per square mile and 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.

PUBLICATIONS

The results of stream-flow measurements are now published annually in 14 parts, 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.
Atlanta, Ga., Georgia School of Technology.
Ocala, Fla., Post Office Building.
Montgomery, Ala., Post Office Building.
Chattanooga, Tenn., 442 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, 228 Federal Building.
Boise, Idaho, 429 Federal Building.
Helena, Mont., 412 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.
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 1936. 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, 1899-1936

(For basins included see p. 9)

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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	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
1936.....	801	802	803	804	805	806	807	808	809	810	811	812	813	814

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 water year October 1935 to September 1936 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.	1932-36	U. S. section of International Boundary Commission.	Published in International Boundary Commission water bulletins.
Cienegas Creek	Near Del Rio, Tex.	1931-36	....do.....	Do.
Devils River	Near Del Rio, Tex.	*1931-36	....do.....	Do.
Dolores Creek	Near San Ignacio, Tex.	1932-36	....do.....	Do.
East Side Canal	Mesilla Dam, near Mesilla Park, N. Mex.	1916-18, 1920-36	U. S. Bureau of Reclamation.	Unpublished.
Elephant Butte Reservoir	Elephant Butte, N. Mex.	1915-36	U. S. Bureau of Reclamation.	Unpublished.
El Tigre Arroyo	Near Zapata, Tex.	1932-36	U. S. section of International Boundary Commission.	Published in International Boundary Commission water bulletins.
Goodenough Springs	Near Comstock, Tex.	*1931-36	....do.....	Do.
Las Moras Creek	Near Eagle Pass, Tex.	1932-36	....do.....	Do.
Leasburg Canal	At head, near Selden, N. Mex.	1917, 1918, 1920-36	U. S. Bureau of Reclamation.	Unpublished.
Los Olmos Creek	Near Rio Grande City, Tex.	1932-36	U. S. section of International Boundary Commission.	Published in International Boundary Commission water bulletins.
Lozier Creek	Near Langtry, Tex.	1932-36	....do.....	Do.
Pecos River	Near Comstock, Tex.	*1931-36	....do.....	Do.
Pinto Creek	Near Del Rio, Tex.	*1931-36	....do.....	Do.
Rio Alamo	Mier, Tamaulipas, Mex.	1923-26, 1928-36	Mexican section of International Boundary Commission.	Records for 1923-26 and 1928 published in "Report of the American section of the International Water Commission United States and Mexico". Other records published in International Boundary Commission water bulletins.
Rio Escondido	Villa Fuente, Coahuila, Mex.	1922-36	....do.....	Records for 1923-24 and 1928 published as Rio San Antonio above Fuente in Report of the American section of the International Water Commission, United States and Mexico. Records for 1932-36 published in International Boundary Commission water bulletins.
Rio Grande	Boquillas, Tex.	*1931-36	U. S. section of International Boundary Commission.	Published in International Boundary Commission water bulletins.
Do.....	Below Brownsville, Tex.	1934-36	....do.....	Do.
Do.....	Near Del Rio, Tex.	*1931-36	....do.....	Do.
Do.....	Eagle Pass, Tex.	*1931-36	....do.....	Do.
Do.....	Near El Paso, Tex.	*1931-36	....do.....	Do.
Do.....	Below old Fort Quitman, Tex.	*1931-36	....do.....	Do.
Do.....	Langtry, Tex.	*1931-36	....do.....	Do.
Do.....	La Nutria, 9.5 miles above Candelaria, Tex.	1935-36	....do.....	Do.
Do.....	Laredo, Tex.	*1926-36	Mexican section of International Boundary Commission.	Do.
Do.....	Leasburg Dam, at Selden, N. Mex.	1919-36	U. S. Bureau of Reclamation.	Unpublished.
Do.....	Matamoras, Tamaulipas, Mex.	†1926-36	Mexican section of International Boundary Commission.	Records for 1929-36 published in International Boundary Commission water bulletins.
Do.....	Percha Dam, near Arrey, N. Mex.	1922-36	U. S. Bureau of Reclamation.	Unpublished.
Do.....	Above Presidio, Tex.	*1926-36	U. S. section of International Boundary Commission.	Published in International Boundary Commission water bulletins.
Do.....	Below Presidio, Tex.	*1926-36	....do.....	Do.
Do.....	Rio Grande City, Tex.	1932-36	....do.....	Do.

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

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

Stream	Location	Period	Operated by	Remarks
Rio Grande	Roma, Tex.	*1925-28; 1931-36	....do.....	Records for 1925-28 published in Report of the American Section of the International Water Commission, United States and Mexico. Records for 1931-36 published in International Boundary Commission water bulletins.
Do.....	Tornillo Bridge, near Fabens, Tex.	*1931-36	....do.....	Published in International Boundary Commission Water Bulletins.
Do.....	Zapata, Tex.	1932-36	....do.....	Do.
Rio Salado	Near Guerrero, Tamaulipas, Mex.	*1923-36	Mexican section of International Boundary Commission.	Records for 1923-28 published in Report of the American Section of the International Water Commission, United States and Mexico. Records for 1929-36 published in International Boundary Commission water bulletins.
Rio San Diego	Jimenez, Coahuila, Mex.	1924-36	....do.....	Records for 1924-28 published in Report of the American Section of the International Water Commission, United States and Mexico. Records for 1932-36 published in International Boundary Commission water bulletins.
Rio San Juan	Santa Rosalia, Tamaulipas, Mex.	*1923-36	....do.....	Records for 1923-28 published in Report of the American Section of the International Water Commission, United States and Mexico (House Document No. 359, 71st Congress, 2d Session). Records for 1929-36 published in International Boundary Commission water bulletins.
Rio San Rodrigo	Near El Moral, Coahuila, Mex.	1922-36	....do.....	Records for 1923-24, 1927-28 published in Report of the American Sectiou of the International Water Commission, United States and Mexico (House Document No. 359, 71st Congress, 2d Session). Records for 1932-36 published in International Boundary Commission water bulletins.
San Felipe Creek	Near Del Rio, Tex.	1931-36	U. S. section of International Boundary Commission.	Published in International Boundary Commission water bulletins.
Sycamore Creek	Near Del Rio, Tex.	1932-36	....do.....	Do.
Terlingua Creek	Near Terlingua, Tex.	1932-36	....do.....	Do.
West Side Canal	Mesilla Dam, near Mesilla Park, N. Mex.	1916-18, 1920-36	U. S. Bureau of Reclamation.	Unpublished.

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

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 until February 29, 1936, C. S. Clark, chairman thereafter, A. H. Dunlap, and J. W. Pritchett.

Funds for the rehabilitation and operation of gaging stations in the Rio Grande Basin in Colorado and New Mexico were allocated by the Public Works Administration from funds made available by the National Industrial Recovery Act, in connection with the Rio Grande joint investigation sponsored by the National Resources Committee. Funds for the rehabilitation and operation of gaging stations on Indian pueblo lands in New Mexico were

also allocated by the Public Works Administration from the same source.

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 Conservancy District, and Tularosa Community Ditch; in Texas by the city of Corpus Christi, city of Houston, Dallas County, San Antonio Public Service Co., Tarrant County Water Control and Improvement District No. 1, 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 1936.

Extremes.- Maximum discharge during year, 5,090 second-feet May 12 (gage height, 23.36 feet); minimum, 9.8 second-feet Sept. 8 (gage height, 3.62 feet).
1932-36: Maximum discharge, 16,000 second-feet June 24, 1935 (gage height, 33.98 feet); minimum, 9.8 second-feet Aug. 26, 27, 1934, Sept. 8, 1936.
Maximum stage known, 39.4 feet January 1932.

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

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	121	1,080	929	401	412	445	205	1,290	577	43	37	18
2	126	1,310	1,170	412	445	423	195	1,180	555	100	32	15
3	386	1,450	1,400	412	467	401	180	830	500	104	28	13
4	445	1,470	1,560	401	511	401	169	665	489	91	24	13
5	324	1,290	1,490	390	544	478	163	555	434	87	20	12
6	201	885	1,760	379	522	522	156	445	311	166	19	11
7	142	665	3,510	368	500	544	149	324	223	529	19	11
8	114	709	4,130	368	478	577	146	313	174	753	18	10
9	100	687	4,100	390	456	599	146	1,290	144	863	20	10
10	97	599	3,780	390	434	665	149	3,530	126	973	22	10
11	99	1,070	3,430	390	401	731	151	4,660	114	852	22	11
12	108	1,750	3,150	379	379	731	149	5,060	103	544	21	12
13	114	1,940	3,000	368	368	555	148	4,950	93	324	21	13
14	117	2,060	3,030	346	368	412	140	4,670	86	223	21	12
15	114	2,110	3,090	335	357	324	132	4,360	77	195	19	12
16	161	2,130	3,120	335	346	284	128	4,070	69	171	18	12
17	225	3,180	2,940	324	324	249	123	3,840	63	144	16	11
18	245	1,810	2,300	324	313	221	118	3,680	60	118	16	12
19	247	1,290	1,400	324	304	201	114	3,490	56	95	15	12
20	201	808	797	324	298	182	109	2,840	54	78	15	12
21	165	500	577	324	295	169	108	1,720	50	63	15	12
22	172	379	522	324	293	158	112	746	46	57	15	13
23	290	306	511	324	291	154	119	390	42	56	14	13
24	295	265	489	313	291	424	124	324	39	60	13	14
25	304	240	467	311	291	379	134	295	36	74	27	13
26	335	240	434	302	300	412	142	276	33	82	20	14
27	691	335	412	293	368	478	137	280	27	77	18	16
28	1,760	412	401	287	423	368	173	335	28	78	16	15
29	1,460	533	401	291	456	267	328	368	28	73	18	15
30	1,330	687	401	335	-	234	804	379	28	62	20	15
31	1,220	-	390	368	-	216	-	478	-	48	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	11,709	1,760	97	378	23,220
November	32,190	3,180	240	1,073	63,850
December	55,091	4,130	390	1,777	109,300
Calendar year 1935	839,794	15,700	21	2,301	1,666,000
January	10,832	412	287	349	21,480
February	11,235	544	291	387	22,280
March	12,204	731	154	394	24,210
April	5,151	804	108	172	10,220
May	57,633	5,060	276	1,859	114,300
June	4,665	577	27	156	9,250
July	7,183	973	43	232	14,250
August	619	37	13	20.0	1,230
September	382	18	10	12.7	758
Water year 1935-36	208,894	5,060	10	571	414,300

Sabine River at Logansport, La.

Location.- Chain gage, lat. 31°58', long. 94°0', on Houston East & West Texas Railway bridge 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 1936.

Average discharge.- 13 years (1923-36), 2,917 second-feet.

Extremes.- Maximum discharge observed during year, 8,400 second-feet Dec. 14 (gage height, 21.70 feet); minimum discharge, 24 second-feet Sept. 29, 30.

1903-6, 1923-36: 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 May 1884.

Remarks.- Records good except those above 1,000 second-feet, which are poor. Small diversions above station. Gage-height record furnished by U. S. Weather Bureau.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	206	2,640	1,480	1,080	886	1,030	1,080	348	1,130	125	130	61
2	318	2,460	1,400	1,080	1,000	1,080	886	412	1,060	147	125	64
3	348	2,140	1,360	1,080	1,130	1,130	754	554	955	262	114	68
4	348	1,840	1,330	1,080	1,330	1,100	654	842	886	350	114	61
5	318	1,750	1,360	1,130	1,480	1,350	594	1,080	842	503	104	54
6	276	1,750	1,620	1,100	1,540	1,870	554	1,060	776	518	104	54
7	234	1,720	3,820	1,100	1,600	2,280	518	930	714	734	94	54
8	290	1,720	5,720	1,200	1,540	2,380	518	820	674	1,060	80	48
9	364	1,600	6,680	1,480	1,480	2,420	500	734	634	1,540	76	48
10	380	1,380	7,140	1,430	1,430	2,320	482	674	574	1,600	76	42
11	318	1,480	7,400	1,280	1,300	2,020	482	931	464	1,480	68	40
12	290	2,420	7,720	1,130	1,230	1,720	446	2,500	396	1,430	68	37
13	234	3,200	8,190	1,060	1,180	1,490	446	3,680	348	1,400	61	37
14	220	3,600	8,400	1,030	1,100	1,380	446	4,270	318	1,600	61	37
15	220	3,920	8,190	980	1,060	1,330	446	4,580	290	1,330	58	37
16	206	4,040	7,720	980	1,030	1,260	428	4,730	276	1,030	54	37
17	206	3,800	6,750	930	1,000	1,130	412	4,830	248	820	54	37
18	206	3,280	5,500	908	980	1,030	380	4,830	234	574	48	32
19	194	2,800	4,500	908	930	930	364	4,830	220	482	48	32
20	194	2,490	3,920	886	886	842	348	4,730	206	412	48	32
21	194	2,210	3,440	886	842	798	332	4,540	182	364	54	32
22	262	1,900	2,840	864	820	734	318	4,320	170	304	48	28
23	412	1,540	2,140	842	798	634	304	3,920	158	262	48	28
24	396	1,230	1,660	886	776	574	290	3,320	147	262	48	28
25	428	1,000	1,480	886	776	634	318	2,280	136	234	48	28
26	694	930	1,400	842	754	654	318	1,570	125	194	48	28
27	1,100	980	1,280	842	776	714	332	1,330	125	170	48	28
28	1,230	1,380	1,200	842	842	1,030	332	1,060	120	158	48	28
29	1,330	1,540	1,160	798	930	1,280	332	1,000	114	158	42	24
30	1,990	1,540	1,130	820	-	1,330	348	1,080	114	158	42	24
31	2,560	-	1,100	820	-	1,260	-	1,130	-	147	48	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	15,966	2,560	194	515	31,670
November	64,280	4,040	930	2,143	127,500
December	119,030	8,400	1,100	3,840	236,100
Calendar year 1935	1,437,078	36,000	139	3,937	2,850,000
January	31,180	1,480	798	1,006	61,840
February	31,426	1,600	754	1,084	62,330
March	39,724	2,420	574	1,281	78,790
April	13,962	1,080	290	465	27,690
May	72,915	4,830	348	2,352	144,600
June	12,636	1,130	114	421	25,060
July	19,808	1,600	125	639	38,290
August	2,107	130	42	68.0	4,180
September	1,188	68	24	39.6	2,360
Water year 1935-36	424,222	8,400	24	1,159	841,400

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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 1936.

Average discharge.- 12 years, 7,636 second-feet.

Extremes.- Maximum discharge observed during year, 31,600 second-feet Dec. 13 (gage height 13.10 feet); minimum discharge, 577 second-feet Sept. 24-30; minimum gage height, 1.98 feet Sept. 25, 29, 30.

1924-36: Maximum discharge observed, 76,600 second-feet May 24, 25, 1935 (gage height, 16.10 feet); minimum, 362 second-feet Nov. 15-17, 1932.

Higher stages have occurred in the past.

Remarks.- Records good except those below 1,000 second-feet, which are fair. Daily discharge during periods of material change in stage determined from graph drawn on basis of twice-daily gage readings. No diversions of consequence above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,880	2,080	4,860	4,620	2,970	3,630	2,010	1,450	10,600	636	1,090	1,140
2	2,300	2,220	4,400	4,620	3,150	3,430	1,940	1,500	9,130	667	1,000	1,000
3	1,810	2,300	3,740	4,740	3,740	3,150	2,080	1,390	6,700	840	960	918
4	1,450	2,370	3,330	4,740	4,960	2,880	2,220	1,290	4,740	2,730	878	804
5	1,240	2,790	3,150	4,620	6,220	2,790	2,300	1,190	3,430	4,980	840	734
6	1,140	3,150	3,060	4,400	7,530	2,790	2,220	1,140	2,700	6,380	840	734
7	1,000	3,330	3,150	4,180	9,130	2,970	2,010	1,050	2,370	7,530	840	700
8	960	3,330	5,620	4,740	10,200	3,430	1,940	1,050	2,080	8,280	804	667
9	960	3,240	9,790	5,480	9,790	3,630	1,810	1,050	1,940	8,020	804	667
10	960	3,060	19,700	6,060	9,790	3,740	1,810	1,140	1,750	7,530	734	667
11	960	2,880	26,000	6,060	9,450	3,740	1,810	1,340	1,620	6,700	667	667
12	960	4,070	30,400	5,760	8,550	3,850	1,880	1,450	1,560	5,620	667	700
13	960	6,060	31,600	5,350	7,530	4,070	1,810	1,500	1,450	5,100	636	804
14	918	7,080	30,400	4,860	6,380	4,180	1,750	1,560	1,340	4,860	636	804
15	918	6,880	29,300	4,510	5,620	4,290	1,620	1,560	1,290	4,740	667	734
16	918	6,540	28,200	4,180	4,980	4,400	1,500	1,560	1,240	4,980	667	667
17	960	5,910	26,000	3,850	4,510	4,510	1,450	2,080	1,140	4,980	667	700
18	960	5,350	22,800	3,630	4,180	4,740	1,390	2,970	1,050	4,740	667	734
19	1,140	5,100	19,700	3,430	3,850	4,510	1,340	3,630	960	4,290	667	700
20	1,510	4,980	16,800	3,240	3,530	3,960	1,390	4,180	878	3,740	667	700
21	2,010	4,980	15,000	3,240	3,330	3,430	1,390	4,510	840	3,240	606	636
22	1,750	4,980	12,800	3,150	3,150	2,970	1,340	4,740	804	2,700	606	636
23	1,390	4,740	11,500	3,060	3,060	2,790	1,240	4,960	804	2,530	606	606
24	1,190	4,290	10,600	2,970	2,970	2,530	1,240	5,100	769	2,370	606	577
25	1,090	3,850	9,450	2,880	2,880	2,370	1,190	5,350	734	2,300	636	577
26	1,050	3,630	8,280	2,700	2,790	2,300	1,190	5,620	700	2,530	804	577
27	960	3,240	7,080	2,620	3,060	2,220	1,140	6,380	667	2,370	1,240	577
28	918	2,970	6,380	2,530	3,430	2,150	1,190	8,020	667	2,080	1,450	577
29	1,000	3,530	5,480	2,530	3,630	2,080	1,290	9,450	700	1,810	1,340	577
30	1,560	4,510	4,860	2,620	-	2,080	1,390	10,600	667	1,500	1,240	577
31	2,080	-	4,620	2,700	-	2,010	-	10,600	-	1,290	1,290	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	40,202	2,880	918	1,297	79,740
November	123,440	7,080	2,080	4,115	244,800
December	418,050	31,600	3,060	13,490	829,200
Calendar year 1935	3,906,172	75,000	918	10,700	7,748,000
January	124,070	6,060	2,530	4,002	246,100
February	154,380	10,200	2,790	5,323	306,200
March	101,620	4,740	2,010	3,278	201,600
April	48,880	2,300	1,140	1,629	96,950
May	109,430	10,600	1,050	3,530	217,100
June	65,320	10,600	667	2,177	129,600
July	122,063	8,280	636	3,938	242,100
August	25,822	1,450	606	833	51,220
September	21,158	1,140	577	705	41,970
Water year 1935-36	1,354,435	31,600	577	3,701	2,687,000

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 1936.

Average discharge.- 13 years, 2,427 second-feet.

Extremes.- Maximum discharge during year, 11,400 second-feet July 5 (gage height, 19.7 feet, from graph based on gage readings); minimum, 53 second-feet Sept. 30.
1923-36: Maximum discharge observed, 48,500 second-feet May 22, 1935 (gage height, 28.90 feet); minimum, 3.0 second-feet Oct. 15, 1931.

Remarks.- Records good. Daily discharge determined from graph drawn on basis of twice-daily gage readings. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	128	378	1,190	3,720	879	1,040	764	840	5,770	298	336	378
2	119	407	1,110	3,600	879	996	764	802	5,370	1,570	323	336
3	119	470	1,070	3,430	957	1,040	764	764	4,690	4,090	310	323
4	128	504	1,040	3,260	1,070	1,110	726	688	4,100	8,460	298	306
5	145	576	996	2,940	1,150	1,310	688	650	3,780	11,000	323	232
6	182	576	1,240	2,730	1,350	1,270	688	650	2,890	10,800	286	172
7	211	613	6,390	2,490	2,030	1,230	688	650	2,490	9,250	264	136
8	211	613	9,710	2,210	2,260	1,190	688	688	2,160	7,870	242	155
9	191	650	9,780	1,980	2,160	1,190	688	688	1,850	5,500	211	214
10	191	764	9,130	1,810	2,030	1,230	688	802	1,640	4,290	191	136
11	182	1,010	8,010	1,720	1,960	1,230	726	918	1,510	1,980	172	109
12	182	1,390	7,030	1,650	1,640	1,310	613	918	1,420	1,590	154	92
13	163	1,310	5,980	1,590	1,420	1,350	576	879	1,340	1,510	145	81
14	145	1,190	5,500	1,350	1,270	1,420	576	879	1,270	1,510	145	78
15	136	1,110	5,370	1,270	1,150	1,550	540	879	1,230	1,510	136	75
16	128	1,070	5,230	1,230	1,150	1,550	504	918	1,150	1,760	128	81
17	119	1,070	5,160	1,110	1,150	1,550	504	996	996	1,810	108	71
18	119	1,040	4,960	1,070	1,190	1,510	504	1,070	840	1,900	100	73
19	128	1,040	4,750	1,070	1,190	1,420	438	1,110	613	1,720	92	87
20	128	1,040	4,420	1,070	1,190	1,350	438	1,190	504	1,390	92	94
21	145	1,110	4,290	1,040	1,150	1,270	438	1,270	438	1,150	88	82
22	154	1,110	4,100	1,040	1,110	1,190	540	1,310	350	957	87	77
23	154	1,190	4,030	996	1,070	1,110	576	1,470	323	879	87	70
24	145	1,190	3,900	957	1,040	1,110	576	1,550	286	879	114	73
25	136	1,190	3,720	957	996	1,040	576	1,980	264	764	246	73
26	128	1,190	3,430	957	957	957	576	2,670	264	970	613	73
27	128	2,040	3,660	957	996	918	576	3,820	286	1,020	802	65
28	155	2,300	3,600	918	1,040	840	613	4,960	286	802	650	64
29	253	1,760	3,600	918	1,040	802	764	6,050	232	540	504	57
30	336	1,510	3,550	918	-	764	918	6,330	232	438	407	53
31	350	-	3,660	879	-	726	-	6,330	-	378	378	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,169	350	119	167	10,250
November	31,411	2,300	378	1,047	62,300
December	139,586	9,760	996	4,503	276,900
Calendar year 1935	1,389,723	47,900	100	3,807	2,757,000
January	51,867	3,720	879	1,673	102,900
February	37,474	2,260	879	1,292	74,330
March	36,573	1,550	726	1,180	72,540
April	18,718	918	438	624	37,130
May	54,719	6,330	650	1,765	108,500
June	48,574	5,770	232	1,619	96,350
July	88,585	11,000	298	2,858	175,700
August	8,032	802	87	259	15,930
September	3,916	378	53	131	7,770
Water year 1935-36	524,624	11,000	53	1,433	1,041,000

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 8.3 feet (revised) above mean sea level (general adjustment of 1929).

Drainage area.- 7,908 square miles.

Records available.- July 1904 to December 1906, October 1923 to September 1936.

Average discharge.- 13 years (1923-36), 6,338 second-feet.

Extremes.- Maximum discharge observed during year, 21,900 second-feet Dec. 14, 15 (gage height, 16.30 feet); minimum, 397 second-feet Sept. 30.

1904-6, 1923-36: Maximum discharge, 83,800 second-feet June 1, 1929 (gage height, 22.20 feet, at crest); minimum, about 148 second-feet Sept. 10, 1925.

Maximum stage known, 26.2 feet in 1884, from records of Gulf, Colorado & Santa Fe Railway Co. (discharge, about 175,000 second-feet, from rating curve extended above 72,000 second-feet).

Remarks.- Records good. Daily discharge during periods of material change in stage determined from graphs drawn on basis of twice daily gage readings. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	740	914	6,360	8,820	2,900	3,190	2,250	1,740	11,800	686	1,530	2,510
2	659	945	5,520	8,390	3,060	3,120	2,160	1,830	11,400	825	1,340	1,920
3	607	1,010	4,710	8,000	3,460	3,060	2,110	1,970	10,800	1,870	1,150	1,530
4	558	1,040	4,130	7,650	4,130	3,010	2,060	1,970	9,750	4,600	1,080	1,260
5	535	1,080	3,530	7,200	4,460	3,010	2,010	1,920	8,820	7,050	1,010	1,040
6	513	1,150	4,080	6,900	4,800	3,060	2,010	1,830	7,650	8,390	945	945
7	513	1,190	5,160	6,760	4,900	3,320	1,970	1,650	6,620	10,000	914	855
8	513	1,300	8,220	6,760	5,410	3,530	1,970	1,570	5,870	11,800	884	797
9	513	1,380	12,800	6,760	6,110	3,600	1,970	1,500	5,190	13,500	826	713
10	513	1,460	15,500	6,620	6,620	3,460	2,010	1,500	4,620	15,100	797	633
11	558	1,680	17,600	6,230	6,620	3,390	2,010	1,570	4,130	15,500	740	607
12	582	2,400	19,300	5,630	6,360	3,390	2,010	1,650	3,730	15,100	686	633
13	607	3,530	20,500	5,300	5,750	3,390	1,970	1,870	3,320	13,100	659	633
14	507	4,050	21,200	4,990	5,300	3,460	1,870	1,920	3,010	9,290	607	582
15	582	3,960	21,200	4,800	4,800	3,600	1,830	1,870	2,780	6,490	582	558
16	558	3,660	19,900	4.540	4,370	3,800	1,740	1,740	2,510	5,410	558	535
17	535	3,460	19,300	4,290	4,050	4,210	1,650	1,700	2,250	4,990	558	513
18	513	3,320	17,600	3,880	3,730	4,460	1,610	1,740	2,110	4,710	558	492
19	492	3,120	15,500	3,660	3,660	4,460	1,530	1,920	1,920	4,540	513	492
20	492	3,010	14,200	3,530	3,530	4,460	1,500	2,110	1,740	4,290	492	471
21	513	2,900	13,500	3,390	3,530	4,290	1,420	2,200	1,530	4,050	471	432
22	513	2,840	12,800	3,320	3,460	4,130	1,530	2,250	1,340	3,530	471	432
23	492	2,840	12,100	3,190	3,390	3,960	1,570	2,350	1,190	3,120	432	414
24	471	2,780	11,400	3,120	3,320	3,660	1,570	2,560	1,040	3,010	451	414
25	471	2,900	10,800	3,060	3,190	3,390	1,530	3,330	914	3,320	471	432
26	492	3,010	10,800	3,060	3,120	3,120	1,500	4,620	855	3,320	513	432
27	513	3,120	10,600	2,950	3,120	2,900	1,460	5,300	797	2,840	582	414
28	513	3,600	10,600	2,950	3,120	2,730	1,530	6,640	740	2,460	747	414
29	582	5,210	10,000	2,900	3,190	2,620	1,530	8,600	713	2,250	2,080	414
30	768	9,270	9,510	2,840	-	2,460	1,570	10,000	686	2,110	2,900	397
31	855	-	9,270	2,780	-	2,350	-	11,200	-	1,830	3,060	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	17,373	855	471	560	34,460
November	82,129	9,270	914	2,738	162,900
December	377,690	21,200	3,530	12,180	749,100
Calendar year 1935	3,261,341	64,100	471	8,935	6,468,000
January	154,270	8,820	2,780	4,976	306,000
February	123,460	6,620	2,900	4,257	244,900
March	106,590	4,460	2,350	3,438	211,400
April	53,450	2,250	1,420	1,782	106,000
May	94,620	11,200	1,500	3,052	187,700
June	119,825	11,500	686	3,994	237,700
July	189,082	15,500	686	6,099	375,000
August	28,607	3,060	432	923	56,740
September	21,914	2,510	397	730	43,470
Water year 1935-36	1,369,010	21,200	397	3,740	2,715,000

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. Zero of gage is 68.4 feet above mean sea level (general adjustment of 1929).

Drainage area.- 3,435 square miles.

Records available.- March 1928 to September 1936.

Extremes.- Maximum discharge during year, 11,600 second-feet Dec. 9 (gage height, 22.20 feet, from graph based on gage readings); minimum, 62 second-feet Sept. 29, 30.
1928-36: 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 discharge known, about 82,000 second-feet August 1914 (gage height, 39.5 feet), from rating curve extended above 47,000 second-feet.

Remarks.- Records fair. Discharge Aug. 15-24 computed on basis of fragmentary gage-height record and knowledge of local conditions. Discharge during periods of material change in stage determined from graph based on twice-daily gage readings. There is a possibility of backwater at times from Neches River. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	161	388	1,620	2,120	1,130	1,220	748	580	2,220	126	230	334
2	147	347	1,730	1,920	1,180	1,220	748	664	1,920	1,320	213	267
3	133	309	1,580	1,870	1,310	1,180	748	664	1,760	1,970	190	175
4	94	334	1,400	1,730	1,580	1,180	748	622	1,400	5,020	161	161
5	112	334	1,220	1,630	1,760	1,540	790	580	1,220	7,170	154	161
6	147	360	1,380	1,730	2,530	1,680	832	388	1,090	7,110	154	154
7	161	388	7,570	1,870	3,070	1,540	748	309	1,040	6,800	154	147
8	175	456	10,500	2,120	3,230	1,490	790	298	1,090	5,830	154	147
9	161	622	11,200	2,020	2,740	1,480	746	309	958	4,580	154	147
10	147	790	10,200	1,920	2,420	1,440	748	374	874	3,280	140	147
11	133	1,000	9,150	1,870	2,070	1,490	706	388	790	2,420	133	140
12	133	1,040	7,740	1,820	1,970	1,490	706	388	664	1,820	133	133
13	140	1,090	6,800	1,780	1,730	1,680	746	706	622	1,580	147	119
14	140	1,160	6,480	1,730	1,630	1,920	748	746	456	1,400	140	119
15	133	1,310	6,310	1,630	1,580	2,270	622	748	309	1,440	112	119
16	126	1,350	6,190	1,490	1,540	2,270	538	706	267	1,580	98	105
17	126	1,260	6,070	1,440	1,540	2,220	496	790	230	1,630	98	98
18	126	1,220	5,950	1,350	1,490	2,120	438	748	213	1,350	95	95
19	147	1,160	5,710	1,220	1,440	2,070	560	748	197	1,090	94	86
20	147	1,220	5,530	1,260	1,400	1,970	622	706	154	874	92	85
21	133	1,260	5,350	1,260	1,350	1,820	580	748	147	664	90	82
22	119	1,220	5,290	1,260	1,260	1,730	476	1,000	140	580	89	78
23	133	1,220	5,290	1,260	1,180	1,260	420	1,130	133	538	88	72
24	147	1,350	5,230	1,260	1,180	1,130	404	1,220	133	496	89	70
25	154	1,440	5,230	1,220	1,130	1,040	388	1,350	119	456	140	70
26	154	1,730	4,930	1,180	1,090	956	388	1,820	112	420	1,330	67
27	168	2,580	4,640	1,180	1,130	916	388	2,740	98	420	2,370	67
28	205	2,270	4,060	1,090	1,180	874	476	4,290	97	374	2,470	65
29	239	2,070	3,500	1,090	1,220	653	496	5,290	94	309	1,730	64
30	258	1,920	2,960	1,090	-	832	538	4,640	90	287	958	62
31	309	-	2,530	1,130	-	790	-	3,280	-	258	517	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,808	309	94	155	9,540
November	33,238	2,580	309	1,108	65,930
December	163,540	11,200	1,220	5,275	324,400
Calendar year 1935	1,352,532	28,700	94	3,706	2,683,000
January	47,540	2,120	1,090	1,534	94,290
February	48,080	3,230	1,090	1,658	95,370
March	45,673	2,270	790	1,473	90,590
April	18,406	832	388	614	36,510
May	38,972	5,290	298	1,257	77,300
June	18,657	2,220	90	622	37,010
July	63,192	7,170	126	2,038	125,300
August	12,717	2,470	88	410	25,220
September	3,638	334	62	121	7,220
Water year 1935-36	498,461	11,200	62	1,362	988,700

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 1936.

Average discharge.- 16 years, 402 second-feet.

Extremes.- Maximum discharge during year, 11,400 second-feet Sept. 27 (gage height, 12.50 feet); no flow at times.
1920-36: Maximum discharge, by slope-area method, 85,000 second-feet Apr. 25, 1922, data furnished by City Engineer of Fort Worth (gage height, 23.95 feet); no flow at times.

Remarks.- Records good. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	450	18	20	27	53	12	3.8	16	2,220	7.0	6.9	0
2	501	18	20	27	64	16	2.1	14	2,220	69	3.8	0
3	546	14	22	29	50	15	2.9	14	2,220	440	1.1	0
4	328	9.2	23	25	91	15	4.8	12	2,040	663	.1	0
5	144	15	44	22	31	14	4.8	8.0	1,470	453	0	0
6	67	22	106	22	23	15	2.9	4.8	1,280	286	0	0
7	29	110	674	22	22	20	2.9	3.8	1,230	124	0	0
8	16	69	727	22	37	29	5.8	148	1,260	58	0	0
9	12	23	1,020	20	27	23	9.2	603	1,240	31	0	0
10	15	16	1,130	16	15	30	20	161	709	16	0	0
11	18	23	1,160	16	12	136	10	131	288	10	0	28
12	2.9	20	802	18	14	56	8.0	727	120	6.9	0	101
13	6.9	16	314	16	12	35	8.0	1,070	64	5.8	25	37
14	1.1	12	216	37	16	25	8.0	1,140	33	2.1	92	16
15	.9	12	117	270	16	23	8.0	1,130	27	1.5	29	41
16	.9	12	53	501	9.2	40	8.0	1,150	23	1.1	14	61
17	.9	12	48	607	9.2	28	8.0	1,070	16	.7	6.9	349
18	.9	12	44	634	8.0	14	8.0	1,090	10	.3	2.9	214
19	.7	12	39	607	8.0	22	8.0	1,090	6.9	.1	.5	71
20	.5	10	37	566	8.0	22	8.0	788	5.8	.1	.1	22
21	.5	10	37	634	8.0	9.2	12	295	4.8	11	0	15
22	.9	10	44	677	9.2	10	99	144	4.8	.9	0	9.2
23	67	15	44	648	10	12	207	128	2.9	.1	0	4.8
24	72	20	39	648	10	9.2	106	128	2.1	.1	.1	4.8
25	33	22	31	656	10	9.2	48	113	2.9	5.2	.1	26
26	18	33	27	648	16	10	27	329	2.1	124	0	556
27	133	23	23	613	12	10	16	856	1.5	304	0	7,770
28	95	18	25	387	9.2	6.9	56	2,550	1.5	206	0	6,090
29	46	23	27	202	10	6.9	27	2,580	1.5	80	0	1,680
30	20	20	27	177	-	6.9	22	2,340	1.1	35	0	1,360
31	18	-	27	78	-	5.8	-	2,220	-	14	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,645.1	546	0.5	85.3	5,250
November	649.2	110	9.2	21.6	1,290
December	6,967	1,160	20	225	13,820
Calendar year 1935	153,467.3	12,400	.1	420	304,400
January	8,872	677	16	286	17,600
February	619.8	91	8.0	21.4	1,230
March	686.1	136	5.8	22.1	1,360
April	761.2	207	2.1	25.4	1,510
May	22,053.6	2,580	3.8	711	43,740
June	16,507.9	2,220	1.1	550	32,740
July	2,955.9	663	.1	95.4	5,860
August	182.5	92	0	5.89	362
September	18,455.5	7,770	0	615	36,610
Water year 1935-36	81,356.1	7,770	0	222	161,400

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 1936.

Average discharge.- 11 years, 478 second-feet.

Extremes.- Maximum discharge during year, 7,820 second-feet Sept. 28 (gage height, 23.83 feet); minimum, 16 second-feet some time during period Aug. 23 to Sept. 11.
1925-36: 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 except those for Apr. 24 to May 24, Aug. 23 to Sept. 11, Sept. 29-31, which were computed on basis of hydrographic comparison with stations at Fort Worth, Trinity River at Dallas, Elm Fork of Trinity River at Fort Worth, weather records, and known range in stage and are fair. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	297	48	45	55	129	42	26		2,190	23	42	19
2	400	41	42	55	98	39	26		2,160	26	30	19
3	438	41	37	54	96	41	26		2,190	34	26	18
4	478	38	38	56	84	46	24		2,130	354	22	18
5	302	32	41	61	123	41	25	30	1,800	652	21	18
6	164	44	100	49	73	40	26		1,360	528	21	18
7	104	78	414	48	59	38	25		1,230	302	21	18
8	67	107	738	49	54	40	24		1,200	150	21	18
9	49	124	818	53	53	60	26		1,230	91	21	18
10	44	70	1,170	53	71	52	27	370	1,120	59	20	17
11	45	49	1,280	50	50	42	31		542	43	18	17
12	46	54	1,280	49	47	103	41		265	36	19	17
13	41	55	766	49	47	102	35		172	31	20	75
14	35	42	326	47	47	64	27		121	25	69	71
15	30	40	234	49	48	52	26		80	24	68	43
16	29	36	163	256	52	48	27	1,110	60	24	37	58
17	28	35	112	457	48	42	26		58	22	28	96
18	28	32	85	563	42	60	28		52	21	23	358
19	26	30	87	632	42	36	28		43	21	23	223
20	26	32	74	574	43	29	28		38	21	21	112
21	25	32	73	541	44	35	29		34	19	21	55
22	24	31	78	574	42	35	32	250	32	28	20	34
23	29	31	80	609	44	31	35		29	36	20	32
24	185	31	75	586	45	29			29	26	20	27
25	132	35	70	586	44	32		179	29	22	20	26
26	82	38	63	586	46	29	90	142	28	21	20	824
27	126	67	61	586	59	29		1,400	24	76	19	6,560
28	288	71	59	541	53	29		2,280	25	292	19	6,840
29	147	45	55	326	46	29		4,850	25	221	19	2,780
30	94	41	53	211	-	27		2,920	22	121	19	2,280
31	63	-	53	192	-	25		2,280	-	63	19	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,872	478	24	125	7,680
November	1,450	124	30	48.3	2,880
December	8,570	1,280	37	276	17,000
Calendar year 1935	200,905	11,500	21	550	398,500
January	8,597	632	47	277	17,050
February	1,729	129	42	59.6	3,430
March	1,347	103	25	43.5	2,670
April	1,278	-	24	42.6	2,530
May	26,731	4,850	-	862	53,020
June	18,318	2,190	22	611	36,330
July	3,412	652	19	110	6,770
August	787	69	18	25.4	1,560
September	20,709	6,840	17	690	41,080
Water year 1935-36	96,800	6,840	17	264	192,000

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.

Records available.- July 1903 to December 1906, October 1920 to July 1930, October 1932 to September 1936; 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.- 16 years (1920-36), 1,345 second-feet.

Extremes.- Maximum discharge during year, 25,900 second-feet Sept. 28 (gage height, 35.15 feet); minimum, 22 second-feet Sept. 2.

1898-99, 1903-6, 1920-35: Maximum discharge, 76,700 second-feet May 20, 1935 (gage height, 42.10 feet); minimum, 6.8 second-feet Sept. 11, 1924.

Maximum stage known, 52.6 feet May 26, 1908, from records of U. S. Weather Bureau (discharge, about 184,000 second-feet, from rating curve extended above 76,000 second-feet); practically no flow at times in 1917 and 1918.

Remarks.- Records good. Daily discharge for Oct. 5-8, Mar. 22 to Apr. 17, Apr. 21-24 determined from graph drawn on basis of once-daily gage readings furnished by U. S. Weather Bureau. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	570	297	264	690	435	138	102	118	2,370	76	89	25
2	630	272	242	660	372	142	90	106	2,180	89	76	37
3	708	216	234	660	398	130	88	113	2,180	87	76	48
4	742	204	228	813	410	134	90	288	2,180	280	62	47
5	630	192	234	970	410	130	94	209	2,060	712	62	44
6	372	1,100	837	970	360	130	90	104	1,720	712	62	44
7	264	3,600	5,260	935	306	126	86	84	1,410	619	65	56
8	228	3,600	7,520	935	297	138	84	99	1,320	264	65	48
9	210	1,970	8,590	935	297	146	92	472	1,320	186	64	47
10	210	608	6,620	574	297	176	89	1,820	1,280	141	63	42
11	760	264	3,650	410	297	198	90	3,110	758	128	62	42
12	599	297	3,070	410	279	177	91	2,410	385	118	60	45
13	208	279	2,770	410	279	228	94	1,230	242	88	57	60
14	171	256	2,220	398	288	166	88	1,320	204	64	57	125
15	161	234	2,040	398	288	142	72	1,410	150	71	64	100
16	151	222	1,950	527	279	138	69	1,360	102	68	105	127
17	142	222	1,820	812	279	130	73	1,320	107	68	84	157
18	134	241	1,770	848	264	134	73	1,280	80	66	56	313
19	130	234	1,770	882	264	134	74	1,280	74	60	35	372
20	118	216	1,720	900	256	118	77	1,280	54	72	41	210
21	122	188	1,720	830	264	110	78	988	60	222	51	151
22	132	103	1,720	865	227	126	80	502	62	176	50	104
23	228	90	1,720	900	204	122	86	327	48	142	54	95
24	558	84	1,720	900	210	118	208	476	44	112	56	118
25	519	83	1,680	882	210	166	192	708	44	88	50	124
26	261	142	1,680	882	216	154	142	525	62	82	42	206
27	618	419	1,640	865	176	122	122	2,790	68	82	34	4,440
28	2,220	708	1,640	848	161	122	108	4,500	69	224	30	22,800
29	1,080	468	1,590	690	146	130	131	8,720	74	256	26	21,900
30	499	306	1,640	510	-	126	134	7,030	62	166	28	19,600
31	297	-	1,260	472	-	113	-	3,270	-	119	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	13,572	2,220	118	441	27,120
November	17,115	3,600	83	570	33,950
December	70,819	8,590	228	2,284	140,600
Calendar year 1935	806,138	73,100	16	2,209	1,599,000
January	22,781	970	398	735	45,190
February	8,169	435	146	282	16,200
March	4,364	228	110	141	8,660
April	2,987	208	69	99.6	5,920
May	49,249	8,720	84	1,589	97,680
June	20,769	2,370	44	692	41,190
July	5,638	712	60	182	11,180
August	1,756	105	26	56.6	3,480
September	71,527	22,800	25	2,384	141,900
Water year 1935-36	288,846	22,800	25	789	573,000

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 (general adjustment of 1929).

Drainage area.- 12,840 square miles.

Records available.- July 1932 to September 1936, October 1923 to July 1932 at site 1½ miles downstream.

Average discharge.- 13 years, 4,354 second-feet.

Extremes.- Maximum discharge during year, 21,500 second-feet Dec. 12 (gage height, 39.93 feet, from graph drawn on basis of gage readings); minimum, 58 second-feet Sept. 11.

1923-36: 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. Daily discharge for Dec. 6-15 determined from graph drawn on basis of once daily gage readings furnished by U. S. Weather Bureau. No diversions above station, except for municipal uses. Flow partly regulated by reservoirs above Dallas.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,200	5,180	2,480	2,060	1,280	750	382	1,600	11,500	498	186	106
2	1,740	3,420	2,230	2,030	1,200	794	330	1,200	12,200	3,000	242	99
3	1,360	2,180	1,770	1,970	1,100	772	304	932	12,900	5,650	298	92
4	1,150	1,710	1,460	1,690	1,030	1,260	285	980	12,800	8,200	260	86
5	980	1,570	1,310	1,410	980	1,090	278	1,050	10,100	7,580	218	85
6	838	1,490	5,840	1,310	956	838	260	908	5,760	5,600	182	82
7	838	1,520	12,700	1,280	980	794	242	860	3,500	4,300	165	81
8	860	1,550	14,600	1,390	1,000	772	230	816	2,860	4,000	153	84
9	794	1,660	17,000	1,460	980	750	236	6,200	2,420	2,750	149	73
10	662	2,700	19,400	1,490	908	706	248	12,000	2,150	1,870	130	61
11	574	4,470	21,300	1,520	838	618	254	13,700	1,920	1,320	106	66
12	574	4,660	21,300	1,490	794	574	254	13,700	1,710	1,720	96	89
13	640	3,590	20,400	1,410	772	574	248	13,600	1,630	1,860	92	92
14	520	2,630	18,500	1,200	750	552	248	12,200	1,490	1,200	113	99
15	798	2,320	15,400	1,030	728	552	236	10,300	1,180	796	116	102
16	1,130	2,230	11,900	980	706	574	218	7,180	874	552	116	110
17	884	2,200	8,580	956	706	530	230	4,280	662	422	116	110
18	640	2,150	6,340	932	706	520	260	2,860	506	318	113	106
19	450	1,970	5,120	908	706	460	298	2,350	390	272	110	125
20	324	1,710	4,190	1,000	684	406	304	2,060	337	254	106	169
21	278	1,410	3,400	1,200	684	390	272	1,890	285	224	106	212
22	285	1,150	2,930	1,280	662	382	292	1,770	285	213	127	311
23	368	980	2,630	1,280	640	366	260	1,770	272	274	134	430
24	2,000	838	2,420	1,280	618	358	254	1,710	224	435	124	406
25	3,720	750	2,290	1,280	618	337	242	1,570	182	1,100	113	344
26	4,060	662	2,260	1,280	596	371	242	1,780	178	1,410	102	298
27	4,690	706	2,260	1,310	640	574	236	2,440	178	1,060	99	254
28	5,260	954	2,230	1,310	640	541	254	3,390	178	673	106	651
29	6,790	2,340	2,200	1,310	684	440	478	6,150	165	480	110	5,580
30	7,090	2,700	2,150	1,330	-	440	1,070	8,700	157	344	113	9,570
31	6,650	-	2,120	1,310	-	430	-	10,400	-	242	113	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	59,147	7,090	278	1,908	117,300
November	63,400	5,180	662	2,113	125,800
December	238,710	21,300	1,310	7,700	473,500
Calendar year 1935	2,425,620	48,400	208	6,646	4,811,000
January	41,686	2,060	908	1,345	82,680
February	23,586	1,280	596	813	46,780
March	18,515	1,260	337	597	36,720
April	8,945	1,070	218	298	17,740
May	150,346	13,700	816	4,850	298,200
June	88,993	12,900	157	2,966	176,500
July	58,617	8,200	213	1,891	116,300
August	4,314	298	92	139	8,560
September	19,973	9,570	61	666	39,620
Water year 1935-36	776,232	21,300	61	2,121	1,540,000

Trinity River at Riverside, Tex.

Location.- Chain 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 Apr. 8, 1936, wire-weight gage, at same site and datum.

Drainage area.- 15,510 square miles.

Records available.- January 1903 to December 1906, October 1923 to September 1936.

Average discharge.- 13 years (1923-36), 6,399 second-feet.

Extremes.- Maximum discharge observed during year, 35,300 second-feet Dec. 9 (gage height, 30.2 feet); minimum not determined.

1903-6, 1923-36: 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, Sept. 29 to Oct. 4, 1931.

Maximum discharge known, 86,600 second-feet June 11, 1908 (gage height, 49.7 feet, present datum), from rating curve extended above 78,000 second-feet.

Remarks.- Records good. Daily discharge determined from graph based on once-daily gage readings furnished by U. S. Weather Bureau. No diversions except for municipal uses. Flow partly regulated by reservoirs above Dallas.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,600	8,000	3,070	3,790	1,880	1,640	1,000	710	13,800	802	620	160
2	2,760	7,800	3,150	4,540	1,880	1,420	900	14,100	14,100	5,980	530	160
3	2,620	6,240	3,070	3,790	1,880	1,420	800	1,200	13,800	3,350	470	172
4	2,270	4,980	2,840	3,470	2,000	1,700	755	1,760	14,100	7,630	410	172
5	1,880	4,200	2,760	3,390	2,270	2,070	665	1,420	14,500	14,200	370	172
6	1,580	3,390	2,070	3,470	2,840	2,690	710	1,310	16,500	15,100	430	160
7	1,310	2,620	5,220	5,150	3,230	2,840	620	1,310	16,000	13,500	450	149
8	1,150	2,140	30,700	2,200	3,150	2,550	620	1,310	11,000	11,500	410	149
9	1,100	2,000	34,700	2,000	2,340	2,140	620	1,420	7,000	10,800	352	149
10	1,000	2,070	31,200	2,000	1,880	2,140	552	3,150	5,430	7,900	335	149
11	1,000	2,410	27,400	2,000	1,760	2,140	510	6,230	3,390	5,700	300	149
12	950	3,680	25,300	2,140	1,640	1,880	530	12,000	2,990	4,040	253	160
13	900	5,520	24,500	2,270	1,530	1,420	530	15,900	2,760	3,150	284	172
14	850	5,520	24,000	2,270	1,420	1,310	530	17,400	2,410	2,840	210	172
15	850	4,890	23,700	2,270	1,420	1,310	530	17,200	2,000	2,990	138	184
16	850	3,630	22,900	2,000	1,420	1,200	575	16,400	1,880	2,990	100	172
17	850	2,920	21,800	1,880	1,580	1,200	620	14,900	1,580	2,270	100	172
18	1,050	2,760	19,700	1,760	1,530	1,200	575	12,200	1,310	1,700	149	184
19	1,100	2,690	15,800	1,640	1,420	1,150	575	7,600	1,050	1,420	197	184
20	950	2,650	13,600	1,580	1,420	1,050	552	5,160	800	1,100	197	197
21	850	2,270	11,800	1,480	1,310	1,000	620	4,050	665	900	197	184
22	755	1,880	8,000	1,530	1,310	950	620	2,990	530	710	197	172
23	665	1,700	5,520	1,640	1,200	900	710	3,070	552	620	210	172
24	620	1,580	4,800	1,880	1,200	900	800	3,230	552	710	224	224
25	710	1,310	4,290	1,940	1,200	850	800	3,470	530	1,000	224	370
26	2,060	1,420	3,950	1,880	1,200	850	800	3,880	430	900	197	665
27	3,360	2,710	3,630	1,680	1,200	800	710	5,700	390	950	172	575
28	4,800	3,150	3,470	1,880	1,310	800	710	8,730	352	1,360	184	575
29	5,340	2,690	3,470	1,880	1,530	900	665	15,900	318	1,420	268	510
30	6,150	2,840	3,470	1,880	-	1,100	665	14,300	300	1,100	253	410
31	7,400	-	3,390	1,880	-	1,200	-	14,100	-	800	197	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	59,330	7,400	620	1,914	117,700
November	101,560	8,000	1,310	3,385	201,400
December	393,270	34,700	2,070	12,690	780,000
Calendar year 1935	3,729,470	60,700	620	10,220	7,398,000
January	71,360	4,540	1,480	2,302	141,500
February	49,950	3,230	1,200	1,722	99,070
March	44,720	2,840	800	1,443	88,700
April	19,869	1,000	510	662	39,410
May	218,900	17,400	710	7,062	434,200
June	151,019	16,500	300	5,034	299,500
July	129,432	15,100	620	4,176	256,700
August	8,628	620	100	278	17,110
September	7,195	665	149	240	14,270
Water year 1935-36	1,255,233	34,700	100	3,430	2,490,000

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 1936.

Average discharge.- 12 years, 6,822 second-feet.

Extremes.- Maximum discharge observed during year, 47,000 second-feet Dec. 9 (gage height, -22.60 feet); minimum, 295 second-feet Sept. 10-14.
1924-36: Maximum discharge observed, 81,100 second-feet May 31, 1929 (gage height, -16.3 feet), from rating curve extended above 60,000 second-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. Gage read twice daily Oct. 1 to Aug. 18 and once daily thereafter. During changing stages daily discharge determined from graph based on daily readings.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,190	6,300	3,870	4,300	2,030	1,730	960	1,050	14,300	650	1,340	495
2	1,290	7,250	3,070	4,840	2,150	1,730	960	870	13,100	12,100	1,050	435
3	2,270	7,800	3,230	4,750	2,210	1,730	960	830	13,100	25,000	870	435
4	2,930	7,250	3,390	4,480	2,210	1,730	915	630	13,100	18,400	830	405
5	2,790	6,300	3,310	4,030	2,210	2,090	915	1,340	13,000	14,900	790	405
6	2,390	4,750	3,230	3,870	2,270	2,270	870	1,550	13,000	16,000	720	375
7	2,030	4,030	14,400	3,710	3,760	2,330	790	1,340	13,000	16,400	585	345
8	1,610	3,470	40,300	3,470	4,660	2,720	790	1,190	12,500	14,900	525	307
9	1,440	3,230	46,600	3,310	4,220	2,790	755	1,190	10,300	12,100	495	307
10	1,290	2,790	45,500	3,070	3,460	2,510	720	1,340	7,360	9,840	465	295
11	1,290	3,070	41,000	3,000	2,790	2,330	685	2,270	4,660	8,460	465	295
12	1,290	3,950	38,400	2,720	2,390	2,150	685	3,210	3,630	5,700	465	295
13	1,240	3,310	34,000	2,580	2,210	2,030	685	8,820	2,510	4,930	465	295
14	1,190	4,650	30,900	2,650	2,150	1,910	685	13,000	2,510	3,950	435	295
15	1,140	6,100	26,900	2,650	1,970	1,670	685	15,200	2,510	3,150	435	345
16	1,140	6,000	25,600	2,580	1,970	1,550	650	15,600	2,270	3,470	435	345
17	1,100	5,400	24,000	2,580	2,030	1,390	650	15,600	2,150	3,470	405	345
18	1,050	4,930	22,800	2,510	2,030	1,390	685	14,800	1,910	3,550	375	345
19	1,000	4,210	20,800	2,510	2,030	1,390	685	12,100	1,850	2,580	345	345
20	1,050	3,150	17,200	2,510	1,970	1,340	650	9,370	1,610	2,030	345	320
21	1,140	2,930	14,000	2,270	1,790	1,240	650	6,250	1,440	1,730	345	320
22	1,100	2,650	9,840	1,910	1,730	1,240	650	4,030	1,240	1,440	332	320
23	1,000	2,510	7,360	1,910	1,550	1,240	790	3,230	960	1,390	332	320
24	915	2,390	6,100	1,910	1,550	1,140	790	2,860	870	1,140	332	320
25	915	2,150	5,400	1,910	1,550	1,050	790	2,650	870	1,050	360	320
26	870	1,850	4,930	1,850	1,550	1,000	755	3,600	790	1,000	960	320
27	755	2,800	4,480	1,850	1,550	960	755	8,240	790	1,000	870	307
28	2,480	4,920	4,210	1,850	1,670	960	960	9,530	720	1,000	790	435
29	4,210	6,200	4,030	1,790	1,730	960	1,050	18,600	650	1,050	525	495
30	5,110	5,020	3,870	1,790	-	960	1,240	20,100	650	1,340	525	525
31	5,600	-	3,710	1,790	-	960	-	16,900	-	1,440	525	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	54,815	5,600	755	1,768	108,700
November	131,360	7,800	1,850	4,379	260,500
December	516,430	46,600	3,070	16,660	1,024,000
Calendar year 1935	4,369,515	61,600	755	11,970	8,667,000
January	86,950	4,840	1,790	2,805	172,500
February	65,390	4,660	1,550	2,255	129,700
March	50,490	2,790	960	1,629	100,100
April	23,810	1,240	650	794	47,230
May	217,490	20,100	830	7,016	431,400
June	157,350	14,300	650	5,245	312,100
July	195,160	25,000	650	6,295	387,100
August	17,736	1,340	332	572	35,180
September	10,711	525	295	357	21,240
Water year 1935-36	1,527,692	46,600	295	4,174	3,030,000

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 at Fort Worth, Tarrant County, 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 1936.

Average discharge.- 12 years, 73.8 second-feet.

Extremes.- Maximum discharge during year, 12,400 second-feet Sept. 27 (gage height, 16.40 feet); no flow at times.

1924-36: 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 25 second-feet, which are poor. Texas & Pacific Railway Co. diverts small amount of water from pool in which gage is located.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.3	8.5	14	17	16	9.7	5.3	3.5	32			0
2	5.3	8.5	9.7	19	16	7.4	2.7	2.1	21			0
3	4.4	8.5	9.7	21	17	7.4	3.5	2.1	16			0
4	3.5	8.5	9.7	23	16	7.4	5.3	1.6	12			0
5	.8	8.5	26	23	14	7.4	4.4	.8	9.7			0
6	.5	14	57	23	14	8.5	2.7	.8	7.4			0
7	0	124	626	21	12	8.5	2.1	.3	4.4			0
8	0	66	100	21	11	11	2.7	119	4.4			0
9	0	21	50	19	9.7	9.7	3.5	538	3.5			0
10	0	17	37	16	9.7	9.7	3.5	108	3.5			0
11	0	11	30	14	11	9.7	2.7	23	2.1			0
12	0	10	25	14	11	9.7	2.7	16	1.6			0
13	1.6	9.5	19	11	12	8.5	2.7	8.5	.5			0
14	1.2	9.0	16	11	12	8.5	2.7	7.4	.5			0
15	.4	8.5	16	11	12	8.5	2.7	6.3	3.5			0
16	0	8.5	14	12	16	7.4	2.1	5.3	3.5			0
17	0	8.5	14	11	12	7.4	1.6	4.4	2.7			227
18	0	7.4	12	11	9.7	6.3	1.6	3.5	.8			121
19	0	9.7	12	11	9.7	5.3	2.1	2.7	.2			25
20	0	9.7	14	11	9.7	5.3	2.1	2.1	0			6.3
21	0	9.7	16	11	9.7	3.5	2.1	1.6	0			.8
22	0	9.7	17	11	12	3.5	.8	10	0			0
23	24	9.7	19	12	12	4.4	1.2	13	0			0
24	63	9.7	21	14	11	4.4	1.2	8.9	0			0
25	25	9.7	19	12	11	4.4	1.6	53	0			2.1
26	12	12	19	11	16	5.3	1.6	75	0			734
27	75	12	17	11	17	6.3	1.2	186	0			7,760
28	83	11	17	11	14	5.3	6.9	797	0			4,370
29	25	16	17	11	11	5.3	5.3	617	0			311
30	11	17	17	12	-	5.3	5.3	191	0			130
31	8.5	-	17	14	-	4.4	-	56	-			-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	350.5	83	0	11.3	695
November	492.8	124	7.4	16.4	977
December	1,307.1	626	9.7	42.2	2,590
Calendar year 1935	52,461.2	12,900	0	144	104,000
January	450	23	11	14.5	893
February	364.2	17	9.7	12.6	722
March	215.4	11	3.5	6.95	427
April	85.9	6.9	.8	2.86	170
May	3,063.9	817	.3	98.8	6,080
June	129.3	32	0	4.31	256
July	0	0	0	0	0
August	0	0	0	0	0
September	13,687.2	7,760	0	456	27,150
Water year 1935-36	20,146.3	7,760	0	55.0	39,960

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, 0.3 mile below mouth of Denton Creek, and 2.3 miles northwest of Carrollton, Dallas County. Zero of gage is 432.23 feet above mean sea level.

Drainage area.- 2,535 square miles.

Records available.- November 1923 to September 1936.

Average discharge.- 12 years (1924-36), 670 second-feet.

Extremes.- Maximum discharge during year, 16,000 second-feet Sept. 29 (gage height, 8.90 feet); minimum, 62 second-feet Nov. 24, 25 (gage height, 0.46 foot), caused by regulation.

1923-36: Maximum discharge, 82,100 second-feet May 19, 1935 (gage height, 13.00 feet); no flow at times.

Remarks.- Records good. No diversion above station. Flow is partly regulated by Lake Dallas Reservoir (capacity, 214,000 acre-feet).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	242	268	247	574	289	116	109	96	384	124	109	93
2	218	218	232	574	306	120	102	93	278	124	109	93
3	204	185	222	580	322	120	102	216	222	120	109	93
4	189	176	222	839	316	124	99	306	189	120	106	93
5	185	172	232	873	294	127	102	138	194	120	102	93
6	180	1,640	2,400	873	278	127	99	96	280	180	102	93
7	180	3,520	9,660	856	263	131	99	87	155	146	99	96
8	180	2,760	7,150	856	268	142	106	96	138	116	99	96
9	185	843	4,670	762	268	142	106	940	131	109	99	96
10	296	344	2,840	379	263	189	102	1,520	124	106	99	96
11	878	278	1,980	379	258	159	102	2,960	127	106	102	96
12	268	247	1,820	384	258	134	102	1,040	124	106	99	96
13	167	222	1,760	379	263	124	102	362	124	106	99	96
14	163	218	1,700	373	263	116	99	258	120	106	99	99
15	155	208	1,650	373	263	116	99	218	124	106	102	106
16	155	204	1,650	373	252	109	96	199	120	106	102	106
17	146	204	1,600	356	247	109	90	194	113	106	102	168
18	142	204	1,600	289	242	106	90	176	99	102	102	185
19	131	199	1,600	294	242	102	90	159	99	106	102	176
20	131	194	1,550	289	237	99	90	155	99	106	102	127
21	138	106	1,550	289	232	96	90	142	102	120	102	106
22	157	72	1,550	289	180	102	90	138	113	116	102	120
23	314	70	1,600	300	176	102	87	138	124	116	102	127
24	428	67	1,550	294	180	199	87	256	99	113	99	180
25	213	67	1,500	289	180	172	87	402	106	109	99	120
26	159	221	1,500	284	155	124	87	597	127	109	96	134
27	837	517	1,500	278	131	113	84	2,190	131	102	96	4,160
28	1,390	534	1,500	278	113	120	93	3,300	131	106	96	12,400
29	511	339	1,500	278	120	120	93	3,070	131	106	96	14,800
30	258	268	1,500	278	-	116	93	1,270	124	106	96	11,400
31	232	-	759	284	-	113	-	589	-	109	96	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,032	1,390	131	291	17,910
November	14,565	3,520	67	486	28,890
December	60,794	9,660	222	1,961	120,600
Calendar year 1935	552,846	71,400	50	1,515	1,097,000
January	13,796	873	278	445	27,360
February	6,859	322	113	237	13,600
March	3,889	199	96	125	7,710
April	2,877	109	84	95.9	5,710
May	21,401	3,300	87	690	42,450
June	4,432	384	99	148	8,790
July	3,533	180	102	114	7,010
August	3,124	109	96	101	6,200
September	45,744	14,800	93	1,525	90,730
Water year 1935-36	190,046	14,800	67	519	377,000

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 1936.

Average discharge.- 13 years, 393 second-feet.

Extremes.- Maximum discharge during year, 6,300 second-feet Dec. 9 (gage height, 15.20 feet, from graph based on gage readings); no flow at times.
1923-36: Maximum discharge, by slope-area method, 64,800 second-feet June 16, 1935 (gage height, 23.39 feet, from floodmarks); no flow at times.
Maximum stage known, about 25 feet in spring of 1922.

Remarks.- Records good. Daily discharge determined from graph drawn on basis of twice-daily gage readings during periods of material change in stage. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	969	208	174	117	82	31	17	102	0		0
2	17	449	185	189	147	66	28	16	40	0		0
3	14	140	162	181	166	61	26	21	26	0		0
4	11	87	151	174	177	65	26	275	20	0		0
5	9.3	73	154	162	154	77	25	91	198	0		0
6	7.6	777	380	151	124	106	24	24	335	0		0
7	6.6	1,320	1,330	143	98	121	25	19	71	0		0
8	5.7	1,210	2,880	136	100	88	26	21	24	0		0
9	6.0	1,390	5,460	151	98	70	25	220	17	0		0
10	89	1,320	2,490	151	91	64	24	651	14	0		0
11	514	682	1,050	143	80	84	23	408	11	0		0
12	260	354	579	136	73	76	22	91	8.8	0		0
13	73	295	440	128	84	60	27	31	7.4	0		0
14	27	255	390	121	98	50	24	19	6.2	0		0
15	19	216	345	113	100	44	23	15	5.0	0		0
16	16	189	311	110	86	43	22	11	4.4	0		0
17	14	174	279	106	71	42	22	9.3	3.8	0		0
18	12	162	271	102	60	40	20	8.4	2.8	0		13
19	10	154	263	98	51	37	19	14	2.0	0		221
20	9.4	147	247	90	47	34	19	12	1.5	0		30
21	9.0	140	231	97	47	34	18	16	1.0	31		114
22	8.6	124	239	117	64	33	17	11	1.5	2.7		35
23	8.7	117	247	132	74	33	17	8.0	.8	28		15
24	13	102	239	136	80	35	16	11	.4	11		7.2
25	23	96	208	124	83	144	16	21	.2	3.4		4.4
26	33	117	193	113	91	96	17	16	.1	.9		3.7
27	32	360	181	100	102	57	18	12	0	.3		181
28	845	654	174	92	113	40	17	324	0	.1		926
29	980	551	189	86	110	37	18	247	0	0		1,210
30	729	295	189	71	-	34	18	354	0	0		3,080
31	164	-	181	62	-	31	-	275	-	0		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,989.9	980	5.7	129	7,910
November	12,919	1,390	73	431	25,620
December	19,646	5,460	151	634	38,970
Calendar year 1935	262,975.3	52,000	0	720	521,600
January	3,889	189	62	125	7,710
February	2,786	177	47	96.1	5,530
March	1,884	144	31	60.8	3,740
April	653	31	16	21.8	1,300
May	3,268.7	651	8.0	105	6,480
June	903.9	335	0	30.1	1,790
July	77.4	31	0	2.50	154
August	0	0	0	0	0
September	5,840.3	3,080	0	195	11,580
Water year 1935-36	55,857.2	5,460	0	153	110,800

San Jacinto River near Humble, Tex.

Location.- Chain gage, lat. 30°1'35", long. 95°15'30", at highway bridge, 1,160 feet above Southern Pacific (Houston, East & West Texas) Railway bridge, about half a mile below Spring Creek, and 2½ miles north of Humble, Harris County.

Drainage area.- 1,811 square miles.

Records available.- October 1928 to September 1936.

Extremes.- Maximum discharge observed during year, 47,600 second-feet Dec. 9 (gage height, 23.74 feet) from rating curve extended above 33,000 second-feet; minimum, 41 second-feet Oct. 28.

1928-36: Maximum discharge, by slope-area method, 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 Dec. 13-18, 20-31, Jan. 1-13 estimated on basis of three discharge measurements and rainfall records. No diversions above station. Gage read twice daily. During changing stages daily discharge determined from graph based on gage readings.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	774	92	2,510	632	222	347	96	141	5,160	70	303	345
2	465	209	2,510	774	250	296	100	141	4,420	2,560	283	468
3	383	296	2,620	745	330	280	111	141	2,960	16,100	263	578
4	265	184	3,500	716	383	365	117	141	1,600	17,100	232	415
5	113	171	4,620	660	422	444	115	137	1,120	14,100	224	246
6	67	196	7,360	634	584	488	113	130	845	9,970	224	190
7	55	250	15,400	608	402	444	108	115	665	5,970	187	150
8	61	265	32,300	584	1,900	383	111	102	415	5,000	120	133
9	64	280	44,600	535	2,100	383	126	94	345	3,860	138	120
10	64	578	33,700	511	1,900	465	133	604	283	2,450	*127	99
11	58	1,320	18,800	488	1,410	488	115	1,700	232	1,690	*116	86
12	55	1,500	11,500	465	1,320	422	102	1,800	204	1,050	*106	82
13	52	2,300	7,520	422	1,240	383	98	1,800	148	845	*96	82
14	58	2,000	4,750	402	1,020	312	94	1,600	102	755	86	95
15	66	1,240	3,280	365	892	250	98	2,000	172	695	84	113
16	69	660	2,400	330	688	236	102	1,800	166	1,100	78	106
17	70	444	1,900	312	584	209	113	952	160	2,760	72	102
18	72	422	1,600	296	465	196	122	716	160	3,120	70	106
19	74	422	1,410	250	422	184	144	660	150	3,360	68	104
20	79	444	1,320	250	347	184	164	559	146	2,050	66	92
21	64	465	1,320	222	347	184	171	422	138	1,120	74	95
22	56	444	1,240	236	330	160	236	365	120	910	74	104
23	55	422	1,160	209	312	153	444	347	106	785	74	97
24	55	402	1,160	209	312	139	465	383	111	755	80	92
25	51	347	1,080	222	296	126	265	2,130	126	785	92	106
26	44	296	1,020	222	312	113	196	11,200	150	725	104	150
27	42	347	1,020	222	330	111	166	17,800	126	578	102	184
28	41	511	952	236	347	117	146	16,400	99	522	90	214
29	49	892	952	209	365	117	141	16,900	88	440	82	218
30	58	2,100	892	196	-	111	137	13,200	76	415	102	187
31	77	-	832	209	-	96	-	6,740	-	303	138	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,556	774	41	115	7,050
November	19,499	2,300	92	650	38,680
December	215,428	44,800	832	6,949	427,300
Calendar year 1935	821,166	62,500	41	2,250	1,629,000
January	12,571	832	196	406	24,930
February	19,832	2,100	222	684	39,340
March	8,186	488	96	264	16,240
April	4,649	465	94	155	9,220
May	101,420	17,800	94	3,272	201,200
June	20,593	5,160	76	686	40,850
July	101,963	17,100	70	3,289	202,200
August	3,955	303	66	128	7,540
September	5,161	578	82	172	10,240
Water year 1935-36	516,813	44,800	41	1,412	1,025,000

*Interpolated.

Whiteoak Bayou at Houston, Tex.

Location.- Water-stage recorder, lat. 29°46'31", long. 95°23'54", at Yale Street Bridge, in Houston, Harris County, just below Texas & New Orleans Railroad bridge and 2 miles above confluence with Little Whiteoak Bayou. Zero of gage is 4.10 feet below mean sea level.

Drainage area.- 87.0 square miles.

Records available.- May to September 1936.

Extremes.- Maximum discharge during period, 4,020 second-feet May 25 (gage height, 39.0 feet, from floodmarks); minimum, 0.5 second-foot Aug. 29 (gage height, 18.91 feet).
Maximum stage known, 51.5 feet, present datum, Dec. 9, 1935 (discharge, 14,750 second-feet. Record furnished by M. J. McCall, engineer for Harris County). Crest discharge for flood of May 31, 1929, 9,360 second-feet, based on current-meter measurement at a stage 1 foot below crest and at bridge 1 block below gage (gage height to present gage not determined, but stage was several feet lower than that of Dec. 9, 1935), record furnished by Wm. E. White, assistant engineer of Houston.

Remarks.- Records good except those below 700 second-feet, which are fair, and those May 31 to June 16 and Sept. 20-30, which are fair and were estimated on basis of weather records and by comparison with records of Brays Bayou at Houston. Discharge May 25-30 determined from graph based on twice daily or more gage readings. No diversions above station.

Discharge, in second-feet, May to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	385	2.4	1.3	140
2								-	266	161	1.2	19
3								-	178	370	1.1	5.4
4								-	120	86	1.4	2.6
5								-	79	58	1.3	1.6
6								-	54	46	1.5	1.1
7								-	38	21	1.5	8.6
8								-	28	9.0	1.5	26
9								-	18	5.8	1.2	3.7
10								-	14	4.2	1.2	2.3
11								-	11	3.2	1.4	1.9
12								-	8.2	2.5	1.4	1.4
13								-	7.1	2.9	1.1	2.3
14								-	6.0	3.7	1.4	2.9
15								-	5.0	2.1	1.3	32
16								-	4.0	1.9	.9	22
17								-	2.6	1.9	.9	7.3
18								-	2.6	2.0	1.1	4.2
19								-	2.5	4.2	1.0	3.2
20								-	2.3	2.5	1.3	
21								-	2.2	1.9	1.2	
22								-	2.1	5.2	1.1	
23								-	2.0	32	43	1.5
24								-	2.0	9.6	8.3	
25								3,240	1.9	2.8	1.6	
26								3,280	2.1	3.3	1.2	
27								1,680	1.9	3.0	1.1	10
28								864	1.6	1.9	1.2	
29								1,190	1.5	1.5	.9	2.0
30								1,110	1.4	1.4	.8	
31								574	-	1.3	1.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 25-31	11,938	3,280	574	1,705	23,680
June	1,250.0	385	1.4	41.7	2,480
July	854.2	370	1.3	27.6	1,690
August	86.4	43	.8	2.79	171
September	314.0	140	-	10.5	623
The period					28,640

Brays Bayou at Houston, Tex.

Location.- Water-stage recorder, lat. 29°42'6", long. 95°24'6", in southwest section of Houston, Harris County, at Old Main Street bridge three-quarters of a mile above Harris Gulley and about 15 miles above confluence with Buffalo Bayou. Zero of gage is 3.90 feet below mean sea level.

Drainage area.- 98.2 square miles.

Records available.- May to September 1936.

Extremes.- Maximum discharge during period, 6,600 second-feet May 25 (gage height, 47.0 feet, from floodmarks); minimum, 5.4 second-feet June 20 (gage height, 28.42 feet).
Maximum stage known, 50.4 feet, present site and datum May 31, 1929 (discharge, 11,095 second-feet, by current-meter measurement at Lawndale Avenue bridge about 12 miles below gage, furnished by Wm. E. White, assistant engineer, City of Houston).

Remarks.- Records good except those for May 31 to June 19, which are fair and were estimated on basis of weather records. Daily discharge May 25-30 determined from graph based on twice-daily or more gage readings. No diversions above station.

Discharge, in second-feet, May to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	304	15	12	80
2								-	274	181	12	62
3								-	239	480	12	46
4								-	218	364	14	31
5								-	192	182	14	20
6								-	168	92	20	14
7								-	150	82	20	10
8								-	126	53	21	12
9								-	109	31	26	18
10								-	93	25	23	12
11								-	79	19	22	7.8
12								-	65	17	21	8.6
13								-	57	56	20	12
14								-	44	285	18	23
15								-	32	148	16	29
16								-	22	89	16	41
17								-	16	80	14	48
18								-	11	46	14	33
19								-	8.6	27	16	21
20								-	5.4	17	13	17
21								-	8.6	13	12	20
22								-	7.8	16	12	26
23								-	7.8	126	16	27
24								-	41	186	19	24
25								5,720	48	138	23	28
26								3,890	29	72	23	25
27								2,820	19	45	19	24
28								1,500	18	30	17	19
29								631	20	22	17	12
30								407	11	17	20	7.8
31								349	-	14	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 25-31	15,317	5,720	349	2,188	30,380
June	2,423.2	304	5.4	80.8	4,810
July	2,968	480	13	95.7	5,890
August	554	32	12	17.9	1,100
September	758.2	80	7.8	25.3	1,500
The period					43,680

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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 1936.

Average discharge.- 12 years (1924-36), 520 second-feet.

Extremes.- Maximum discharges for the water years 1923-24 to 1928-29 have been revised as follows:

1923-24: 21,000 second-feet Apr. 25 (gage height, 7.4 feet, from graph based on gage readings).

1924-25: 40,200 second-feet Apr. 27 (gage height, 9.50 feet, from floodmarks).

1925-26: 82,600 second-feet Aug. 29 (gage height, 13.77 feet, from floodmarks).

1926-27: 95,400 second-feet by slope-area method, Oct. 16 (gage height, 15.16 feet, from floodmarks).

1927-28: 23,000 second-feet May 18 (gage height, 7.0 feet, from graph based on gage readings).

1928-29: 54,000 second-feet Sept. 9 (gage height, 11.00 feet, from floodmarks).

Maximum discharge during water year 1935-36, 53,300 second-feet Sept. 23 (gage heights, 10.58 feet); minimum, 0.3 second-foot Apr. 12-15.

1923-36: Maximum discharge, by slope-area method, 95,400 second-feet Oct. 16, 1926 (gage height, 15.16 feet, from floodmarks); no flow at times.

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. No diversions above station.

Revised daily discharge, in second-feet, for high-water periods 1924-26, 1929

Date	Discharge	Date	Discharge
1924		1926	
Apr. 25	13,200	Apr. 21	7,070
26	4,940	22	6,640
June 10	7,840	23	6,460
1925		May 19	4,240
Apr. 8	4,480	20	3,980
9	2,020	29	4,640
25	9,880	30	1,480
26	5,800	June 19	13,300
27	23,200	20	4,260
28	16,800	July 26	5,850
29	2,490	27	7,950
May 9	2,090	28	2,550
10	4,400	Aug. 23	32,700
Aug. 9	5,800	24	11,100
10	7,120	29	33,900
11	5,070	30	37,100
Sept. 10	3,590	31	7,940
11	32,800	1929	
12	13,300	May 16	2,590
13	4,390	June 6	8,390
14	4,630	7	5,710
15	15,400	July 3	4,240
16	9,100	Sept. 8	4,490
24	5,510	9	44,800
25	7,790	10	12,500
		11	7,040

Note.- The above revised figures supersede those previously published in Water-Supply Papers 588, 608, 628, 648, 668 and 688. Records poor.

Discharge measurements made on Apr. 27, 28, 1925, and published on page 66, Water-Supply Paper 608 have been revised as follows:

Apr. 27, 1925: Gage height, 7.74 feet; discharge, 23,600 second-feet.
28, 1925: Gage height, 6.50 feet; discharge, 11,400 second-feet.

Discharge, in second-feet, of Brazos River at Seymour, Tex. for water years 1923-24 to 1928-29 1935-36

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
December 1923	6,216	398	61	201	12,330
January 1924	640.2	61	7.2	20.7	1,270
February	106.6	12	0	3.68	211
March	853.2	193	0	27.5	1,690
April	27,228.4	13,200	0	908	54,010
May	10,673.2	2,600	5.2	344	21,170
June	20,439.0	7,840	0	681	40,540
July	275.4	118	0	8.88	546
August	371.8	202	0	12.0	737
September	13,812.4	4,350	0	460	27,400
The period					160,200
October 1924	3,346.3	1,110	0	108	6,640
November	2.8	2.8	0	.09	5.6
December	0	0	0	0	0
Calendar year	77,749.3	13,200	0	213	154,200
January 1925	142.0	41	0	4.58	282
February	104.8	47	0	3.74	208
March	0	0	0	0	0
April	67,343.7	23,200	0	2,245	133,600
May	13,629.0	4,400	0	440	27,030
June	3,435.8	705	0	115	6,810
July	1,934.3	527	0	62.4	3,840
August	31,812	7,120	29	1,026	63,100
September	111,874	32,800	55	3,729	221,900
Water year 1924-25	233,624.7	32,800	0	640	463,400
October 1925	9,070.8	1,062	5.2	293	17,990
November	1,995.6	275	0	66.5	3,960
December	155.6	23	1.4	5.02	309
Calendar year 1925	241,497.6	32,800	0	662	479,000
January 1926	401.9	93	1.1	13.0	797
February	11.2	2.4	0	.40	22
March	3,483	1,290	0	112	6,910
April	27,347.0	7,070	3.4	912	54,240
May	18,896.8	4,640	6.8	610	37,480
June	26,476.0	13,300	0	883	52,510
July	19,310.4	7,950	0	623	38,300
August	134,622.4	37,100	2.2	4,343	267,000
September	21,429	3,790	35	714	42,500
Water year 1925-26	263,199.7	37,100	0	721	522,000
October 1926	148,553	62,600	284	4,792	294,700
November	4,516	510	0	151	8,960
December	4,922	582	0	159	9,760
Calendar year 1926	409,968.7	62,600	0	1,123	813,200
January 1927	4,926	252	81	159	9,770
February	3,441	444	30	123	6,830
March	962	52	11	31.0	1,910
April	1,517	81	26	50.6	3,010
May	4,387	505	0	142	8,700
June	15,987	1,860	155	533	31,710
July	17,592	6,120	0	567	34,890
August	677.0	152	0	21.8	1,340
September	2,078.8	380	0	69.3	4,120
Water year 1926-27	209,558.8	62,600	0	574	415,700
October 1927	633.3	208	0.4	20.4	1,260
November	40.4	*	0	1.35	80
December	99.1	17	0	3.20	197
Calendar year 1927	52,340.6	6,120	0	143	103,800
January 1928	204.4	16	.9	6.59	405
February	147.8	17	.9	5.10	293
March	594.7	179	0	19.2	1,180
April	0	0	0	0	0
May	57,889	13,600	0	1,867	114,800
June	5,631.4	890	2.4	188	11,170
July	43,013.2	10,900	0	1,388	85,320
August	17,317	2,860	74	559	34,350
September	431.8	155	0	14.4	857
Water year 1927-28	126,002.1	13,600	0	344	249,900

Discharge, in second-feet, of Brazos River at Seymour, Tex. for water years 1923-24 to 1928-29, 1935-36--Continued

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 1928	0	0	0	0	0
November	358.4	52	0	11.9	708
December	68.0	9.0	0	2.19	135
Calendar year 1928	125,655.7	13,600	0	344	249,200
January 1929	0	0	0	0	0
February	170.2	26	0	6.08	338
March	1,178.9	168	1.4	38.0	2,340
April	1,040.2	197	0	34.7	2,060
May	16,129.2	3,320	0	520	31,990
June	21,244.2	8,390	0	708	42,140
July	14,894.8	4,240	0	480	29,540
August	15.5	7.8	0	.50	31
September	87,244	44,800	0	2,908	173,000
Water year 1928-29	142,343.4	44,800	0	390	282,300
October 1935	5,313.9	978	5.6	171	10,540
November	4,949	1,780	21	165	9,820
December	2,939	354	22	94.8	5,830
Calendar year 1935	285,727.9	32,600	0	783	566,800
January 1936	569	29	11	18.4	1,130
February	667.2	49	4.8	23.0	1,320
March	59.1	6.4	.6	1.91	117
April	6,367.7	-	.3	212	12,630
May	36,886	-	-	1,190	73,160
June	7,504.2	-	5.8	250	14,880
July	12,434.9	2,940	5.0	401	24,660
August	297	-	-	9.58	589
September	121,333.8	31,200	-	4,044	240,700
Water year 1935-36	199,320.8	31,200	0.3	545	395,400

Note.- Monthly discharge for April, June, 1924; April, May, August, September, 1925; April, May, June, July, August, October, 1926; July, 1927; May, July, 1928; May, June, July, September, 1929, supersedes the figures published in Water-Supply Papers 588, 608, 628, 648, 668 and 688. Monthly discharge for the remaining months republished in order to complete the record.

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 1936. Comparable records January 1924 to November 1933 at station near Mineral Wells.

Extremes.- Maximum discharge during year not determined; no flow Aug. 17 to Sept. 15.
1933-36: Maximum discharge, 64,900 second-feet May 20, 1935 (gage height, 15.60 feet, from floodmarks) from rating curve extended above 32,000 second-feet; no flow at times.
Maximum stage known occurred in 1876, according to U. S. Army Engineers. Stage was several feet higher than any subsequent flood. A stage of about 24.0 feet occurred in June 1930.

Remarks.- Records good except those for Sept. 23-30, which are poor and were computed on basis of records for stations at Seymour, Crystal Falls, and Glen Rose. No large diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	283	568	526	97	59	30	10	316	3,510	116	8.0	0
2	251	436	864	89	65	29	8.0	1,400	4,370	117	6.2	0
3	283	368	596	82	67	30	8.0	1,200	3,020	82	4.7	0
4	327	322	533	82	67	34	7.4	4,690	1,850	56	3.1	0
5	277	277	442	78	59	30	4.7	4,860	1,160	44	5.6	0
6	236	288	527	74	59	29	2.2	2,320	800	66	9.8	0
7	203	702	410	74	56	29	3.8	1,250	625	4,870	12	0
8	175	1,370	368	78	59	40	3.8	1,160	533	2,880	11	0
9	161	717	316	74	63	48	3.4	2,380	603	2,290	8.0	0
10	236	350	293	67	59	46	1.8	5,010	360	3,300	5.0	0
11	378	241	272	71	56	40	1.6	4,970	333	3,140	3.4	0
12	936	198	241	71	56	34	1.6	3,510	262	2,740	1.9	0
13	768	184	227	65	54	32	.9	2,340	246	1,610	1.2	0
14	410	193	207	65	48	30	.4	1,750	334	984	.4	0
15	251	184	184	63	52	27	.3	1,630	429	684	.2	0
16	186	170	175	61	52	24	.3	888	251	494	.1	8,720
17	138	152	156	59	50	21	.3	575	198	386	0	36,100
18	104	143	143	56	42	21	.3	442	143	304	0	22,900
19	82	188	130	56	40	17	.2	380	127	241	0	13,500
20	65	207	121	52	34	17	.1	322	374	188	0	10,200
21	56	203	117	54	37	15	.1	277	333	147	0	5,890
22	48	184	117	56	40	15	.1	2,730	304	113	0	11,000
23	50	161	113	59	43	20	121	2,900	212	82	0	18,000
24	78	143	113	59	40	20	193	1,910	161	56	0	28,000
25	108	130	104	59	37	18	143	1,330	121	44	0	22,000
26	165	126	100	59	37	17	93	1,450	82	32	0	12,400
27	456	130	93	56	37	23	454	1,370	63	24	0	26,000
28	1,800	126	108	54	36	23	461	1,640	50	19	0	44,000
29	1,550	117	108	50	32	16	404	7,190	42	15	0	43,600
30	1,140	108	104	54	-	13	362	6,120	32	12	0	32,000
31	816	-	100	44	-	13	-	4,250	-	9.8	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,019	1,800	48	388	23,840
November	8,686	1,370	108	290	17,230
December	7,908	864	93	255	15,690
Calendar year 1935	790,330	-	14	2,165	1,568,000
January	2,018	97	44	65.1	4,000
February	1,436	67	32	49.5	2,850
March	801	48	13	25.8	1,590
April	2,290.3	461	.1	76.3	4,540
May	72,560	7,190	277	2,341	143,900
June	20,948	4,370	32	698	41,550
July	25,145.8	4,870	9.8	811	49,880
August	80.6	12	0	2.60	160
September	334,310	44,000	0	11,140	663,100
Water year 1935-36	488,202.7	44,000	0	1,344	968,300

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. Zero of gage is 566.66 feet above mean sea level (general adjustment of 1929).

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

Records available.- October 1923 to September 1936.

Average discharge.- 13 years, 1,699 second-feet.

Extremes.- Maximum discharge during year, 67,300 second-feet Sept. 27 (gage height, 19.42 feet); no flow Aug. 24 to Sept. 14.
1923-36: Maximum discharge, 97,600 second-feet May 18, 1935 (gage height, 23.68 feet), from rating curve extended above 68,000 second-feet; no flow at times.
Maximum stage known, about 30.0 feet May 8 or 9, 1922.

Remarks.- Records excellent except those for Oct. 1-19, June 2-9, 18, Aug. 19 to Sept. 15, and Sept. 21-26, which are good and were computed from graph plotted from once-daily reading by U. S. Weather Bureau. No large diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	519	1,510	193	160	96	65	23	170	6,080	126	62	0
2	501	1,280	181	155	92	65	21	364	4,230	111	52	0
3	484	1,050	175	155	96	62	21	364	3,100	96	44	0
4	403	1,450	165	155	88	58	21	348	3,960	81	42	0
5	395	648	270	150	92	65	21	302	3,730	78	33	0
6	318	562	784	146	88	65	14	3,470	2,540	225	31	0
7	187	510	764	131	85	62	14	3,620	1,860	596	26	0
8	379	519	1,520	131	81	68	16	3,280	1,340	1,180	21	0
9	387	582	1,320	126	81	72	18	6,440	922	1,290	18	0
10	379	772	1,320	122	85	68	16	4,180	740	2,900	14	0
11	379	1,060	750	122	81	62	16	2,810	709	2,190	12	0
12	341	1,120	572	118	81	58	16	4,590	544	2,220	10	0
13	325	719	493	115	78	58	14	5,360	572	3,100	8.0	0
14	280	519	427	111	75	55	12	3,730	501	3,000	5.0	0
15	372	427	387	107	75	58	12	2,900	427	2,460	4.0	29
16	709	356	356	103	75	52	12	2,000	341	1,600	4.0	1,240
17	689	310	325	99	75	50	12	1,660	280	1,100	3.0	13,400
18	553	302	302	99	62	50	12	1,520	265	828	3.0	40,500
19	403	288	272	99	78	47	10	1,050	411	658	1.0	23,700
20	295	265	250	103	78	39	10	772	302	527	.8	13,200
21	242	250	242	99	78	39	10	591	229	451	.6	9,850
22	211	229	242	96	68	39	10	527	193	356	.3	7,550
23	280	217	229	96	75	42	8.0	459	160	325	.1	8,550
24	387	235	211	96	72	39	8.0	3,390	136	333	0	13,000
25	419	258	199	96	72	36	8.0	6,540	272	242	0	25,100
26	443	265	181	92	75	36	8.0	3,950	258	175	0	19,700
27	403	250	175	88	75	33	8.0	3,410	211	141	0	45,100
28	419	223	175	85	72	31	48	3,450	175	118	0	58,300
29	527	217	165	85	68	28	435	8,240	146	103	0	58,000
30	325	211	160	85	-	26	372	6,400	126	92	0	42,900
31	639	-	160	99	-	23	-	6,580	-	75	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,593	709	187	406	24,980
November	16,604	1,510	211	553	32,930
December	12,965	1,520	160	418	25,720
Calendar year 1935	1,014,095	67,400	39	2,778	2,011,000
January	3,524	160	85	114	6,990
February	2,297	96	62	79.2	4,560
March	1,561	72	23	50.0	3,080
April	1,226	435	8.0	40.9	2,430
May	93,067	8,240	170	3,002	184,600
June	34,810	6,080	126	1,160	69,040
July	26,777	3,100	75	864	53,110
August	394.8	62	0	12.7	783
September	380,119	58,300	0	12,670	754,000
Water year 1935-36	585,927.8	58,300	0	1,601	1,162,000

Brazos River at Waco, Tex.

Location.- Water-stage recorder, lat. 31°33'40", long. 97°7'45", at Washington Avenue Bridge, in Waco, McLennan County, 2½ miles below Bosque River. Zero of gage is 357.10 feet above mean sea level (general adjustment of 1929).

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

Records available.- September 1898 to December 1911, October 1914 to September 1936.

Average discharge.- 35 years, 2,603 second-feet.

Extremes.- Maximum discharge during year, 246,000 second-feet Sept. 27 (gage height, 40.90 feet, levee on left bank was overtopped and broken by flood); minimum, 28 second-feet Aug. 29, Sept. 11.

1898-1911, 1914-36: Maximum discharge, that of Sept. 27, 1936; no flow Aug. 20, 21, 1918, and probably for several days in August 1923.

A stage of 39.7 feet occurred Dec. 3, 1913, levee on left bank was broken by flood.

Remarks.- Records good except those below 10,000 second-feet, which are fair. Discharge determined from graph based on once-daily gage reading furnished by U. S. Weather Bureau Oct. 27, 28, Nov. 1, 5, 6, 10-12, 16, 21, 22, June 13 to July 8, July 20-22, and July 24 to Aug. 2, and on twice-daily readings Aug. 3 to Sept. 17. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,550	3,420	360	410	236	178	82	694	7,320	186	214	40
2	1,220	1,580	365	395	246	212	78	622	8,060	461	186	44
3	1,030	2,200	350	1,820	246	175	76	415	4,860	210	166	46
4	2,460	2,040	395	420	238	166	73	278	3,750	186	157	46
5	1,090	2,900	2,170	390	230	157	75	385	4,100	148	145	36
6	860	3,550	10,100	375	226	148	71	410	6,200	112	132	51
7	754	1,300	4,270	355	226	145	62	656	3,070	76	125	46
8	532	1,050	2,600	350	222	907	60	5,050	2,260	730	110	42
9	490	978	3,100	485	210	169	60	7,800	1,760	1,170	104	40
10	490	2,380	2,040	2,180	206	163	58	11,200	1,350	1,120	102	40
11	490	2,370	1,870	640	200	154	58	5,530	1,090	1,610	90	36
12	490	2,100	3,180	610	200	151	58	3,140	909	2,680	80	40
13	478	1,500	1,630	580	200	148	55	3,660	784	2,140	84	36
14	420	1,500	2,760	562	192	142	53	5,860	712	2,330	84	42
15	395	1,200	954	556	189	130	53	4,040	658	2,880	86	38
16	380	2,490	825	544	192	122	62	3,330	610	2,940	198	91
17	375	860	754	532	473	116	1,050	2,620	532	2,400	88	3,250
18	1,730	748	758	508	2,060	116	484	1,920	425	1,700	76	19,300
19	860	1,320	2,310	429	234	116	172	1,700	395	1,260	67	28,300
20	682	2,100	598	250	230	112	286	1,550	1,320	978	60	18,500
21	538	652	996	246	262	103	175	1,170	430	832	58	13,100
22	454	598	2,290	238	186	108	125	938	380	869	66	11,300
23	8,080	562	538	234	175	106	100	860	306	1,890	62	7,810
24	12,600	532	496	240	175	100	88	5,750	262	1,090	57	13,400
25	2,260	520	448	1,190	175	100	78	8,530	230	460	44	16,800
26	2,570	1,250	405	226	189	102	69	9,440	226	395	44	25,600
27	3,830	2,380	380	214	192	100	64	13,000	192	360	40	143,000
28	3,370	592	370	262	192	96	1,370	13,600	189	306	42	158,000
29	1,550	478	1,880	246	189	92	278	12,100	192	306	38	72,800
30	1,300	420	415	242	-	90	487	11,000	186	298	42	54,200
31	1,350	-	415	238	-	86	-	7,780	-	234	42	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	54,678	12,600	375	1,764	108,500
November	45,570	3,550	420	1,519	90,390
December	50,022	10,100	350	1,614	99,220
Calendar year 1935	1,634,381	103,000	81	4,478	3,242,000
January	15,967	2,180	214	515	31,670
February	8,193	2,060	175	283	16,250
March	4,815	907	86	155	9,550
April	5,860	1,370	53	195	11,620
May	145,028	13,600	278	4,678	287,700
June	52,758	8,060	186	1,759	104,600
July	32,357	2,940	76	1,044	64,180
August	2,889	214	38	93.2	5,730
September	586,074	158,000	36	19,540	1,162,000
Water year 1935-36	1,004,211	158,000	36	2,744	1,991,000

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 1936. Comparable records at former station near College Station, 7½ miles downstream, February 1918 to September 1925.

Average discharge.- 15 years (1918-20, 1921-24, 1926-36), 6,042 second-feet.

Extremes.- Maximum discharge during year, 119,000 second-feet Sept. 30 (gage height, 41.00 feet); minimum, 327 second-feet Sept. 13.

1925-36: Maximum stage observed, 46.1 feet, present gage, May 20, 1930 (discharge not determined); minimum discharge, 87 second-feet Aug. 24, 1934.

Maximum known stage, about 54.0 feet (present gage datum) in December 1913.

Remarks.- Records fair except those for Oct. 3-10, Aug. 12 to Sept. 8, which are poor and were estimated on basis of U. S. Weather Bureau gage-height record at Valley Junction. Numerous small diversions above gage do not appreciably affect the flow except during low stages.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12,400	3,920	1,600	3,050	1,410	1,180	662	7,610	30,200	17,900	1,000	
2	7,240	2,830	1,410	3,170	1,410	1,140	626	5,280	23,100	32,200	934	
3		3,530	1,300	3,170	1,370	1,370	608	2,830	19,300	25,300	875	
4		2,660	1,260	2,940	1,370	2,130	602	2,130	15,600	18,000	823	
5		2,830	1,220	3,530	1,370	2,260	590	1,860	12,900	28,300	790	448
6	2,450	2,830	6,130	2,830	1,480	1,860	554	1,600	10,600	20,800	738	
7		4,730	50,800	2,560	1,330	1,480	530	1,370	11,400	15,000	706	
8		4,190	55,300	2,310	1,300	1,260	536	1,300	8,250	12,100	674	
9		4,330	43,000	2,220	1,330	1,140	542	1,530	6,420	7,200	674	360
10		3,410	34,400	2,180	1,300	1,140	530	10,100	5,450	4,330	656	355
11	1,820	3,170	19,900	2,260	1,220	1,370	518	20,800	4,890	3,530	620	350
12	1,730	3,290	11,600	3,170	1,180	1,110	512	17,400	4,470	2,830		340
13	1,820	3,530	9,880	2,560	1,180	1,000	512	12,900	4,890	2,830		336
14	2,080	2,830	7,610	2,260	1,140	972	512	7,400	3,660	3,660		385
15	1,820	2,510	6,420	2,180	1,140	940	500	7,200	3,290	3,530		445
16	1,560	2,460	5,450	2,130	1,110	920	494	6,420	3,050	3,410		400
17	1,440	2,560	4,470	2,080	1,110	888	788	5,170	2,830	3,790		1,100
18	1,370	2,720	4,050	1,950	1,040	875	972	4,330	2,780	3,660		6,060
19	1,330	1,950	3,790	1,900	1,110	830	862	3,530	2,560	3,660		24,600
20	2,250	1,730	4,050	1,860	2,040	804	1,270	2,940	2,360	2,830		34,400
21	2,660	1,860	4,470	1,820	1,520	797	1,260	2,610	2,220	2,260	475	23,200
22	1,820	2,460	3,530	1,770	1,180	790	1,140	2,510	2,560	1,950		14,800
23	1,520	1,730	4,050	1,540	1,110	784	1,140	2,560	2,130	2,540		12,900
24	7,020	1,440	4,330	1,520	1,080	764	1,040	5,180	2,000	3,050		10,100
25	16,800	1,370	3,290	1,480	1,040	752	972	16,400	1,900	3,530		14,700
26	7,340	1,370	2,830	1,440	1,000	738	836	34,800	1,860	2,660		17,300
27	6,070	1,370	2,830	1,900	1,110	726	719	58,900	1,770	1,950		30,400
28	5,600	1,620	2,610	1,770	1,180	706	1,090	63,400	1,730	1,640		54,600
29	6,800	2,940	2,560	1,440	1,220	700	3,190	74,000	1,600	1,410		82,300
30	5,750	2,080	2,610	1,410	-	693	8,250	60,100	1,560	1,220		105,000
31	5,170	-	3,660	1,410	-	674	-	43,300	-	1,110		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	123,010	16,800	1,330	3,968	244,000
November	80,250	4,730	1,370	2,675	159,200
December	310,410	55,300	1,220	10,010	615,700
Calendar year 1935	2,936,721	129,000	244	8,046	5,826,000
January	67,910	3,530	1,410	2,191	134,700
February	36,380	2,040	1,000	1,254	72,160
March	32,793	2,260	674	1,058	65,040
April	32,357	8,250	494	1,079	64,180
May	487,460	74,000	1,300	15,720	966,900
June	197,330	30,200	1,560	6,578	391,400
July	238,180	32,200	1,110	7,683	472,400
August	17,990	1,000	-	580	35,680
September	438,015	105,000	336	14,600	868,800
Water year 1935-36	2,062,085	105,000	336	5,634	4,090,000

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, of which about 9,240 square miles is probably noncontributing.

Records available.- January 1903 to June 1906, June 1931 to September 1936. October 1922 to September 1931 comparable records at Rosenberg, 7.6 miles upstream, except for diversion by Richmond Irrigation Co.'s canal.

Extremes.- Maximum discharge during year, 74,700 second-feet Dec. 9 and May 31; maximum gage height, 33.1 feet May 31; minimum discharge, 810 second-feet Sept. 12.
1903-6, 1931-36: Maximum discharge, 90,900 second-feet May 27, 1935 (gage height, 36.12 feet); 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 fair. Gage-height record Oct. 10-23 and Mar. 30 to Apr. 9 based on graph plotted from once-daily reading 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15,800	8,870	3,990	4,430	2,510	1,980	1,280	1,640	72,000	2,670	3,020	1,120
2	15,600	7,400	3,990	4,890	2,430	1,980	1,250	2,660	62,500	3,370	2,750	1,120
3	12,100	6,110	3,400	4,780	2,350	2,050	1,220	5,900	48,000	29,700	2,430	1,120
4	7,960	5,280	2,830	4,430	2,350	2,050	1,220	6,110	34,000	44,800	2,280	1,140
5	5,970	5,150	2,590	4,200	2,350	2,120	1,140	4,540	27,900	45,800	2,120	1,090
6	5,150	5,690	2,430	4,100	2,430	2,120	1,120	3,210	21,200	47,200	1,980	1,060
7	4,540	5,280	12,300	3,990	3,210	2,350	1,090	2,510	17,600	47,200	1,840	1,040
8	4,430	5,150	55,900	4,100	4,200	2,750	1,060	2,050	15,600	41,200	1,770	960
9	4,430	5,690	73,300	3,890	3,590	2,750	1,060	1,840	15,100	34,600	1,640	885
10	3,500	6,250	71,600	3,590	3,210	2,590	960	1,770	12,400	28,700	1,610	860
11	2,750	6,730	62,000	3,400	3,120	2,510	935	1,900	9,690	22,600	1,510	860
12	3,210	6,730	54,800	3,210	3,020	2,350	910	4,390	8,110	18,100	1,450	835
13	2,920	5,280	45,300	3,120	2,830	2,280	910	15,600	7,060	15,800	1,420	860
14	2,350	4,660	34,000	3,120	2,670	2,280	885	15,100	6,250	14,100	1,390	860
15	2,830	4,320	27,000	3,400	2,510	2,350	885	11,700	5,970	13,100	1,340	885
16	2,830	4,320	22,000	3,400	2,350	2,200	885	8,480	5,830	12,600	1,310	910
17	2,750	3,990	18,400	3,120	2,200	2,050	1,010	7,060	5,150	22,600	1,280	935
18	2,590	3,590	15,600	2,920	2,200	1,840	1,220	6,890	4,660	22,400	1,250	910
19	2,590	3,500	13,300	2,830	2,050	1,700	1,640	6,250	4,200	12,900	1,140	1,010
20	2,430	3,590	11,700	2,750	2,050	1,640	1,420	5,970	3,990	10,100	1,120	1,280
21	2,430	3,590	10,300	2,670	2,050	1,610	1,220	5,410	3,780	8,870	1,090	15,600
22	2,350	3,300	9,480	2,670	1,980	1,510	1,340	4,890	3,590	7,740	1,060	23,400
23	2,510	3,120	8,870	2,590	2,200	1,480	1,730	4,780	3,500	6,250	1,090	17,600
24	3,210	3,020	7,920	2,590	2,510	1,480	2,830	9,930	3,500	5,550	1,090	13,300
25	3,020	3,120	7,060	2,510	2,350	1,450	2,510	46,000	3,300	4,780	1,040	11,900
26	4,740	2,830	6,890	2,430	2,120	1,420	1,900	69,600	3,300	4,660	1,040	10,800
27	12,400	2,510	5,970	2,430	2,050	1,390	1,700	65,000	3,120	4,660	1,010	14,100
28	8,920	3,250	5,150	2,430	1,980	1,360	1,640	66,000	2,920	4,780	985	22,600
29	6,570	6,250	4,660	2,430	1,960	1,360	1,610	69,300	2,830	4,200	985	32,600
30	5,970	5,150	4,200	2,510	-	1,340	1,540	72,300	2,670	3,590	960	47,200
31	7,000	-	4,430	2,590	-	1,340	-	74,400	-	3,210	960	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	165,850	15,800	2,350	5,350	329,000
November	143,720	8,870	2,510	4,791	285,100
December	611,360	73,300	2,430	19,720	1,213,000
Calendar year 1935	4,405,870	90,900	1,120	12,070	8,739,000
January	101,520	4,890	2,430	3,275	201,400
February	72,850	4,200	1,980	2,512	144,500
March	59,680	2,750	1,340	1,925	118,400
April	40,120	2,830	885	1,337	79,580
May	603,180	74,400	1,640	19,460	1,196,000
June	419,720	72,000	2,670	13,990	832,500
July	547,830	47,200	2,670	17,670	1,087,000
August	45,960	3,020	960	1,483	91,160
September	228,820	47,200	835	7,627	453,900
Water year 1935-36	3,040,610	74,400	835	8,308	6,032,000

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 1936.

Average discharge.- 12 years, 192 second-feet.

Extremes.- Maximum discharge during year, 17,600 second-feet Sept. 28 (gage height, 23.10 feet, from floodmarks); minimum, 0.3 second-foot Aug. 17 to Sept. 5.
1924-36: Maximum discharge observed, about 47,000 second-feet Sept. 8, 1932 (gage height, 27.05 feet, at former site); no flow at times.
Maximum stage known, about 30.0 feet in 1876.

Remarks.- Records good except those for Oct. 1-13 and Sept. 16-30, which are fair and were computed on basis of fragmentary gage-height record and records for station at Fort Griffin. Small diversions above station for municipal use and mining.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	26	34	20	19	15	11	20	75	14	1.9	.3
2	67	25	28	20	19	15	11	16	77	12	1.5	.3
3	66	24	25	20	19	15	11	26	38	9.7	1.6	.3
4	62	24	24	20	18	15	10	383	28	6.6	6.3	.3
5	59	22	25	19	17	15	9.7	761	24	9.1	8.6	.3
6	56	30	25	19	17	15	9.7	66	22	50	4.5	.4
7	53	36	24	19	17	16	9.7	38	20	200	2.9	1.0
8	50	36	24	18	16	19	10	1,270	20	487	1.4	1.3
9	48	28	24	17	16	19	10	1,600	18	256	1.0	1.3
10	45	25	22	17	16	21	10	728	16	116	.7	1.4
11	41	22	22	18	16	19	10	1,020	16	29	.6	1.5
12	38	21	21	18	16	20	10	85	20	18	.6	1.4
13	32	22	21	18	16	17	11	56	16	14	.5	1.3
14	28	22	21	17	16	15	11	46	16	12	.4	1.4
15	28	22	21	17	16	15	10	39	16	11	.4	2.2
16	27	22	21	18	16	14	135	37	14	9.7	.4	66
17	27	21	21	18	16	13	1,220	34	14	9.7	.3	
18	26	22	20	18	16	13	235	52	14	9.1	.3	
19	26	21	21	19	16	13	59	94	14	8.6	.3	
20	26	21	21	19	16	13	34	170	14	8.6	.3	1,040
21	83	21	21	18	16	13	141	100	13	8.0	.3	
22	39	21	21	18	16	13	1,210	144	13	8.0	.3	
23	33	21	21	18	16	13	170	61	13	10	.3	
24	37	21	21	18	16	13	130	45	12	8.6	.3	
25	58	21	21	18	17	13	46	166	12	6.4	.3	
26	80	39	20	18	16	12	30	591	14	4.2	.3	3,750
27	49	68	20	17	16	12	31	570	11	11	.3	
28	94	127	19	17	15	11	306	473	9.1	8.6	.3	
29	50	61	20	18	15	11	56	261	8.6	5.3	.3	
30	32	53	20	19	-	11	28	121	9.1	4.2	.3	
31	27	-	20	19	-	11	-	67	-	3.5	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,457	94	26	47.0	2,890
November	945	127	21	31.5	1,870
December	689	34	19	22.2	1,370
Calendar year 1935	117,258.3	11,000	4.8	321	232,600
January	567	20	17	18.3	1,120
February	477	19	15	16.4	946
March	450	21	11	14.5	893
April	3,984.1	1,220	9.7	133	7,900
May	9,140	1,600	16	295	18,130
June	606.8	77	8.6	20.2	1,200
July	1,369.9	487	3.5	44.2	2,720
August	37.8	8.6	.3	1.22	75
September	33,612.7	-	.3	1,120	66,670
Water year 1935-36	53,336.3	-	.3	146	105,800

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. Zero of gage is 1,174.55 feet above mean sea level.

Drainage area.- 3,974 square miles.

Records available.- December 1923 to September 1936.

Average discharge.- 12 years (1924-36), 312 second-feet.

Extremes.- Maximum discharge during year, 14,400 second-feet Sept. 29 (gage height, 28.52 feet); no flow Aug. 1 to Sept. 15.
1923-36: Maximum discharge, 33,600 second-feet Sept. 10, 1932 (gage height, 35.09 feet); no flow at times.
Maximum stage known, about 38.0 feet in 1900.

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

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	67	59	97	22	24	19	3.0	106	230	0.6		0
2	56	44	73	21	25	18	2.2	62	140	.4		0
3	50	34	67	20	26	16	1.9	516	91	.3		0
4	45	28	47	21	25	17	2.2	372	99	.2		0
5	41	24	40	22	24	17	2.8	268	62	1.2		0
6	38	31	35	21	22	15	2.5	739	40	780		0
7	36	27	26	21	21	18	2.2	329	25	1,410		0
8	34	79	21	20	21	21	2.0	304	18	514		0
9	33	78	16	18	16	20	1.9	947	13	497		0
10	32	53	17	18	16	19	1.9	1,650	11	566		0
11	32	42	18	17	17	18	1.9	890	8.1	233		0
12	31	37	16	17	20	20	2.4	1,120	8.1	151		0
13	30	29	18	19	19	19	5.4	383	9.8	81		0
14	29	25	18	18	16	18	4.6	141	7.0	46		0
15	29	24	18	18	16	17	3.4	87	5.4	29		0
16	29	23	17	19	17	14	2.7	64	33	21		112
17	27	23	16	21	19	11	2.2	49	34	14		197
18	26	23	15	18	16	12	492	37	20	10		410
19	26	23	14	19	15	11	548	139	12	7.6		2,450
20	26	23	14	18	13	9.8	172	2,560	7.6	5.8		3,720
21	25	24	53	18	13	7.6	97	761	5.4	4.2		1,480
22	25	25	54	20	14	6.2	54	303	3.4	3.4		1,200
23	26	25	50	21	17	5.8	657	155	2.5	2.8		609
24	58	24	36	21	19	5.0	458	286	2.0	2.4		755
25	94	25	27	21	22	5.0	157	160	1.4	2.0		1,360
26	78	27	25	19	24	5.0	138	112	1.2	1.4		3,600
27	104	31	21	19	23	4.2	92	410	1.0	1.2		9,820
28	125	32	21	18	21	3.8	137	740	1.0	1.0		12,100
29	91	65	21	19	21	5.0	261	1,210	.9	.5		11,700
30	74	133	20	21	-	6.2	208	1,200	.7	.3		3,320
31	100	-	21	21	-	5.0	-	557	-	.1		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,517	125	25	48.9	3,010
November	1,140	133	23	38.0	2,260
December	952	97	14	30.7	1,890
Calendar year 1935	209,917.1	18,200	.2	575	416,300
January	606	22	17	19.5	1,200
February	562	26	13	19.4	1,110
March	388.6	21	3.8	12.5	771
April	3,516.2	657	1.9	117	6,970
May	16,657	2,560	37	537	33,040
June	893.5	230	.7	29.8	1,770
July	4,387.4	1,410	.1	142	8,700
August	0	0	0	0	0
September	52,833	12,100	0	1,761	104,800
Water year 1935-36	83,452.7	12,100	0	228	165,500

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.

Records available.- July 1928 to September 1936.

Extremes.- Maximum discharge during year, 20,000 second-feet Sept. 29 (gage height, 26.60 feet); no flow at times.
1928-36: 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 except those for Jan. 24 to Mar. 17, which are fair and were estimated on basis of once-daily reading on former gage at Crystal Falls. Large part of ordinary flow diverted above station for municipal use and mining. Low-water flow partly regulated by dams above gage.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	71	106	24			2.3	187	432	0		0
2	60	57	92	22			2.3	223	215	0		0
3	46	44	66	22			2.3	4,740	148	1.0		0
4	41	34	63	22		13	2.3	2,590	106	3.1		0
5	36	24	57	22			3.1	381	57	445		0
6	34	349	49	20			2.3	252	74	2,740		0
7	32	211	49	20			1.5	694	52	1,260		0
8	32	63	36	22			.5	2,210	39	1,290		0
9	32	59	34	22			.5	2,090	29	373		0
10	148	84	24	22			.5	1,420	22	500		0
11	166	60	20	20			.5	1,440	16	382		0
12	57	49	18	18		18	1.0	775	32	195		0
13	36	44	18	18			1.0	962	106	132		0
14	29	44	18	14			1.0	278	46	71		0
15	29	39	16	14			1.0	144	41	44		0
16	27	34	16	16			1.0	95	41	29		1,070
17	27	32	16	16			.5	71	22	16		8,530
18	27	32	16	16		12	.5	63	36	11		7,800
19	24	29	16	18		12	469	442	34	8.3		2,390
20	27	29	16	20		9.7	377	1,010	24	5.5		2,750
21	29	27	16	20		9.7	175	2,250	16	4.7		3,130
22	29	27	16	18		9.7	92	524	12	4.7		1,470
23	29	27	52	18		12	54	378	9.7	3.9		898
24	36	27	54			9.7	704	764	5.5	1.5		470
25	333	27	49			6.9	313	419	3.9	0		955
26	372	29	39			5.5	152	219	3.1	0		1,560
27	178	32	32	13		5.5	152	651	3.1	0		8,810
28	121	32	29			4.7	88	4,260	2.3	0		17,200
29	121	32	27			3.9	113	3,010	.5	0		16,800
30	92	34	24		-	3.9	215	1,710	0	0		12,400
31	63	-	24		-	3.1	-	1,080	-	0		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,408	372	24	77.7	4,780
November	1,682	349	24	56.1	3,340
December	1,108	106	16	35.7	2,200
Calendar year 1935	293,205.6	15,700	0	803	581,600
January	548	24	-	17.7	1,090
February	377	-	-	13.0	748
March	384.3	-	3.1	12.4	762
April	2,928.1	704	.5	97.6	5,810
May	35,332	4,740	63	1,140	70,080
June	1,628.1	432	0	54.3	3,230
July	7,522.7	2,740	0	243	14,920
August	0	0	0	0	0
September	86,233	17,200	0	2,874	171,000
Water year 1935-36	140,151.2	17,200	0	383	278,000

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. Zero of gage is 622.7 feet above mean sea level (general adjustment of 1929).

Drainage area.- 974 square miles.

Records available.- November 1923 to September 1936.

Average discharge.- 13 years, 168 second-feet.

Extremes.- Maximum discharge during year, 34,700 second-feet Sept. 27 (gage height, 19.8 feet, at crest); minimum, 0.4 second-foot Sept. 14.
1923-36: Maximum discharge, 38,300 second-feet May 18, 1935 (gage height, 21.3 feet, from floodmarks); no flow at times.

Remarks.- Records good except those above 10,000 second-feet, which are fair. Discharge during periods of material change in stage determined from graph drawn on basis of gage readings. During floods gage was read several times a day with peak stages noted, at other times gage was read twice daily. Railway company pumps about 100,000 gallons a day from lake formed by control dam a third of a mile below gage.

Rating table, water year 1935-36 (gage-height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 1 to Sept. 30)

0.3	0.4	1.00	89	3.50	2,750	9.0	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
.80	40	3.00	2,000	8.00	12,700	18.0	31,000
						20.0	35,150

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	258	76	81	47	37	18	40	263	11	3.7	0.7
2	21	181	73	78	47	35	17	35	207	25	3.7	.7
3	18	181	67	76	47	33	17	28	162	14	3.7	.6
4	18	171	65	73	44	32	15	20	149	12	3.7	.6
5	17	153	62	67	44	32	14	18	132	12	3.7	.6
6	15	144	256	65	42	32	13	17	109	11	3.1	.6
7	13	136	253	62	40	32	12	15	92	18	3.1	.6
8	11	123	157	62	40	32	11	454	84	21	3.1	.5
9	8.5	113	106	60	40	32	11	1,730	78	17	3.1	.5
10	39	119	96	58	38	32	11	1,170	67	15	3.1	.5
11	35	360	96	58	37	32	11	321	62	14	3.1	.5
12	32	212	92	53	33	30	11	120	55	12	3.1	.5
13	30	153	89	49	32	30	11	96	49	9.4	2.6	.5
14	28	136	89	47	33	28	11	78	44	9.4	2.6	.4
15	26	127	86	44	33	26	9.4	60	40	8.5	2.6	22
16	18	123	84	44	33	26	141	49	37	7.6	2.0	2,320
17	13	123	84	44	32	25	1,340	37	35	6.6	2.0	3,990
18	11	120	78	42	30	23	234	25	30	5.7	1.8	1,120
19	9.4	109	76	42	30	21	81	20	26	5.7	1.8	138
20	8.5	103	73	40	32	20	44	17	20	4.8	2.0	49
21	7.6	92	70	40	32	20	33	13	20	4.2	2.0	35
22	96	86	89	40	32	17	26	28	23	113	1.8	26
23	12,200	81	84	40	32	20	23	323	20	63	1.8	26
24	3,700	81	84	40	32	21	20	5,060	20	25	1.7	37
25	381	76	78	38	32	21	17	1,560	17	18	1.7	239
26	252	89	76	38	42	21	15	3,290	15	14	1.7	2,700
27	494	162	73	40	37	21	14	7,290	14	9.4	1.4	26,700
28	409	113	67	40	37	23	51	3,560	13	5.7	1.1	9,400
29	229	89	67	40	37	20	144	1,040	12	4.2	1.0	608
30	312	84	65	40	-	20	44	608	11	4.2	.8	302
31	996	-	65	42	-	18	-	329	-	3.7	.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19,478	12,200	7.6	628	38,630
November	4,098	360	76	137	8,130
December	2,876	256	62	92.8	5,700
Calendar year 1935	124,935.7	26,500	1.0	342	247,900
January	1,583	81	38	51.1	3,140
February	1,067	47	30	36.8	2,120
March	812	37	17	26.2	1,610
April	2,419.4	1,340	9.4	80.6	4,800
May	27,451	7,290	13	886	54,450
June	1,906	263	11	63.5	3,780
July	504.1	113	3.7	16.3	1,000
August	73.4	3.7	.8	2.37	146
September	47,719.8	26,700	.4	1,591	94,650
Water year 1935-36	109,987.7	26,700	.4	301	218,200

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 1936 (discontinued).

Extremes.- Maximum discharge during year, 16,000 second-feet Dec. 6 (gage height, 16.46 feet); no flow at times.
1934-36: Maximum discharge, that of Dec. 6, 1935; no flow at times.

Remarks.- Records good. Discharge partly estimated from fragmentary gage-height record Jan. 6-8 and Sept. 3-16. Daily discharge applied to hundredths when flow was below 1.0 second-foot. No diversions.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.7	6.2	6.8	28	10	6.5	2.3	4.1	25	87	0.92	1.6
2	5.6	6.5	6.2	25	12	15	2.0	3.6	22	13	.76	.12
3	5.2	6.5	5.9	22	12	10	1.5	2.8	19	4.4	.75	0
4	4.6	7.0	6.8	20	10	8.0	1.8	2.4	17	272	.73	0
5	4.3	19	8.4	20	7.2	7.4	2.1	2.0	14	1,190	.60	0
6	4.1	93	5,810	20	9.8	5.9	1.8	1.6	14	36	.50	0
7	4.0	19	641	16	12	5.6	1.4	1.4	12	14	.40	0
8	3.8	16	119	24	9.6	5.0	1.4	1.7	10	9.3	.34	0
9	3.8	15	73	19	8.5	5.0	1.8	62	9.5	7.4	.22	0
10	3.7	14	59	17	8.8	4.8	2.2	366	9.0	6.4	.16	0
11	4.2	12	52	16	8.8	4.6	2.0	17	8.1	5.6	.12	0
12	4.0	10	61	16	9.4	3.9	1.7	7.8	7.5	4.8	.07	0
13	3.8	11	46	15	9.6	3.9	1.6	5.2	6.8	4.5	.05	0
14	3.4	11	41	14	8.4	5.0	1.4	3.8	6.2	36	.04	0
15	3.0	10	35	15	7.4	4.6	1.3	3.3	5.0	13	.01	.25
16	2.7	12	32	14	7.4	3.6	1.3	2.9	4.6	5.7	0	5.2
17	2.6	10	32	14	8.4	3.2	2.0	3.0	4.2	4.6	0	61
18	2.4	10	30	13	6.0	3.1	2.7	2.6	3.6	4.0	0	3.0
19	14	10	29	10	7.4	3.3	1.6	2.4	3.2	3.2	0	.67
20	4.0	9.2	26	12	8.0	3.2	1.4	2.3	3.0	2.8	0	.06
21	3.0	8.4	27	13	8.4	3.0	1.4	2.0	2.8	2.5	0	.02
22	2.7	8.0	36	13	7.7	3.1	2.1	6.3	2.4	3.7	0	0
23	32	7.1	28	12	7.4	3.2	2.4	63	2.0	2.6	0	0
24	44	7.1	25	12	7.4	3.4	1.8	146	2.0	2.5	0	0
25	10	7.4	24	11	7.4	2.7	1.4	539	1.9	2.2	0	0
26	7.1	8.2	22	11	7.4	2.7	1.3	264	1.4	2.0	0	0
27	103	18	22	9.6	9.6	2.8	1.2	222	1.3	1.7	0	117
28	16	10	24	9.6	7.4	2.5	563	127	1.2	1.6	0	749
29	8.1	7.9	23	11	6.5	2.4	20	226	1.3	1.4	0	22
30	7.0	7.1	20	12	-	2.4	6.4	37	3.1	1.4	.11	14
31	6.2	-	32	10	-	2.3	-	28	-	1.2	2.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	329.0	103	2.4	10.6	653
November	396.6	93	6.2	13.2	786
December	7,403.1	5,810	5.9	239	14,680
Calendar year 1935	25,212.34	5,810	0	69.1	50,010
January	474.2	28	9.6	15.3	941
February	249.9	12	6.0	8.62	496
March	142.1	15	2.3	4.58	282
April	636.3	563	1.2	21.2	1,260
May	2,158.2	539	1.4	69.6	4,280
June	223.1	25	1.2	7.44	443
July	1,746.5	1,190	1.2	56.3	3,460
August	8.10	2.3	0	.26	16
September	973.92	749	0	32.5	1,930
Water year 1935-36	14,741.02	5,810	0	40.3	29,230

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. Zero of gage is 476.9 feet above mean sea level (general adjustment of 1929).

Drainage area.- 3,547 square miles.

Records available.- October 1923 to September 1936.

Average discharge.- 13 years, 500 second-feet.

Extremes.- Maximum discharge during year, by slope-area method, 51,100 second-feet Sept. 28 (gage height, 20.0 feet); minimum, 24 second-feet Sept. 12, 13.
1923-36: Maximum discharge, that of Sept. 28, 1936; no flow at times.
Highest known stages, 21.0 feet September 1921 and about 25 feet December 1913.

Remarks.- Records good except those below 200 second-feet and above 16,000 second-feet, which are fair. Several small pumping plants divert water above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	674	605	398	504	234	177	105	213	5,970	595	124	38
2	586	554	398	488	234	177	101	154	5,190	384	110	35
3	529	463	382	455	234	183	101	134	3,960	422	101	32
4	463	422	382	430	234	177	101	129	3,640	359	92	29
5	406	406	382	406	220	172	105	129	2,650	2,960	84	32
6	398	3,210	10,800	390	220	172	105	120	1,570	818	115	38
7	455	1,430	6,970	375	220	166	105	110	1,200	538	101	38
8	343	940	3,500	367	220	160	105	569	1,010	406	88	35
9	320	760	1,730	367	207	166	105	1,900	904	328	76	32
10	382	683	1,360	359	207	160	105	3,610	823	234	76	29
11	375	700	1,190	351	200	160	96	1,360	743	318	76	26
12	335	632	1,100	343	194	154	96	886	674	588	64	24
13	328	717	1,010	328	200	154	96	734	614	430	60	26
14	282	614	956	313	194	154	92	640	563	320	56	29
15	254	605	850	305	194	160	92	512	521	275	53	230
16	240	631	787	305	189	166	110	343	488	247	50	1,790
17	227	597	751	297	189	166	172	254	447	220	44	1,190
18	220	554	726	282	183	160	115	207	422	194	41	422
19	213	521	700	267	177	160	105	177	390	172	41	364
20	200	*492	648	254	177	154	101	160	398	149	38	1,820
21	194	463	648	254	177	143	344	143	398	160	38	2,580
22	189	447	665	254	177	143	282	193	367	169	38	2,720
23	1,130	422	648	254	177	143	183	3,510	328	649	38	2,790
24	1,000	406	597	254	172	138	143	9,990	343	282	38	3,080
25	1,220	390	563	254	177	134	129	7,920	305	529	38	3,560
26	2,250	422	554	247	183	134	129	9,190	260	234	50	5,180
27	3,080	631	521	240	177	129	129	14,100	240	160	53	23,600
28	3,640	488	521	227	177	115	3,380	11,200	227	220	72	39,300
29	2,700	455	512	234	183	115	469	11,700	213	166	64	13,200
30	958	398	479	240	-	110	328	7,690	220	134	50	8,540
31	708	-	521	234	-	110	-	6,580	-	120	44	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	24,301	3,640	189	784	48,200
November	20,256	3,210	390	675	40,180
December	41,251	10,800	382	1,331	81,820
Calendar year 1935	372,316.6	16,700	4.6	1,020	738,500
January	9,878	504	227	319	19,590
February	5,727	234	172	197	11,360
March	4,712	183	110	152	9,350
April	7,629	3,380	92	254	15,130
May	94,547	14,100	110	3,050	187,500
June	35,078	5,970	213	1,169	69,560
July	12,800	2,960	120	413	25,390
August	2,013	124	38	64.9	3,990
September	110,809	39,300	24	3,694	219,600
Water year 1935-36	369,003	39,300	24	1,008	731,900

*Interpolated.

Little River at Cameron, Tex.

Location.- Water-stage recorder, lat. 30°50', long. 96°57', at old McCowan bridge 2,100 feet above Cameron-Rockdale highway bridge and 2 miles southeast of Cameron, Milam County. Zero of gage is 281.9 feet above mean sea level (general adjustment of 1929).

Drainage area.- 7,034 square miles.

Records available.- November 1916 to September 1936.

Average discharge.- 19 years (1917-36), 1,774 second-feet.

Extremes.- Maximum discharge during year, 150,000 second-feet Sept. 29 (gage height, 38.75 feet), from rating curve extended above 84,000 second-feet; minimum, 163 second-feet Sept. 13-15 (gage height, 3.95 feet).

1916-36: Maximum discharge, by slope-area method, 647,000 second-feet, Sept. 10, 1921 (gage height, about 53.2 feet, present datum, from floodmarks); minimum, 2.6 second-feet Sept. 3, 5, 7, 1918.

Remarks.- Records good. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,690	1,500	725	1,790	745	593	399	5,190	15,900	15,300	498	285
2	2,140	1,140	685	1,870	745	935	384	1,300	12,000	15,400	471	267
3	1,780	1,060	665	1,600	745	1,560	366	669	9,930	10,700	452	249
4	1,540	985	645	1,450	726	1,490	359	536	8,390	6,850	449	238
5	1,420	965	645	1,370	707	954	355	464	6,950	4,280	426	221
6	1,260	865	3,180	1,300	688	688	348	418	6,020	6,990	407	206
7	1,180	1,660	13,500	1,220	726	612	341	392	4,820	6,270	388	193
8	1,140	3,340	27,200	1,180	763	574	334	359	3,620	2,850	388	188
9	1,100	2,380	20,400	1,180	726	574	331	992	3,050	1,600	380	188
10	1,020	1,460	10,500	1,140	669	553	334	5,460	2,730	1,300	355	186
11	965	1,260	4,920	1,110	650	536	334	9,430	2,490	1,110	341	179
12	1,000	1,340	3,790	1,110	631	536	338	9,020	3,700	954	334	170
13	1,000	1,100	3,830	1,070	631	517	331	4,220	2,370	1,030	301	165
14	925	1,100	3,090	1,030	631	498	324	1,940	1,980	1,180	295	163
15	885	1,000	2,650	992	612	517	314	1,940	1,830	1,030	288	165
16	825	925	2,410	954	593	498	308	1,300	1,680	897	276	1,220
17	785	925	2,180	935	593	498	324	935	1,520	1,030	273	5,830
18	765	925	2,020	916	574	487	352	745	1,450	1,410	267	8,480
19	1,100	885	1,940	878	574	479	449	650	1,330	916	261	7,070
20	1,820	845	1,870	840	574	471	574	593	1,260	745	252	3,770
21	845	825	1,790	821	553	460	460	536	1,180	688	244	1,640
22	745	785	1,750	821	553	460	411	517	1,110	954	241	2,610
23	685	745	1,870	821	553	456	517	1,370	1,070	1,940	238	3,090
24	605	725	1,830	821	553	456	517	6,420	1,030	1,870	227	3,210
25	2,780	705	1,640	802	553	449	430	33,400	992	1,260	224	3,330
26	2,500	705	1,520	783	593	437	370	60,300	954	992	219	3,540
27	2,220	685	1,490	764	764	422	321	43,300	897	897	219	4,470
28	3,020	745	1,450	745	707	418	992	59,800	621	669	232	6,220
29	3,700	905	1,410	745	631	414	5,250	42,700	783	593	301	80,000
30	3,960	785	1,410	745	-	407	6,810	27,200	764	593	317	60,300
31	3,020	-	1,410	745	-	403	-	22,200	-	536	334	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	50,640	3,980	685	1,634	100,400
November	33,270	3,340	685	1,109	65,990
December	124,415	27,200	645	4,013	246,800
Calendar year 1935	1,030,263	70,800	65	2,823	2,043,000
January	32,548	1,870	745	1,050	64,560
February	18,783	783	553	648	37,260
March	18,352	1,560	403	592	36,400
April	23,277	6,810	308	776	46,170
May	344,296	60,300	359	11,110	682,900
June	102,621	15,900	764	3,421	203,500
July	92,834	15,400	536	2,995	184,100
August	9,898	498	219	319	19,630
September	199,843	80,000	163	6,661	396,400
Water year 1935-36	1,050,777	80,000	163	2,871	2,084,000

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 1936.

Average discharge.- 12 years, 220 second-feet.

Extremes.- Maximum discharge during year, 53,200 second-feet Sept. 28 (gage height, 33.5 feet, from floodmarks), from rating curve extended above 40,000 second-feet; minimum, 25 second-feet Apr. 27, Sept. 14 (gage height, 2.92 feet).

1924-36: Maximum discharge, that of Sept. 28, 1936; 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 33.6 feet (revised); flood of September 1873 reached a stage of about 44.2 feet (present datum).

Remarks.- Records good except those for May 23-27, Aug. 18 to Sept. 13, Sept. 15-17, computed on basis of partial gage-height record, floodmarks, rainfall data, and comparison with records for Leon River at Belton, and those above 40,000 second-feet, which are fair. Small diversion above station for municipal uses.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	218	76	60	218	101	83	40	135	1,590	223	83	
2	199	72	54	204	101	83	37	97	1,310	204	72	
3	176	72	51	199	101	101	37	79	1,120	213	63	
4	163	69	51	180	97	86	35	66	970	605	60	
5	146	66	51	176	90	79	35	57	860	1,100	54	
6	138	979	4,030	168	86	76	32	51	779	440	48	
7	131	320	1,610	163	86	72	30	42	702	233	48	30
8	123	163	589	159	86	72	30	3,570	624	194	45	
9	116	123	436	159	83	72	30	3,710	576	159	42	
10	142	101	379	159	83	72	30	3,410	529	138	40	
11	127	86	367	159	83	69	30	434	488	127	37	
12	116	76	373	150	83	63	30	243	449	119	37	
13	108	76	336	146	83	63	30	250	410	112	35	
14	101	76	313	138	79	63	28	243	385	112	35	25
15	90	72	285	135	79	60	28	172	348	119	35	
16	86	72	269	135	79	57	28	131	319	131	32	5,230
17	79	69	259	135	79	54	364	112	290	123	32	
18	114	69	254	127	76	54	157	97	274	112		980
19	127	69	243	119	72	51	72	86	254	101		347
20	83	66	233	119	72	51	51	86	230	94		199
21	79	63	228	116	72	48	42	90	228	507		138
22	72	60	248	116	72	48	35	94	214	564		112
23	1,670	57	238	116	72	48	32		199	315		94
24	460	57	218	112	72	48	30	8,030	271	259	38	83
25	228	54	209	112	72	48	28		204	142		131
26	155	72	199	108	83	48	26		185	108		2,100
27	116	79	194	104	94	48	25	11,100	163	94		24,200
28	101	72	194	104	90	45	8,550		159	83		25,600
29	90	72	189	104	83	42	710	4,850	155	79		2,060
30	79	66	180	101	-	40	237	2,520	155	72		1,370
31	76	-	228	101	-	40	-	1,900	-	66		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,709	1,670	72	184	11,320
November	3,424	979	54	114	6,790
December	12,568	4,030	51	405	24,930
Calendar year 1935	153,556.4	20,800	5.0	421	304,500
January	4,342	218	101	140	8,610
February	2,409	101	72	83.1	4,760
March	1,884	101	40	60.8	3,740
April	10,869	8,550	25	362	21,560
May	79,915	-	42	2,578	158,500
June	14,448	1,590	155	482	28,660
July	6,948	1,100	66	224	13,780
August	1,368	-	-	44.1	2,710
September	73,599	25,600	25	2,453	146,000
Water year 1935-36	217,483	25,600	25	594	431,400

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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 1¾ miles northeast of Georgetown, Williamson County. Zero of gage is 643.34 feet above mean sea level.

Drainage area.- 415 square miles.

Records available.- July 1934 to September 1936. Comparable records, except for extremely low flow, at former station 1 mile upstream February 1924 to August 1925.

Extremes.- Maximum discharge during year, 32,400 second-feet Sept. 16 (gage height, 17.70 feet); minimum, 3.2 second-feet Sept. 16 (caused by operation of swimming pool); minimum daily discharge, 19 second-feet Sept. 12, 13.

1924-25, 1934-36: Maximum discharge, that of Sept. 16, 1936; minimum, 1.4 second-feet Sept. 20, 1934.

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

Remarks.- Records excellent. Small diversions have small affect on low flow.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	172	97	50	251	108	67	47	29	564	454	47	25
2	159	78	48	206	108	112	45	28	507	191	45	24
3	150	76	49	189	105	186	44	27	464	129	44	23
4	141	77	48	179	101	107	42	26	427	139	44	23
5	123	72	52	175	96	91	43	25	397	205	40	22
6	128	70	6,610	170	113	80	40	23	374	194	40	22
7	122	69	944	162	129	77	39	22	344	121	38	22
8	131	70	422	163	107	75	39	1,390	308	125	36	21
9	119	70	328	162	98	75	40	366	308	113	35	21
10	118	69	266	158	95	74	40	480	268	105	46	20
11	133	67	320	153	92	71	39	138	262	99	21	20
12	114	62	362	150	92	67	38	64	259	96	30	19
13	108	61	290	145	92	66	36	65	240	92	30	19
14	114	61	265	141	89	67	34	169	225	89	30	25
15	99	65	237	139	83	65	33	65	208	85	29	1,700
16	95	64	227	137	80	63	34	45	195	134	28	6,900
17	91	62	225	135	79	60	40	38	183	135	28	473
18	94	61	220	131	77	59	44	36	172	95	28	499
19	204	60	211	123	75	59	36	33	163	83	27	216
20	110	58	197	123	75	58	34	31	157	76	27	139
21	92	57	213	126	76	57	33	30	151	74	26	110
22	87	54	248	125	74	56	35	43	141	92	25	96
23	97	53	211	122	72	58	32	1,000	135	76	25	86
24	120	52	187	120	71	56	24	4,470	131	68	24	79
25	111	52	182	117	70	54	22	4,460	123	65	25	87
26	97	53	179	114	76	54	28	2,550	113	61	24	151
27	91	75	172	110	93	53	28	10,300	109	58	24	12,000
28	86	64	177	113	80	50	42	2,090	107	55	23	1,490
29	84	55	172	115	70	49	37	1,020	110	53	23	626
30	77	51	163	115	-	49	30	770	251	51	23	469
31	78	-	328	104	-	48	-	639	-	49	25	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,545	204	77	114	7,030
November	1,937	97	51	64.6	3,840
December	13,643	6,610	48	440	27,060
Calendar year 1935	76,815.2	8,110	-	210	152,300
January	4,475	251	104	144	8,880
February	2,576	129	70	88.8	5,110
March	2,163	186	48	69.8	4,290
April	1,098	47	22	36.6	2,180
May	30,472	10,300	22	983	60,440
June	7,396	564	107	247	14,670
July	3,462	454	49	112	6,870
August	960	47	21	31.0	1,900
September	25,427	12,000	19	848	50,430
Water year 1935-36	97,154	12,000	19	265	192,700

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 June 1936 (discontinued).

Extremes.- Maximum discharge during period Oct. 1, 1935, to June 30, 1936, 14,200 second-feet Dec. 6 (gage height, 17.82 feet); minimum daily discharge, 1.6 second-feet Apr. 27 (gage height, 0.73 foot).
1934-36: Maximum discharge, 15,700 second-feet June 15, 1935 (gage height, 18.05 feet); no flow at times.

Remarks.- Records good. Discharge determined by using rate of change in stage as a factor. No diversions.

Discharge, in second-feet, water year October 1935 to June 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	14	13	42	12	7.5	3.3	4.5	31			
2	9.5	15	12	34	15	8.2	3.1	4.3	23			
3	9.3	15	12	28	14	8.6	2.7	3.9	20			
4	8.5	14	14	23	12	8.5	2.9	3.4	18			
5	8.0	13	15	24	9.3	7.8	3.1	3.1	17			
6	7.5	123	4,520	23	14	6.9	2.5	2.6	16			
7	9.0	30	316	22	14	6.8	2.0	2.3	15			
8	8.6	24	133	30	12	6.8	2.1	27	13			
9	8.0	24	96	24	9.6	6.7	2.9	124	13			
10	7.5	22	82	22	9.9	6.5	2.9	856	12			
11	9.3	18	79	21	10	5.8	2.4	22	10			
12	7.8	17	89	21	12	5.2	2.5	13	10			
13	7.3	17	68	19	11	5.4	2.2	20	9.5			
14	6.1	17	62	18	9.5	6.2	1.9	9.1	8.1			
15	5.4	20	50	18	8.2	5.8	1.9	7.2	7.0			
16	5.1	18	48	16	9.0	5.0	7.7	6.5	6.3			
17	4.9	17	46	16	11	4.3	27	6.0	5.8			
18	5.5	17	44	15	8.2	4.5	4.5	5.8	5.2			
19	14	18	40	13	8.4	4.6	2.9	6.3	4.8			
20	5.4	15	33	15	9.3	4.3	2.4	4.9	4.5			
21	5.0	15	41	15	9.5	4.4	2.4	4.2	4.2			
22	4.7	14	56	15	8.8	4.4	2.2	4.5	3.8			
23	26	13	39	14	8.4	4.6	2.2	8.4	3.4			
24	61	13	31	14	8.4	4.2	2.0	87	3.5			
25	18	13	33	13	8.5	3.8	1.9	437	3.2			
26	15	14	28	13	11	4.0	1.7	462	2.6			
27	86	44	27	11	10	4.0	1.6	386	2.6			
28	20	16	32	12	8.2	3.7	838	183	2.5			
29	15	13	28	13	7.4	3.6	13	179	2.9			
30	15	13	24	14	-	3.5	6.0	48	3.6			
31	13	-	59	12	-	3.4	-	37	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	437	86	4.7	14.1	868
November	636.0	123	13	21.2	1,260
December	6,170	4,520	12	199	12,200
Calendar year 1935	25,546.04	4,520	0	70.0	50,630
January	590	42	11	19.0	1,170
February	298.6	15	7.4	10.3	592
March	169.0	8.6	3.4	5.45	335
April	953.9	838	1.6	31.8	1,890
May	2,968.0	856	2.3	95.7	5,890
June	281.5	31	2.5	9.38	558
July	-	-	-	-	-
August	-	-	-	-	-
September	-	-	-	-	-
The period					24,760

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 1936 (discontinued).

Extremes.- Maximum discharge during year, about 27,600 second-feet Dec. 6 (gage height, 15.90 feet); no flow Aug. 22-31 and Sept. 9-15.
1934-36: Maximum discharge, that of Dec. 6, 1935; no flow at times.

Remarks.- Records good except those above 10,000 second-feet and those estimated, which are fair. Discharge July 1-6 estimated from flood peak, rainfall, and by comparison with discharge for Big Elm Creek near Temple. Daily discharge applied to hundredths, when flow was below 1.0 second-foot. Discharge determined by using rate of change in stage as a factor. No diversions.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	21	17	99	20	13	5.6	14	55	179	2.4	3.2
2	18	23	17	56	22	13	4.9	10	45		1.9	2.3
3	15	22	15	46	23	15	4.5	9.5	40	156	1.6	1.2
4	13	22	16	40	22	15	3.9	8.1	34		1.6	.57
5	12	20	16	34	18	14	4.5	6.7	30	2,320	1.4	.26
6	11	69	9,730	36	16	13	4.5	5.4	28		1.4	.07
7	11	73	5,050	32	22	12	4.0	4.5	24	98	1.1	.03
8	12	36	333	40	19	12	3.2	4.3	20	22	.95	.01
9	12	32	170	40	17	12	3.6	60	20	16	.79	0
10	10	33	130	35	16	12	4.2	1,620	19	14	.61	0
11	11	28	106	34	17	11	4.9	245	17	12	.52	0
12	12	24	141	32	17	9.8	4.2	33	16	11	.46	0
13	10	24	120	31	18	8.7	3.9	21	16	10	.35	0
14	9.6	24	91	28	17	9.8	3.6	32	14	9.0	.28	0
15	8.0	23	73	28	15	10	3.2	16	14	12	.17	0
16	7.7	28	60	28	14	9.4	21	12	12	18	.28	2.8
17	7.4	24	59	27	16	8.4	123	12	12	17	.14	147
18	7.4	23	59	26	16	7.7	21	11	10	11	.12	21
19	15	23	57	23	13	7.7	8.0	10	9.5	8.5	.04	6.0
20	12	22	50	22	14	8.0	5.0	12	8.1	7.4	.01	2.6
21	6.0	20	47	24	16	7.7	6.3	9.8	7.8	7.1	.01	1.4
22	7.7	19	76	25	16	7.7	11	19	7.4	6.3	0	.79
23	8.0	18	68	24	15	7.7	5.3	26	7.1	6.7	0	.58
24	78	17	48	23	14	8.0	4.3	310	6.7	6.0	0	.42
25	36	17	43	22	14	7.8	3.6	1,210	6.7	5.6	0	.42
26	22	18	46	22	21	7.7	3.3	1,570	6.0	4.9	0	.44
27	59	35	38	20	22	7.7	3.1	1,300	4.9	4.5	0	88
28	115	31	41	19	17	7.4	1,440	2,320	4.5	3.9	0	935
29	28	20	44	21	14	6.7	465	450	4.7	3.5	0	139
30	23	18	37	23	-	6.0	25	111	5.7	3.1	0	30
31	22	-	65	23	-	5.7	-	71	-	2.8	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	639.8	115	7.4	20.6	1,270
November	827	89	17	27.6	1,640
December	16,867	9,730	15	544	33,460
Calendar year 1935	50,697.45	9,730	0	139	100,600
January	983	99	19	31.7	1,950
February	501	23	13	17.3	994
March	301.6	15	5.7	9.73	598
April	2,207.6	1,440	3.1	73.6	4,380
May	9,543.3	2,320	4.3	308	18,930
June	505.1	55	4.5	16.8	1,000
July	5,630.3	-	2.8	182	11,170
August	16.13	2.4	0	.52	32
September	1,383.09	935	0	46.1	2,740
Water year 1935-36	39,404.92	9,730	0	108	78,160

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 October 1936 (discontinued).

Extremes.- Maximum discharge during period Oct. 1, 1935, to Oct. 14, 1936, by slope-area method, 3,540 second-feet Dec. 6 (gage height, 8.90 feet); no flow at times.
1934-36: Maximum discharge, that of Dec. 6, 1935; no flow at times.

Remarks.- Records good below and poor above 1,000 second-feet. Discharge interpolated Jan. 19-24. Daily discharge applied to hundredths when flow was below 1.0 second-foot. No diversions.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	3.7	0	0.31	0	1.9	1.4	374		
2			0	1.7	0	.30	0	.87	.72	239		
3			0	1.0	0	1.4	0	.42	.39	104		
4			0	.64	0	.66	0	.22	.22	532		
5			0	.40	0	.51	0	.09	.12	485		
6			1,060	.30	0	.28	0	.03	.03	28		
7			445	.26	0	.18	0	.01	.01	41		
8			17	.20	0	.10	0	.01	0	3.5		
9			4.4	.11	0	.06	0	.21	0	1.1		
10			1.8	.08	0	.05	0	169	0	.47		
11			1.4	.07	0	.02	0	49	0	.22		
12			3.0	.06	0	.01	0	3.4	0	.10		
13			2.7	.05	0	.01	0	1.5	0	.03		
14			1.4	.08	0	.01	0	.70	0	.01		
15			.64	.07	0	0	0	.34	0	.01		
16			.37	.06	0	0	0	.18	0	0		
17			.27	.05	0	0	45	.07	0	0		
18			.19	.03	0	0	3.7	.04	0	0		
19			.14	.04	0	0	1.7	.02	0	0		
20			.06	.02	0	0	.36	.01	0	0		
21			.06	.02	0	0	3.8	0	0	0		
22			.15	.02	0	0	6.1	0	0	0		
23			.07	.01	0	0	2.4	0	0	0		
24			.05	.01	0	0	.82	14	0	0		
25			.28	.01	0	0	.32	192	0	0		
26			.26	.01	0	0	.14	441	0	0		
27			.18	0	1.8	0	.06	376	0	0		
28			.16	0	1.4	0	161	694	0	0		
29			.10	0	.59	0	134	87	0	0		
30			.06	0	-	0	4.6	8.9	0	0		
31			.51	0	-	0	-	3.0	-	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	1,540.25	1,060	0	49.7	3,060
Calendar year 1935	7,252.99	1,160	0	19.9	14,390
January	9.00	3.7	0	.29	18
February	3.79	1.8	0	.13	7.5
March	3.90	1.4	0	.13	7.7
April	364.00	161	0	12.1	722
May	2,043.92	694	0	65.9	4,050
June	2.89	1.4	0	.096	5.7
July	1,858.44	532	0	59.9	3,690
August	0	0	0	0	0
September	0	0	0	0	0
Water year 1935-36	5,826.19	1,060	0	15.9	11,560

Discharge, in second-feet, Oct. 1-14, 1936

Oct. 1	0	Oct. 6	0	Oct. 11	0.29
2	0	7	37	12	.14
3	0	8	21	13	.04
4	0	9	2.4	14	.01
5	0	10	.74		

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 1936.

Average discharge.- 12 years, 342 second-feet.

Extremes.- Maximum discharge during year, 23,500 second-feet May 25 (gage height, 15.17 feet), from rating curve extended above 16,900 second-feet; minimum, 1.8 second-feet Aug. 30.

1924-36: Maximum discharge observed, 33,600 second-feet May 30, 1929 (gage height, 16.7 feet, present datum), from rating curve extended above 16,700 second-feet; no flow at times.

Remarks.- Records good. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	17	24	152	21	24	10	52	1,660	1,260	50	9.5
2	36	13	18	91	22	29	9.5	60	1,450	9,240	36	10
3	28	43	14	60	25	33	8.6	60	1,210	16,400	28	45
4	20	14	11	55	25	36	8.0	38	802	10,600	23	38
5	15	29	10	52	25	37	7.5	24	277	6,560	19	23
6	11	17	39	45	48	68	6.9	15	134	4,270	16	13
7	8.6	15	1,070	40	141	120	6.2	9.3	88	2,610	14	7.8
8	7.1	12	2,000	36	149	116	5.8	6.8	65	1,640	12	5.5
9	6.1	10	2,320	32	107	148	5.6	5.2	52	1,350	11	4.0
10	5.5	10	1,650	29	97	84	5.5	14	44	882	9.3	3.0
11	4.9	12	1,170	27	85	50	5.2	33	38	554	8.9	2.5
12	4.9	21	1,090	26	64	39	4.9	111	32	328	7.8	2.2
13	4.5	21	1,060	24	51	33	4.6	140	28	155	7.1	2.5
14	3.7	15	922	23	43	31	4.8	142	24	154	6.4	6.2
15	3.4	12	561	22	37	28	4.9	132	21	120	5.6	22
16	3.0	10	350	21	33	25	5.5	56	23	148	5.0	27
17	2.7	8.9	246	21	30	21	15	28	22	294	4.4	38
18	2.5	7.8	140	21	27	19	20	18	16	336	3.9	11
19	2.6	7.1	87	19	25	17	18	14	13	277	3.5	4.9
20	142	6.2	62	18	23	16	33	11	11	169	3.1	28
21	167	5.8	52	17	22	15	45	14	9.1	113	3.4	54
22	96	5.4	52	16	21	14	81	10	8.0	64	3.6	40
23	94	4.6	49	16	21	13	79	128	7.1	46	3.6	25
24	79	4.1	47	16	21	13	30	7,040	6.2	104	3.7	35
25	50	4.0	45	17	21	12	17	22,600	5.5	246	3.9	36
26	34	6.8	43	16	24	12	32	18,900	4.8	428	4.1	26
27	26	213	39	16	29	13	36	16,600	4.1	446	4.2	36
28	20	240	37	17	27	12	43	9,390	3.7	568	4.1	274
29	16	86	35	19	24	11	84	5,260	3.5	626	2.1	150
30	15	34	33	20	-	11	112	3,910	3.9	298	2.0	39
31	15	-	92	20	-	11	-	2,550	-	103	8.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	985.5	167	2.5	31.8	1,950
November	904.7	240	4.0	30.2	1,790
December	13,368	2,320	10	431	26,520
Calendar year 1935	139,773.6	7,930	0	383	277,200
January	1,004	152	16	32.4	1,990
February	1,288	149	21	44.4	2,550
March	1,111	148	11	35.8	2,200
April	748.5	112	4.6	25.0	1,480
May	87,371.3	22,600	5.2	2,818	173,300
June	6,265.9	1,860	3.5	209	12,430
July	60,589	16,400	46	1,954	120,200
August	317.1	50	2.0	10.2	629
September	1,018.1	274	2.2	33.9	2,020
Water year 1935-36	174,971.1	22,600	2.0	478	347,100

Navasota River near Easterly, Tex.

Location.- Water-stage recorder, lat. 31°10'0", long. 96°18'0", 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 1936.

Average discharge.- 12 years, 430 second-feet.

Extremes.- Maximum discharge during year, 37,100 second-feet Dec. 7 (gage height, 20.29 feet), from rating curve extended above 12,000 second-feet; minimum, 2.0 second-feet Sept. 13. 14.

1924-36: Maximum discharge, about 48,500 second-feet Sept. 5, 1932 (gage height, 21.9 feet), from rating curve extended above 12,000 second-feet; no flow at times.

Remarks.- Records fair. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	58	293	181	135	43	78	24	398	953	3,330	18	4.4
2	31	120	123	140	45	69	22	420	774	20,800	16	4.0
3	20	74	74	135	48	64	21	167	231	15,400	14	3.8
4	15	53	54	112	50	385	24	78	95	7,800	13	3.4
5	12	45	45	96	49	593	24	52	63	4,260	11	3.0
6	9.4	67	4,950	87	52	272	21	38	48	2,980	10	2.7
7	8.0	66	33,600	77	56	151	18	29	40	2,530	9.4	2.4
8	7.1	79	27,800	70	55	110	17	30	33	1,550	8.6	2.2
9	6.7	362	13,600	66	52	90	17	192	29	840	7.8	2.2
10	12	404	8,060	63	49	77	17	975	25	400	6.7	2.2
11	8.0	435	4,280	61	46	67	18	1,490	23	352	6.3	2.2
12	6.5	1,190	2,000	60	44	60	17	1,880	20	132	6.0	2.0
13	219	1,110	713	59	44	55	17	1,520	18	86	5.7	2.0
14	222	597	352	60	44	57	17	1,370	16	79	5.2	5.7
15	70	204	281	60	43	57	21	562	13	425	4.9	14
16	36	102	227	58	41	53	23	148	12	450	4.8	19
17	25	67	170	56	40	48	68	84	11	198	4.4	24
18	19	52	142	54	39	43	31	58	9.9	101	4.2	20
19	16	45	124	52	38	37	23	148	8.6	60	4.0	14
20	19	40	109	50	37	34	19	120	7.8	44	3.7	9.0
21	27	36	102	48	37	31	26	209	7.1	35	3.6	7.3
22	58	33	104	48	36	29	65	203	6.3	31	3.3	11
23	817	30	113	47	37	30	72	170	5.9	37	3.2	14
24	1,830	27	116	46	38	35	44	123	5.4	44	3.4	12
25	4,420	26	111	46	39	35	35	278	4.9	26	4.8	10
26	3,620	27	100	45	51	34	28	586	4.2	84	5.2	10
27	2,920	69	89	44	71	32	24	543	3.8	103	4.9	12
28	2,860	257	81	42	98	29	44	564	3.6	59	4.8	43
29	2,080	275	76	41	94	27	108	1,360	3.4	38	5.7	39
30	1,610	233	75	42	-	26	131	1,440	3.6	28	9.0	23
31	829	-	112	42	-	25	-	1,150	-	22	6.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	21,890.7	4,420	6.5	706	43,420
November	6,418	1,190	26	214	12,730
December	97,964	33,600	45	3,160	194,300
Calendar year 1935	343,855.0	33,600	1.2	942	682,000
January	2,042	140	41	65.9	4,050
February	1,416	98	36	48.8	2,810
March	2,733	593	25	88.2	5,420
April	1,036	131	17	34.5	2,050
May	16,385	1,880	29	529	32,500
June	2,478.7	953	3.4	82.6	4,920
July	62,344	20,800	22	2,011	123,700
August	217.6	18	3.2	7.02	432
September	323.5	43	2.0	10.8	642
Water year 1935-36	215,248.5	33,600	2.0	588	427,000

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 1936.

Extremes.- Maximum daily discharge during year, 272 second-feet June 21; no flow several months.
1931-36: Maximum daily discharge, 278 second-feet July 9, 10, 1932; no flow several months each year.

Remarks.- Records fair. Daily discharge Apr. 13-16, May 5-23, July 19, 20, Aug. 7-31, Sept. 7-13 determined from Brazos Valley Irrigation Co.'s pumping record. 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. Flow shown is water actually diverted from Brazos River by pumping.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	0	0	81	110	0
2							0	0	0	39	109	0
3							0	0	0	0	108	0
4							0	0	0	0	108	0
5							0	61	0	0	107	0
6							0	111	9.4	32	106	0
7							0	111	124	0	106	26
8							0	121	126	0	106	103
9							53	158	124	32	106	103
10							105	42	126	130	100	54
11							104	0	118	106	100	51
12							104	90	117	125	100	51
13							111	101	172	87	100	51
14							111	62	250	0	100	0
15							111	69	182	66	100	0
16							86	8.8	182	0	100	0
17							0	93	181	0	100	0
18							0	125	174	0	100	0
19							0	125	172	93	100	0
20							0	125	178	151	100	0
21							0	125	272	200	100	0
22							0	103	192	192	100	0
23							0	1.2	162	114	20	0
24							0	0	115	0	103	0
25							0	0	154	0	77	0
26							0	0	45	0	51	0
27							0	0	44	97	77	0
28							0	0	65	80	51	0
29							0	0	102	110	51	0
30							0	0	151	112	51	0
31							-	0	-	112	32	-

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 1935	8,404	168	0	23.0	16,680
January	0	0	0	0	0
February	0	0	0	0	0
March	0	00	0	0	0
April	785	111	0	26.2	1,560
May	1,632	158	0	52.6	3,240
June	3,537.4	272	0	118	7,020
July	1,959	200	0	63.2	3,890
August	2,779	110	20	89.6	5,510
September	439	103	0	14.6	871
Water year 1935-36	11,131.4	272	0	30.4	22,090

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 diversion, and 1½ miles west of Richmond, Fort Bend County.
Records available.- October 1931 to September 1936.
Extremes.- 1931-36: Maximum discharge not determined; no flow at times.
Remarks.- No flow during year.

COLORADO RIVER BASIN

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 1,593.94 feet above mean sea level (general adjustment of 1929).
Drainage area.- 16,840 square miles, of which about 11,500 square miles is probably noncontributing.
Records available.- December 1915 to September 1936.
Average discharge.- 21 years, 434 second-feet.
Extremes.- Maximum discharge during year, 75,400 second-feet Sept. 18 (gage height, 28.6 feet); minimum, 0.4 second-foot Aug. 14 and 15.
1915-36: Maximum discharge, that of Sept. 18, 1936; no flow at times.
Maximum stage known, about 36.0 feet in 1884, present site and datum. Maximum stage, about 32.0 feet Aug. 6, 1906, present site and datum (affected by backwater from Elm Creek).
Remarks.- Records good except those for Dec. 27-30, Jan. 19 to Feb. 27, which were computed on the basis of range in stage indicated by recorder when clock was stopped and are fair. Small diversions for irrigation above station affect low flow.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	220	70	247	25	17	12	10	38	642	3.8	14	2.0
2	171	59	164	25	16	14	7.7	28	530	3.0	9.3	1.7
3	136	56	120	23	16	15	7.7	20	364	3.0	6.6	1.5
4	113	51	91	22	16	15	7.7	18	246	5.1	4.2	1.5
5	97	46	82	20	16	18	8.5	13	142	7.8	3.4	1.5
6	85	65	79	22	16	17	7.2	10	103	1,310	2.7	1.1
7	76	48	73	20	15	26	7.2	8.5	73	575	2.0	.9
8	70	41	62	19	15	2,080	8.5	125	56	114	1.1	1.1
9	65	36	56	19	15	896	9.3	108	46	104	.7	1.1
10	59	34	54	19	14	230	8.5	38	36	85	.9	.9
11	85	30	46	20	14	107	8.5	22	41	48	.7	.9
12	70	28	41	19	14	65	9.3	16	43	32	.6	.7
13	54	28	36	19	13	43	9.3	11	54	30	.5	.6
14	48	28	32	18	13	34	7.7	208	65	70	.5	.7
15	46	28	30	18	13	28	9.3	75	48	51	.7	7,760
16	41	34	28	18	13	25	9.3	32	57	34	.9	2,540
17	38	43	26	18	13	22	9.3	61	123	25	1.3	48,200
18	36	41	25	18	12	19	14	67	65	18	1.3	54,300
19	36	36	26	17	12	18	10	173	41	14	1.1	6,120
20	34	34	28	17	12	16	7.2	41	28	10	.7	2,080
21	34	32	26	17	12	16	7.2	28	20	7.2	.6	864
22	32	30	26	17	12	14	6.6	25	16	5.5	.6	576
23	109	28	25	17	12	14	6.1	1,380	14	4.6	.6	7,150
24	380	26	25	17	12	13	5.0	1,610	13	4.6	.7	8,900
25	140	26	23	17	12	12	5.0	645	14	3.4	.7	3,160
26	107	34	25	17	12	12	74	698	15	3.0	.7	10,500
27	76	290	23	17	12	11	116	829	7.2	2.7	15	28,300
28	62	260	25	17	11	9.3	76	946	5.0	15	19	14,300
29	85	267	25	17	11	9.3	88	672	4.2	41	6.6	7,370
30	97	391	26	17	-	9.3	59	700	4.2	32	3.4	2,050
31	85	-	26	17	-	9.3	-	2,060	-	22	2.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,787	380	32	89.9	5,530
November	2,220	391	26	74	4,400
December	1,621	247	23	52.3	3,220
Calendar year 1935	395,090	33,400	.4	1,080	783,700
January	583	25	17	18.8	1,160
February	391	17	11	13.5	776
March	3,829.2	2,080	9.3	124	7,600
April	619.1	116	5.0	20.6	1,230
May	10,705.5	2,060	8.5	345	21,230
June	2,915.6	642	4.2	97.2	5,780
July	2,683.7	1,310	2.7	86.6	5,320
August	103.3	19	.5	3.33	205
September	204,186.2	54,300	.6	6,806	405,000
Water year 1935-36	232,644.6	54,300	.5	636	461,500

Colorado River near San Saba, Tex.

Location.- Water-stage recorder, lat. 31°12'45", long. 98°34'0", 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 1936. October 1915 to October 1922 at site near Chadwick, 1.6 miles upstream. October 1923 to December 1934 at station near Tow, 44 miles upstream.

Extremes.- Maximum discharge during year, by slope-area method, 219,000 second-feet Sept. 21 (gage height, 56.7 feet, from floodmarks); minimum, 40 second-feet Sept. 13.

1915-22, 1930-36: Maximum discharge, that of Sept. 21, 1936; maximum stage for flood of Apr. 26, 1922 (erroneous day in previous water-supply papers), 54.0 feet, present datum (discharge, 181,000 second-feet, from rating curve extended above 120,000 second-feet on basis of slope-area measurement of flood of Sept. 21, 1936); minimum discharge, 1.5 second-feet Aug. 22, 23, 1918.

Maximum stage known, about 57.5 feet, present datum, Sept. 25, 1900 (discharge, 234,000 second-feet, from rating curve extended above 120,000 second-feet on basis of slope-area measurement of flood of Sept. 21, 1936).

Remarks.- Records good. Daily discharge Sept. 20-26, 28-30 determined from graph based on twice-daily or more gage readings. Diversions above station for irrigation and municipal use.

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

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,420	738	627	351	224	189	136	255	1,410	237	305	62
2	1,170	708	768	346	224	171	125	186	2,410	152	300	56
3	1,010	714	843	346	220	164	122	171	1,400	139	282	60
4	912	714	696	337	216	158	122	178	1,040	130	278	58
5	861	1,090	638	328	216	155	117	164	945	460	282	56
6	830	1,510	616	319	274	148	111	155	758	2,170	282	54
7	1,980	1,330	673	310	244	142	130	152	532	3,230	278	52
8	851	861	565	305	208	148	130	234	432	6,600	274	48
9	843	708	488	300	228	164	125	700	369	3,110	269	46
10	1,010	532	447	333	220	1,430	125	796	323	1,490	265	46
11	1,170	510	412	422	204	1,610	125	428	291	960	212	42
12	912	604	412	427	196	849	122	328	269	696	122	42
13	849	582	384	408	189	522	122	282	248	554	92	40
14	775	571	365	360	182	384	120	236	4,130	510	75	44
15	756	537	365	319	178	310	120	637	2,490	576	69	284
16	738	548	356	278	178	261	117	552	624	526	60	7,700
17	702	543	346	265	175	228	128	366	360	822	58	46,200
18	571	576	337	253	168	208	133	274	291	2,050	54	55,600
19	483	696	427	248	171	189	237	733	257	1,090	54	66,900
20	610	702	510	244	178	178	214	616	232	668	56	96,800
21	610	690	576	240	178	171	164	472	208	354	54	202,000
22	644	627	621	236	175	164	139	356	189	265	52	125,000
23	4,880	588	787	236	175	164	133	2,040	186	1,920	50	49,000
24	9,310	565	799	236	175	155	133	2,660	178	1,970	50	6,970
25	2,800	548	756	236	175	164	136	3,520	161	704	83	6,070
26	1,760	543	627	232	182	248	130	11,100	325	521	109	12,200
27	1,490	565	504	232	189	287	128	11,400	360	412	80	26,900
28	1,080	560	427	240	261	228	184	9,040	275	365	69	63,900
29	912	543	393	257	220	182	498	6,000	182	360	60	56,600
30	824	537	365	236	-	155	538	2,830	188	342	54	97,500
31	781	-	356	228	-	145	-	1,520	-	319	62	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	43,544	9,310	483	1,405	86,370
November	20,540	1,510	510	685	40,740
December	16,486	843	337	532	32,700
Calendar year 1935	1,352,431	75,700	63	3,705	2,683,000
January	9,108	427	228	294	18,070
February	5,823	274	168	201	11,550
March	9,671	1,610	142	312	19,180
April	4,864	538	111	162	9,650
May	58,381	11,400	152	1,883	115,800
June	21,063	4,130	161	702	41,780
July	33,702	6,600	130	1,087	66,850
August	4,390	305	50	142	8,710
September	920,330	202,000	40	30,680	1,825,000
Water year 1935-36	1,147,902	202,000	40	3,136	2,276,000

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 (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 1936.

Average discharge.- 38 years, 2,713 second-feet.

Extremes.- Maximum discharge during year, 234,000 second-feet Sept. 28 (gage height, 31.40 feet); minimum daily discharge, 154 second-feet Sept. 9.
1898-1936: Maximum discharge, 481,000 second-feet June 15, 1935 (gage height, 41.2 feet from floodmarks on gage structure at downstream side of bridge pier. Maximum gage height from U. S. Weather Bureau wire-weight gage located on downstream side of bridge at center of first span from left bank, 42.00 feet. Both gages to same datum); minimum, 13 second-feet Aug. 18, 1918.

Remarks.- Records good. Gage-height record obtained from once-daily reading of U. S. Weather Bureau gage July 31 and Sept. 7-13. About 36,000 acres irrigated above station. Low-water flow affected by diversions of the Austin pumping plant. Flow partly regulated by dams on tributaries upstream.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,670	1,780	1,130	1,170	654	564	490	708	6,720	23,600	1,210	2,280
2	3,890	1,620	1,080	1,270	688	608	470	738	4,420	9,960	1,080	986
3	3,100	1,490	1,060	1,240	700	700	385	564	3,520	4,280	975	432
4	2,580	1,420	1,050	1,060	688	1,000	385	688	3,400	3,210	906	285
5	2,290	1,340	1,210	990	642	1,060	404	574	3,280	2,210	762	199
6	2,070	1,530	4,480	933	712	879	368	452	2,520	1,780	700	160
7	1,910	1,580	12,900	906	725	788	317	394	2,110	1,490	631	166
8	1,820	2,030	5,760	866	762	725	278	404	1,860	2,040	1,130	173
9	1,760	2,270	3,640	866	738	666	278	2,220	1,780	3,050	1,570	154
10	2,520	2,070	2,470	866	738	596	334	6,220	1,710	6,660	1,530	160
11	1,910	1,760	2,050	838	775	554	317	2,680	1,710	5,060	1,410	186
12	1,690	1,490	1,840	800	750	512	334	1,930	1,640	3,000	1,300	186
13	1,760	1,340	1,820	800	712	703	317	1,820	1,570	2,170	1,290	199
14	1,900	1,170	1,710	800	700	2,030	317	1,600	1,530	1,690	1,250	278
15	1,750	1,160	1,490	933	642	1,620	326	1,240	1,710	1,360	1,160	7,380
16	1,620	1,220	1,340	990	642	1,290	351	1,000	2,010	15,300	975	90,500
17	1,490	1,210	1,220	946	620	946	342	852	5,950	19,800	750	115,000
18	1,490	1,160	1,160	892	564	825	334	738	3,070	9,040	585	97,800
19	1,480	1,110	1,110	762	554	762	351	688	1,840	4,130	461	84,000
20	1,580	1,130	1,080	762	554	642	360	712	1,290	3,400	385	70,500
21	1,420	1,130	1,060	725	543	574	376	620	1,050	3,640	351	74,800
22	1,170	1,220	1,060	666	470	543	360	543	879	3,310	285	111,000
23	1,060	1,300	1,130	642	543	532	326	825	775	4,600	232	127,000
24	1,270	1,290	1,250	654	574	470	308	8,720	688	2,820	206	74,300
25	3,540	1,220	1,320	666	532	452	394	16,400	631	2,150	212	21,800
26	10,300	1,190	1,360	654	554	470	423	26,000	564	3,020	199	11,800
27	5,000	1,140	1,420	631	532	442	368	56,200	470	2,940	199	73,800
28	2,840	1,130	1,420	631	532	404	385	63,800	432	1,910	217	166,000
29	2,430	1,140	1,360	631	564	404	351	20,500	414	1,670	212	81,400
30	2,150	1,110	1,220	762	-	394	334	15,700	842	1,530	468	66,100
31	1,880	-	1,140	631	-	404	-	10,400	-	1,320	428	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	77,340	10,300	1,060	2,495	153,400
November	41,750	2,270	1,110	1,392	82,810
December	63,340	12,900	1,050	2,043	125,600
Calendar year 1935	2,617,193	323,000	120	7,170	5,192,000
January	25,983	1,270	631	838	51,540
February	18,404	775	470	635	36,500
March	22,559	2,030	394	728	44,750
April	10,683	490	278	356	21,190
May	245,930	63,800	394	7,933	487,800
June	60,385	6,720	414	2,013	119,800
July	152,140	23,600	1,320	4,908	301,800
August	23,069	1,570	199	744	45,760
September	1,279,024	166,000	154	42,630	2,537,000
Water year 1935-36	2,020,607	166,000	154	5,521	4,008,000

Evaporation at Austin, Tex.

Location.- Standard class A weather bureau station, lat. 30°16', long. 97°44', in State Capitol grounds, at Austin, Travis County. Evaporation pan is 544 feet above mean sea level.

Records available.- June 1930 to September 1936. April 1916 to June 1930 at Hill ranch, 5 miles southeast of present station.

Equipment.- One standard class A Weather Bureau 4-foot circular land 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 United States Weather Bureau.

Evaporation at Austin, Tex., 1935-36

Month	Temperature			Mean relative humidity (percent)	Average wind velocity (miles per hour)	Rainfall (inches)	Evaporation (inches)
	Mean maximum	Mean minimum	Mean				
October	83.4a	60.9a	72.2a	68	0.8	1.24	*5.500
November	69.3	46.8	58.0	68	1.2	1.01	2.407
December	58.4b	41.0c	49.7b	70	1.2	3.07	1.856
Calendar year 1935	78.8	57.5	68.2	66	1.3	44.62	60.796
January	60.8a	35.6a	48.2a	57	1.3	0.47	2.300
February	60.6e	33.4a	47.0c	63	1.7	1.68	2.636
March	77.3	50.8a	64.0	55	1.6	1.30	5.602
April	80.7	53.9	67.3	53	2.0	0.72	6.451
May	83.9a	64.9a	74.4a	70	1.3	8.15	5.528
June	94.3a	71.7a	83.0a	58	1.3	0.80	8.931
July	92.0b	72.4b	82.2b	68	1.1	11.77	7.821
August	96.0a	72.5a	84.2a	61	0.8	3.03	8.091
September	89.5a	70.5a	80.0a	72	1.2	6.05	5.668
Water year 1935-36	78.8	56.2	67.5	64	1.3	39.29	62.791

*Partly estimated.

Note.- Relative humidity values are for regular United States 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 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 noncontributing.

Records available.- July 1930 to September 1936.

Extremes.- Maximum discharge during year, 148,000 second-feet Sept. 29 (gage height, 31.2 feet); minimum, 390 second-feet Sept. 13.

1930-36: Maximum discharge, 305,000 second-feet June 16, 1935 (gage height, 42.5 feet, from floodmarks) (slope-area determination); minimum, 76 second-feet Nov. 2, 1934.

Maximum stage known, about 47.4 feet in December 1913.

Remarks.- Records good except those for Oct. 13-25, June 11-13, July 10-14, July 20 to Aug. 25, which were computed from graph plotted from once-daily readings of U. S. Weather Bureau gage and are fair. Diversions above station for irrigation and municipal uses. Low flow partly regulated by reservoirs upstream.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,510	2,310	1,290	1,380	825	706	578	490	8,940	30,000	1,600	748
2	5,500	2,050	1,250	1,330	832	713	590	470	6,410	42,400	1,510	626
3	4,400	2,000	1,250	1,380	839	940	602	674	5,100	16,400	1,170	881
4	3,690	1,820	1,250	1,420	867	1,460	614	797	4,110	6,300	946	734
5	3,060	1,780	1,210	1,330	839	1,380	572	899	3,830	5,340	1,090	602
6	2,790	1,690	1,560	1,250	860	1,290	590	762	3,830	4,700	946	530
7	2,550	1,690	5,190	1,170	888	1,210	560	692	3,270	3,060	930	505
8	2,370	1,820	9,710	1,130	970	1,090	542	608	2,790	2,990	930	475
9	2,200	1,850	5,260	1,090	874	1,010	495	578	2,490	2,730	867	450
10	2,150	2,370	3,860	1,090	860	962	490	646	2,250	3,830	783	440
11	2,430	2,250	3,060	1,050	832	916	465	4,630	2,050	5,180	720	421
12	2,430	2,490	3,480	1,050	832	839	465	2,850	1,920	5,020	720	403
13	2,000	1,820	2,420	1,010	853	811	460	2,050	1,790	3,830	620	394
14	1,920	1,690	2,000	970	853	755	450	1,780	1,690	3,060	584	416
15	1,870	1,560	1,920	962	804	1,030	455	1,510	1,560	2,490	620	480
16	1,780	1,420	1,740	970	811	1,600	470	1,250	1,380	10,000	692	11,200
17	1,780	1,420	1,560	1,050	797	1,380	490	1,090	1,290	22,800	755	64,500
18	1,820	1,420	1,460	1,130	790	1,170	480	923	2,820	15,500	699	86,000
19	2,050	1,420	1,380	1,050	755	1,050	475	825	2,990	8,140	632	92,400
20	2,250	1,380	1,330	1,010	734	923	465	734	2,150	4,550	566	85,300
21	2,100	1,330	1,290	946	727	874	480	734	1,780	3,480	500	73,600
22	2,000	1,330	1,250	946	713	783	505	846	1,460	3,550	455	73,600
23	1,870	1,330	1,250	909	685	741	490	1,150	1,250	3,550	455	88,600
24	1,740	1,420	1,210	867	650	734	470	15,200	1,130	6,140	475	113,000
25	1,690	1,420	1,290	860	664	706	445	26,100	1,050	4,550	480	92,600
26	2,390	1,420	1,380	867	706	664	440	16,300	954	2,610	500	21,200
27	7,660	1,460	1,420	853	869	626	460	37,800	902	2,430	490	14,800
28	5,260	1,330	1,510	853	888	620	525	51,300	860	2,850	490	72,900
29	3,520	1,290	1,560	846	741	608	515	28,800	825	2,250	536	138,000
30	2,850	1,290	1,510	846	-	596	510	16,800	867	1,740	475	107,000
31	2,550	-	1,460	832	-	584	-	12,600	-	1,600	530	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	87,180	7,660	1,690	2,812	172,900
November	49,870	2,490	1,290	1,662	98,920
December	67,310	9,710	1,210	2,171	133,500
Calendar year 1935	2,630,414	219,000	246	7,207	5,218,000
January	32,447	1,420	832	1,047	64,360
February	23,358	970	650	805	46,330
March	28,771	1,600	584	928	57,070
April	15,148	614	440	505	30,050
May	231,888	51,300	470	7,474	459,500
June	73,728	8,940	825	2,458	146,200
July	233,070	42,400	1,600	7,518	462,300
August	22,766	1,600	455	734	45,160
September	1,142,805	138,000	394	38,090	2,267,000
Water year 1935-36	2,008,141	138,000	394	5,487	3,983,000

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. 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 1936. Comparable records at Columbus, 18 miles upstream, January 1903 to December 1911, May 1916 to November 1930.

Extremes.- Maximum discharge during year, 102,000 second-feet Sept. 26 (gage height, 23.02 feet); minimum, 570 second-feet Apr. 16.

1930-36: Maximum discharge, 177,000 second-feet June 19, 1935 (gage height, 29.45 feet); minimum not determined.

Maximum stage known, about 32.0 feet, on present gage, in December 1913.

Remarks.- Records good except those for Oct. 4-24, which were estimated on basis of U. S. Weather Bureau gage-height record at Columbus and are poor. Discharge June 5 and July 8-11 computed on basis of partial gage-height record. 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 flow diverted through canal.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6,140	3,400	1,470	2,900	992	992	752	664	16,100	11,700	2,310	874
2	5,920	3,070	1,420	2,270	992	928	703	637	11,800	62,500	2,040	790
3	6,600	2,820	1,420	1,780	992	895	686	615	9,050	66,100	1,850	835
4	5,700	2,500	1,360	1,590	960	928	698	590	7,080	27,600	1,750	862
5	4,900	2,270	1,360	1,590	928	992	730	600	5,880	14,000	1,610	890
6	4,200	2,120	1,420	1,590	1,020	1,420	714	780	5,140	8,800	1,470	920
7	3,740	2,050	6,780	1,470	1,420	1,420	692	780	4,990	7,080	1,470	832
8	3,320	1,910	16,500	1,360	1,420	1,420	670	780	4,540	5,100	1,410	872
9	2,900	1,910	13,200	1,310	1,130	1,310	676	608	3,920	4,290	1,370	823
10	2,990	2,050	7,800	1,260	1,100	1,220	664	808	3,570	3,670	1,300	757
11	3,240	2,270	7,360	1,260	1,020	1,100	648	736	3,220	3,440	1,270	713
12	2,420	2,820	10,600	1,220	1,020	1,060	615	1,470	2,890	4,500	1,300	697
13	2,580	2,740	6,840	1,170	992	1,020	600	3,920	2,600	6,070	1,240	615
14	2,420	2,740	4,500	1,170	960	992	590	2,740	2,400	4,810	1,210	712
15	2,270	2,120	3,150	1,130	960	960	580	2,200	2,200	3,980	1,120	695
16	2,340	1,840	2,660	1,130	960	895	585	1,840	1,980	9,810	1,120	734
17	2,340	1,720	2,420	1,100	928	951	648	1,530	1,880	26,800	1,100	10,900
18	2,120	1,590	2,120	1,060	895	1,470	1,020	1,310	1,800	23,500	1,070	49,400
19	2,580	1,590	1,980	1,100	895	1,420	780	1,180	1,720	16,300	950	65,800
20	3,480	1,590	1,780	1,130	895	1,260	642	1,020	3,220	10,100	977	76,800
21	3,150	1,530	1,720	1,130	895	1,130	626	928	3,090	6,470	950	83,400
22	2,580	1,470	1,650	1,100	865	1,060	781	865	2,450	4,690	923	83,400
23	2,340	1,470	1,590	1,060	865	992	895	1,100	2,080	4,370	884	78,600
24	2,200	1,420	1,530	1,060	865	928	698	57,200	1,710	5,030	851	81,000
25	1,980	1,420	1,470	1,020	865	895	637	84,700	1,500	8,090	840	89,800
26	1,840	1,530	1,420	992	865	865	610	66,800	1,480	5,870	769	99,200
27	1,840	2,800	1,420	960	835	835	585	33,000	1,370	4,120	768	67,500
28	5,900	3,480	1,530	992	835	808	600	42,300	1,330	3,240	750	30,900
29	6,840	2,120	1,590	992	895	780	714	48,500	1,230	3,310	734	62,800
30	4,700	1,650	1,650	992	-	774	698	39,000	1,190	3,230	739	88,600
31	3,830	-	2,270	992	-	764	-	22,400	-	2,670	778	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	109,400	6,840	1,840	3,529	217,000
November	64,010	3,480	1,420	2,134	127,000
December	113,980	16,500	1,360	3,677	226,100
Calendar year 1935	2,784,089	164,000	297	7,628	5,523,000
January	39,880	2,900	960	1,286	79,100
February	28,264	1,420	835	975	56,060
March	32,484	1,470	764	1,048	64,430
April	20,537	1,020	580	685	40,730
May	421,801	84,700	590	13,610	836,600
June	113,410	16,100	1,190	3,780	224,900
July	371,240	66,100	2,670	11,980	736,300
August	36,923	2,310	734	1,191	73,240
September	980,721	99,200	615	32,690	1,945,000
Water year 1935-36	2,332,650	99,200	580	6,373	4,626,000

Elm Creek at Ballinger, Tex.

Location.- Water-stage recorder, lat. 31°45'0", 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 1936.

Extremes.- Maximum discharge during year, 8,600 second-feet Sept. 17 (gage height, 7.28 feet); no flow at times.
1932-36: Maximum discharge, about 26,100 second-feet Sept. 3, 1935 (gage height, 10.30 feet, from floodmarks, probably slightly affected by backwater from Colorado River), from rating curve extended above 15,000 second-feet; no flow at times.

Remarks.- Records poor below and good above 100 second-feet. Discharge estimated from fragmentary gage-height record and rainfall data Nov. 1-8, Feb. 15-27, Mar. 7 to Apr. 16. Low-water flow affected by diversions of the Ballinger city pumping plant.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.0	7.0	4.5	0.6	0.6	1.0	0	0	4.5	0		0
2	7.0	7.0	4.5	0	1.0	.4	0	0	.6	0		0
3	7.0	4.5	4.5	.1	.5	.6	0	0	.6	0		0
4	7.0	4.5	4.5	0	0	1.0	0	0	.6	22		0
5	7.0	2.5	4.5	.2	0	1.0	0	0	.4	104		0
6	7.0	2.5	4.5	.1	.4	1.0	0	0	0	743		0
7	4.5	4.5	4.5	.4	.6	1.5	0	0	0	210		0
8	4.5	4.5	4.5	.6	0	1.5	31	0	0	27		0
9	4.5	2.5	4.5	1.0	.2	1.0	47	0	0	7.0		0
10	4.5	1.0	4.5	.6	.6	.6	.8	0	0	4.5		0
11	21	0	2.5	1.0	.6	.4	0	0	0	1.5		0
12	16	.6	2.5	.4	.3	.2	0	0	0	1.0		0
13	7.0	2.5	2.5	.3	0	.1	0	0	0	.4		0
14	4.5	2.5	2.5	.3	0	0	0	0	0	0		0
15	4.5	2.5	2.5	.2	.6	0	0	0	0	0		0
16	4.5	2.5	2.5	.6	.6	0	0	0	0	20		622
17	4.5	4.5	1.5	.6	.6	0	0	0	0	7.1		6,450
18	2.5	4.5	1.5	.1	.6	0	0	0	0	.6		2,770
19	2.5	4.5	1.5	0	.6	0	0	13	0	.2		216
20	2.5	4.5	2.5	.6	.6	0	0	63	0	0		45
21	2.5	4.5	2.5	1.0	.6	0	0	16	0	0		21
22	1.0	4.5	1.5	1.0	.6	0	0	7.0	0	0		7.0
23	57	4.5	2.5	1.0	.6	0	0	78	0	34		2.9
24	33	4.5	2.5	1.0	.6	0	0	52	0	7.0		0
25	27	4.5	1.5	.6	.6	0	0	121	0	1.5		0
26	21	4.5	2.5	.4	.6	0	0	116	0	.4		465
27	21	4.5	2.5	.4	.6	0	0	321	0	0		891
28	16	2.5	0	.6	.6	0	0	143	0	0		464
29	16	4.5	0	.6	.6	0	0	201	0	0		59
30	11	4.5	.6	.6	-	0	0	45	0	0		11
31	11	-	1.0	1.0	-	0	-	16	-	0		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	346.0	57	1.0	11.2	686
November	112.1	7.0	0	3.74	222
December	84.1	4.5	0	2.71	167
Calendar year 1935	91,481.1	17,300	0	251	181,500
January	15.9	1.0	0	.51	32
February	13.8	-	0	.48	27
March	10.3	1.5	0	.33	20
April	78.8	47	0	2.63	156
May	1,192.0	321	0	38.5	2,360
June	6.7	4.5	0	.22	13
July	1,191.2	743	0	38.4	2,360
August	0	0	0	0	0
September	12,023.9	6,450	0	401	23,850
Water year 1935-36	15,074.8	6,450	0	41.2	29,890

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 2,010.22 feet (revised) above mean sea level (railway datum).

Drainage area.- 434 square miles.

Records available.- February 1930 to September 1936.

Extremes.- Maximum discharge in second-feet for the water years 1929-30, 1930-31, 1931-32.

1929-30: 24,300 second-feet June 15 (gage height, 13.7 feet).
1930-31: 76,400 second-feet Oct. 13 (gage height, 20.2 feet).
1931-32: 13,700 second-feet July 3 (gage height, 11.18 feet).

Maximum discharge during year, by slope-area method, 80,100 second-feet Sept. 17 (gage height, 20.5 feet); minimum, 3.0 second-feet Sept. 11-13.

1930-36: Maximum discharge, that of Sept. 17, 1936; minimum, 2.1 second-feet July 17-19, 26-29, Aug. 28 to Sept. 5, 1934.

Flood of Aug. 6, 1906, reached a stage about 2.5 feet higher than flood of Sept. 17, 1936, at a point 0.5 mile downstream from gage. Information regarding 1906 flood supersedes that previously published.

Remarks.- Records good except those above 10,000 second-feet, which are poor. Discharge Nov. 22 to Dec. 4 computed on basis of known range of stage. Low flow materially affected by diversions of irrigation canal 600 feet upstream. (See miscellaneous discharge measurements of canal.)

Daily discharge, in second-feet, for high-water periods in water years 1929-30, 1930-31, 1931-32

1930	
June 15	4,550
Oct. 5	1,810
6	2,120
13	19,500
14	1,810
1932	
May 10	877
July 3	1,920

Note.- Records for above periods not previously published because of lack of definition of rating curve.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	33	22	21	19	17	18	14	5.0	5.0	4.2	3.3
2	36	27	22	21	18	18	18	12	5.0	5.4	4.2	3.3
3	36	23	21	21	19	18	18	12	5.0	5.4	3.8	3.3
4	35	23	20	21	22	18	18	10	5.4	6.0	3.6	3.3
5	34	24	20	21	18	18	18	6.6	5.4	8.1	3.6	3.3
6	34	23	20	21	18	18	18	6.0	5.4	22	3.8	3.3
7	34	23	20	21	21	18	18	6.0	5.4	6.6	3.8	3.3
8	34	23	20	21	24	18	18	6.0	5.4	6.6	3.8	3.3
9	33	22	19	21	26	18	18	6.0	5.0	5.4	3.8	3.3
10	32	22	19	21	26	18	18	6.0	5.0	6.0	3.8	3.3
11	32	21	19	21	24	18	18	6.0	5.0	6.0	3.6	3.0
12	32	21	19	21	19	18	18	6.0	5.4	6.0	3.6	3.0
13	31	21	19	21	18	18	17	6.0	5.4	6.6	3.6	3.0
14	31	21	19	21	18	18	13	6.0	4.6	6.6	3.6	188
15	31	21	19	21	18	18	13	8.8	4.6	8.1	3.3	22,900
16	30	21	19	18	18	18	13	9.6	4.6	8.1	3.6	569
17	30	21	19	18	18	18	13	6.0	4.6	7.4	3.6	24,100
18	30	21	19	18	18	18	12	60	4.6	6.6	3.6	376
19	30	21	19	18	18	18	12	7.6	4.2	6.6	3.6	62
20	29	21	19	18	18	18	14	4.6	4.2	6.6	3.6	48
21	29	21	20	18	17	18	14	4.2	4.2	6.6	3.6	47
22	29	22	20	18	17	18	13	4.2	4.6	6.6	3.6	46
23	30	23	20	17	17	18	13	5.4	4.6	7.4	3.3	46
24	28	24	19	18	17	18	14	5.0	5.4	6.6	3.3	46
25	28	25	19	18	17	18	14	5.0	5.0	5.4	3.3	46
26	27	26	19	18	18	18	14	5.0	5.4	5.0	3.3	20,100
27	27	25	19	18	17	18	15	5.0	5.0	4.6	3.3	1,440
28	26	24	19	18	17	19	15	5.0	4.6	4.6	3.3	300
29	26	23	19	18	17	19	15	5.0	4.6	4.6	3.3	123
30	31	23	20	18	-	18	16	5.0	5.0	4.6	3.3	80
31	35	-	21	18	-	18	-	5.0	-	4.6	3.3	-

Discharge, in second-feet, of South Concho River at Christoval, Tex., 1929-32, 1935-36

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
March 1930	164.2	7.7	4.6	5.30	326
April	721.9	280	7.7	24.1	1,430
May	292.0	38	6.8	9.42	579
June	4,940.5	*4,550	4.6	*165	*9,800
July	226.7	12	3.6	7.31	449
August	147.3	5.9	3.6	4.75	292
September	122.0	4.6	3.0	4.07	242
The period	6,614.6	-	-	-	*13,120
October	26,375.6	*19,500	3.4	*851	*52,320
November	1,694	63	51	56.5	3,360
December	1,314	50	37	42.4	2,610
January	1,231	43	37	39.7	2,440
February	2,150	710	43	76.8	4,270
March	1,308	52	34	42.2	2,590
April	873	36	24	29.1	1,730
May	720	28	19	23.2	1,430
June	514	26	14	17.1	1,020
July	616	95	13	19.9	1,220
August	697	280	10	22.5	1,380
September	309	12	9.5	10.3	613
Water year 1930-31	37,801.6	*19,500	3.4	*104	*74,980
October	308.2	11	8.6	9.94	611
November	299.5	10	9.5	9.98	594
December	393	20	10	12.7	781
Calendar year 1931	9,418.7	710	86	25.8	18,680
January	585	22	16	18.9	1,160
February	422	19	9.5	14.6	840
March	495	19	12	16.0	984
April	359.1	30	8.6	12.0	714
May	2,065	*877	10	*66.6	*4,100
June	764	32	20	25.5	1,520
July	2,599	*1,920	16	*83.8	*5,160
August	495	56	10	16.0	984
September	1,655	388	23	55.2	3,280
Water year 1931-32	10,439.8	*1,920	8.6	*28.5	*20,730
October	966	36	26	31.2	1,920
November	689	33	21	23.0	1,370
December	608	22	19	19.6	1,210
Calendar year 1935	15,466.2	2,090	2.8	42.4	30,700
January	602	21	17	19.4	1,190
February	552	26	17	19.0	1,090
March	559	19	17	18.0	1,110
April	466	18	12	15.5	924
May	259.2	60	4.2	8.36	514
June	147.6	5.4	4.2	4.92	293
July	205.7	22	4.6	6.64	408
August	111.0	4.2	3.3	3.58	220
September	70,559.0	24,100	3.0	2,352	140,000
Water year 1935-36	75,724.5	24,100	3.0	207	150,200

*Not previously published.

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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. Zero of gage is 1,802.94 feet above mean sea level.

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

Records available.- October 1931 to September 1936.

Extremes.- Maximum discharge during year, 111,000 second-feet Sept. 17 (gage height, 23.4 feet, 2.4 feet backwater caused by North Concho River)(slope-area determination); no flow at times.
1931-36: Maximum discharge, that of Sept. 17, 1936; no flow at times.
Maximum stage known, 29.7 feet, no backwater affect, Aug. 6, 1906.

Remarks.- Records good except those below 50 second-feet and those above 12,000 second-feet, which are poor, and those partly estimated for Oct. 1-6 and Nov. 12-23, which are computed on basis of gate openings at Nasworthy dam and are fair. Stage affected by backwater from North Concho River Sept. 17, 18, 26, and 27 and discharge computed on basis of flow over Nasworthy Dam. Diversions above station for irrigation and 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), 6.5 miles upstream.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	210	228	1.9	65	2.2	0.1	0	129	0	0	0
2	1.3	181	172	1.3	171	1.9	0	0	5.0	0	0	0
3	59	16	15	32	16	1.5	0	0	1.9	0	0	0
4	219	8.0	8.0	219	9.2	3.9	0	0	1.0	0	8.9	0
5	219	5.0	7.0	228	7.0	210	0	17	.3	0	183	0
6	219	5.0	5.0	228	5.0	219	0	6.3	0	78	152	0
7	119	6.0	5.0	228	3.3	193	0	.1	0	12	3.1	0
8	6.2	5.0	5.0	145	2.2	20	0	0	0	2.2	0	0
9	3.3	4.1	5.0	13	3.3	8.0	0	0	0	1.0	0	0
10	3.3	8.0	5.0	8.0	3.3	4.1	0	0	0	2.7	0	0
11	2.7	8.0	5.0	5.0	3.3	3.3	0	0	0	5.0	0	0
12	2.2	123	4.1	3.3	2.7	2.7	0	0	0	3.3	0	0
13	6.0	237	3.3	1.9	5.5	1.5	49	0	0	4.1	0	0
14	4.1	237	2.2	1.5	21	1.0	112	0	1.9	3.3	0	0
15	2.7	237	2.2	1.5	9.2	.7	2.3	0	36	5.0	79	54,400
16	1.9	210	71	1.5	6.0	.5	.1	0	28	3.3	4.2	7,410
17	1.3	21	219	.8	4.1	.3	0	0	18	62	0	53,100
18	35	6.0	219	.7	2.7	.1	0	0	4.1	167	0	8,170
19	146	5.0	219	1.3	1.9	0	0	0	.5	7.2	0	1,630
20	153	6.0	136	1.3	1.5	0	0	0	0	.4	0	475
21	153	6.0	15	1.0	1.3	0	0	36	0	0	0	445
22	146	5.0	9.2	.8	1.0	0	0	99	0	0	0	400
23	116	2.7	7.0	.5	1.0	0	0	8.0	0	0	0	300
24	13	2.7	6.0	.4	3.3	0	0	3,530	0	0	0	276
25	9.2	3.3	6.0	.4	3.3	0	0	219	0	0	10	2,900
26	6.0	6.0	4.1	.7	2.7	0	0	160	0	0	174	41,000
27	4.1	94	3.3	1.3	2.2	0	0	9.7	0	0	120	44,200
28	4.1	228	2.7	1.5	1.3	156	56	7.0	0	0	2.3	2,970
29	3.3	228	2.2	1.9	1.5	8.8	95	204	0	0	0	1,280
30	2.2	228	2.2	1.9	-	1.4	1.7	246	0	0	0	743
31	85	-	2.7	1.9	-	.2	-	201	-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,747.8	219	1.3	56.4	3,470
November	2,341.8	237	2.7	78.1	4,640
December	1,396.2	228	2.2	45.0	2,770
Calendar year 1935	64,897.9	6,410	0	178	128,700
January	1,135.3	228	.4	36.6	2,250
February	360.8	171	1.0	12.4	716
March	840.1	219	0	27.1	1,670
April	316.2	112	0	10.5	627
May	4,743.1	3,530	0	153	9,410
June	225.7	129	0	7.52	448
July	356.5	167	0	11.5	707
August	736.5	183	0	23.8	1,460
September	219,699.0	54,400	0	7,323	435,800
Water year 1935-36	233,899.0	54,400	0	639	464,000

Concho River near San Angelo, Tex.

Location.- Water-stage recorder (destroyed by flood Sept. 15, 1936), 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 1936.

Average discharge.- 21 years, 202 second-feet.

Extremes.- Maximum discharge during year, by slope-area method, 230,000 second-feet Sept. 17 (gage height, 46.6 feet, from floodmarks) minimum not determined.
1915-36: Maximum discharge, that of Sept. 17, 1936; no flow Nov. 29, 1921. Maximum stage known, 47.5 feet Aug. 6, 1906 (discharge, about 246,000 second-feet).

Remarks.- Records good except those for Oct. 29 to Nov. 21, Aug. 8-14, 17-25, Aug. 30 to Sept. 4, Sept. 12-18, which were computed on basis of partial gage-height record and discharge records for station on South Concho River at San Angelo, and those above 20,000 second-feet, which are fair. Gage-height record Sept. 19-30 obtained from graph plotted from one or more daily gage readings and floodmarks. Numerous diversions above station for municipal and irrigation uses. Flow partly regulated by diversions and storage in reservoirs above station (capacity, about 11,000 acre-feet), the largest of which is Nasworthy Lake (capacity, 10,500 acre-feet).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.3	217	264	12	71	8.9	6.5	3.7	212	1.3	1.0	1.4
2	6.1	205	201	10	194	8.9	5.4	2.3	29	1.3	.7	1.3
3	41	28	27	37	30	8.5	4.9	2.3	17	1.0	2.4	1.0
4	253	14	19	260	19	11	4.9	1.9	12	1.3	2.9	.9
5	253	13	17	260	17	243	5.1	15	9.7	6.8	222	1.6
6	253	12	15	260	13	253	4.6	14	8.5	290	202	3.5
7	152	11	14	260	13	224	4.6	2.5	7.3	31	15	3.5
8	13	10	13	173	11	71	5.1	4.6	5.7	10	1.4	3.5
9	8.1	8.9	13	24	11	68	5.7	1.7	5.1	5.7	1.0	3.5
10	8.5	11	12	17	12	34	5.4	1.9	4.6	6.1	.9	3.7
11	11	12	13	14	12	21	5.1	2.1	4.0	8.5	.8	3.7
12	9.7	138	12	13	12	15	6.5	4.0	3.7	6.9	.7	3.7
13	12	260	12	13	13	12	50	2.9	3.2	6.9	.6	3.7
14	10	260	11	11	32	11	150	2.1	3.2	6.5	.4	3.7
15	7.7	260	10	11	19	8.9	10	10	36	7.7	75	82,300
16	6.1	237	83	11	15	8.5	6.9	26	31	8.1	17	14,700
17	4.6	28	260	11	14	7.7	5.1	11	24	73	3.2	131,000
18	26	12	260	9.7	12	8.1	4.3	27	8.1	227	2.3	17,000
19	170	11	260	9.3	11	7.3	5.1	31	3.2	18	1.9	3,040
20	173	10	174	9.7	11	6.5	5.4	4.6	1.7	3.2	1.6	594
21	170	9.7	29	9.7	8.9	6.9	5.4	38	1.3	1.6	1.3	1,280
22	170	9.7	22	10	11	6.9	4.9	140	1.3	1.4	1.0	702
23	163	8.5	18	9.3	9.3	6.9	4.6	95	1.1	1.1	.8	424
24	42	8.1	15	9.3	11	6.9	4.3	3,250	1.9	1.0	.6	352
25	32	8.1	15	9.7	13	6.5	4.0	325	5.1	1.6	.3	3,280
26	18	18	14	9.7	12	5.7	4.0	234	4.0	1.0	215	81,400
27	13	96	14	9.7	11	5.4	3.7	52	2.5	.8	180	70,600
28	11	264	13	10	9.3	189	62	45	1.6	.8	11	10,300
29	10	267	11	11	8.5	20	140	483	1.3	.8	1.7	1,810
30	10	264	11	12	-	6.9	7.7	365	1.1	.8	1.6	1,010
31	88	-	11	12	-	5.7	-	287	-	1.4	1.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,152.1	253	4.6	69.4	4,270
November	2,711.0	267	8.1	90.4	5,380
December	1,863	264	10	60.1	3,700
Calendar year 1935	103,969.5	20,200	1.2	285	206,200
January	1,538.1	260	9.3	49.6	3,050
February	636.0	194	8.5	21.9	1,260
March	1,303.1	253	5.4	42.0	2,580
April	541.2	150	3.7	18.0	1,070
May	5,484.6	3,250	1.7	177	10,880
June	450.2	212	1.1	15.0	893
July	732.6	290	.8	23.6	1,450
August	967.7	222	.3	31.2	1,920
September	419,830.7	131,000	.9	13,990	832,700
Water year 1935-36	438,210.3	131,000	.3	1,197	869,200

Concho River near Paint Rock, Tex.

Location.- Water-stage recorder (destroyed by flood Sept. 17, 1936), lat. 31°31', long. 99°57', at Gulf, Colorado & Santa Fe Railway bridge 2 miles northwest of Paint Rock, Concho County. Prior to Oct. 17, 1935, staff gage at same site and datum.

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

Records available.- September 1915 to September 1936.

Average discharge.- 21 years, 269 second-feet.

Extremes.- Maximum discharge during year, by slope-area method, 301,000 second-feet Sept. 17 (gage height, 41.3 feet, from floodmarks); no flow Aug. 19-26 and Sept. 11-14.

1915-36: Maximum discharge, that of Sept. 17, 1936; no flow at times.

Flood of August 1882 reached a stage of about 38.4 feet (discharge, about 201,000 second-feet).

Flood of August 1906 reached a stage of about 37.4 feet (discharge, about 176,000 second-feet).

Remarks.- Records good except those above 40,000 second-feet, those for Oct. 18-25, Oct. 27 to Nov. 13, computed by comparison with records for station at San Angelo, and those for Sept. 16-30, computed from graph based on once-daily or more gage readings, floodmarks, and discharge measurements, all of which are poor. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20		255	21	21	18	11	50	255	0.6	0.6	6.9
2	18		250	20	174	17	13	22	193	.4	.4	3.9
3	17		250	19	79	17	9.0	14	72	.3	.3	7.9
4	16		137	19	42	16	6.9	10	36	.2	.2	2.9
5	151		60	98	32	17	6.0	7.9	24	11	.1	1.3
6	238		44	242	27	118	4.6	6.0	17	889	.1	.6
7	238	40	36	246	25	242	3.2	4.6	14	591	42	.3
8	216		32	246	23	243	3.9	5.0	13	143	51	.2
9	80		28	242	21	109	5.5	4.3	11	54	18	.1
10	107		26	129	21	94	6.0	3.2	9.5	25	6.9	.1
11	39		25	58	20	68	6.0	2.4	8.4	16	4.6	0
12	27		24	38	19	45	6.0	1.8	15	12	2.6	0
13	24		23	31	19	33	6.0	10	125	9.5	1.3	0
14	23	214	21	26	19	28	6.4	143	22	7.4	.6	0
15	23	246	21	24	18	23	69	24	10	6.4	.3	52,600
16	20	246	21	23	26	20	58	11	6.4	74	.2	61,900
17	17	224	20	22	26	17	30	6.4	5.5	45	.1	134,000
18		98	29	21	23	15	17	9.0	14.0	17	.1	90,500
19		49	227	20	21	13	10	405	17	156	0	25,600
20		35	250	19	20	11	7.9	58	15	88	0	6,070
21	100	28	250	18	20	12	7.9	41	11	32	0	1,090
22		25	195	17	18	12	6.9	25	6.4	16	0	922
23		23	79	17	18	13	6.0	147	5.5	11	0	635
24		20	47	17	18	13	4.3	2,090	4.6	6.9	0	1,480
25		20	36	17	17	10	3.2	1,520	3.2	5.0	0	1,980
26	58	22	32	17	19	9.0	2.9	512	2.1	3.6	0	22,100
27		24	27	16	17	8.4	2.4	346	2.6	2.6	.2	99,000
28		22	24	16	17	9.0	2.4	126	1.8	1.8	8.8	13,100
29	30	176	23	18	18	52	1.8	90	1.1	1.4	54	3,750
30		250	22	18	-	83	25	530	.8	1.1	21	1,910
31		-	22	19	-	32	-	306	-	.8	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,282	238	-	73.6	4,530
November	2,242	250	-	74.7	4,450
December	2,536	255	20	81.8	5,030
Calendar year 1935	161,508.4	19,400	-	442	320,300
January	1,754	246	16	56.6	3,480
February	838	174	17	28.9	1,660
March	1,417.4	243	8.4	45.7	2,810
April	348.2	69	1.8	11.6	691
May	6,530.6	2,090	1.8	211	12,950
June	921.9	255	.8	30.7	1,830
July	2,228.0	889	0.2	71.9	4,420
August	224.4	54	0	7.24	445
September	516,661.2	134,000	0	17,220	1,025,000
Water year 1935-36	537,983.7	134,000	0	1,470	1,067,000

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 9½ miles (revised) 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 1936.

Extremes.- Maximum discharge during year, about 35,000 second-feet Sept. 26 (computed on basis of flow over Nasworthy Dam, 12 miles downstream, correcting for inflow and storage; gage height, 24.2 feet); no flow at times.
1930-36: Maximum discharge, that of Sept. 26, 1936; no flow at times.

Remarks.- Records good except those above 10,000 second-feet, which are poor. Small diversions for irrigation above station affect low flow.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	0.5	1.5	0		0	28	0		0
2			0	.9	1.4	0		0	18	0		0
3			0	1.2	1.3	0		0	13	0		0
4			0	1.0	1.2	0		0	9.2	0		0
5			0	.9	1.0	0		0	6.9	0		0
6			0	1.0	.6	0		0	5.8	19		0
7			0	1.1	.9	0		0	4.5	24		0
8			0	.9	.8	.1		0	3.6	7.9		0
9			0	.7	.6	0		0	3.1	3.3		0
10			0	.7	.5	0		0	2.3	1.6		0
11			0	1.6	.5	0		0	1.8	.9		0
12			0	1.1	.4	0		0	1.6	.4		0
13			0	.5	.3	0		0	20	.2		0
14			0	1.0	.2	0		62	28	0		0
15			0	.4	0	0		48	9.2	0		261
16			0	.5	0	0		13	4.9	0		3.6
17			0	.6	0	0		4.4	2.9	0		7,650
18			0	.6	0	0		11	1.6	0		921
19			0	.5	0	0		380	.7	0		445
20			0	.7	0	0		160	.3	0		64
21			0	.6	0	0		41	0	0		114
22			0	.3	0	0		19	0	0		97
23			0	.4	0	0		1,790	.3	0		28
24			0	.4	0	0		1,190	2.8	0		44
25			0	.5	0	0		162	.7	0		3,240
26			0	.7	0	0		112	.2	0		25,600
27			0	.5	0	0		70	0	0		25,200
28			0	.3	0	0		55	0	0		1,270
29			0	.4	0	0		1,320	0	0		600
30			0	1.1	-	0		54	0	0		312
31			0.2	1.7	-	0		30	-	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	.2	.2	0	.006	.4
Calendar year 1935	21,311.7	4,070	0	58.4	42,260
January	23.3	1.7	.3	.75	46
February	11.2	1.5	0	.39	22
March	.1	.1	0	.003	.2
April	0	0	0	0	0
May	5,521.4	1,790	0	178	10,950
June	169.4	28	0	5.65	336
July	57.3	24	0	1.85	114
August	0	0	0	0	0
September	65,849.6	25,600	0	2,195	130,600
Water year 1935-36	71,632.5	25,600	0	196	142,100

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 1936.

Extremes.- Maximum discharge during year, 23,900 second-feet Sept. 17 (gage height, 20.3 feet); no flow at times.
1930-36: Maximum discharge, that of Sept. 17, 1936; no flow at times.

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

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	42	22	23	13	8.5	1.4	1.0	14	2.0	1.1	0.1
2	32	38	21	22	13	8.1	1.2	.8	13	1.8	1.0	.1
3	24	35	24	21	12	6.5	1.3	.8	12	1.8	.9	.1
4	26	34	25	21	10	7.5	1.2	.7	12	1.7	.6	.1
5	23	33	26	21	9.9	6.8	1.1	.7	10	2.0	.2	.1
6	27	33	27	21	10	5.4	1.0	.7	8.1	45	.4	.1
7	29	34	26	20	8.8	5.8	1.1	.7	5.6	39	.2	.1
8	24	35	24	21	8.5	5.6	1.1	.8	6.8	19	0	0
9	24	35	21	20	7.8	5.4	1.1	.6	9.2	16	.1	0
10	25	32	21	21	8.1	7.0	1.0	.6	7.8	15	.2	0
11	22	31	22	20	8.5	5.8	1.1	.6	4.1	15	0	0
12	22	32	22	20	8.1	5.4	1.0	.6	2.8	15	0	0
13	18	32	22	19	7.8	5.4	.9	.3	224	15	0	0
14	20	32	21	18	7.3	7.3	.9	.1	64	14	0	1.3
15	19	33	21	15	3.9	6.8	.9	0	26	13	0	5,040
16	18	33	21	14	3.8	5.0	.9	0	17	12	0	248
17	20	33	22	14	4.6	4.6	.9	0	16	13	0	6,300
18	18	33	22	13	5.6	2.9	.9	.1	9.8	9.9	0	429
19	20	33	22	14	6.3	1.5	.8	.4	6.5	7.3	0	225
20	19	33	22	14	7.8	1.2	.8	.5	4.8	5.8	0	108
21	21	32	24	14	8.5	1.7	.8	.2	3.4	4.6	0	96
22	22	29	26	13	7.3	1.8	.8	0	2.8	3.4	0	71
23	25	29	24	13	6.8	1.8	.8	7.9	5.9	2.8	0	55
24	32	27	24	12	7.0	1.7	.7	339	7.4	2.4	0	54
25	33	20	24	11	7.3	1.7	.7	87	7.8	2.0	0	149
26	33	25	24	10	6.5	1.8	.7	40	4.8	1.8	.2	4,950
27	32	29	24	11	5.8	1.6	.7	27	3.1	1.5	.4	982
28	32	26	25	13	7.0	1.6	.7	37	2.6	1.4	.4	197
29	31	24	23	14	8.1	1.5	.7	50	2.3	1.3	.4	110
30	29	23	22	15	-	1.5	1.0	43	2.2	1.2	.3	93
31	39	-	23	14	-	1.4	-	22	-	1.1	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	794	39	18	25.6	1,570
November	940	42	20	31.3	1,860
December	717	27	21	23.1	1,420
Calendar year 1935	18,950.7	2,020	0	51.9	37,580
January	512	23	10	16.5	1,020
February	229.1	13	3.8	7.90	454
March	130.6	8.5	1.2	4.21	259
April	28.2	1.4	.7	.94	56
May	663.1	339	0	21.4	1,320
June	515.8	224	2.2	17.2	1,020
July	286.8	45	1.1	9.25	569
August	6.7	1.1	0	.22	13
September					
Water year 1935-36	19,109.0	6,300	0	637	37,900

North Concho River near Carlsbad, Tex.

Location.- Water-stage recorder (destroyed by flood of Sept. 26), lat. 31°36', long. 100°40', just above State Sanatorium Dam and 2 miles above Carlsbad, Tom Green County. Zero of gage is 2,000.8 feet above mean sea level.

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

Records available.- March 1924 to September 1936.

Average discharge.- 12 years, 71.9 second-feet.

Extremes.- Maximum discharge during year, by slope area method, about 94,600 second-feet Sept. 26 (gage height, 16.0 feet, from highest floodmarks ever known); no flow June 24 to July 6.
1924-36: Maximum discharge, that of Sept. 26, 1936; no flow at times.

Remarks.- Records good except those above 5,000 second-feet, which are poor. Daily discharge for Sept. 19-30 determined from a graph drawn on basis of occasional gage readings and elevation of flood peaks. Diversions by pumping above station affect low-water flow (pump capacity, 40 second-feet). Low-water flow partly regulated by small reservoir above gage.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	3.3	5.7	6.0	8.1	5.9	6.1	3.7	22	0	0.1	0.1
2	3.2	3.3	5.0	6.0	8.1	6.6	6.1	3.7	14	0	.1	.1
3	2.7	3.3	5.0	6.8	8.1	6.6	6.1	3.7	12	0	.1	.1
4	3.7	2.8	5.0	6.0	7.3	6.6	6.9	3.2	10	0	.1	.1
5	2.7	2.8	5.0	6.0	7.3	6.6	6.9	2.7	9.3	0	.1	.1
6	2.6	3.1	5.7	5.3	7.3	6.6	6.9	2.2	6.9	0	.1	.1
7	1.8	3.1	5.7	5.4	6.5	6.6	6.9	2.2	5.6	0.2	.1	.1
8	1.3	3.1	5.7	6.1	4.6	107	5.4	3.2	4.0	.4	.1	.1
9	1.8	3.1	5.7	6.1	7.3	19	6.1	2.7	3.5	.3	.1	.1
10	3.5	2.6	5.9	6.1	7.3	11	5.4	1.8	3.0	.2	.1	.1
11	4.0	2.0	5.2	6.1	7.4	7.7	6.1	1.2	2.0	.1	.1	.1
12	3.5	2.0	5.2	5.4	7.4	6.9	6.9	1.2	1.7	.1	.1	.1
13	2.0	3.5	5.2	5.4	7.4	6.9	6.1	1.2	1.4	.1	.1	.1
14	1.6	3.5	5.2	5.5	7.4	6.9	6.1	63	1.4	.1	.1	.1
15	2.0	3.5	5.2	6.2	7.4	6.9	6.9	22	1.3	.1	.1	238
16	1.6	3.5	5.2	6.2	6.6	6.1	6.9	6.9	1.1	.1	.1	820
17	1.5	3.5	5.2	6.2	6.6	6.9	6.1	4.2	1.0	.1	.1	62,900
18	1.5	4.1	5.2	6.2	5.9	6.9	6.1	3.7	.8	.1	.1	4,170
19	2.8	4.1	5.9	6.3	5.9	6.9	5.4	3.2	.8	.1	.1	560
20	2.8	4.1	5.9	6.3	5.9	6.1	5.4	2.2	.7	.1	.1	84
21	2.3	5.4	6.7	7.1	5.9	6.1	5.4	1.2	.5	.1	.1	971
22	1.9	7.9	7.5	7.1	5.3	6.9	5.4	1.4	.4	.1	.1	131
23	38	8.0	7.5	7.1	5.3	6.9	4.8	32	.2	.1	.1	58
24	9.6	7.1	7.5	7.1	5.9	6.9	4.8	54	0	.1	.1	46
25	4.6	7.1	6.7	7.1	5.9	5.4	4.8	24	0	.1	.1	189
26	4.0	9.0	5.9	7.2	5.9	6.9	4.8	15	0	.1	.1	45,500
27	4.6	10	5.9	7.2	5.9	6.1	4.8	10	0	.1	.1	3,920
28	5.2	9.2	5.9	7.2	6.6	6.1	4.2	10	0	.1	.1	610
29	4.4	7.3	5.9	7.2	5.9	6.9	3.7	444	0	.1	.1	242
30	3.8	6.5	5.9	8.0	-	6.9	3.2	34	0	.1	.1	136
31	3.3	-	5.9	8.0	-	6.1	-	34	-	.1	.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	131.5	38	1.3	4.24	261
November	141.8	10	2.0	4.73	281
December	179.1	7.5	5.0	5.78	355
Calendar year 1935	35,923.1	13,700	.2	99.0	71,250
January	199.9	8.0	5.3	6.45	396
February	192.4	8.1	4.6	6.63	382
March	321.9	107	5.4	10.4	638
April	170.7	6.9	3.2	5.69	339
May	797.5	444	1.2	25.7	1,580
June	103.6	22	0	3.45	205
July	3.2	.4	0	.10	6.3
August	3.1	.1	.1	.10	6.1
September	120,576.4	62,900	.1	4,019	239,200
Water year 1935-36	122,831.1	62,900	0	336	243,600

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 1936.

Average discharge.- 11 years (1924-28, 1929-36), 236 second-feet.

Extremes.- Maximum discharge during year, 19,800 second-feet Sept. 28 (gage height, 14.26 feet); minimum, 0.1 second-foot (seepage through control) at times.

1917-18, 1923-36: Maximum discharge, 52,700 second-feet Oct. 14, 1930 (gage height, 16.92 feet), from rating curve extended above 38,000 second-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. Discharge Dec. 26-28 computed on basis of known change in stage. Seepage past control dam ranging from 0.1 to 0.2 second-foot was included in daily discharge during several periods. Flow regulated by storage in Brownwood Reservoir (capacity, 140,000 acre-feet).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	324	337	226	1.6	0.9	0.2	0.2	0.2	0.1	0.2	330	0.2
2	324	330	10	1.0	.9	.2	.2	.2	.1	.2	330	.2
3	330	330	3.9	.8	28	.2	.2	.2	.1	.2	330	12
4	330	337	2.4	1.0	194	.2	.2	.2	.1	.2	337	3.9
5	249	330	2.4	.7	5.7	.2	.2	.2	.1	.2	337	3.9
6	319	330	5.5	.8	.9	.2	.2	33	.1	285	337	3.9
7	330	330	3.9	.7	.6	.2	.2	160	.1	337	337	2.5
8	330	198	3.9	.9	.5	5.2	.2	35	.1	337	337	2.5
9	330	107	2.4	1.2	.5	2.5	.2	12	.1	337	217	2.5
10	343	330	1.0	1.6	.7	.7	.2	1.8	.1	337	3.7	2.5
11	330	330	2.4	2.5	.9	.9	.2	.1	.1	337	.2	2.5
12	330	330	2.4	2.5	.7	.2	.2	.1	.1	337	.2	165
13	330	293	5.5	1.0	.5	.2	.2	.1	607	343	.2	187
14	330	330	5.5	.6	.2	.2	.2	.1	35	343	.2	7.0
15	330	330	5.5	.2	.2	.2	.2	.1	5.4	330	.2	7.0
16	264	330	55	.7	.4	.2	50	.1	.6	397	.2	1,700
17	18	337	180	1.0	.6	.2	24	.1	.2	343	.2	8,310
18	279	343	209	.9	.2	.2	1.6	.1	.2	324	15	11,500
19	330	343	324	1.2	.2	.2	.6	.1	.2	33	.2	3,380
20	330	343	330	1.2	.2	.2	.2	.1	.2	.6	.2	3,660
21	330	343	330	1.2	.2	.2	.2	.1	.2	13	.2	2,250
22	330	343	330	.9	.2	.2	.2	.1	.2	64	63	1,540
23	870	343	330	.9	.2	.2	.2	.1	70	330	204	1,080
24	777	350	292	1.2	.2	.2	.2	.1	317	330	3.9	800
25	410	343	114	8.6	.2	214	.2	.1	317	324	.2	604
26	330	350	5.5	91	.8	14	.2	.1	173	324	.2	540
27	324	343	1.8	3.9	.2	1.7	.2	240	3.0	324	.2	5,650
28	317	337	1.0	.6	.2	.2	.2	56	.2	330	.2	15,900
29	317	343	1.0	.7	.2	.2	.2	48	.2	330	.2	10,700
30	324	343	.9	.6	-	.2	.2	2.4	.2	330	.2	4,270
31	330	-	1.6	.8	-	.2	-	.5	-	330	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,739	870	18	346	21,300
November	9,706	350	107	324	19,250
December	2,788.5	330	.9	90.0	5,530
Calendar year 1935	98,182.7	10,900	.2	269	194,700
January	132.7	91	.2	4.28	263
February	239.2	194	.2	8.25	474
March	243.8	214	.2	7.86	484
April	81.4	50	.2	2.71	161
May	591.3	240	.1	19.1	1,170
June	1,531.0	607	.1	51.0	3,040
July	7,450.6	397	.2	240	14,780
August	3,185.0	337	.2	103	6,320
September	77,286.6	15,900	.2	2,576	153,300
Water year 1935-36	113,975.1	15,900	.1	311	226,100

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. Zero of gage is 1,865.05 feet above mean sea level (general adjustment of 1929).

Drainage area.- 1,151 square miles.

Records available.- September 1915 to September 1936.

Average discharge.- 21 years, 61.5 second-feet.

Extremes.- Maximum discharge during year, 68,600 second-feet Sept. 16 (gage height, 21.2 feet, from floodmarks) (slope-area determination); no flow Feb. 28 (result of regulation).

1915-36: Maximum discharge, that of Sept. 16, 1936; no flow at times.

Maximum stage known, 23.7 feet (revised) June 5, 6, 1699, supersedes values previously published.

Remarks.- Records good except those above 17,000 second-feet, which are poor. Daily discharge during periods of material change in stage determined from graph drawn on basis of twice daily gage readings. Low-water flow during irrigation season regulated by diversions to Noyes Canal, 4 miles above Menard. About 4,300 acres above and 7,700 acres below gage have been declared irrigated.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	46	52	47	44	11	14	26	48	6.9	19	8.0
2	51	46	52	44	44	13	13	23	47	10	19	7.2
3	51	46	52	43	43	12	13	22	46	7.5	18	8.0
4	49	46	52	43	42	12	13	5.9	45	6.5	18	9.2
5	46	57	53	43	42	13	16	6.9	43	5.9	18	8.0
6	46	51	55	43	42	14	22	16	43	2,440	16	6.9
7	45	47	49	43	42	15	21	16	41	2,220	12	7.2
8	44	46	42	47	42	15	17	32	32	272	12	6.9
9	43	46	38	48	42	15	20	32	21	100	16	7.2
10	45	45	51	44	42	14	18	38	17	72	18	6.9
11	45	45	48	41	43	14	17	32	16	55	26	6.9
12	45	45	46	37	43	14	17	43	12	47	29	8.0
13	45	47	44	44	39	14	17	47	13	40	40	9.2
14	45	48	46	42	41	14	17	43	20	38	26	9.7
15	45	49	44	38	39	12	16	44	13	37	13	62
16	45	49	43	40	44	12	21	41	11	37	10	28,300
17	46	49	44	42	43	11	18	38	9.2	74	8.6	17,700
18	46	49	45	41	41	11	19	37	9.2	56	7.2	14,700
19	46	48	46	40	40	11	21	29	8.0	26	9.7	678
20	46	48	45	43	39	9.7	19	12	7.5	24	9.2	255
21	46	48	46	43	41	11	21	12	6.9	26	9.2	155
22	46	47	48	41	44	12	20	11	5.6	26	12	103
23	67	46	47	42	41	11	20	46	7.2	27	14	96
24	62	46	46	42	40	11	21	47	11	29	12	94
25	58	55	46	41	17	11	22	98	7.2	26	29	295
26	53	58	44	41	13	12	25	323	6.9	24	27	2,650
27	52	57	45	43	13	12	26	200	4.1	22	30	11,500
28	49	54	46	45	4.4	11	22	69	4.1	20	31	3,720
29	49	53	45	43	.4	12	27	55	4.1	19	22	755
30	47	52	45	43	-	12	34	52	3.4	21	9.7	432
31	47	-	45	43	-	13	-	51	-	23	8.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,504	67	43	48.5	2,980
November	1,469	58	45	49.0	2,910
December	1,447	55	38	46.7	2,870
Calendar year 1935	54,024	6,540	4.0	148	107,100
January	1,320	48	37	42.6	2,620
February	1,050.8	44	.4	36.2	2,080
March	384.7	15	9.7	12.4	763
April	587	34	13	19.6	1,160
May	1,547.8	323	5.9	49.9	3,070
June	562.4	48	3.4	18.7	1,120
July	5,837.8	2,440	5.9	188	11,580
August	549.2	40	7.2	17.7	1,090
September	81,604.3	28,300	6.9	2,720	161,900
Water year 1935-36	97,864	28,300	.4	267	194,100

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 1936. Comparable records at site 4½ miles upstream December 1904 to December 1906, September 1915 to August 1930.

Average discharge.- 21 years (1915-36), 254 second-feet.

Extremes.- Maximum discharge during year, 45,500 second-feet Sept. 17 (gage height, 36.67 feet), from rating curve extended above 30,000 second-feet; minimum, 21 second-feet Aug. 17 (gage height, 3.22 feet).

1904-6, 1915-36: Maximum discharge, 57,000 second-feet Apr. 26, 1922 (gage height, 42.1 feet, present site and datum, from floodmarks, affected by backwater), from rating curve extended above 30,000 second-feet and correcting for backwater affect; no flow Aug. 9, 10, 1918.

Remarks.- Records good except those estimated or partly estimated for Oct. 1-30, Nov. 7-25 on basis of weather records and known range in stage, which are fair. Discharge corrected for backwater effect from Colorado River Sept. 20-22. Diversions above station for irrigation and municipal use.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		130	122	131	107	99	57	50	252	127	47	45
2		126	120	140	107	88	57	52	212	65	43	52
3		130	119	131	109	84	57	53	188	60	41	48
4		128	119	124	103	84	56	57	172	60	39	45
5		255	122	120	100	79	56	56	161	298	38	45
6		700	134	113	100	74	53	56	150	215	36	41
7		542	204	110	103	71	49	56	142	140	35	39
8		252	180	109	102	81	49	56	132	3,050	34	38
9		184	152	110	96	84	58	75	126	656	34	35
10		155	143	110	98	86	67	82	120	316	35	34
11		143	131	110	96	84	65	81	113	206	35	34
12		136	120	112	98	77	65	152	109	154	34	32
13		134	113	109	96	77	75	131	100	124	34	32
14		132	114	109	95	71	67	100	383	107	32	35
15	141	128	113	107	93	70	61	120	278	103	27	79
16		125	113	107	93	65	68	201	156	109	26	1,910
17		122	113	107	91	58	89	131	116	95	26	33,900
18		119	114	107	85	60	81	105	96	91	25	20,000
19		118	114	106	99	63	77	749	89	82	35	13,500
20		116	114	106	99	60	70	122	78	77	36	2,140
21		113	114	106	99	56	60	125	74	95	35	994
22		114	120	106	98	54	58	109	67	124	34	640
23		118	120	107	96	56	60	165	58	162	34	433
24		120	119	107	96	57	65	453	54	79	34	354
25		125	118	109	96	60	68	716	52	67	32	303
26		130	120	107	109	61	68	2,490	50	72	36	1,570
27		146	118	107	128	67	68	3,750	50	61	43	18,600
28		140	115	107	113	67	65	2,460	53	54	34	17,000
29		126	122	106	105	64	54	1,010	52	50	34	4,580
30	140	124	120	106	-	60	52	526	111	49	44	1,670
31	134	-	122	107	-	60	-	320	-	48	52	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,363	-	-	141	8,650
November	5,131	700	113	171	10,180
December	3,885	204	113	125	7,710
Calendar year 1935	202,558	25,700	24	555	401,800
January	3,453	140	106	111	6,850
February	2,910	128	85	100	5,770
March	2,177	99	54	70.2	4,320
April	1,895	89	49	63.2	3,760
May	14,609	3,750	50	471	28,980
June	3,794	388	50	126	7,530
July	6,996	3,050	48	226	13,880
August	1,104	52	25	35.6	2,190
September	118,228	33,900	32	3,941	234,500
Water year 1935-36	168,545	33,900	25	461	334,300

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 1936.

Average discharge.- 12 years, 14.7 second-feet.

Extremes.- Maximum discharge during year not determined; no flow at times.
1924-36: 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, which are poor. Canal diverts from right bank of San Saba River 4 miles above Menard and is used for irrigation near Menard; 10 acres irrigated above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	6.3	3.7		*0.2	25	21	1.2	0	27	14	20
2	3.6	6.1	3.3		*.2	22	20	0	0	25	13	17
3	4.2	5.7	2.9		*.2	18	20	2.0	0	21	13	17
4	6.7	7.3	2.9		*.2	21	20	*19	0	20	16	18
5	8.8	13	3.7		*.2	21	17	*20	0	21	13	17
6	4.2	11	3.8		*.2	21	12	17	0	28	12	17
7	2.8	10	4.0	*2.6	*.2	22	15	18	0	28	13	17
8	7.0	8.8	4.0		*.2	22	22	21	7.6	15	12	14
9	9.2	8.1	4.0		*.2	22	22	24	16	9.2	13	17
10	9.7	7.5	4.7		*.2	22	21	11	17	7.5	12	18
11	9.7	7.9	5.5		*.2	21	18	6.6	18	6.5	14	18
12	9.7	7.7	5.9		*.2	21	17	0	21	7.7	7.6	18
13	9.5	7.5	6.5		*.2	21	17	0	25	15	0	17
14	9.2	7.5	6.5		*.2	21	17	0	28	15	7.3	
15	9.2	7.7	6.5	*.2	*.2	20	17	0	24	16	18	
16	7.5	7.3	6.7	*.2	*.2	20	13	0	24	16	14	*16
17	7.3	7.1	6.7	*.2	*.2	18	15	0	24	21	*16	
18	7.3	7.1	6.7	*.2	*.2	20	15	0	24	20	*16	
19	7.5	6.9	6.9	*.2	*.2	21	14	7.3	22	18	16	4.8
20	7.3	6.7	7.1	*.2	*.2	21	14	20	22	15	16	.4
21	7.3	6.3	7.5	*.2	*.2	21	13	24	16	15	17	0
22	7.5	5.7		*.2	*.2	22	12	21	15	15	18	0
23	7.9	5.2		*.2	*.2	22	12	28	24	15	14	0
24	9.5	5.2		*.2	*.2	21	11	12	27	16	9.5	0
25	7.5	4.8		*.2	16	20	11	4.9	22	16	0	0
26	7.5	4.7	*6.0	*.2	24	21	11	0	22	14	0	0
27	7.5	4.3		*.2	24	21	9.2	0	21	14	0	0
28	7.3	3.8		*.2	*33	21	8.8	0	15	13	0	0
29	6.9	3.7		*.2	*33	21	5.8	0	11	13	8.0	0
30	6.5	3.7		*.2	-	21	.8	0	16	14	16	0
31	6.5	-		*.2	-	20	-	0	-	15	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	226.0	9.7	2.8	7.29	448
November	204.6	13	3.7	6.82	406
December	169.5	-	-	5.47	336
Calendar year 1935	4,391.0	31	0	12.0	8,710
January	39.8	-	-	1.28	79
February	137.8	33	.2	4.75	273
March	651	25	18	21.0	1,290
April	441.6	22	.8	14.7	876
May	257.0	24	0	8.29	510
June	461.6	28	0	15.4	916
July	511.9	28	6.5	16.5	1,020
August	355.4	18	0	11.5	705
September	310.2	-	0	10.3	615
Water year 1935-36	3,766.4	-	0	10.3	7,470

*Estimated.

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. Zero of gage is 1,630.32 feet above mean sea level (general adjustment of 1929).

Drainage area.- 1,762 square miles.

Records available.- September 1915 to September 1936.

Average discharge.- 21 years, 237 second-feet.

Extremes.- Maximum discharge during year, 158,000 second-feet Sept. 16 (gage height, 32.2 feet, from floodmarks), from rating curve extended above 40,000 second-feet on basis of four slope-area discharge measurements; minimum, 48 second-feet Sept. 6-8, 12-14.

1915-36: Maximum discharge, by slope-area method, 319,000 second-feet June 14, 1935 (gage height, 43.3 feet, from floodmarks); minimum, 13 second-feet Aug. 23-28, 1918 (gage height, 1.32 feet).

Remarks.- Records good except those above 40,000 second-feet and those for Sept. 15-17, computed from fragmentary gage-height record, 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	244	170	133	133	108	95	102	90	208	95	73	51
2	233	936	133	130	108	121	102	90	188	92	73	49
3	227	271	133	130	108	170	98	90	179	92	73	49
4	222	217	133	130	105	137	95	90	166	90	66	49
5	212	198	137	126	105	126	95	90	154	90	66	49
6	212	188	137	126	105	122	92	87	149	87	64	48
7	208	188	137	122	102	119	92	87	145	84	64	48
8	198	179	137	122	102	119	95	84	133	84	64	48
9	198	174	137	122	102	119	102	90	130	81	64	49
10	193	170	133	122	102	119	105	95	128	81	64	49
11	193	162	133	122	102	116	102	102	122	81	62	49
12	188	162	133	122	102	112	98	108	119	81	57	48
13	184	162	133	122	102	116	98	98	122	81	57	48
14	179	162	133	119	98	116	95	126	133	81	57	48
15	179	162	133	119	98	112	92	116	119	81	57	4,160
16	179	158	133	116	98	112	92	105	119	92	53	59,700
17	179	158	133	116	98	108	92	98	116	98	53	14,400
18	174	158	133	112	98	108	92	95	108	98	53	7,390
19	174	149	133	112	98	108	92	92	102	92	51	1,830
20	174	145	133	112	102	105	92	92	98	92	49	940
21	170	145	133	112	98	105	90	90	98	90	49	718
22	166	145	130	112	98	105	90	90	98	87	49	600
23	162	141	130	112	98	105	90	95	95	92	49	512
24	170	141	130	112	98	105	90	192	92	95	49	465
25	174	141	130	112	98	108	90	199	92	102	49	3,500
26	170	141	133	112	98	105	90	568	92	95	51	967
27	170	141	133	108	95	105	90	918	84	90	51	4,440
28	166	145	133	108	95	102	90	368	81	87	51	3,450
29	166	137	133	108	95	102	90	288	84	84	51	1,070
30	166	133	133	108	-	102	90	249	92	81	53	710
31	170	-	133	108	-	102	-	222	-	78	53	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,800	244	162	187	11,500
November	5,679	936	133	189	11,260
December	4,131	137	130	133	8,190
Calendar year 1935	270,542	124,000	44	741	536,600
January	3,647	133	108	118	7,230
February	2,916	108	95	101	5,780
March	3,506	170	95	113	6,950
April	2,823	105	90	94.1	5,600
May	5,204	918	84	168	10,320
June	3,644	208	81	121	7,230
July	2,734	102	78	88.2	5,420
August	1,775	73	49	57.3	3,520
September	105,534	59,700	48	3,518	209,300
Water year 1935-36	147 393	59,700	48	403	292,300

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.

Drainage area.- 3,514 square miles.

Records available.- November 1923 to September 1936.

Average discharge.- 12 years (1924-36), 428 second-feet.

Extremes.- Maximum discharge during year, 153,000 second-feet Sept. 16 (gage height, 22.9 feet, from floodmarks); minimum, 40 second-feet Sept. 13.
1923-36: Maximum discharge, by slope-area method, 388,000 second-feet June 14, 1935 (gage height, 37.0 feet, from floodmarks); minimum, 6.4 second-feet Aug. 26, 1934 (gage height, 0.50 foot).

Remarks.- Records good except those above 10,000 second-feet, which are poor, those for Mar. 4-5, Sept. 28-30, estimated from fragmentary gage-height record and on basis of records for station near Junction, and those interpolated for Mar. 8-11, Sept. 6-8. Small diversions above station slightly reduce low-water flow.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	321	227	196	196	175	156	112	99	297	119	76	75
2	309	265	196	196	175	168	108	99	262	96	72	60
3	297	529	196	185	175	462	100	99	226	87	68	57
4	297	465	196	185	165	317	105	99	206	123	65	56
5	273	321	206	175	156	322	107	97	196	237	65	55
6	273	285	404	165	165	216	102	94	175	188	62	53
7	273	273	360	165	165	185	97	94	165	108	61	51
8	262	262	273	175	165	179	108	110	156	93	57	49
9	262	250	238	165	165	173	137	128	146	87	59	48
10	262	250	216	175	165	167	128	165	137	86	56	48
11	262	238	216	175	165	161	128	262	128	76	55	46
12	250	227	206	175	156	156	124	185	124	77	51	46
13	250	227	206	175	165	146	123	156	123	81	55	42
14	238	216	196	165	156	146	114	137	363	86	53	74
15	238	227	185	165	146	137	114	137	297	97	50	15,200
16	238	227	185	165	146	137	115	124	175	180	48	93,000
17	227	216	185	165	146	137	108	146	137	148	47	46,000
18	238	216	185	156	146	128	105	137	115	128	47	14,100
19	227	216	185	156	137	128	107	121	102	112	44	4,730
20	238	216	196	156	146	128	112	146	94	107	44	2,580
21	262	216	206	165	146	124	105	137	90	114	44	1,540
22	238	206	206	165	156	126	102	124	81	100	44	1,340
23	285	216	196	165	156	124	96	165	77	105	44	1,040
24	262	196	196	165	156	123	102	262	84	104	44	710
25	262	206	196	165	156	123	100	507	76	110	44	1,380
26	262	206	196	165	165	121	99	3,110	71	137	72	3,720
27	262	216	185	156	165	126	100	1,660	68	105	48	56,600
28	250	216	196	165	165	119	107	1,290	63	100	45	5,210
29	238	206	185	175	156	114	102	710	68	90	45	2,400
30	238	196	185	175	-	112	99	510	105	83	55	1,610
31	238	-	196	175	-	114	-	380	-	80	68	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	8,032	321	227	259	15,930
November	7,433	529	196	248	14,740
December	6,569	404	185	212	13,030
Calendar year 1935	543,270	216,000	50	1,488	1,078,000
January	5,271	196	156	170	10,450
February	4,601	175	137	159	9,130
March	5,075	462	112	164	10,070
April	3,266	137	96	109	6,480
May	11,490	3,110	94	371	22,790
June	4,408	363	63	147	8,740
July	3,444	237	76	111	6,830
August	1,688	76	44	54.5	3,350
September	251,920	93,000	42	8,397	499,700
Water year 1935-36	313,197	93,000	42	856	621,200

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 1936.

Average discharge.- 12 years (1924-36), 228 second-feet.

Extremes.- Maximum discharge during year, 85,300 second-feet Sept. 27 (gage height, 28.4 feet, from graph based on gage readings), from rating curve extended from 7,000 second-feet to 155,000 second-feet, by slope-area method; minimum, 31 second-feet Sept. 13.

1923-36: Maximum discharge, by slope-area method, 155,000 second-feet May 28, 1929 (gage height, 40.4 feet, from floodmarks); no flow at times.

Remarks.- Records good except those above 10,000 second-feet which are poor. Daily discharge during periods of material change in stage determined from graphs drawn on basis of gage readings. Gage was read twice daily except during floods, when usually several readings were made each day. No diversions for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	179	78	50	356	92	78	58	41	518	13,600	137	43
2	168	92	48	323	92	285	55	40	439	1,200	129	50
3	141	71	46	179	89	475	53	45	403	1,020	121	48
4	133	75	45	168	87	352	53	46	352	760	115	51
5	123	113	81	133	82	304	53	45	304	538	109	51
6	109	85	5,850	129	121	231	48	43	274	420	102	44
7	98	75	1,260	123	107	152	46	41	245	336	94	39
8	94	71	538	123	113	121	45	359	218	304	87	35
9	92	68	304	119	109	127	47	2,850	204	274	83	34
10	89	68	204	115	100	119	47	500	192	245	80	33
11	87	64	179	113	89	100	47	231	179	218	76	32
12	83	61	192	111	82	92	47	135	168	192	70	32
13	82	61	179	111	82	89	47	96	154	179	66	31
14	78	61	168	109	78	89	45	78	143	179	64	445
15	75	58	168	104	75	87	43	64	133	179	61	23,100
16	75	57	152	100	75	82	43	57	123	12,000	58	34,700
17	70	57	135	96	71	78	45	51	113	2,660	54	4,360
18	73	58	125	94	68	75	43	46	106	788	51	2,460
19	313	58	123	92	64	75	42	42	98	498	48	1,020
20	265	58	123	89	68	75	41	38	92	386	45	620
21	106	57	125	85	68	71	41	35	89	405	45	538
22	78	55	135	85	68	68	40	34	83	1,220	43	439
23	78	53	137	85	68	68	61	1,960	78	518	40	439
24	119	50	131	85	64	68	55	5,690	75	439	39	386
25	129	50	123	82	68	68	46	2,140	70	352	41	336
26	104	50	117	82	71	64	44	9,740	63	259	41	304
27	91	51	111	82	73	64	41	8,300	58	231	42	39,100
28	83	53	115	85	76	63	45	3,080	58	204	39	19,600
29	80	50	111	85	78	61	43	1,420	61	179	41	1,660
30	73	48	111	91	-	60	41	810	5,540	168	50	1,020
31	71	-	198	92	-	58	-	620	-	150	46	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,439	313	70	111	6,820
November	1,906	113	48	63.5	3,780
December	11.384	5,850	45	367	22,600
Calendar year 1935	197,199.2	68,700	1.8	540	391,200
January	3,726	356	82	120	7,390
February	2,378	121	64	82.0	4,720
March	3,799	475	58	123	7,540
April	1,405	61	40	46.8	2,790
May	38,677	9,740	34	1,248	76,750
June	10,633	5,540	58	354	21,090
July	40,101	13,600	150	1,294	79,540
August	2,117	137	39	68.3	4,200
September	131,050	39,100	31	4,368	259,900
Water year 1935-36	250,615	39,100	31	685	497,100

Guadalupe River near Spring Branch, Tex.

Location.- Water-stage recorder, lat. 29°51'40", long. 98°23'0", 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 1936.

Average discharge.- 14 years, 279 second-feet.

Extremes.- Maximum discharge during year, 48,600 second-feet Sept. 28 (gage height, 33.45 feet); minimum not determined.
1922-36: 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 excellent except those for Apr. 23, 24, 29, 30, May 1-4, 9-11, 14-22, 24, and June 27-30, which were computed on basis of partial gage heights and by comparison with records for station at New Braunfels and are fair. Small diversions for irrigation above gage. Slight regulation during low-water periods caused by operation of water-power plants upstream.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	471	255	206	352	227	182	170	155	711	12,000	312	274
2	443	309	203	325	221	197	164	140	653	2,710	303	255
3	423	296	200	312	221	255	155	132	610	1,940	290	203
4	403	274	200	303	224	296	149	120	560	1,690	280	182
5	384	261	203	293	218	267	158	118	530	1,490	271	176
6	363	249	358	287	215	236	152	112	493	1,150	264	167
7	352	246	1,210	280	218	221	146	112	471	945	255	164
8	349	246	687	277	221	215	143	134	451	953	249	167
9	342	246	455	271	218	212	143	200	435	814	246	155
10	335	242	388	267	212	209	149	233	419	675	236	149
11	325	239	373	264	206	206	155	200	403	626	233	143
12	319	233	419	261	203	200	152	179	381	595	227	134
13	312	227	415	258	203	194	149	137	370	575	212	132
14	306	224	377	255	206	197	146	134	352	535	203	274
15	299	227	352	255	197	197	134	112	349	493	197	18,400
16	287	230	335	252	191	194	134	108	339	1,110	194	23,700
17	287	227	319	249	191	185	132	108	325	2,200	194	10,500
18	306	230	312	252	188	182	137	105	312	820	185	3,670
19	359	230	309	242	185	185	137	103	296	600	182	2,210
20	373	230	303	239	185	182	134	108	283	520	173	1,850
21	315	227	299	236	188	182	140	164	277	484	170	1,630
22	293	227	306	236	185	179	176	158	267	530	164	1,610
23	290	218	309	233	185	182	173	2,020	258	962	158	1,300
24	424	215	303	230	185	182	134	3,720	249	532	167	1,100
25	366	212	293	230	185	179	132	2,270	239	463	173	950
26	315	215	290	230	191	179	129	3,200	230	423	155	980
27	299	221	290	230	191	176	129	2,640	224	399	149	11,000
28	290	224	287	230	188	170	126	2,020	239	377	179	32,000
29	280	218	287	230	185	170	209	1,310	252	359	203	4,940
30	271	209	280	236	-	167	191	977	17,400	342	200	3,240
31	261	-	315	230	-	170	-	807	-	325	224	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,442	471	261	337	20,710
November	7,107	309	209	237	14,100
December	10,883	1,210	200	351	21,590
Calendar year 1935	231,605	66,100	32	635	459,800
January	8,045	352	230	260	15,960
February	5,833	227	185	201	11,570
March	6,148	296	167	198	12,190
April	4,478	209	126	149	8,880
May	22,036	3,720	103	711	43,710
June	28,378	17,400	224	946	56,290
July	37,637	12,000	325	1,214	74,650
August	6,648	312	149	214	13,190
September	121,656	32,000	132	4,055	241,300
Water year 1935-36	269,291	32,000	103	736	534,100

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 1936, March 1898 to December 1899, January 1915 to December 1927 at site 1 mile below Comal River.

Extremes.- Maximum discharge during year, 52,600 second-feet Sept. 28 (gage height, 24.85 feet); minimum, 114 second-feet May 21 (gage height, 1.72 feet).
1927-36: Maximum discharge, 101,000 second-feet June 15, 1935 (gage height, 32.95 feet); 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. Discharge June 11-17, estimated from fragmentary gage-height record. Stage affected by backwater from Comal River June 30. Small diversions above station for irrigation. Slight regulation during low water caused by operation of small power plants upstream.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	743	343	233	386	264	207	207	224	1,020	23,500	447	270
2	673	337	228	423	259	233	199	179	926	4,410	431	324
3	626	393	224	393	254	270	194	166	859	3,070	415	318
4	589	386	224	372	249	305	190	153	794	2,200	401	264
5	554	350	228	357	244	357	186	146	733	2,340	386	244
6	529	337	249	350	249	337	186	136	683	1,760	379	228
7	504	324	683	343	244	299	183	136	636	1,500	365	224
8	487	324	1,040	330	244	280	183	166	599	1,330	350	215
9	471	318	673	324	244	270	179	318	563	1,440	343	215
10	463	312	512	330	238	270	179	179	538	1,160	330	207
11	455	305	487	330	233	264	176	240	512	1,040	318	199
12	439	293	447	324	238	254	179	211	487	949	312	194
13	431	275	495	318	233	254	179	194	463	903	305	186
14	415	270	479	312	233	254	173	163	447	859	286	199
15	401	275	431	312	228	249	163	150	431	816	280	6,320
16	379	275	408	305	224	249	163	163	416	773	275	29,400
17	365	275	393	299	211	238	156	140	401	2,170	270	15,100
18	372	275	379	286	207	233	153	136	379	1,400	259	5,430
19	415	270	372	280	207	228	153	128	365	938	254	2,700
20	463	264	372	275	203	224	163	121	350	784	254	2,050
21	487	264	365	275	207	224	179	117	330	713	244	1,840
22	408	259	365	270	207	228	224	126	318	693	233	1,720
23	386	249	365	264	207	228	176	170	312	763	228	1,540
24	386	244	372	264	207	228	199	3,740	299	1,050	228	1,330
25	553	244	350	264	207	224	186	2,180	286	693	238	1,220
26	471	249	337	259	211	224	166	3,470	270	626	254	1,150
27	415	249	330	259	211	220	156	2,920	264	572	228	2,810
28	393	249	337	259	207	215	207	2,420	264	538	228	32,100
29	372	244	343	259	207	215	173	1,780	275	520	254	14,300
30	357	238	343	264	-	211	173	1,430	8,590	495	270	3,700
31	357	-	343	264	-	207	-	1,180	-	463	264	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,359	743	357	463	28,480
November	8,690	393	238	290	17,240
December	12,407	1,040	224	400	24,610
Calendar year 1935	297,905	52,300	45	816	590,900
January	9,550	423	259	308	18,940
February	6,577	264	203	227	13,050
March	7,699	357	207	248	15,270
April	5,383	224	153	179	10,660
May	22,982	3,740	117	741	45,580
June	22,810	8,590	264	760	45,250
July	60,468	23,500	463	1,951	119,900
August	9,329	447	228	301	18,500
September	125,997	32,100	186	4,200	249,900
Water year 1935-36	306,251	32,100	117	837	607,400

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 Galveston, Harrisburg & San Antonio Railway bridge.

Drainage area.- 5,676 square miles.

Records available.- November 1934 to September 1936.

Extremes.- Maximum discharge during year, 179,000 second-feet July 3 (gage height, 31.22 feet); minimum, 615 second-feet Apr. 13.
1934-36: Maximum discharge, that of July 3, 1936; minimum, 354 second-feet Nov. 13, 1934.

Remarks.- Records good. Gage-height record determined from graph based on once-daily readings of U. S. Weather Bureau, Oct. 7-17, 21, 26, 31, Dec. 23, June 7-9, 11, July 17, Aug. 1-13, Sept. 1-5, 16-17. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12,900	1,240	974	2,460	1,110	896	896	896	12,200	13,600	2,000	1,320
2	3,700	1,220	948	4,620	1,140	1,030	844	792	9,110	33,600	1,810	1,570
3	2,540	1,270	948	4,210	1,110	1,540	818	844	4,720	129,000	1,720	1,540
4	2,180	1,240	1,000	2,150	1,110	1,390	818	740	2,940	122,000	1,660	1,460
5	2,040	1,220	974	1,360	1,080	1,690	870	792	2,450	75,200	1,540	1,180
6	1,840	1,160	974	1,330	1,140	1,810	818	715	2,220	44,400	1,490	1,090
7	1,720	1,220	1,160	1,270	1,080	1,450	870	740	2,010	30,000	1,490	1,040
8	1,690	1,240	2,120	1,240	1,050	1,140	792	690	1,980	21,100	1,370	1,040
9	1,660	1,160	3,100	1,220	1,160	1,220	818	870	1,870	13,300	1,460	1,040
10	1,630	1,080	3,060	1,160	1,140	1,080	844	1,030	1,690	6,220	1,490	980
11	1,600	1,110	3,060	1,140	1,030	1,110	844	1,690	1,690	4,730	1,340	980
12	1,540	1,140	4,930	1,220	1,000	1,080	766	1,160	1,570	3,960	1,340	952
13	1,450	1,110	6,130	1,140	1,050	1,030	715	844	1,510	3,550	1,320	980
14	1,420	1,050	7,130	1,050	1,000	1,000	792	818	1,420	3,190	1,290	980
15	1,420	1,110	5,580	1,110	1,000	922	792	792	1,420	2,940	1,200	980
16	1,390	1,080	2,420	1,140	1,000	896	818	792	1,390	2,860	1,180	952
17	1,240	1,080	1,570	1,110	1,000	948	792	870	1,300	2,580	1,200	1,320
18	1,220	974	1,510	1,110	1,000	948	715	740	1,300	4,730	1,180	2,210
19	1,270	948	1,390	1,050	1,000	922	792	792	1,240	8,500	1,120	7,100
20	1,390	974	1,330	1,030	974	896	715	766	1,160	10,200	1,150	8,940
21	1,630	922	1,270	1,080	1,050	896	766	740	1,190	7,570	1,150	10,800
22	1,870	974	1,240	1,080	974	896	870	1,560	1,190	3,420	1,120	12,900
23	1,690	1,030	1,270	1,050	948	896	870	7,800	1,160	2,900	1,090	8,340
24	1,450	1,000	1,270	1,030	1,000	948	844	24,700	1,160	2,940	1,090	3,600
25	1,330	1,030	1,220	1,050	1,000	896	922	15,000	1,160	3,020	1,060	3,060
26	1,330	1,050	1,240	1,030	1,000	896	922	12,000	1,050	2,980	1,040	3,020
27	1,190	1,030	1,160	1,000	1,110	922	766	12,100	1,080	3,190	1,120	3,190
28	1,220	1,000	1,160	1,080	1,000	922	740	13,500	1,220	2,780	1,120	3,140
29	1,270	896	1,160	1,110	844	818	844	14,900	1,220	2,500	1,120	4,650
30	1,300	870	1,110	1,050	-	792	844	15,600	4,230	2,310	1,150	7,020
31	1,300	-	1,360	1,080	-	844	-	14,100	-	2,100	1,230	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	61,420	12,900	1,190	1,981	121,800
November	32,428	1,270	870	1,081	64,320
December	63,768	7,130	948	2,057	126,500
Calendar year 1935	1,040,384	36,200	483	2,850	2,064,000
January	43,760	4,620	1,000	1,412	86,800
February	30,100	1,160	844	1,038	59,700
March	32,724	1,810	792	1,056	64,910
April	24,517	922	715	817	48,630
May	149,373	24,700	690	4,818	296,300
June	69,850	12,200	1,050	2,328	138,500
July	571,370	129,000	2,100	18,430	1,133,000
August	40,640	2,000	1,040	1,311	80,610
September	97,374	12,900	952	3,246	193,100
Water year 1935-36	1,217,324	129,000	690	3,326	2,414,000

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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 1936.

Extremes.- Maximum stage during year, 20.6 feet Sept. 28, from floodmarks (affected by backwater from Guadalupe River; discharge not determined); minimum discharge, 294 second-feet Apr. 26, May 8, 19 (gage height, 2.95 feet, caused by regulation); minimum mean daily discharge, 322 second-feet Oct. 20, May 8-12, 14-15, 17.

1927-36: Maximum stage, 30.71 feet June 15, 1935, from floodmarks (affected by backwater from Guadalupe River; discharge not determined); minimum discharge, about 142 second-feet Dec. 11, 1928 (gage height, 2.12 feet, caused by regulation); minimum 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 for periods of backwater effect from Guadalupe River May 24-26, June 30 to July 5, July 17, Sept. 15-19, Sept. 27-30, which are poor, those estimated for May 24, 25, May 27 to June 3, and those above 500 second-feet, which are fair. Flow partly regulated by steam-power plant half a mile above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	329	351	362	376	376	362	347	326	398	499	358	365
2	333	358	362	372	376	394	347	329	398	419	358	362
3	333	358	362	376	376	387	347	322	387	398	358	362
4	347	358	362	372	376	369	344	326	380	394	358	358
5	344	354	365	372	376	365	340	326	383	380	354	354
6	344	354	372	372	372	362	340	326	383	369	358	358
7	340	354	372	372	372	354	340	326	383	365	365	358
8	340	354	372	372	372	358	340	322	380	365	362	358
9	340	354	369	369	369	358	336	322	380	369	354	354
10	344	354	365	372	369	362	340	322	383	358	358	354
11	340	354	380	376	372	358	333	322	380	354	354	354
12	340	354	376	376	369	358	333	322	383	390	354	351
13	340	354	372	372	369	358	336	326	383	365	354	354
14	336	354	369	376	369	358	333	322	383	358	354	358
15	344	354	369	376	369	358	336	322	387	358	354	362
16	340	354	372	376	369	354	333	326	387	358	351	369
17	336	354	376	376	362	354	326	322	394	365	354	462
18	358	354	372	376	362	354	329	326	387	358	358	369
19	371	354	376	376	365	354	329	326	390	358	358	369
20	322	354	369	376	365	358	326	333	387	365	354	369
21	326	354	372	380	365	351	347	336	390	365	358	369
22	340	354	372	376	365	354	329	340	390	358	354	362
23	351	358	372	376	365	351	326	426	390	365	358	369
24	351	354	372	376	365	354	333	408	390	369	358	369
25	362	354	369	376	369	354	333	423	387	358	369	365
26	358	354	369	376	365	351	326	733	390	362	372	365
27	358	358	372	376	362	351	329	480	390	362	365	372
28	358	358	372	376	369	351	333	466	394	358	365	380
29	354	358	369	376	369	347	329	416	394	362	358	387
30	354	358	372	376	-	351	326	398	912	362	369	387
31	358	-	372	376	-	351	-	398	-	362	362	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	10,691	371	322	345	21,210
November	10,649	358	351	355	21,120
December	11,477	380	362	370	22,760
Calendar year 1935	123,335	1,610	286	338	244,600
January	11,621	380	369	375	23,050
February	10,699	376	362	369	21,220
March	11,101	394	347	358	22,020
April	10,046	347	326	335	19,930
May	11,318	733	322	365	22,450
June	12,143	912	380	405	24,090
July	11,528	499	354	372	22,870
August	11,116	372	351	359	22,050
September	11,025	462	351	367	21,870
Water year 1935-36	133,414	912	322	365	264,600

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 1936.

Average discharge.- 21 years, 449 second-feet.

Extremes.- Maximum discharge during year, 165,000 second-feet July 1 (gage height, 42.05 feet), from rating curve extended above 12,000 second-feet on basis of slope-area measurement of 125,000 second-feet; minimum, 33 second-feet May 16 (caused by regulation); minimum daily discharge, 83 second-feet May 22.

1915-36: 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 above 12,000 second-feet, which are poor. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	300	191	179	224	224	194	177	142	586	81,200	374	232
2	262	194	176	194	209	239	180	118	501	21,200	356	239
3	232	202	171	190	202	603	158	117	467	6,560	340	232
4	187	194	184	193	194	569	167	116	424	4,770	340	224
5	224	194	177	187	180	450	175	111	390	3,380	324	216
6	216	190	828	190	191	254	168	106	356	1,500	332	209
7	216	190	1,330	179	216	209	158	99	340	1,140	332	216
8	209	191	1,740	179	194	187	162	109	316	1,370	276	209
9	209	190	806	180	202	174	162	157	308	988	284	209
10	202	187	374	176	184	163	147	107	284	773	284	209
11	202	186	1,520	180	193	155	168	132	276	671	276	194
12	194	184	1,920	171	191	136	160	120	269	603	269	194
13	194	184	450	191	179	150	158	116	262	552	262	177
14	194	183	284	187	177	148	146	112	254	501	254	262
15	190	184	254	184	209	149	143	98	246	467	246	450
16	188	183	246	190	188	162	158	88	232	2,750	246	2,570
17	190	181	224	190	174	149	146	154	232	6,690	239	2,200
18	209	176	216	190	186	150	134	116	209	2,180	239	769
19	316	184	216	180	202	153	142	102	216	688	232	844
20	216	180	216	187	194	150	132	106	202	569	232	637
21	232	191	216	188	184	162	157	87	209	484	224	467
22	216	175	216	180	187	163	216	83	202	433	216	433
23	202	183	216	187	187	167	177	546	191	433	216	416
24	202	177	209	191	188	174	146	3,540	194	1,400	209	356
25	194	175	202	184	190	162	131	6,480	184	1,490	216	332
26	194	181	209	194	194	176	131	4,110	179	739	216	332
27	202	202	174	194	202	176	120	4,040	174	569	246	416
28	202	186	194	202	187	172	166	7,480	183	501	262	1,880
29	194	187	194	202	209	175	188	2,500	175	450	276	2,970
30	194	174	216	209	-	177	141	3,660	190	424	269	880
31	194	-	467	202	-	179	-	812	-	390	254	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,576	316	187	212	13,040
November	5,579	202	174	186	11,070
December	14,024	1,920	171	452	27,820
Calendar year 1935	215,986	9,870	107	592	428,400
January	5,875	224	171	190	11,650
February	5,617	224	174	194	11,140
March	6,427	603	136	207	12,750
April	4,714	216	120	157	9,350
May	35,664	7,480	83	1,150	70,740
June	8,251	586	174	275	16,370
July	145,865	81,200	390	4,705	289,300
August	8,341	374	209	269	16,540
September	18,974	2,970	177	632	37,630
Water year 1935-36	265,907	81,200	83	727	527,400

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 1936.

Average discharge.- 10 years, 101 second-feet.

Extremes.- Maximum discharge during year, 25,300 second-feet July 1 (gage height, 16.87 feet); minimum, 21 second-feet May 21 (gage height, 0.35 foot).
1924-26, 1928-36: 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 above 10,000 second-feet, which are fair, and those estimated for Sept. 25-30, which are poor. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	82	47	35	78	41	31	35	29	220	4,740	155	82
2	76	47	35	64	41	37	35	27	199	1,410	149	69
3	71	47	35	55	39	39	35	26	182	766	142	66
4	61	47	37	53	39	64	31	26	165	819	136	64
5	64	49	39	51	39	49	31	26	152	852	130	60
6	62	44	98	51	39	44	31	24	146	551	123	57
7	60	44	166	51	39	41	31	24	136	493	120	55
8	57	44	87	49	41	39	29	45	126	433	114	55
9	57	44	62	49	39	39	29	37	117	423	109	55
10	57	44	53	49	37	41	29	26	114	365	106	53
11	57	43	55	49	37	41	29	26	106	333	100	49
12	55	41	60	47	37	39	29	26	100	307	98	47
13	57	41	66	49	35	37	29	26	100	294	92	47
14	53	41	55	47	35	39	27	26	95	274	92	63
15	51	41	53	44	35	41	27	24	89	258	87	4,310
16	51	41	49	44	33	39	26	24	84	634	82	730
17	49	43	49	44	33	39	26	24	79	547	79	597
18	76	43	49	44	31	39	26	24	76	320	79	495
19	85	41	47	44	31	37	26	22	69	274	76	265
20	62	41	47	43	31	39	26	22	66	254	74	199
21	53	41	47	43	31	39	29	22	64	239	71	182
22	51	39	47	41	29	37	37	24	62	228	69	155
23	55	39	49	41	29	37	37	931	60	892	66	149
24	60	39	49	41	29	39	29	270	57	1,100	66	133
25	64	39	44	41	29	39	27	139	55	278	113	126
26	57	37	43	39	31	37	26	1,960	51	235	82	1,110
27	53	37	44	39	29	37	26	942	51	210	71	
28	51	39	44	41	29	37	39	639	51	192	69	
29	49	37	44	43	29	35	31	398	62	178	74	
30	47	37	44	44	-	33	35	302	6,640	172	79	
31	55	-	49	43	-	33	-	250	-	162	71	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,838	85	47	59.3	3,650
November	1,257	49	37	41.9	2,490
December	1,681	166	35	54.2	3,330
Calendar year 1935	50,731	7,210	13	139	100,600
January	1,461	78	39	47.1	2,900
February	997	41	29	34.4	1,980
March	1,217	64	31	39.3	2,410
April	903	39	26	30.1	1,790
May	6,411	1,960	22	207	12,720
June	9,574	6,640	51	319	18,990
July	18,233	4,740	162	588	36,160
August	2,974	155	66	95.5	5,900
September	13,713	-	47	457	27,200
Water year 1935-36	60,259	6,640	22	165	119,500

Plum Creek near Luling, Tex.

Location.- Water-stage recorder, lat. 29°42', long. 97°37', at highway bridge 2 miles above Galveston, Harrisburg & San Antonio Railway 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 1936.

Extremes.- Maximum discharge during year, 78,500 second-feet July 1 (gage height, 25.7 feet, from floodmarks), from rating curve extended above 54,000 second-feet; minimum, 5.5 second-feet May 21, 22.
1930-36: Maximum discharge, that of July 1, 1936; minimum, 0.8 second-foot July 19, 1934.

Remarks.- Records fair except those estimated on basis of fragmentary gage-height records and records for station on San Marcos River at Ottine, which are poor. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	9.7	9.3	27	18	21	10	8.6	*28	43,800	*22	12
2	14	11	9.3	23	19	32	9.3	8.2	*18	5,980	*21	12
3	14	11	9.7	21	18	338	8.6	8.2	*18	2,180	*19	10
4	13	10	11	21	17	167	8.6	8.2	*17	1,790	*18	9.3
5	13	9.7	12	20	17	151	8.9	7.9	*17	733	17	8.9
6	*13	8.9	376	20	17	38	8.9	8.6	*17	108	17	11
7	*12	9.3	753	19	19	23	8.2	8.6	*17	92	17	11
8	*12	9.7	1,440	19	17	18	8.6	8.9	*16	627	17	8.6
9	*12	9.7	128	19	17	16	9.3	8.9	*16	167	15	8.2
10	*11	9.3	23	19	16	13	9.7	8.2	*16	96	15	8.6
11	*10	8.6	624	19	15	12	9.3	7.7	*16	*48	13	8.6
12	*10	8.6	726	20	16	10	9.3	7.9	*15	*35	13	8.2
13	*9.7	8.9	90	19	16	10	9.7	10	15	*31	13	8.6
14	*9.7	8.9	39	19	16	10	10	8.2	16	*28	12	13
15	*9.3	9.3	28	18	15	10	10	7.1	14	*27	12	123
16	*9.3	8.9	25	18	15	10	10	6.8	14	1,200	12	88
17	*9.3	8.9	23	19	15	9.7	10	52	13	2,290	11	38
18	32	8.9	23	18	17	10	10	9.7	12	250	11	25
19	37	8.9	23	16	17	10	9.7	11	12	*57	11	19
20	*11	8.9	23	16	17	10	10	12	12	45	11	22
21	*11	8.9	22	16	17	11	11	6.3	12	40	11	17
22	*11	8.9	22	17	17	11	20	9.8	11	36	11	29
23	*11	8.9	22	16	18	11	8.9	261	11	136	11	22
24	*10	9.7	22	17	19	11	8.6	2,350	11	616	11	11
25	*10	9.3	21	17	19	10	8.2	3,150	11	226	13	9.3
26	*10	10	21	17	21	10	8.2	1,230	11	54	16	15
27	*9.7	13	21	16	20	10	8.2	1,920	11	*30	15	*258
28	*9.7	11	22	17	20	10	18	1,810	12	*26	25	
29	9.3	9.7	22	17	21	10	13	836	13	*25	43	
30	9.3	9.3	22	18	-	10	13	817	48	*23	18	
31	9.3	-	37	18	-	10	-	58	-	*22	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	385.6	37	9.3	12.4	765
November	285.8	13	8.6	9.53	567
December	4,649.3	1,440	9.3	150	9,220
Calendar year 1935	56,344.9	-	3.2	154	111,800
January	576	27	16	18.6	1,140
February	506	21	15	17.4	1,000
March	1,032.7	338	9.7	33.3	2,050
April	305.2	20	8.2	10.2	605
May	12,664.8	3,150	6.3	409	25,120
June	470	48	11	15.7	932
July	60,818	43,800	22	1,962	120,600
August	483	43	11	15.6	958
September	1,581.3	-	8.2	52.7	3,140
Water year 1935-36	83,757.7	43,800	6.3	229	166,100

*Estimated.

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 1936.

Average discharge.- 11 years, 277 second-feet.

Extremes.- Maximum discharge during year, 16,200 second-feet July 3 (gage height, 19.44 feet); minimum, 185 second-feet Apr. 20 (gage height, 1.40 feet).
1925-36: Maximum discharge, that of July 3, 1936; maximum gage height, 22.3 feet June 13, 1935 (backwater); minimum discharge, 36 second-feet May 11, 12, 1928 (gage height, 0.97 foot).
Maximum stage known, 28.36 feet in September 1913.

Remarks.- Records good except those estimated for May 13 to June 10, Sept. 19-27 on basis of indicated range of stage on graph and records for Cibolo Creek near Falls City and Atascosa River at Whitsett, and those interpolated for Mar. 21 to Apr. 9, 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,100	340	252	335	387	242	216	414		4,600	436	580
2	932	330	252	478	430	413	214	335		9,610	414	587
3	816	345	252	509	414	528	212	252	1,400	15,400	408	490
4	732	350	256	387	376	774	210	228		13,500	408	430
5	669	335	261	335	305	541	208	219		6,860	403	350
6	620	325	290	330	261	448	206	215		3,640	403	305
7	580	325	325	315	256	392	204	211		2,370	392	300
8	554	320	454	300	256	295	202	266	630	2,020	392	295
9	522	315	454	305	256	275	200	295		1,820	381	290
10	496	305	414	315	252	266	198	1,160		1,380	381	285
11	472	295	414	315	256	261	198	620	460	1,180	381	275
12	448	290	340	310	261	252	198	392	425	1,130	381	275
13	436	285	305	300	261	252	198		392	996	376	270
14	419	285	300	300	261	252	198		356	948	376	270
15	408	280	340	295	256	252	198		340	900	371	285
16	398	285	350	280	252	252	198		315	1,020	366	335
17	387	430	356	275	247	252	198		320	940	356	518
18	376	460	356	266	242	242	198		315	851	350	2,340
19	371	436	356	261	247	237	194	350	310	830	340	
20	809	305	350	320	242	237	185		305	774	466	
21	554	270	340	419	242	236	215		300	739	509	
22	419	261	325	310	242	236	237		295	697	478	
23	403	261	335	261	242	234	252		290	662	442	2,220
24	392	256	340	252	242	232	350		285	648	408	
25	442	256	350	252	247	230	350		280	613	325	
26	414	256	345	252	247	228	252		325	580	300	
27	398	261	335	242	242	226	206		305	554	300	
28	381	261	335	247	247	224	285	5,000	315	528	300	1,220
29	371	261	335	252	247	222	419		425	503	305	1,780
30	356	252	325	256	-	220	669		1,080	484	376	4,520
31	361	-	387	261	-	218	-		-	460	448	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	16,036	1,100	356	517	31,810
November	9,236	460	252	308	18,320
December	10,429	454	252	336	20,690
Calendar year 1935	258,164	13,800	95	707	512,100
January	9,535	509	242	308	18,910
February	7,916	430	242	273	15,700
March	9,169	774	218	296	18,190
April	7,268	669	185	242	14,420
May	39,157	-	211	1,263	77,670
June	17,588	-	280	586	34,890
July	77,237	15,400	460	2,492	153,200
August	11,972	509	300	386	23,750
September	35,980	4,520	270	1,199	71,370
Water year 1935-36	251,523	15,400	185	687	498,900

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 1936.

Extremes.- Maximum discharge during year, 16,200 second-feet July 2 (gage height, 26.90 feet, crest); minimum, 17 second-feet Apr. 15 (gage height, 1.05 feet).
1930-36: Maximum discharge, about 28,600 second-feet June 14, 1935 (gage height, 33.0 feet, from floodmarks), from rating curve extended above 14,000 second-feet; minimum, 6.8 second-feet Oct. 31, Nov. 1, 1931, May 24, 1933.

Remarks.- Records good except those for Aug. 15 to Sept. 27, which were estimated on basis of indicated range of stage on gage-height graph and rainfall data, and are fair. No large diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55	29	26	51	26	23	20	32	148	5,680	40	
2	46	29	25	44	27	48	20	25	93	13,100	39	
3	39	29	25	37	30	138	19	23	70	1,980	38	
4	36	30	28	30	29	232	19	20	58	994	38	
5	34	30	34	27	27	92	20	19	49	1,220	38	
6	31	29	39	26	27	62	19	19	43	718	38	
7	30	28	185	25	27	45	19	19	39	523	37	
8	30	28	50	24	26	38	19	75	36	839	36	
9	30	28	32	24	25	46	19	72	33	612	34	21
10	29	28	34	23	25	36	19	238	31	240	34	
11	28	28	256	23	24	33	18	50	30	170	33	
12	27	27	262	24	24	30	18	30	27	139	33	
13	27	27	158	24	25	27	18	25	27	173	31	
14	27	26	67	24	25	26	18	35	26	172	30	
15	27	26	48	23	24	25	17	49	25	165		
16	27	26	38	24	23	24	18	30	25	157		
17	26	26	33	23	23	23	18	23	24	89		482
18	27	27	30	23	23	23	18	23	23	74		
19	80	27	30	23	23	23	18	22	23	66		
20	351	27	30	23	23	23	18	20	22	61		
21	77	27	30	23	22	22	20	19	21	57		
22	49	26	33	23	23	21	69	19	21	55		
23	39	25	31	23	23	22	105	310	21	53	26	40
24	35	25	31	23	23	22	36	406	20	68		
25	31	25	33	23	23	21	26	90	20	62		
26	30	25	31	23	23	21	23	1,020	19	54		
27	30	30	30	23	23	21	20	4,940	26	54		
28	33	27	30	25	23	20	87	2,140	36	48		56
29	31	26	29	25	23	20	52	851	32	46		335
30	30	26	34	25	-	20	46	1,060	42	44		291
31	30	-	397	25	-	20	-	545	-	43		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,422	351	26	45.9	2,820
November	817	30	25	27.2	1,620
December	2,139	397	25	69.0	4,240
Calendar year 1935	102,025	18,100	14	280	202,400
January	806	51	23	26.0	1,600
February	712	30	22	24.6	1,410
March	1,247	232	20	40.2	2,470
April	856	105	17	28.5	1,700
May	12,249	4,940	19	395	24,300
June	1,110	148	19	37.0	2,200
July	27,756	13,100	43	895	55,050
August	941	40	-	30.4	1,870
September	2,342	-	-	78.1	4,650
Water year 1935-36	52,397	13,100	17	143	103,900

Nueces River at Laguna, Tex.

Location.- Water-stage recorder, lat. 29°26', long. 100°0', half a mile below Sycamore Creek and 1 mile northeast of Laguna, Uvalde County.

Drainage area.- 764 square miles.

Records available.- October 1923 to September 1936.

Average discharge.- 13 years, 173 second-feet.

Extremes.- Maximum discharge during year, 114,000 second-feet Sept. 16 (gage height, 21.30 feet); minimum, 47 second-feet Aug. 24.

1923-36: Maximum discharge, by slope-area method, 213,000 second-feet June 14, 1935 (gage height, 26.0 feet, from floodmarks); minimum, 7.8 second-feet Nov. 3-15, 18, 1934.

The flood of Sept. 21, 1923, reached a stage of 26.5 feet (discharge, by slope-area method, 226,000 second-feet). The flood of June 1913 was 2 or 3 feet higher than that of 1923. Previously published information in regard to flood of 1903 is in error; no large flood occurred at that time.

Remarks.- Records good. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	218	134	107	115	91	84	80	86	80	470	88	76
2	210	134	105	113	91	93	78	84	78	309	86	70
3	204	134	105	111	91	97	80	84	76	241	84	69
4	198	132	117	109	91	97	78	82	74	212	82	63
5	190	130	130	109	90	93	76	80	72	190	78	61
6	185	130	127	107	90	91	70	76	70	174	76	59
7	179	130	125	107	90	91	74	76	67	161	74	59
8	176	130	121	105	88	93	76	78	65	149	70	56
9	171	127	119	105	88	93	76	76	65	145	69	54
10	168	127	119	105	88	93	74	74	63	138	67	52
11	168	123	132	105	88	88	74	72	61	136	67	52
12	163	121	130	105	88	90	74	72	59	132	63	52
13	161	121	125	103	88	90	74	72	58	130	61	52
14	158	119	123	103	86	90	74	70	59	127	59	82
15	156	119	121	101	86	88	74	70	58	127	58	22,900
16	152	119	119	101	86	84	72	70	58	138	56	26,400
17	149	119	117	99	84	86	70	69	56	136	54	3,890
18	149	119	117	95	84	86	72	69	56	132	54	1,900
19	156	117	115	97	84	84	72	74	56	125	52	1,320
20	156	117	115	97	84	84	72	69	56	121	52	1,030
21	149	115	119	95	84	84	70	67	54	117	51	866
22	149	113	117	95	84	84	90	78	52	115	51	755
23	145	111	115	95	84	84	95	121	51	115	51	674
24	145	111	117	95	84	82	86	105	56	113	47	602
25	145	111	117	95	84	82	80	99	56	107	50	559
26	145	113	117	95	84	82	77	95	54	105	78	538
27	145	111	117	93	86	80	87	95	52	103	63	1,980
28	142	109	115	93	86	82	105	97	58	99	63	1,600
29	138	109	113	93	86	82	95	93	858	95	65	1,020
30	136	109	113	93	-	82	90	88	1,310	91	70	810
31	134	-	113	93	-	82	-	82	-	91	78	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,040	218	134	163	10,000
November	3,614	134	109	120	7,170
December	3,662	132	105	118	7,260
Calendar year 1935	234,428	107,000	12	642	465,000
January	3,127	115	93	101	6,200
February	2,518	91	84	86.8	4,990
March	2,701	97	80	87.1	5,360
April	2,365	105	70	78.8	4,690
May	2,523	121	67	81.4	5,000
June	3,888	1,310	51	130	7,710
July	4,644	470	91	150	9,210
August	2,017	88	47	65.1	4,000
September	67,701	26,400	52	2,257	134,300
Water year 1935-36	103,800	26,400	47	284	205,900

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.

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 1936.

Extremes.- Maximum discharge during year, 55,000 second-feet Sept. 16 (gage height, 16.2 feet, from floodmarks); minimum, 21 second-feet May 14-23, June 3-13 (gage height, 0.29 foot).

1927-36: Maximum discharge, by slope-area method, 616,000 second-feet June 14, 1935 (gage height, 36.9 feet, from floodmarks); minimum, not determined but probably that of 0.2 second-foot Feb. 12-22, 1929.

Remarks.- Records fair. No record June 29 to July 1, Sept. 15-17, except peak stage for flood on Sept. 16. Gage read once daily except during flood periods, when daily discharge was determined from graph drawn on basis of twice-daily gage readings. No diversions for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	192	77	45	47	35	35	27	22	22	-	45	30
2	183	77	45	45	34	37	26	22	22	411	43	30
3	179	77	45	45	34	37	26	22	21	262	43	30
4	175	73	45	45	34	37	26	22	21	209	43	28
5	158	73	45	45	34	35	24	22	21	183	43	28
6	158	70	43	45	33	35	24	22	21	150	41	28
7	154	70	43	45	33	35	24	22	21	138	41	28
8	150	66	47	45	32	35	24	22	21	122	41	28
9	146	66	51	45	32	35	26	22	21	114	41	28
10	142	63	56	45	32	35	26	22	21	107	40	28
11	134	61	63	45	32	35	26	22	21	99	40	26
12	134	58	80	45	32	35	26	22	21	91	40	26
13	126	56	77	45	32	35	26	22	21	91	38	26
14	118	53	70	43	32	35	24	21	24	88	38	28
15	114	53	63	41	32	38	24	21	24	88	38	-
16	114	51	53	40	32	40	24	21	27	84	35	-
17	110	51	58	40	32	41	24	21	27	84	35	-
18	110	51	56	40	32	41	24	21	29	84	35	4,730
19	107	51	53	40	32	41	24	21	32	77	35	2,550
20	107	51	51	40	32	40	23	21	32	70	33	1,870
21	107	49	53	40	32	38	23	21	32	70	33	1,230
22	103	49	51	40	32	37	23	21	32	61	33	870
23	103	49	49	40	32	35	22	21	29	61	33	752
24	99	49	47	40	32	34	22	22	29	56	33	640
25	99	47	49	40	33	33	22	22	29	56	33	605
26	99	47	47	38	34	33	22	22	29	53	30	538
27	95	47	47	38	34	32	22	22	29	49	30	2,790
28	91	47	47	38	34	30	22	29	29	49	30	1,880
29	88	45	47	38	34	29	22	24	-	47	30	1,170
30	84	45	49	37	-	28	22	22	-	47	30	910
31	80	-	49	37	-	27	-	22	-	47	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,859	192	80	124	7,650
November	1,722	77	45	57.4	3,420
December	1,624	80	43	52.4	3,220
Calendar year 1935	334,213S	147,000	2.6	916	662,200
January	1,297	47	37	41.8	2,570
February	950	35	32	32.8	1,880
March	1,093	41	27	35.3	2,170
April	720	27	22	24.0	1,430
May	681	29	21	22.0	1,350
June	-	-	21	-	-
July	-	-	47	-	-
August	1,133	45	30	36.5	2,250
September	-	-	26	-	-
Water year					

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 (general adjustment of 1929).

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

Records available.- October 1923 to September 1936, July 1915 to June 1918 at site near Cotulla, 4 miles upstream.

Average discharge.- 13 years (1923-36), 385 second-feet.

Extremes.- Maximum discharge during year, 14,500 second-feet Sept. 16 (gage height, 19.5 feet); no flow at times.
1923-36: Maximum discharge, by slope-area method, 82,600 second-feet June 18, 1935 (gage height, 32.4 feet, from floodmarks); no flow at times.

Remarks.- Records good except those below 500 second-feet, which are poor. Daily discharge for Nov. 1 to Dec. 10 determined from graph drawn on basis of once-daily gage readings furnished by U. S. Weather Bureau. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	346	93	55	54	27	18	5.5	46	545	649	31	7.6
2	291	93	55	54	28	18	4.9	44	484	1,310	29	56
3	270	93	50	54	29	17	4.3	46	350	2,610	28	111
4	253	93	46	54	28	17	3.6	52	222	3,820	27	211
5	233	91	46	53	29	17	3.6	54	124	7,470	25	128
6	217	90	46	53	31	17	2.8	54	78	13,100	24	51
7	204	90	46	52	30	17	1.6	52	56	13,300	22	28
8	195	91	47	50	28	17	0	50	41	9,410	21	22
9	186	93	53	50	27	16	0	48	33	6,200	18	13
10	178	91	59	48	26	15	0	48	27	3,390	13	9.0
11	169	92	67	46	25	15	0	48	23	1,740	10	6.6
12	162	92	65	44	24	18	0	46	21	636	8.0	5.4
13	153	89	66	41	23	18	0	46	17	314	8.5	5.4
14	148	88	65	38	21	18	0	46	16	245	6.2	17
15	140	86	64	36	21	18	0	59	13	236	4.6	99
16	134	84	64	34	21	17	0	63	10	200	3.4	10,000
17	127	81	64	34	20	16	0	57	8.5	148	2.6	12,600
18	121	78	66	33	20	15	0	50	7.5	131	1.9	8,880
19	116	78	66	31	19	15	0	48	5.8	128	1.5	7,160
20	109	78	65	31	19	14	0	45	4.2	106	1.5	8,160
21	104	72	65	29	19	13	0	42	3.8	88	1.1	11,400
22	100	70	65	28	19	13	0	42	1.5	84	1.1	12,300
23	99	70	63	27	19	13	2.1	67	0	74	1.1	10,300
24	96	67	61	27	19	9.8	55	54	0	66	1.1	7,480
25	93	58	60	28	19	9.4	50	63	8.2	61	1.5	4,310
26	92	46	58	28	19	9.0	49	339	8.0	55	1.5	2,320
27	96	42	59	27	19	8.2	51	537	4.6	47	1.5	1,910
28	98	44	58	27	19	7.4	54	880	96	43	1.5	1,560
29	98	41	57	27	18	6.7	50	980	38	41	3.0	3,300
30	98	44	55	27	-	6.4	49	836	201	38	4.6	4,280
31	95	-	56	27	-	5.8	-	570	-	35	3.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,821	346	92	156	9,560
November	2,318	93	41	77.3	4,600
December	1,812	67	46	58.5	3,590
Calendar year 1935	520,346.5	79,000	0	1,426	1,032,000
January	1,192	54	27	38.5	2,360
February	666	31	18	23.0	1,320
March	434.7	18	5.8	14.0	862
April	386.4	55	0	12.9	766
May	5,412	980	42	175	10,730
June	2,447.1	545	0	81.6	4,850
July	65,775	13,300	35	2,122	130,500
August	307.6	31	1.1	9.92	610
September	106,730.0	12,600	5.4	3,558	211,700
Water year 1935-36	192,301.8	13,300	0	525	381,400

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, a part of which is noncontributing at low stages, owing to water entering faults near Uvalde.

Records available.- July 1915 to September 1936.

Average discharge.- 19 years (1915-18, 1920-36), 802 second-feet.

Extremes.- Maximum discharge during year, 28,300 second-feet July 3 (gage height, 40.1 feet, from floodmarks); minimum, 37 second-feet Apr. 17 (gage height, 2.18 feet).
1915-36: Maximum discharge, about 85,000 second-feet Sept. 18, 1919 (gage height, 46.0 feet); no flow at times.

Remarks.- Records good. Daily discharge for June 8-10, June 21 to Aug 2 determined from graph drawn on basis of once-daily gage readings furnished by U. S. Weather Bureau. About 10,000 acres irrigated above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3,810	425	78	534	80	61	51	146	3,110	11,200	244	1,620
2	3,630	375	75	276	80	157	48	217	2,450	23,300	202	1,170
3	3,250	296	69	204	80	1,660	46	215	1,750	26,500	144	416
4	2,940	244	84	186	78	2,450	47	144	1,420	17,400	130	242
5	2,570	200	118	178	77	1,530	47	106	1,290	10,200	112	350
6	2,080	176	100	168	77	1,420	43	84	1,020	7,850	98	494
7	1,010	164	150	160	78	1,450	40	75	758	7,260	92	383
8	781	156	132	156	77	1,500	40	87	516	5,540	90	405
9	689	148	110	156	75	915	41	546	339	3,690	88	383
10	597	142	92	156	71	296	41	781	259	3,130	86	307
11	540	138	170	152	71	184	40	1,090	196	2,760	86	190
12	494	128	476	146	71	146	40	1,030	156	2,730	78	194
13	460	120	328	142	71	134	39	712	120	3,470	73	204
14	427	114	225	136	69	124	39	643	102	5,640	73	128
15	394	114	562	128	68	112	39	804	92	7,220	69	80
16	372	112	712	124	68	100	39	419	86	7,220	69	71
17	339	112	356	120	69	88	58	265	82	6,330	69	189
18	318	110	174	112	75	77	132	620	80	5,490	68	666
19	342	110	200	106	73	71	104	1,310	77	4,680	66	996
20	1,030	114	259	100	73	66	75	2,000	73	3,840	64	1,410
21	1,340	120	204	96	71	69	61	1,710	64	1,980	61	2,270
22	996	108	186	92	68	73	56	637	54	781	58	3,300
23	804	96	180	88	66	71	46	1,070	50	643	57	4,780
24	528	92	178	88	66	66	44	2,920	50	551	56	5,300
25	449	94	148	88	66	63	121	3,130	39	551	58	5,450
26	307	94	168	86	64	63	608	2,860	39	416	58	6,200
27	259	96	166	86	63	60	1,100	2,590	555	350	104	6,800
28	236	100	166	86	63	58	748	4,520	2,660	350	66	8,050
29	208	88	168	86	61	54	350	7,110	2,030	307	75	9,270
30	208	86	182	86	-	53	227	7,080	5,190	286	162	9,000
31	240	-	356	82	-	53	-	5,080	-	265	651	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31,648	3,810	208	1,021	62,770
November	4,465	425	86	149	8,860
December	6,572	712	69	212	13,040
Calendar year 1935	1,256,899.2	63,400	6.0	3,444	2,493,000
January	4,404	534	82	142	8,740
February	2,069	80	61	71.3	4,100
March	13,224	2,450	53	427	26,230
April	4,410	1,100	39	147	8,750
May	50,001	7,110	75	1,613	99,130
June	24,707	5,190	39	824	49,010
July	171,930	26,500	265	5,546	341,000
August	3,407	651	56	110	6,760
September	70,318	9,270	71	2,344	139,500
Water year 1935-36	387,155	26,500	39	1,058	767,900

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 1936; records of discharge only from 1915 to 1918.

Extremes.- Maximum gage height observed during year, 10.50 feet July 7; minimum, 3.15 feet June 25.

1915-36: Maximum gage height observed, 12.40 feet 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 City of Corpus Christi. Gage read twice daily.

Gage height, in feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.50	3.80	3.52	4.10	3.55	3.75	3.50	4.20	7.82	5.62	3.90	4.00
2	9.05	3.85	3.48	4.08	3.55	4.10	3.62	4.20	8.12	6.30	3.90	3.90
3	8.45	3.95	3.52	4.10	3.55	4.65	3.62	3.95	8.05	7.10	3.90	4.02
4	7.72	3.92	3.50	3.95	3.50	4.60	3.60	3.90	7.28	7.72	3.88	4.20
5	7.15	3.90	3.55	3.92	3.58	4.45	3.65	3.90	6.15	8.50	3.90	4.20
6	6.68	3.90	3.60	3.82	3.42	4.45	3.58	3.88	5.02	9.50	3.90	4.20
7	6.28	3.80	3.62	3.78	3.40	4.45	3.60	3.82	4.78	10.48	3.88	4.20
8	5.75	3.75	3.70	3.82	3.68	4.45	3.58	3.40	4.58	10.32	3.90	4.05
9	5.05	3.65	3.72	3.78	4.10	4.45	3.55	3.55	4.60	9.82	3.90	3.95
10	4.90	3.65	3.70	3.65	4.12	4.45	3.55	4.85	4.45	9.32	3.90	3.92
11	4.20	3.65	3.78	3.62	4.15	4.45	3.65	5.45	4.32	8.90	3.82	3.92
12	4.05	3.95	3.92	3.70	4.15	4.45	3.70	4.80	4.25	8.50	3.72	3.95
13	4.05	3.70	3.82	3.70	4.20	4.42	3.60	4.78	4.18	7.88	3.62	3.95
14	4.05	3.50	3.88	3.68	4.25	4.25	3.60	4.50	3.92	7.25	3.62	3.85
15	4.00	3.50	3.95	3.60	4.25	4.20	3.65	4.25	3.82	6.85	3.60	3.78
16	4.00	3.62	3.90	3.65	4.20	4.20	3.68	4.20	3.80	7.00	3.50	3.78
17	4.00	3.62	3.95	3.65	4.25	4.20	3.70	4.20	3.75	7.50	3.50	3.92
18	4.00	3.55	4.08	3.62	4.22	4.20	3.70	4.20	3.68	7.98	3.48	3.88
19	3.95	3.55	4.02	4.10	4.20	4.02	3.70	4.18	3.50	8.30	3.40	4.58
20	3.92	3.55	3.90	3.68	4.20	3.90	3.52	4.08	3.42	8.40	3.35	4.80
21	3.90	3.50	3.88	3.60	4.05	3.85	3.45	4.12	3.40	8.28	3.40	5.25
22	4.30	3.50	3.85	3.58	3.98	3.68	3.40	4.35	3.35	7.88	3.40	5.52
23	4.55	3.58	3.82	3.48	3.95	3.70	3.40	4.40	3.35	7.02	3.40	5.68
24	4.68	3.52	3.80	3.55	3.92	3.70	3.35	5.48	3.30	5.15	3.35	5.82
25	4.45	3.45	3.80	3.55	3.92	3.65	3.35	5.30	3.25	4.40	3.35	5.92
26	4.20	3.45	3.80	3.55	3.95	3.68	3.35	4.75	3.30	4.25	3.32	5.98
27	4.08	3.52	3.75	3.60	3.95	3.62	3.40	4.68	3.38	4.12	3.32	6.00
28	3.98	3.60	3.60	3.60	3.82	3.65	3.98	5.50	4.30	4.02	3.40	6.20
29	3.90	3.65	3.60	3.55	3.75	3.65	4.15	6.35	5.18	3.98	3.42	7.00
30	3.82	3.55	3.60	3.55	-	3.68	4.15	6.80	5.50	4.08	3.60	7.65
31	3.78	-	3.92	3.60	-	3.55	-	7.38	-	3.98	3.82	-

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 1936.

Average discharge.- 11 years (1924-29, 1930-36), 130 second-feet.

Extremes.- Maximum discharge during year, about 103,000 second-feet Sept. 16 (gage height, 30.6 feet, from floodmarks); minimum, 43 second-feet Sept. 10-14.
1923-36: Maximum discharge, by slope-area method, 162,000 second-feet July 1, 1932 (gage height, 34.44 feet, from floodmarks); minimum, 8.1 second-feet Aug. 2, 3, 1928.

Remarks.- Records good except those estimated for Oct. 1-25 from fragmentary gage-height record and rainfall records, which are fair, and those above 500 second-feet, which are poor. No diversions above gage.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	204	130	103	123	107	91	72	97	100	116	66	61
2	204	130	100	123	107	97	69	91	100	103	66	58
3	200	130	100	123	103	103	69	91	100	97	66	55
4	200	130	100	120	100	100	69	91	100	103	66	55
5	196	130	103	120	100	97	72	87	100	103	64	52
6	196	130	123	120	100	94	72	81	100	103	64	52
7	192	130	144	120	97	94	72	81	97	100	61	50
8	192	127	151	120	97	97	72	87	97	97	58	50
9	188	127	147	116	97	97	72	87	97	97	58	48
10	184	123	140	116	97	94	72	87	94	97	58	45
11	184	120	151	116	97	91	72	87	94	94	58	43
12	180	116	147	116	97	91	72	87	87	94	58	43
13	180	116	144	113	97	87	72	84	94	97	58	43
14	177	116	140	113	97	87	72	87	100	94	58	97
15	177	116	140	113	97	87	72	87	94	91	58	701
16	173	116	133	113	97	87	75	84	91	100	55	13,100
17	173	113	133	113	94	87	75	84	84	97	55	1,010
18	169	113	133	107	94	87	75	81	84	94	52	876
19	166	113	133	107	94	84	69	84	81	91	52	622
20	166	113	130	107	94	84	99	84	78	84	52	486
21	162	110	130	107	94	84	162	84	78	78	50	440
22	162	110	130	107	94	84	94	97	78	78	50	388
23	158	110	130	107	94	84	84	127	75	78	50	362
24	158	110	130	107	94	81	81	127	72	78	48	318
25	154	110	130	107	94	81	78	116	72	78	48	318
26	147	110	130	107	91	81	78	116	72	72	48	376
27	144	107	130	107	91	75	300	113	72	72	48	6,050
28	140	107	127	107	91	75	158	113	72	69	48	1,370
29	140	107	127	107	91	75	120	123	228	66	48	980
30	137	107	123	107	-	75	107	110	158	64	55	811
31	133	-	123	107	-	75	-	100	-	66	61	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,336	204	133	172	10,580
November	3,527	130	107	118	7,000
December	4,005	151	100	129	7,940
Calendar year 1935	123,224	22,700	22	338	244,400
January	3,496	123	107	113	6,930
February	2,797	107	91	96.4	5,550
March	2,706	103	75	87.3	5,370
April	2,726	300	69	90.9	5,410
May	2,955	127	81	95.3	5,860
June	2,849	228	72	95.0	5,650
July	2,751	116	64	88.7	5,460
August	1,737	66	48	56.0	3,450
September	28,960	13,100	43	965	57,440
Water year 1935-36	63,845	13,100	43	174	126,600

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 below Concan.

Records available.- August 1915 to September 1936.

Average discharge.- 21 years, 196 second-feet.

Extremes.- Maximum discharge during year, 13,700 second-feet Sept. 29 (gage height, 11.52 feet); minimum, 10 second-feet Aug. 16-20, 24-28.
1915-36: Maximum discharge, by slope-area method, 230,000 second-feet July 4, 1932 (gage height, 29.45 feet, from floodmarks); no flow at times.

Remarks.- Records good, except those interpolated for July 24-31, which are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	271	46	21	61	40	30	25	40	113	4,160	18	25
2	234	41	21	59	40	30	25	37	89	10,300	16	24
3	203	37	22	57	40	32	25	33	75	1,880	16	23
4	180	34	23	57	40	32	25	29	68	436	16	19
5	159	33	25	62	41	30	25	28	62	613	14	15
6	141	30	28	61	41	32	25	28	56	257	13	14
7	126	30	29	57	43	33	24	25	49	182	13	13
8	111	29	29	54	41	34	26	25	44	119	12	13
9	101	28	28	52	37	34	26	24	40	91	12	12
10	95	28	41	51	37	33	25	24	36	75	12	12
11	89	26	79	49	36	32	26	24	32	66	12	12
12	83	24	66	49	36	30	29	37	29	59	12	12
13	75	24	61	46	34	29	28	78	26	56	11	12
14	68	24	59	46	34	29	28	41	24	52	11	13
15	62	24	64	46	34	29	26	29	23	52	11	14
16	59	24	66	44	33	29	26	28	22	48	10	21
17	54	24	61	43	32	29	25	34	21	44	10	1,480
18	51	24	57	41	30	28	25	34	19	43	10	5,990
19	46	25	54	41	30	28	25	30	18	46	10	4,290
20	46	24	54	40	32	28	26	29	17	52	10	1,500
21	46	25	54	38	32	26	26	28	16	44	11	686
22	41	24	56	37	32	29	44	32	17	37	11	472
23	37	23	57	37	32	29	425	44	16	32	11	376
24	34	23	59	37	32	29	384	190	16	30	10	299
25	33	24	61	37	32	29	164	792	16	29	10	240
26	76	23	61	37	32	29	93	420	17	27	10	198
27	101	23	59	37	30	28	64	205	18	26	10	419
28	81	23	57	37	30	26	56	175	29	24	10	2,810
29	68	22	56	40	30	26	52	168	26	23	11	11,500
30	61	22	57	38	-	26	48	137	361	21	15	5,320
31	51	-	61	38	-	26	-	170	-	20	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,883	271	33	93.0	5,720
November	811	46	22	27.0	1,610
December	1,526	79	21	49.2	3,030
Calendar year 1935	400,439.9	55,400	0	1,097	794,200
January	1,429	62	37	46.1	2,830
February	1,013	43	30	34.9	2,010
March	914	34	26	29.5	1,810
April	1,871	425	24	62.4	3,710
May	3,018	792	24	97.4	5,990
June	1,395	361	16	46.5	2,770
July	18,944	10,300	20	611	37,570
August	375	18	10	12.1	744
September	35,836	11,500	12	1,195	71,080
Water year 1935-36	70,015	11,500	10	191	138,900

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 below mouth of San Miguel Creek. Zero of gage is 153.47 feet above mean sea level.

Drainage area.- 5,491 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 1936.

Extremes.- Maximum discharge during year, 22,400 second-feet July 1 (gage height, 31.73 feet), from rating curve extended above 13,000 second-feet; minimum, 18 second-feet June 26, 27 (gage height, 2.98 feet).
1924-26, 1932-36: Maximum discharge, by slope-area method, 109,000 second-feet July 6, 1932 (gage height, 39.20 feet); no flow at times.

Remarks.- Records good except those above 10,000 second-feet and those estimated on basis of rainfall records and by comparison with stations at Three Rivers and Nueces, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,300	107	49	94	52	40	34			20,900	55	309
2	698	107	48	80	52	58	32			17,400	50	107
3	424	105	48	77	54	96	32			12,000	48	58
4	358	90	48	75	52	116	31			3,660	44	52
5	303	80		75	52	96	31	*75	*170	3,020	43	60
6	254	71		73	54	58	30			4,930	40	58
7	210	71		71	54	48	29			3,780	39	92
8	182	69	*65	71	52	44	29			1,470	39	80
9	161	68		73	50	43	29			641	37	105
10	148	65		71	50	43	28	111	60	396	34	49
11	140	63	116	69	50	44	28	542	57	278	34	34
12	130	60	86	68	50	48	27		50	244	32	30
13	123	58	69	66	50	46	27		48	214	31	27
14	121	57	84	65	49	44	28		44	185	30	27
15	118	55	92	63	49	42	28		40	167	29	26
16	110	54	84	63	48	40	28		37	148	28	25
17	103	54	82	61	48	39	122	*150	34	133	27	27
18	98	54	80	60	46	38	118		32	136	28	28
19	273	52	82	58	44	38	75		29	130	27	55
20	214	52	82	58	44	37	50		27	116	25	391
21	123	52	80	57	43	37	40		26	105	24	1,030
22	96	52	77	55	43	36	34		24	98	24	2,290
23	133	52	75	55	42	36	31	343	22	94	25	3,300
24	140	52	75	54	42	36	32	748	21	105	29	2,170
25	98	49	73	52	42	34	29	1,080	20	96	27	916
26	79	49	73	52	42	34	198	685	20	88	58	469
27	71	49	73	52	42	34	390	*135	413	73	34	376
28	68	49	75	54	42	36	221	522	1,320	65	27	299
29	66	49	77	54	42	34	125	1,200	1,300	63	31	259
30	100	49	80	52	-	34	94	640	6,790	60	209	424
31	105	-	105	52	-	34	-	*400	-	60	254	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,547	1,300	66	211	12,990
November	1,894	107	49	63.1	3,760
December	2,303	116	48	74.3	4,570
Calendar year 1935	457,558.6	27,100	1.6	1,254	907,500
January	1,980	94	52	63.9	3,930
February	1,380	54	42	47.6	2,740
March	1,443	116	34	46.5	2,860
April	2,030	390	27	67.7	4,030
May	8,731	1,200	-	282	17,320
June	11,944	6,790	20	398	23,690
July	70,857	20,900	60	2,286	140,500
August	1,462	254	24	47.2	2,900
September	13,173	3,300	25	439	26,130
Water year 1935-36	123,744	20,900	20	338	245,400

*Estimated.

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 1936.

Extremes.- Maximum discharge during year, about 11,400 second-feet July 1 or 2 (gage height, about 28.0 feet, from floodmarks); minimum, 8.3 second-feet Apr. 18, 19, 27 (gage height, 4.15 feet).

1924-26, 1932-36: Maximum discharge, by slope-area method, 38,300 second-feet June 14, 1935 (gage height, 38.0 feet, from floodmarks); no flow at times.

Remarks.- Records good except those above 8,000 second-feet and those estimated for June 16 to Aug. 2 on basis of records for stations on Frio River at Calliham and Nueces River at Three Rivers, which are poor. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	70	40	14	133	21	16	13	26	309		24	915
2	57	39	15	48	21	26	13	17	170		24	389
3	49	51	14	32	21	998	12	13	126	4,000	24	74
4	43	35	25	28	21	692	11	12	98		24	35
5	40	28	35	25	19	140	12	10	78		24	26
6	36	25	35	23	19	58	10	9.5	66		22	23
7	34	24	41	21	19	40	9.8	8.6	56		21	19
8	33	23	36	21	19	32	9.8	12	50	400	21	18
9	32	23	24	21	19	88	9.8	356	45		19	17
10	31	21	20	21	17	64	10	365	41		19	16
11	30	21	103	20	16	33	10	400	39		18	14
12	28	19	225	20	17	28	9.8	154	35		17	14
13	28	19	109	19	17	26	9.5	41	33	80	16	13
14	28	19	44	19	17	24	8.9	28	30		15	14
15	26	20	31	19	16	23	8.9	72	28		14	13
16	26	19	27	19	16	22	8.9	31			14	13
17	25	18	24	18	15	19	8.6	21			13	16
18	24	19	24	17	14	18	8.3	17		60	13	24
19	44	19	23	16	14	17	8.6	284			13	19
20	950	19	22	16	14	17	10	1,000			13	27
21	183	18	22	17	14	16	16	456	15		12	33
22	47	18	22	17	15	16	12	204			12	29
23	41	17	22	17	16	16	11	1,260		40	11	24
24	77	16	23	17	15	16	9.5	1,370			11	16
25	89	16	21	17	15	16	8.9	1,170			9.8	13
26	41	16	19	17	16	16	8.6	456			12	12
27	31	16	19	17	16	14	8.9	1,420			12	13
28	28	16	19	18	15	13	21	8,220			16	139
29	27	16	20	19	16	13	94	3,790	925	25	26	64
30	26	14	22	21	-	13	30	2,150			19	32
31	26	-	201	20	-	13	-	1,260	-		854	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,250	950	24	72.6	4,460
November	664	51	14	22.1	1,320
December	1,301	225	14	42.0	2,580
Calendar year 1935	168,598.5	36,800	5.9	462	334,400
January	753	133	16	24.3	1,490
February	490	21	14	16.9	972
March	2,543	998	13	82.0	5,040
April	421.8	94	8.3	14.1	837
May	24,633.1	8,220	8.6	795	48,860
June	5,069	-	-	169	10,050
July	23,050	-	-	744	45,720
August	1,362.8	854	9.8	44.0	2,700
September	2,074	915	12	69.1	4,110
Water year 1935-36	64,611.7	-	-	177	128,100

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., three-quarters of a mile below Rio Grande Reservoir, 30 miles southwest of Creede, and above mouth of Squaw Creek.

Drainage area.- 163 square miles.

Records available.- June 1909 to September 1913, October 1933 to September 1936 in reports of U. S. Geological Survey; June 1909 to September 1936 in reports of State engineer.

Average discharge.- 23 years (1910-23, 1926-36), 232 second-feet.

Extremes.- Maximum discharge during year, 1,210 second-feet May 3, 4 (gage height, 3.51 feet); minimum daily discharge, 2 second-feet Sept. 30.
1909-36: Maximum discharge, 7,500 second-feet June 28, 1927 (gage height, 7.03 feet); minimum daily discharge, 1 second-foot, when reservoir gates were closed and reservoir was about empty.

Remarks.- Records excellent except those for period of ice effect, Nov. 5 to Mar. 16, computed on the basis of openings of reservoir gates, which are good. Flow regulated by Rio Grande Reservoir, just above station (capacity, 45.800 acre-feet).

Rating table, Mar. 17 to Sept. 30 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Sept. 5-28)

0.1	1.6	.9	37	1.7	143	3.0	750
.3	4.0	1.1	56	1.9	182	3.5	1,200
.5	11	1.3	80	2.0	204		
.7	22	1.5	108	2.5	386		

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72	6					26	495	885	381	130	193
2	72	6					26	568	759	346	152	154
3	72	6					26	966	590	328	172	145
4	71	6					26	1,100	546	308	200	214
5	71	-					26	184	320	289	230	180
6	71	-					26	38	516	304	212	139
7	70	-					26	242	718	341	35	129
8	70	-					26	509	777	386	123	129
9	53	-				8	26	583	786	502	200	122
10	34	-					35	568	678	531	170	118
11	32	-					49	488	630	646	152	118
12	37	-					79	546	654	759	158	118
13	40	-					143	885	678	710	162	118
14	52	-					158	966	718	242	141	118
15	59	-					168	1,060	686	178	141	118
16	59	-					195	1,000	694	174	132	118
17	58	-				12	328	876	742	145	132	118
18	54	-				12	392	795	759	145	132	108
19	48	-				16	422	734	777	166	130	102
20	48	-				23	300	742	750	143	160	102
21	48	-				27	292	831	654	130	172	102
22	48	-				31	356	858	606	154	156	102
23	48	-				38	495	948	386	118	134	102
24	48	-				42	702	948	386	108	111	102
25	48	-				42	702	930	614	102	93	93
26	48	-				41	560	957	670	102	89	86
27	48	-				40	622	966	560	110	89	89
28	48	-				40	702	966	481	125	89	38
29	16	-				31	718	1,010	434	132	105	6
30	6	-				35	630	1,030	398	154	125	2
31	6	-				29	-	993	-	136	170	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,555	72	6	50.2	3,080
November	180	-	-	6.0	357
December	186	-	-	6.0	369
Calendar year 1935	62,829	1,610	-	172	124,600
January	186	-	-	6.0	369
February	203	-	-	7.0	403
March	587	42	-	18.9	1,160
April	8,282	718	26	276	16,430
May	23,782	1,100	38	767	47,170
June	18,852	885	320	628	37,390
July	8,395	759	102	271	16,650
August	4,418	230	35	143	8,760
September	3,382	214	2	113	6,710
Water year 1935-36	70,008	1,100	2	191	138,800

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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.

Drainage area.- 705 square miles.

Records available.- April 1907 to September 1913, October 1933 to September 1936 in reports of U. S. Geological Survey; April 1907 to September 1936 in reports of State engineer.

Average discharge.- 29 years, 651 second-feet.

Extremes.- Maximum discharge during year, 3,210 second-feet May 5 (gage height, 3.48 feet); minimum daily discharge recorded, 58 second-feet Nov. 19.
1907-36: Maximum discharge, 9,750 second-feet June 28, 1927 (gage height, 7.65 feet; minimum not determined.

Remarks.- Records excellent except those for period of ice effect, Nov. 3 to Mar. 11, computed on basis of six discharge measurements, gage heights, and weather records, which are fair. Diversions for irrigation above station. Flow regulated by three reservoirs (total capacity, 117,600 acre-feet).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	290	129	75				122	1,060	1,660	647	348	480
2	250	160	87				122	1,300	1,440	614	397	438
3	243	115	75			80	129	1,940	1,140	570	459	433
4	243	117	80				134	2,600	960	559	486	535
5	231	97	87				127	2,180	844	518	570	496
6	220	102	72				124	1,210	780	524	804	412
7	216	107	75			85	134	804	1,120	547	559	362
8	209	107	70				181	1,120	1,210	553	417	344
9	202	115	88			*85	229	950	1,230	682	547	339
10	196	129	90	*73	*74	85	233	972	1,180	759	486	325
11	189	99				80	312	870	1,060	960	438	344
12	189	102				88	397	972	1,090	1,140	448	334
13	192	97	85			100	553	1,410	1,090	1,060	454	321
14	189	97				113	621	1,560	1,100	773	459	312
15	199	84				111	634	1,740	1,150	530	469	300
16	199	87				109	759	1,910	1,100	502	407	288
17	196	87				113	950	1,520	996	469	412	284
18	189	102	83			124	1,130	1,520	1,060	422	412	284
19	189	58				129	1,100	1,570	1,010	433	412	276
20	209	63				127	940	1,620	996	407	469	264
21	206	80	*81			146	844	1,630	940	387	513	260
22	202	89				146	1,090	1,580	852	397	459	272
23	202	110	81			127	1,280	1,630	773	353	402	268
24	199	104				118	1,380	1,690	668	308	344	252
25	202	112		*74		141	1,400	1,700	766	280	312	244
26	199	117				129	1,240	1,640	900	292	288	236
27	206	68				141	1,210	1,620	836	316	272	240
28	199	82	78			151	1,340	1,630	752	308	272	248
29	209	*87				151	1,370	1,750	724	321	280	181
30	166	110			-	151	1,100	1,840	689	372	382	167
31	135	-			-	132	-	1,840	-	348	438	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,365	290	135	205	12,620
November	3,013	160	58	100	5,980
December	2,512	90	-	81.0	4,980
Calendar year 1935	190,504	3,100	55	522	377,800
January	2,294	-	-	74	4,550
February	2,175	-	-	75	4,310
March	3,452	151	-	111	6,850
April	21,185	1,400	122	706	42,020
May	47,378	2,600	804	1,528	93,970
June	30,116	1,660	668	1,004	59,730
July	16,351	1,140	280	527	32,430
August	13,415	804	272	433	26,610
September	9,539	535	167	318	18,920
Water year 1935-36	157,795	2,600	-	431	313,000

*Discharge measurement.

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. Zero of gage is 7,982.21 feet above mean sea level (general adjustment of 1929).
Drainage area.- 1,320 square miles.
Records available.- July 1889 to November 1906, April 1908 to September 1913, October 1933 to September 1936 in reports of U. S. Geological Survey; July 1889 to September 1936 in reports of State engineer. From July 1889 to September 1907, station 4 miles below present station; records comparable.
Average discharge.- 47 years, 970 second-feet.
Extremes.- Maximum discharge during year, 4,000 second-feet May 5 (gage height, 3.83 feet); minimum daily discharge, 95 second-feet Dec. 16, 17, 22.
1889-1936: Maximum discharge, about 18,000 second-feet (revised) Oct. 5, 1911 (gage height, 6.80 feet), from rating curve extended above 6,000 second-feet; minimum daily discharge, 90 second-feet Dec. 3, 1934.
Remarks.- Records excellent except those for period of ice effect, Dec. 8 to Mar. 19, computed on the basis of nine discharge measurements, gage heights, and weather records, which are good. Small diversions for irrigation above station. Flow regulated by three main reservoirs above station (total capacity, 117,600 acre-feet) and several small reservoirs.

Rating tables, water year 1935-36 except periods of ice effect (gage height, in feet, and discharge, in second-feet)

Oct. 1 to Mar. 19

0.3	94	1.1	382
.5	146	1.3	500
.7	210	1.5	630
.9	290		

Mar. 20 to Sept. 30

0.6	154	1.8	810
.8	214	2.0	992
1.0	298	2.5	1,590
1.2	406	3.0	2,350
1.4	524	3.5	3,310
1.6	656	3.9	4,150

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	416	233	167	140	160	195	202	1,690	2,440	853	470	663
2	393	269	158	150	170	200	178	1,920	2,070	810	488	642
3	363	261	164	160	180	210	202	2,510	1,800	730	595	642
4	363	244	167	150	180	210	208	3,310	1,550	700	615	778
5	363	214	193	140	170	220	202	3,350	1,460	671	746	730
6	348	214	176	140	160	220	190	2,530	1,310	642	1,170	636
7	344	248	155	140	150	220	196	1,730	1,620	649	1,120	550
8	334	240	160	140	160	225	261	1,870	1,760	636	715	512
9	330	248	170	150	160	226	350	1,580	1,810	778	754	488
10	321	252	170	163	177	230	367	1,540	1,370	853	723	458
11	299	240	160	160	175	230	482	1,410	1,840	1,000	649	500
12	290	203	155	165	175	230	649	1,510	1,370	1,280	622	482
13	290	221	145	160	180	235	887	1,830	1,840	1,170	568	452
14	290	225	150	150	180	235	1,110	2,130	1,800	1,040	588	441
15	286	207	140	150	180	235	1,110	2,160	1,830	663	602	412
16	290	193	95	160	180	240	1,280	2,580	1,630	602	537	389
17	290	200	95	170	180	250	1,560	2,480	1,490	569	506	384
18	282	233	100	150	180	260	1,760	2,300	1,430	512	500	389
19	273	200	105	140	170	255	1,690	2,480	1,380	500	500	406
20	321	158	105	140	170	252	1,680	2,570	1,370	506	602	389
21	312	183	105	140	170	244	1,510	2,550	1,280	470	738	361
22	299	186	95	140	170	257	1,840	2,490	1,180	488	686	356
23	294	210	110	140	170	225	2,080	2,460	1,140	458	569	350
24	286	203	110	140	170	187	2,020	2,570	944	406	506	334
25	303	225	110	140	175	202	2,160	2,570	992	367	458	319
26	316	233	110	150	180	181	2,070	2,480	1,180	340	418	306
27	325	176	115	160	180	187	1,980	2,440	1,120	412	395	329
28	316	143	120	170	185	229	1,990	2,460	1,040	441	400	350
29	321	179	125	170	190	229	2,070	2,490	954	418	441	324
30	308	167	125	170	-	233	1,760	2,620	944	476	550	289
31	252	-	125	160	-	248	-	2,600	-	500	693	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	9,816	416	252	317	19,470
November	6,408	269	143	214	12,710
December	4,180	193	95	135	8,290
Calendar year 1935	345,566	5,810	95	947	683,500
January	4,698	170	140	152	9,320
February	5,027	190	150	173	9,970
March	7,000	260	181	226	13,880
April	33,944	2,160	178	1,131	67,330
May	71,210	3,350	1,410	2,297	141,200
June	44,944	2,440	944	1,498	89,150
July	19,940	1,280	340	643	39,550
August	18,944	1,170	395	611	37,570
September	13,663	778	289	455	27,100
Water year 1935-36	239,774	3,350	95	655	475,500

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. Prior to Aug. 20, 1936, water-stage recorder across river and 100 feet upstream. Zero of each gage is 7,654.54 feet above mean sea level (general adjustment of 1929).

Drainage area.- 1,740 square miles.

Records available.- October 1933 to September 1936 in reports of U. S. Geological Survey; May 1926 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,860 second-feet May 5 (gage height, 3.43 feet); minimum daily discharge, 7 second-feet Sept. 17.
1926-36: Maximum discharge, 18,500 second-feet June 30, 1927 (gage height, 7.85 feet, present datum); minimum daily discharge, 4 second-feet Apr. 18, 1926.

Remarks.- Records excellent except those for period of ice effect, Dec. 11 to Feb. 24, based on one discharge measurement, weather records, and comparison with records for station near Del Norte, and those for Nov. 7, 8, estimated on range of stage as shown by recorder, which are fair. Diversions for irrigation above station. Flow regulated by three main reservoirs (total capacity, 117,600 acre-feet) and several small reservoirs.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	88	120	180	145	165	138	25	567	670	32	50	140
2	77	196	180	155	160	111	54	670	553	32	36	129
3	61	204	184	160	160	106	98	806	574	27	70	125
4	52	188	188	155	180	88	24	1,270	525	25	111	229
5	45	162	184	150	175	103	21	1,350	525	27	150	256
6	43	141	184	145	165	90	22	742	402	30	375	212
7	42	162	188	145	155	81	24	333	425	48	512	140
8	37	180	180	140	155	86	22	588	518	133	141	60
9	35	155	173	140	165	81	24	678	546	159	60	46
10	34	166	173	145	175	133	24	648	512	136	122	26
11	32	162	170	150	185	141	21	532	518	86	83	19
12	29	138	165	160	180	136	40	532	525	159	46	30
13	29	135	165	160	185	122	79	640	539	62	40	23
14	28	144	160	150	190	77	206	774	506	113	20	14
15	26	138	150	150	190	70	353	618	499	168	17	12
16	24	129	115	150	190	68	655	750	473	171	17	9
17	30	151	110	155	190	50	716	539	391	181	17	7
18	32	173	115	160	190	52	560	448	353	174	20	8
19	32	173	120	150	200	36	375	655	260	138	20	9
20	40	148	125	145	210	38	316	758	227	138	24	10
21	55	138	125	140	210	27	370	742	188	124	162	10
22	46	158	125	140	250	50	512	686	138	127	140	12
23	55	144	120	140	285	44	560	694	136	130	102	13
24	120	176	125	140	260	38	518	774	88	66	58	13
25	126	169	125	140	252	50	574	742	58	90	26	14
26	158	180	130	150	206	127	466	640	124	100	21	16
27	188	204	130	155	206	130	397	567	113	111	26	33
28	188	176	130	160	196	81	425	588	93	153	23	89
29	176	188	135	170	174	66	648	567	54	122	26	129
30	169	192	135	170	-	46	567	686	36	116	41	122
31	132	-	145	170	-	40	-	726	-	75	143	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,229	188	24	71.9	4,420
November	4,890	204	120	163	9,700
December	4,634	188	110	149	9,190
Calendar year 1935	111,843	3,120	5	306	221,600
January	4,685	170	140	151	9,290
February	5,604	285	155	193	11,120
March	2,506	141	27	80.8	4,970
April	8,700	718	21	290	17,260
May	21,310	1,350	333	687	42,270
June	10,589	670	36	353	21,000
July	3,273	161	25	106	6,490
August	2,699	512	17	87.1	5,350
September	1,975	256	7	65.8	3,920
Water year 1935-36	73,094	1,350	7	200	145,000

Rio Grande at Alamosa, Colo.

Location.- Water-stage recorder, lat. 37°29', long. 105°53', in sec. 4, T. 37 N., R. 10 E., a quarter of a mile northwest of Alamosa. Prior to Nov. 6, 1935, at site in Alamosa. Zero of gage at present site is 7,533.66 feet above mean sea level (general adjustment of 1929).

Drainage area.- 1,840 square miles.

Records available.- May 1912 to September 1913, October 1933 to September 1936 in reports of U. S. Geological Survey; May 1912 to September 1936 in reports of State engineer.

Average discharge.- 24 years (1912-36), 353 second-feet.

Extremes.- Maximum discharge during year, 469 second-feet May 6 (gage height, 2.97 feet); minimum daily discharge, 15 second-feet Sept. 20-25.
1912-36: Maximum discharge, 14,000 second-feet July 1, 1927 (gage height, 8.37 feet); minimum daily discharge, 2 second-feet Oct. 24-29, 1933.

Remarks.- Records good except those for period of ice effect, Dec. 10 to Mar. 23, computed on the basis of five discharge measurements, gage heights, and weather records, which 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	161	240	150	165	184	31	39	73	44	85	29
2	30	114	240	155	165	173	33	33	94	45	54	34
3	30	80	242	160	170	157	29	46	63	45	44	29
4	30	49	252	155	180	155	28	85	70	42	47	26
5	30	49	252	150	175	146	28	293	65	41	106	35
6	30	25	265	145	160	155	29	341	63	38	65	59
7	30	26	258	140	160	153	34	128	52	36	130	35
8	30	36	246	135	160	141	34	66	44	35	235	30
9	30	36	235	136	170	114	32	123	45	36	107	26
10	30	45	215	150	180	90	31	118	52	23	67	24
11	30	45	210	155	190	88	29	93	51	25	56	23
12	30	44	205	160	185	93	27	67	49	33	45	22
13	30	45	200	155	195	85	20	44	42	38	41	20
14	30	50	190	155	195	70	20	46	58	36	34	19
15	30	50	185	155	195	60	21	99	47	29	31	18
16	30	51	150	155	195	58	28	45	38	27	28	18
17	30	52	115	160	195	50	101	84	34	31	26	17
18	30	59	120	170	200	45	146	44	31	46	25	16
19	30	76	125	165	224	41	101	32	29	45	23	16
20	30	106	135	140	230	39	59	49	29	35	28	15
21	30	106	135	138	235	36	45	79	36	33	31	15
22	30	99	135	145	270	34	50	73	45	47	55	15
23	30	118	130	145	320	34	65	51	36	46	39	15
24	30	126	135	145	278	35	86	46	40	55	35	15
25	80	152	135	145	246	32	66	73	41	54	34	15
26	105	206	140	145	223	41	104	70	41	39	32	17
27	187	222	140	150	218	38	51	47	44	36	28	22
28	161	227	140	160	208	32	36	42	46	41	26	23
29	136	229	145	170	204	28	32	58	45	63	28	33
30	114	233	150	170	-	26	45	47	46	85	29	60
31	80	-	150	170	-	29	-	60	-	98	28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,583	187	30	51.1	3,140
November	2,919	233	25	97.3	5,790
December	5,615	265	115	181	11,140
Calendar year 1935	49,828	2,200	10	137	98,840
January	4,729	170	135	153	9,380
February	5,891	320	160	203	11,680
March	2,462	184	26	79.4	4,880
April	1,441	146	20	48.0	2,860
May	2,521	341	32	81.3	5,000
June	1,449	94	29	48.3	2,870
July	1,327	98	23	42.8	2,630
August	1,642	235	23	53.0	3,260
September	741	60	15	24.7	1,470
Water year 1935-36	32,320	341	15	88.3	64,100

Rio Grande above mouth of Trinchera Creek, near La Sauses, Colo.

Location.- Water-stage recorder, lat. 39°19', long. 105°45', in sec. 35, T. 36 N., R. 11 E., a quarter of a mile above mouth of Trinchera Creek and 5 miles north of La Sauses.

Records available.- May to September, 1936.

Extremes.- Maximum discharge during period, 456 second-feet May 6 (gage height, 3.41 feet); minimum mean daily discharge, 3 second-feet July 23-30.

Remarks.- Records good except those for July 1 to Aug. 4, computed on basis of four discharge measurements and records for station near Lobatos, which are fair.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	134	9	4	67
2								-	134	8	4	70
3								-	137	7	4	74
4								-	135	7	4	79
5								305	135	6	4.0	84
6								404	140	6	4.0	88
7								327	130	6	4.8	93
8								238	113	6	32	98
9								204	94	6	239	93
10								248	74	6	176	88
11								246	67	7	163	84
12								228	63	7	130	76
13								198	55	7	115	70
14								192	50	7	94	65
15								204	50	6	80	63
16								206	48	5	72	62
17								198	38	4	72	60
18								228	35	4	73	58
19								202	26	4	73	56
20								204	41	4	76	55
21								190	26	4	82	52
22								168	24	4	83	56
23								155	17	3	110	53
24								157	15	3	112	55
25								172	13	3	109	56
26								153	12	3	96	55
27								153	12	3	82	86
28								140	11	3	79	82
29								124	11	3	76	99
30								124	10	3	73	104
31								130	-	4	70	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 5-31	5,498	404	124	204	10,910
June	1,850	140	10	61.7	3,670
July	158	9	3	5.1	313
August	2,395.8	239	4.0	77.3	4,750
September	2,181	104	52	72.7	4,330
The period					23,970

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. Zero of gage is 7,426.79 feet above mean sea level (general adjustment of 1929).

Drainage area.- 7,700 square miles (includes 2,940 square miles in closed basin).

Records available.- June 1899 to September 1913, October 1933 to September 1936 in reports of U. S. Geological Survey; June 1899 to September 1936 in reports of State engineer.

Average discharge. 37 years, 773 second-feet.

Extremes.- Maximum discharge during year, 2,540 second-feet May 7 (gage height, 3.61 feet); minimum daily discharge, 8 second-feet July 26, 27.
1899-1936: Maximum daily discharge, 13,100 second-feet June 8, 1905; minimum daily discharge, 6 second-feet July 19, 20, 22, Aug. 3, 4, 1934.

Remarks.- Records excellent except those for periods of ice effect, Nov. 28 to Feb. 24, Mar. 21-27, which were computed on basis of seven discharge measurements, gage heights, and weather records and are good. Diversions for irrigation above station. Flow regulated by numerous reservoirs on headwaters.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	172	300	400	295	272	415	179	1,230	662	24	18	137
2	176	269	400	275	275	402	152	1,180	595	23	22	141
3	180	289	430	265	257	382	162	1,300	491	22	23	162
4	184	260	380	245	236	376	162	1,610	435	23	28	166
5	180	271	420	265	258	370	152	1,920	382	20	50	170
6	160	266	420	255	269	345	118	2,300	370	19	74	166
7	156	260	420	250	271	357	179	2,230	376	19	86	175
8	164	249	420	235	284	357	148	1,610	351	19	103	155
9	172	244	420	233	288	351	134	1,350	297	24	231	141
10	168	249	400	247	312	332	124	1,160	231	24	303	127
11	164	249	350	242	310	291	124	1,010	192	22	262	121
12	160	249	300	246	324	291	130	902	175	23	226	134
13	156	244	240	240	324	314	252	920	152	22	192	134
14	156	239	260	246	330	326	572	1,060	124	19	166	115
15	164	229	225	253	345	291	822	1,210	103	19	137	112
16	164	219	205	253	340	252	1,070	1,310	98	17	118	106
17	153	200	190	250	364	236	1,450	1,630	78	16	109	98
18	153	224	215	230	362	210	1,780	1,810	63	19	121	98
19	164	219	250	243	360	170	1,850	1,770	52	14	137	95
20	180	234	250	233	386	162	1,670	1,700	43	14	201	93
21	184	254	245	233	364	162	1,650	1,510	54	15	188	88
22	176	254	245	238	390	162	1,850	1,390	37	16	215	88
23	153	244	255	241	377	160	2,130	1,170	30	13	215	98
24	200	289	270	251	455	160	2,270	1,050	26	11	210	95
25	209	266	285	252	535	160	1,990	1,030	29	9	192	98
26	244	324	295	254	477	160	1,990	960	26	8	179	112
27	300	398	285	256	415	165	2,060	782	23	8	159	93
28	330	400	290	261	395	175	1,810	686	23	14	141	184
29	379	400	280	266	408	179	1,790	640	26	12	141	179
30	360	400	285	251	-	179	1,690	588	24	14	134	220
31	324	-	285	250	-	175	-	662	-	13	141	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,185	379	153	200	12,270
November	8,212	400	200	274	16,290
December	9,615	430	190	310	19,070
Calendar year 1935	181,687	4,420	17	498	360,400
January	7,754	295	230	250	15,380
February	9,983	535	236	344	19,800
March	8,067	415	160	260	16,000
April	30,460	2,270	118	1,015	60,420
May	39,680	2,300	588	1,280	78,700
June	5,568	662	23	186	11,040
July	535	24	8	17.3	1,060
August	4,522	303	18	146	8,970
September	3,901	220	88	130	7,740
Water year 1935-36	134,482	2,300	8	367	266,700

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.- 9,490 square miles, revised, (includes 2,940 square miles in closed basin in northern part of San Luis Valley in Colorado).

Records available.- October 1930 to September 1936 in reports of U. S. Geological Survey; July 1925 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 4,140 second-feet Aug. 20 (gage height, 6.8 feet, estimated); minimum daily discharge, 179 second-feet July 27.
1930-36: Maximum discharge, 6,950 second-feet May 25, 1932 (gage height, 8.56 feet, former site and datum); minimum daily discharge, 140 second-feet Aug. 21, 1931 (estimated).

Remarks.- Records good. Daily discharge for Nov. 26-28, Dec. 6 computed on basis of records for stations at Embudo and at Otowi Bridge. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	389	546	425	477	458	664	389	2,000	1,140	238	238	389
2	407	546	504	470	484	688	354	1,710	1,120	228	290	383
3	413	497	518	470	546	656	360	1,680	1,020	224	316	383
4	413	511	504	438	484	640	348	1,840	880	220	576	413
5	419	464	539	458	432	640	343	2,200	765	215	464	419
6	451	451	590	464	444	632	343	2,640	688	215	438	413
7	444	464	568	484	477	600	332	3,020	632	210	419	419
8	389	458	584	477	464	600	338	2,720	568	206	413	413
9	377	470	576	444	458	608	354	2,340	504	242	413	413
10	383	464	518	464	470	608	338	2,030	458	233	413	383
11	389	458	504	458	490	584	332	1,750	401	260	413	365
12	383	484	497	470	497	532	365	1,600	365	275	438	354
13	360	484	518	444	504	518	413	1,510	338	242	451	338
14	360	470	532	451	497	539	477	1,540	321	233	458	332
15	371	451	539	464	511	553	774	1,780	310	233	444	321
16	371	458	497	470	525	539	1,220	1,980	305	228	383	310
17	371	444	451	477	532	511	1,530	2,200	295	228	360	300
18	371	451	413	464	532	484	1,960	2,420	290	220	332	305
19	365	444	419	425	546	464	2,270	2,570	275	215	332	316
20	371	438	490	425	546	425	2,200	2,420	260	220	615	310
21	389	438	504	432	568	407	2,050	2,340	251	224	504	310
22	395	451	484	419	592	419	2,100	2,130	251	210	518	338
23	401	484	470	419	632	413	2,340	1,990	260	192	438	305
24	401	484	484	425	704	383	2,640	1,730	260	188	451	300
25	377	484	497	438	720	365	2,720	1,630	265	184	444	300
26	383	500	484	438	712	377	2,570	1,550	256	184	425	326
27	407	470	490	438	680	332	2,570	1,460	242	179	413	401
28	438	440	497	451	656	371	2,500	1,250	242	188	395	371
29	477	413	497	458	656	395	2,270	1,130	233	202	407	365
30	511	395	490	458	-	401	2,200	1,100	242	197	444	407
31	539	-	497	451	-	401	-	1,110	-	224	419	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	12,515	539	360	404	24,820
November	14,012	546	395	467	27,790
December	15,580	590	413	503	30,900
Calendar year 1935	289,892	4,990	220	794	575,000
January	14,021	484	419	452	27,810
February	15,817	720	432	545	31,370
March	15,749	688	332	508	31,240
April	39,000	2,720	332	1,300	77,360
May	59,370	3,020	1,100	1,915	117,800
June	13,437	1,140	233	448	26,650
July	6,757	275	179	218	13,400
August	13,064	615	238	421	25,910
September	10,702	419	300	357	21,230
Water year 1935-36	230,024	3,020	179	628	456,300

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 2¼ miles below Embudo Creek.

Drainage area.- 10,300 square miles, revised (includes 2,940 square miles in closed basin in northern part of San Luis Valley in Colorado).

Records available.- January 1889 to December 1903, September 1912 to September 1916, October 1930 to September 1936 in reports of U. S. Geological Survey; January 1889 to December 1903, September 1912 to December 1931 in reports of State engineer.

Average discharge.- 23 years (1889-93, 1894-1903, 1912-16, 1930-36), 1,001 second-feet.

Extremes. Maximum discharge during year, 3,630 second-feet Aug. 20 (gage height, 6.06 feet); minimum daily discharge, 196 second-feet July 24.
1930-36: Maximum discharge, 8,360 second-feet May 25, 1932 (gage height, 9.35 feet); minimum daily discharge, 174 second-feet Aug. 21, 1931.

Remarks.- Records good. Discharge for period of ice effect, Dec. 14, 16-18, May 8, 9, and period of missing gage-height record, computed on basis of records for stations at Taos Junction Bridge and Otowi Bridge. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	463	590	472	560	525	662	490	2,360	1,260	271	241	515
2	472	560	570	555	540	694	445	2,000	1,260	260	274	495
3	468	550	606	555	560	694	463	2,000	1,190	250	445	490
4	472	535	645	520	560	678	450	2,100	1,040	244	612	486
5	476	495	628	555	466	667	463	2,420	912	238	486	490
6	472	481	662	550	472	662	458	2,820	832	229	427	500
7	550	500	650	585	530	645	458	3,240	772	271	392	495
8	454	500	656	575	525	626	418	3,000	669	376	422	495
9	436	510	650	535	505	650	486	2,500	601	302	409	490
10	440	495	585	550	525	656	468	2,260	550	421	414	481
11	436	481	550	540	540	628	481	2,000	520	436	580	472
12	427	490	545	565	550	596	565	1,900	481	320	535	458
13	422	490	580	535	545	580	700	1,810	427	266	500	445
14	418	490	580	545	540	596	820	1,810	404	241	454	436
15	414	490	575	560	550	612	1,150	2,000	384	238	472	418
16	409	472	540	535	570	612	1,500	2,260	360	235	409	400
17	409	468	470	530	590	580	1,860	2,420	336	235	360	380
18	414	476	470	525	590	545	2,310	2,700	320	226	364	364
19	445	458	454	490	616	530	2,640	2,820	302	214	372	368
20	580	450	515	486	606	495	2,640	2,700	262	208	744	376
21	468	445	565	505	628	472	2,420	2,580	264	223	694	372
22	468	472	535	486	634	495	2,420	2,360	257	220	623	463
23	458	505	520	495	662	495	2,700	2,200	260	205	510	380
24	468	510	530	505	718	458	3,060	1,950	271	196	505	368
25	440	525	545	515	730	450	3,180	1,760	268	199	495	380
26	481	565	540	510	730	445	3,000	1,720	260	205	495	422
27	500	570	540	515	684	422	2,940	1,680	254	205	490	545
28	545	580	570	520	672	440	2,880	1,460	254	199	486	486
29	590	510	565	530	656	463	2,640	1,300	260	217	481	445
30	618	445	565	520	-	476	2,580	1,300	278	217	510	490
31	606	-	580	510	-	495	-	1,300	-	226	530	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	14,719	618	409	475	29,190
November	15,108	590	445	504	29,970
December	17,458	662	454	563	34,630
Calendar year 1935	344,307	5,750	254	943	683,000
January	16,462	585	486	531	32,650
February	17,023	730	468	587	33,760
March	17,521	694	422	565	34,750
April	47,085	3,180	418	1,570	93,390
May	66,730	3,240	1,300	2,153	132,400
June	15,548	1,260	254	518	30,840
July	7,795	436	196	251	15,460
August	14,751	744	241	476	29,260
September	13,405	545	364	447	26,590
Water year 1935-36	263,605	3,240	196	720	522,900

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. Zero of gage is 5,488.48 feet above mean sea level.

Drainage area.- 14,200 square miles, revised (includes 2,940 square miles in closed basin in northern part of San Luis Valley in Colorado).

Records available.- February 1895 to December 1905, June 1909 to December 1914, October 1930 to September 1936 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 9,350 second-feet Apr. 25 (gage height, 8.96 feet); minimum daily discharge, 495 second-feet Jan. 20.
1930-36: Maximum discharge, about 21,900 second-feet Aug. 20, 1935 (gage height, 12.01 feet); minimum daily discharge, 128 second-feet June 21, 1934.

Remarks.- Records good October to May, fair June to September. Discharge June 11-13, July 28 to Aug. 6, Aug. 9-17, Aug. 29 to Sept. 1, Sept. 27 computed on basis of records for stations at Embudo, Cochiti and Rio Chama near Chamita. Diversions for irrigation above station. Stage-discharge relation not affected by ice.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	982	1,880	561	675	651	824	645	4,900	2,180	1,120	1,400	1,100
2	958	1,940	669	627	701	908	573	4,420	2,120	1,130	1,300	1,050
3	950	1,710	694	597	740	1,230	550	4,420	1,940	1,190	1,300	1,010
4	966	703	734	567	651	1,270	567	5,510	1,760	1,160	2,500	1,140
5	936	615	768	579	597	1,280	621	5,720	1,600	1,160	1,600	1,030
6	866	1,110	796	585	591	1,170	675	6,160	1,440	1,060	800	982
7	866	1,660	803	585	682	1,070	682	6,610	1,350	1,010	789	1,060
8	838	1,940	789	591	720	1,050	682	7,070	1,230	1,140	754	1,060
9	810	1,880	803	544	682	1,070	817	5,720	1,070	1,290	1,000	958
10	796	1,230	761	555	688	1,050	922	5,100	1,100	1,070	1,000	922
11	789	796	701	591	714	1,020	1,060	4,420	1,500	1,800	1,200	922
12	761	701	682	567	754	915	1,490	3,960	1,600	1,540	1,400	915
13	754	682	688	567	761	796	2,120	3,620	1,500	880	1,300	908
14	727	675	682	533	908	901	2,710	3,540	1,350	720	1,400	922
15	682	651	657	573	824	1,320	3,460	2,850	1,220	694	1,300	859
16	682	621	609	603	880	1,350	4,700	2,850	845	694	1,300	824
17	675	609	555	591	859	1,300	5,720	3,220	824	675	1,200	796
18	688	603	544	597	775	1,250	6,840	3,620	1,230	573	1,170	803
19	761	591	516	528	810	1,210	7,800	3,790	1,160	701	1,130	929
20	1,110	573	550	495	817	1,180	7,550	3,620	1,090	538	2,080	950
21	747	555	609	516	803	1,150	7,310	3,150	1,060	538	2,970	810
22	682	579	591	555	817	1,170	7,550	3,000	982	663	1,440	1,560
23	663	615	585	573	817	1,230	8,050	2,920	1,100	597	754	1,280
24	645	621	591	591	894	1,060	8,300	2,710	1,370	627	621	845
25	627	694	597	627	1,240	1,040	8,560	2,500	1,390	908	567	775
26	682	624	615	633	1,060	966	8,300	2,380	1,440	1,090	929	676
27	922	761	621	645	873	974	7,550	2,440	1,190	1,100	950	2,300
28	1,240	694	675	651	859	929	7,550	2,180	1,280	1,400	1,140	1,300
29	1,070	675	651	675	831	966	6,840	2,000	1,170	1,300	1,200	1,010
30	1,710	579	675	657	-	915	5,300	1,940	1,190	1,300	1,400	824
31	1,940	-	682	639	-	621	-	2,310	-	1,400	1,300	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	27,525	1,940	627	888	54,600
November	27,772	1,940	555	926	55,080
December	20,454	803	516	660	40,570
Calendar year 1935	554,982	7,490	350	1,520	1,101,000
January	18,312	675	495	591	36,320
February	22,999	1,240	591	793	45,620
March	33,185	1,350	621	1,070	65,820
April	125,494	8,560	550	4,183	248,900
May	118,650	7,070	1,940	3,827	235,300
June	40,281	2,180	824	1,343	79,900
July	31,068	1,800	538	1,002	61,260
August	39,194	2,970	567	1,264	77,740
September	30,520	2,300	676	1,017	60,540
Water year 1935-36	535,454	8,560	495	1,463	1,062,000

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. Gage datum lowered 0.125 foot on May 6.

Drainage area.- 14,600 square miles, revised (includes 2,940 square miles in closed basin in northern part of San Luis Valley in Colorado).

Records available.- October 1930 to September 1936 in reports of U. S. Geological Survey; January 1925 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 9,340 second-feet Apr. 25 (gage height, 7.31 feet); minimum daily discharge, 335 second-feet July 21, 24.
1930-36: Maximum discharge, about 20,500 second-feet Aug. 20, 1935 (gage height, 8.97 feet); minimum daily discharge, 1 second-foot Aug. 10-12, 1934.

Remarks.- Records for October to May fair, others good. Discharge Apr. 30, May 25-30, Aug. 6, 8, 9 computed on basis of records for stations at Otowi Bridge and at San Felipe. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	720	1,530	570	660	710	946	806	4,760	2,000	946	1,100	806
2	630	1,680	630	486	751	1,020	740	4,760	1,790	839	1,170	773
3	630	1,730	710	450	817	1,160	690	4,760	1,680	898	994	751
4	620	994	640	442	795	1,220	740	5,440	1,470	958	2,150	862
5	680	590	762	442	700	1,250	700	5,800	1,320	994	1,560	862
6	590	773	839	513	730	1,140	720	5,980	1,220	910	700	862
7	590	1,360	970	477	720	1,010	762	6,560	1,130	828	442	795
8	560	1,460	850	466	817	970	730	6,560	958	1,040	500	795
9	513	1,600	795	477	806	1,040	817	5,440	795	1,070	700	710
10	495	1,320	700	459	839	1,070	1,020	4,590	740	946	773	630
11	570	874	762	560	828	1,050	1,100	3,840	1,250	1,530	773	600
12	680	690	740	531	862	1,010	1,470	3,500	1,370	1,580	1,020	690
13	540	660	700	540	922	910	2,400	3,310	1,300	620	1,010	740
14	442	570	680	522	1,030	934	2,860	3,310	1,210	513	1,130	762
15	402	550	570	560	1,010	1,350	3,390	2,960	720	477	1,120	690
16	378	580	580	600	1,040	1,420	4,120	2,780	640	660	1,220	680
17	378	560	550	610	1,010	1,470	4,590	3,020	620	513	1,010	640
18	459	580	486	620	970	1,440	5,260	3,200	898	522	898	730
19	560	610	550	630	970	1,370	6,560	3,560	934	610	898	946
20	839	580	531	590	982	1,360	6,750	3,470	970	410	1,300	828
21	504	560	550	600	946	1,430	6,560	2,990	994	335	2,280	660
22	450	495	590	650	982	1,360	6,560	3,020	817	459	1,320	1,050
23	442	620	660	640	982	1,360	7,150	2,910	839	450	795	1,180
24	550	550	650	620	1,030	1,260	7,760	2,760	1,020	335	600	720
25	550	730	640	710	1,230	1,160	8,210	2,600	1,030	740	486	690
26	504	828	531	720	1,090	982	8,210	2,400	1,030	886	817	650
27	620	710	531	690	970	1,040	7,560	2,300	1,050	773	874	2,350
28	946	680	630	690	934	934	7,360	2,200	1,080	862	898	1,220
29	730	690	730	710	970	1,030	6,950	2,000	982	994	958	898
30	1,190	620	650	720	-	1,170	5,850	1,900	922	1,020	1,180	630
31	1,440	-	660	680	-	839	-	2,190	-	1,080	1,030	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	19,222	1,440	378	620	38,130
November	25,774	1,730	495	859	51,120
December	20,437	970	486	659	40,540
Calendar year 1935	515,061	7,560	215	1,411	1,022,000
January	18,067	720	442	583	35,840
February	26,443	1,230	700	912	52,450
March	35,705	1,470	839	1,152	70,820
April	118,415	8,210	690	3,947	234,900
May	114,870	6,560	1,900	3,705	227,800
June	32,779	2,000	620	1,093	65,020
July	24,798	1,580	335	780	49,190
August	31,706	2,280	442	1,023	62,890
September	25,200	2,350	600	840	49,980
Water year 1935-36	493,416	8,210	335	1,348	978,700

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.- 16,000 square miles, revised (includes 2,940 square miles in closed basin in northern part of San Luis Valley in Colorado).

Records available.- October 1930 to September 1936 in reports of U. S. Geological Survey; March 1925 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 10,900 second-feet Apr. 24 (gage height, 6.86 feet); minimum daily discharge, 449 second-feet Oct. 26.
1930-36: Maximum discharge, about 42,100 second-feet Aug. 21, 1935 (gage height, 9.86 feet); minimum daily discharge, 34 second-feet July 7, 1934.

Remarks.- Records fair. Discharge Oct. 15, 16 were computed on basis of records for stations at Otowi Bridge and at Cochiti. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1,020	2,170	730	684	675	1,060	919	4,620	2,030	1,260	1,240	1,040
2	810	2,260	760	666	800	1,060	853	4,300	1,980	1,150	1,390	930
3	760	2,360	820	622	919	1,320	780	4,300	1,880	1,290	2,290	897
4	693	1,400	780	622	842	1,600	853	5,120	1,710	1,370	2,360	1,040
5	711	770	842	590	760	1,660	864	5,850	1,500	1,440	1,810	985
6	760	740	853	639	760	1,630	820	5,850	1,320	1,320	908	996
7	750	1,760	886	606	750	1,420	886	6,440	1,260	1,330	657	941
8	693	2,120	831	614	864	1,210	919	7,300	1,120	1,030	590	996
9	606	2,300	770	598	820	1,210	996	6,240	919	1,260	941	908
10	550	1,890	720	590	780	1,140	1,260	5,300	919	1,040	996	842
11	542	1,060	730	648	810	1,050	1,490	4,450	1,300	1,610	985	864
12	534	720	702	630	820	930	1,960	4,000	1,710	1,660	1,220	930
13	518	693	684	657	853	770	2,610	3,720	1,610	800	1,170	941
14	510	606	702	614	1,020	750	3,090	3,720	1,490	730	1,160	919
15	500	614	720	606	1,030	1,140	3,720	3,580	864	606	1,200	810
16	500	606	675	648	1,030	1,330	4,450	3,090	897	720	1,350	730
17	502	598	648	648	1,040	1,400	5,300	3,580	864	606	1,170	666
18	486	622	630	684	974	1,400	6,860	3,850	1,160	606	1,110	730
19	502	684	590	606	941	1,330	8,990	4,140	1,280	622	1,110	974
20	897	702	590	542	963	1,320	8,990	4,300	1,210	648	1,060	985
21	693	684	675	518	930	1,320	7,760	3,720	1,250	486	3,090	780
22	534	702	720	574	930	1,330	7,300	3,580	1,030	622	1,940	996
23	486	760	702	630	963	1,330	8,000	3,460	1,060	760	1,060	1,500
24	494	790	684	657	996	1,300	9,780	3,330	1,320	590	675	941
25	486	941	648	711	1,320	1,150	9,780	2,840	1,320	941	675	750
26	449	1,120	657	730	1,370	1,080	8,490	2,610	1,330	1,280	1,060	711
27	542	1,110	648	720	1,260	1,150	7,760	2,590	1,390	1,190	1,080	2,360
28	1,050	985	684	770	1,100	1,170	7,080	2,410	1,360	1,360	1,010	1,710
29	1,010	963	740	790	1,050	1,260	6,650	2,060	1,350	1,460	1,150	941
30	1,440	831	720	780	-	1,320	5,300	1,980	1,260	1,280	1,400	770
31	1,890	-	702	693	-	1,090	-	2,240	-	1,290	1,370	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	21,918	1,890	449	707	43,470
November	33,561	2,360	598	1,119	66,570
December	22,243	886	590	718	44,120
Calendar year 1935	598,419	9,250	310	1,640	1,187,000
January	20,087	790	518	648	39,840
February	27,370	1,370	675	944	54,290
March	38,230	1,660	750	1,233	75,830
April	134,510	9,780	780	4,484	266,800
May	124,570	7,300	1,980	4,018	247,100
June	39,693	2,030	864	1,323	78,730
July	32,357	1,660	486	1,044	64,180
August	39,217	3,090	590	1,265	77,790
September	29,583	2,360	666	986	58,680
Water year 1935-36	563,339	9,780	449	1,539	1,117,000

Rio Grande at San Marcial, N. Mex.

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

Drainage area.- 28,400 square miles (includes 4,200 square miles in closed basins in New Mexico and in northern part of San Luis Valley in Colorado.

Records available.- January 1895 to September 1936 in reports of U. S. Geological Survey; January 1895 to December 1931 in reports of State engineer. 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 (1897-1936), 1,541 second-feet.

Extremes.- Maximum discharge during year, 9,550 second-feet Apr. 28; maximum gage height, 10.80 feet Aug. 5; no flow at times.
1895-1936: 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 estimated for June 21, 24, which are fair. Diversions for irrigation above station. Records furnished by the International Boundary Commission, U. S. Section (formerly known as U. S. Boundary Commission).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,170	752	960	1,030	934	1,070	585	6,020	1,110	2.8	0	508
2	1,330	1,360	853	1,000	1,100	886	563	4,870	1,480	1.6	0	915
3	933	1,410	813	962	917	844	509	4,950	1,050	12	0	664
4	738	1,520	748	902	751	838	482	4,590	874	16	256	408
5	662	1,760	855	858	819	900	363	3,880	817	17	2,650	295
6	562	1,160	897	749	836	1,380	321	4,310	705	30	2,920	557
7	771	604	1,020	897	818	1,610	495	5,160	541	29	1,710	342
8	730	445	1,090	956	725	1,720	660	4,900	413	36	1,370	631
9	828	613	1,000	910	754	1,410	448	5,750	571	94	1,030	300
10	794	1,060	954	897	805	1,180	359	7,130	460	238	391	111
11	557	1,450	960	790	707	1,090	284	6,480	172	935	250	92
12	409	1,460	899	845	760	1,040	340	4,380	122	2,150	165	500
13	388	855	904	938	746	999	582	3,470	94	3,180	112	1,100
14	394	593	880	916	651	1,010	1,400	3,270	96	1,770	90	1,200
15	356	469	814	871	641	959	1,480	3,100	415	843	82	606
16	365	388	839	852	1,020	795	2,860	3,410	444	620	90	532
17	379	340	855	846	1,040	665	3,120	2,950	567	431	123	397
18	309	328	904	841	1,160	1,130	3,760	2,830	212	290	343	335
19	328	416	917	916	1,180	1,420	5,050	2,680	75	175	239	279
20	328	455	892	920	1,140	1,310	6,340	2,260	37	200	139	323
21	328	432	894	818	1,020	1,260	6,500	2,450	5.0	154	464	301
22	280	402	860	845	830	1,330	6,160	2,670	0	94	2,760	701
23	580	408	788	766	757	1,070	6,340	2,140	0	74	2,190	1,320
24	529	431	810	745	786	1,220	7,220	2,050	1.1	48	1,110	1,300
25	484	467	850	749	766	1,260	7,400	2,660	0	21	667	1,150
26	550	833	863	604	832	1,060	7,950	2,320	36	10	303	646
27	566	1,160	771	791	1,120	891	8,160	1,650	19	5.4	120	2,470
28	590	1,640	752	745	1,510	976	8,710	1,480	14	0	70	5,320
29	539	1,490	740	898	1,330	854	7,330	1,330	9.9	0	73	4,300
30	438	1,090	810	1,100	-	805	6,590	1,300	10	0	66	2,060
31	516	-	854	926	-	665	-	1,030	-	0	139	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	18,731	2,170	280	604	37,150
November	25,811	1,760	328	860	51,200
December	27,046	1,090	740	872	53,640
Calendar year 1935	518,470.2	11,500	.9	1,420	1,028,000
January	27,083	1,100	745	874	53,720
February	26,455	1,510	641	912	52,470
March	33,647	1,720	665	1,085	66,740
April	102,381	8,710	284	3,413	203,100
May	107,470	7,130	1,030	3,467	213,200
June	10,350.0	1,480	0	345	20,530
July	11,476.8	3,180	0	370	22,760
August	19,922	2,920	0	643	39,510
September	29,663	5,320	92	989	58,840
Water year 1935-36	440,035.8	8,710	0	1,202	872,900

Rio Grande below Elephant Butte Dam, N. Mex.

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

Records available.- October 1916 to September 1936 in reports of U. S. Geological Survey; January 1926 to December 1931 in reports of State engineer.

Average discharge.- 20 years, 1,176 second-feet.

Extremes.- Maximum daily discharge during year, 2,580 second-feet Aug. 8 (gage height, 6.70 feet); minimum daily discharge, 3.8 second-feet Dec. 8.
1916-36: Maximum 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 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	336	166	11	12	12	518	1,500	1,750	1,650	1,970	2,010	1,260
2	7.8	322	10	13	12	306	1,480	1,640	1,660	1,620	2,050	1,250
3	9.3	322	11	14	12	382	1,500	1,650	1,700	1,890	2,140	972
4	7.5	322	11	13	12	213	1,540	1,620	1,710	2,270	2,140	1,290
5	7.5	322	11	12	98	88	1,540	1,580	1,800	2,320	2,140	1,500
6	7.5	322	11	13	761	174	1,540	1,540	1,900	2,320	2,300	1,490
7	7.5	322	11	13	436	392	1,540	1,440	1,900	2,410	2,420	1,490
8	90	246	3.8	12	429	392	1,540	1,420	1,920	2,370	2,580	1,530
9	333	211	6.8	13	414	452	1,540	1,360	2,030	2,310	2,480	1,570
10	299	185	7.2	11	414	671	1,600	1,360	2,260	2,200	2,400	1,570
11	336	6.4	5.6	10	414	1,090	1,710	1,390	2,230	1,960	2,380	1,490
12	551	6.2	111	12	361	1,130	1,820	1,460	2,180	2,080	2,330	1,420
13	551	4.1	574	12	204	1,140	1,820	1,520	2,190	2,150	2,350	1,420
14	551	5.0	566	12	161	1,140	1,830	1,520	2,190	2,010	2,400	1,410
15	551	4.3	518	12	13	1,140	1,940	1,600	2,190	1,920	2,460	1,280
16	555	3.9	446	11	12	1,180	1,940	1,680	2,180	1,880	2,460	1,140
17	270	4.3	328	12	13	1,300	1,810	1,680	2,170	1,920	2,460	1,140
18	92	4.0	118	12	12	1,300	2,120	1,700	2,130	1,990	2,440	1,120
19	8.1	4.2	11	12	12	1,300	2,160	1,740	2,140	2,020	2,330	1,090
20	8.0	4.9	11	12	13	1,300	2,160	1,900	2,180	2,120	2,290	1,040
21	8.1	4.2	11	12	13	1,260	2,100	1,880	2,150	2,200	2,140	893
22	8.2	5.4	11	12	352	1,240	2,020	1,770	2,140	2,270	2,030	792
23	8.3	16	10	12	720	1,200	2,020	1,810	2,030	2,270	2,030	732
24	5.1	62	11	14	629	1,180	1,940	1,800	2,030	2,310	2,030	629
25	4.3	32	9.0	12	629	1,250	1,890	1,810	2,110	2,420	2,000	281
26	4.8	4.5	11	13	653	1,260	1,890	1,700	2,170	2,470	1,860	102
27	4.5	6.1	11	13	686	1,270	1,860	1,650	2,200	2,380	1,790	54
28	4.4	12	11	14	708	1,260	1,700	1,680	2,210	2,360	1,620	210
29	5.3	13	11	14	676	1,260	1,650	1,680	2,190	2,380	1,140	373
30	5.7	12	11	14	-	1,260	1,680	1,670	2,150	2,270	1,000	312
31	5.1	-	11	14	-	1,330	-	1,650	-	2,030	1,250	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	4,642.0	555	4.3	150	9,210
November	2,954.5	322	3.9	98.5	5,860
December	2,900.4	574	3.8	93.6	5,750
Calendar year 1935	320,845.1	2,330	3.8	879	636,400
January	387	14	10	12.5	768
February	8,881	761	12	306	17,620
March	29,378	1,330	88	948	58,270
April	53,380	2,160	1,480	1,779	105,900
May	50,650	1,900	1,360	1,634	100,500
June	61,690	2,260	1,650	2,056	122,400
July	67,310	2,470	1,820	2,171	133,500
August	65,450	2,580	1,000	2,111	129,800
September	30,850	1,570	54	1,028	61,190
Water year 1935-36	378,472.9	2,580	3.8	1,034	750,800

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 1936 in reports of U. S. Geological Survey; May 1929 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 241 second-feet May 5 (gage height, 2.81 feet); minimum daily discharge recorded, 10 second-feet Oct. 3-7, 9, 10, less during period of ice effect.

1929-36: Maximum discharge, 246 second-feet June 2, 1933 (gage height, 3.14 feet); no flow June 22, 23, 1935.

Remarks.- Records good except those for Oct. 13 to Apr. 15, May 11-23, Aug. 3-8, computed on basis of gate openings at Continental Reservoir above station, which are fair. Flow regulated by Continental Reservoir, 1,000 feet above station (capacity, 26,700 acre-feet).

Rating table, Apr. 16 to Sept. 30, 1936 (gage height, in feet, and discharge, in second-feet)
(Shifting-control method used Aug. 7-19 and Sept. 25-30)

0.2	5.5	1.5	102
.4	14.0	2.0	152
.6	26.5	2.5	207
.8	42	2.9	251
1.0	58		

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15							84	70	35	18	26
2	11							84	66	31	15	19
3	10							95	65	27	15	22
4	10							104	64	30	16	22
5	10							190	56	28	18	25
6	10							144	56	26	20	24
7	10						9	111	56	19	34	22
8	11							93	56	20	33	29
9	10							71	56	34	22	32
10	10							66	56	58	22	29
11	11							66	52	60	23	30
12	11							66	58	58	24	21
13								66	56	52	23	18
14								62	55	50	23	23
15								62	53	49	24	21
16	10						84	62	53	48	30	20
17							177	58	52	42	32	20
18							177	58	50	40	32	15
19							185	58	49	22	34	14
20							185	54	50	28	40	16
21							186	54	50	42	40	18
22							190	50	49	42	32	18
23							177	50	37	26	26	19
24							168	48	26	20	26	18
25							152	48	31	18	26	26
26	10						142	50	33	17	24	19
27							141	69	36	17	17	16
28							130	79	35	20	24	16
29							103	73	36	24	33	15
30							86	71	36	25	30	15
31							-	71	-	25	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	319	15	10	10.3	633
November	300	-	-	10	595
December	310	-	-	10	615
Calendar year 1935	8,708	216	0	23.9	17,270
January	279	-	-	9	553
February	261	-	-	9	518
March	279	-	-	9	553
April	2,418	190	-	80.6	4,800
May	2,317	190	48	74.7	4,600
June	1,498	70	26	49.9	2,970
July	1,033	60	17	33.3	2,050
August	808	40	15	26.1	1,600
September	628	30	14	20.9	1,250
Water year 1935-36	10,450	190	-	28.6	20,740

South Fork of Rio Grande at South Fork, Colo.

Location.- Water-stage recorder, lat. 37°40', long. 106°39', in sec. 4, T. 39 N., R. 3 E., 1¼ miles above mouth and 1½ miles southwest of South Fork. Zero of gage is 8,221.79 feet above mean sea level (general adjustment of 1929).

Drainage area.- 216 square miles.

Records available.- August 1910 to September 1913, May to September 1936 in reports of U. S. Geological Survey; August 1910 to December 1920, May to September 1936 in reports of State engineer. Records 1910-20 were obtained at a site 1 mile downstream.

Extremes.- Maximum discharge during period, 1,300 second-feet May 5 (gage height, 4.50 feet); minimum daily discharge, 53 second-feet Sept. 26.
1910-20, 1936: Maximum discharge, about 5,000 second-feet Oct. 5, 1911.

Remarks.- Records good. A few small diversions for irrigation and several small storage reservoirs above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	824	126	78	148
2								-	742	116	80	129
3								-	528	100	94	173
4								860	485	92	102	173
5								1,020	465	88	196	136
6								950	495	85	227	122
7								688	556	80	182	108
8								506	616	79	169	101
9								396	649	92	152	97
10								322	732	94	129	87
11								297	830	150	120	119
12								336	836	138	117	97
13								414	800	105	101	87
14								470	782	88	93	86
15								556	732	85	91	74
16								688	528	87	86	68
17								732	396	85	87	66
18								754	346	83	93	68
19								866	318	79	97	69
20								914	294	74	138	66
21								902	254	68	162	61
22								866	240	72	146	63
23								860	222	62	106	65
24								872	211	58	93	56
25								866	192	56	87	55
26								818	178	56	83	53
27								830	158	85	80	63
28								872	152	87	85	65
29								884	138	81	111	62
30								902	140	94	204	67
31								926	-	91	167	-

Month	Second-feet-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 4-31	20,367	1,020	297	727	40,400
June	13,839	836	138	461	27,450
July	2,736	150	56	88.3	5,430
August	3,756	227	78	121	7,450
September	2,684	173	53	89.5	5,320
The period					86,050

Pinos Creek near Del Norte, Colo.

Location.- Water-stage recorder, lat. 37°27', long. 106°35', in sec. 29, T. 39 N., R. 5 E., just below mouth of Bennett Creek and 8 miles southwest of Del Norte.

Drainage area.- 53 square miles.

Records available.- May to September 1936 in reports of U. S. Geological Survey; May 1919 to September 1924, May to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during period, 720 second-feet (determined by slope-area method) Aug. 3 (gage height, 4.19 feet); minimum daily discharge, 8.6 second-feet July 24.

1919-24, 1936: Maximum daily discharge, 2,400 second-feet June 3, 1922; minimum not determined.

Remarks.- Records good except those estimated for July 18, 19, 26, and 29, which are fair. One small diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	74	87	23	22	28
2							-	89	80	20	18	27
3							-	111	72	18	47	32
4							-	122	72	18	31	27
5							-	124	64	16	69	23
6							-	99	63	14	39	21
7							-	71	62	15	31	19
8							-	58	58	16	30	18
9							-	58	52	20	24	18
10							-	54	52	24	27	18
11							-	60	51	34	24	19
12							-	79	50	22	24	18
13							-	98	47	16	21	16
14							-	96	45	14	26	15
15							-	105	42	13	28	13
16							-	129	41	13	24	12
17							-	129	38	13	27	12
18							-	116	36	16	23	13
19							-	116	33	14	21	12
20							-	118	29	11	49	11
21							-	114	26	11	45	10
22							-	108	23	10	36	10
23							-	102	25	9.2	31	11
24							-	98	25	8.6	28	10
25							-	96	24	9.2	27	10
26							-	100	21	10	26	11
27							109	95	21	20	25	13
28							93	92	24	23	28	13
29							78	91	24	21	31	16
30							67	94	24	16	37	14
31							-	96	-	18	29	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	2,992	129	54	96.5	5,930
June	1,311	87	21	43.7	2,600
July	506.0	34	8.6	16.3	1,000
August	948	69	18	30.6	1,880
September	490	32	10	16.3	972
The period					12,380

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San Francisco Creek near Del Norte, Colo.

Location.- Water-stage recorder, lat. 37°35', long. 106°22', in sec. 31, T. 39 N., R. 6 E., 1½ miles below mouth of East Fork and 6 miles south of Del Norte.

Drainage area.- 13.1 square miles.

Records available.- April to September 1936.

Extremes.- Maximum discharge during period, by slope-area method, 364 second-feet July 27 (gage height, 1.47 feet); minimum daily discharge, 2.0 second-feet July 13-15.

Remarks.- Records good except those estimated for Aug. 3-6, which are fair. One small diversion above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	12	13	2.8	3.6	7.0
2							-	13	11	2.8	4.4	6.6
3							-	16	10	3.0	6.6	6.3
4							-	11	9.6	3.0	6.0	6.0
5							-	13	8.6	2.8	13	6.0
6							-	11	8.3	2.6	11	5.9
7							-	6.8	7.4	2.6	9.6	5.6
8							-	7.4	6.7	2.6	10	4.8
9							-	7.0	5.8	2.6	12	4.4
10							-	6.4	5.5	2.8	12	3.8
11							-	7.0	5.2	2.6	11	3.3
12							-	7.9	4.9	2.5	9.6	3.1
13							-	11	4.3	2.0	8.1	2.9
14							-	12	4.3	2.0	6.1	2.7
15							-	15	4.0	2.0	7.3	2.5
16							-	22	4.0	2.2	7.0	2.9
17							-	14	3.7	2.3	7.0	2.9
18							-	21	3.7	2.2	6.0	3.1
19							-	19	3.5	2.3	6.0	2.5
20							-	20	3.3	2.2	8.1	2.4
21							-	19	3.3	2.5	8.1	2.2
22							-	17	3.7	2.6	7.6	2.7
23							-	17	3.6	2.5	8.1	2.5
24							-	17	3.7	2.3	8.6	2.5
25							-	16	3.3	2.2	8.1	2.2
26							-	17	3.5	2.2	7.6	2.4
27							13	16	3.5	11	7.6	2.5
28							11	16	3.5	3.4	7.6	2.5
29							9.6	15	3.2	3.2	6.1	2.5
30							7.0	15	3.0	3.2	8.1	2.5
31							-	15	-	2.6	7.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	434.5	22	6.4	14.0	862
June	161.5	13	3.0	5.38	320
July	88.4	11	2.0	2.85	175
August	252.9	13	3.6	6.16	502
September	109.2	7.0	2.2	3.64	217
The period					2,080

Empire Canal below Bowen Drain crossing, near Alamosa, Colo.

Location.- Water-stage recorder, lat. 37°28', long. 116°2', in sec. 14, T. 37 N., R. 8 E., 50 feet below siphon crossing of Empire Canal and 10 miles west of Alamosa.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum daily discharge during period, 235 second-feet June 15; no flow July 8-12, July 16 to Aug. 4, Nov. 16-30.

Remarks.- Records good except those estimated for period of ice effect, Nov. 3-6, which are fair. Canal diverts from Rio Grande 3½ miles east of Monte Vista and 7 miles north of station. Water is used to irrigate land north and east of La Jara.

Discharge, in second-feet, May 1936 to November 1936

Day						May	June	July	Aug.	Sept.	Oct.	Nov.
1						-	188	e.5	0	81	7.5	16
2						-	183	7.0	0	81	22	27
3						-	188	4.8	0	77	22	30
4						-	195	3.6	0	83	24	20
5						-	216	2.4	46	97	20	18
6						-	204	1.4	140	121	18	14
7						-	208	.6	182	105	18	7.8
8						-	205	0	134	66	17	5.8
9						-	205	0	87	37	16	2.8
10						-	212	0	98	25	16	1.4
11						-	217	0	88	12	17	1.2
12						-	214	0	56	9.8	18	.8
13						-	222	31	40	8.5	18	.7
14						223	226	5.2	28	6.8	17	.5
15						217	235	1.0	14	3.0	17	.3
16						204	219	0	10	2.0	17	0
17						212	209	0	9.0	2.2	18	0
18						214	187	0	8.2	3.0	18	0
19						201	143	0	3.4	2.8	16	0
20						192	106	0	1.6	1.6	16	0
21						188	93	0	12	1.2	14	0
22						175	63	0	71	1.8	14	0
23						175	32	0	77	1.6	15	0
24						178	28	0	53	1.6	14	0
25						178	13	0	35	1.6	14	0
26						175	8.8	0	19	2.6	14	0
27						176	32	0	11	5.0	13	0
28						175	37	0	4.4	5.5	13	0
29						183	25	0	6.2	5.5	12	0
30						180	16	0	10	6.0	12	0
31						182	-	0	39	-	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 14-31	3,428	223	175	190	6,800
June	4,329.8	235	8.8	144	8,590
July	65.5	31	0	2.11	130
August	1,282.8	182	0	41.4	2,540
September	857.1	121	1.2	28.6	1,700
October	498.5	24	7.5	16.1	989
November	146.3	30	0	4.88	290
The period					21,040

Bowen Drain below Empire Canal crossing, near Alamosa, Colo.

Location.- Water-stage recorder, lat. 37°28', long. 116°2', in sec. 12, T. 37 N., R. 8 E., 50 feet below siphon crossing of Empire Canal and 10 miles west of Alamosa.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, 28 second-feet Aug. 7 (gage height, 1.50 feet); minimum daily discharge, 0.1 second-foot July 17-28, Aug. 3.

Remarks.- Records fair. Water is return seepage from lands irrigated by Monte Vista Canal.

Discharge in second-feet, May to November 1936

Day						May	June	July	Aug.	Sept.	Oct.	Nov.
1						-	7.5	1.6	.2	1.9	3.6	3.6
2						-	7.5	1.8	.2	1.9	5.1	3.6
3						-	7.8	1.6	.1	1.9	4.9	3.4
4						-	8.2	1.6	.2	1.9	4.4	3.4
5						-	7.5	1.4	.3	1.8	4.4	3.8
6						-	7.5	1.3	.5	1.9	4.6	4.0
7						-	7.8	1.3	2.0	1.9	4.6	4.2
8						-	6.4	1.4	2.0	2.1	4.6	4.4
9						-	6.8	1.4	2.2	1.9	4.4	4.9
10						-	6.8	1.2	2.2	2.2	4.4	5.1
11						-	6.8	.6	1.6	2.4	4.4	4.9
12						-	6.1	.5	2.2	2.4	4.4	4.9
13						-	6.1	.3	1.8	2.1	4.0	4.6
14						3.4	6.8	.2	1.4	2.2	4.0	4.6
15						3.6	6.4	.2	1.6	1.9	4.0	4.6
16						4.4	6.1	.2	1.2	1.9	3.6	4.9
17						4.4	4.7	.1	.9	1.9	3.6	4.6
18						4.7	3.2	.1	.5	1.9	3.8	4.6
19						5.3	2.6	.1	.6	1.9	3.6	4.4
20						5.3	2.2	.1	1.6	1.9	3.6	4.4
21						5.0	1.8	.1	2.8	1.8	3.6	4.2
22						5.0	1.8	.1	4.9	1.8	3.6	4.0
23						6.4	1.8	.1	5.1	1.8	4.2	3.8
24						6.4	2.0	.1	5.3	2.1	4.2	3.8
25						7.1	1.8	.1	4.4	1.9	4.4	3.6
26						5.8	1.6	.1	3.3	1.8	4.4	3.8
27						5.8	1.5	.1	2.1	1.8	4.4	4.0
28						6.1	1.5	.1	2.1	1.9	4.0	4.2
29						6.8	1.5	.2	2.2	2.6	3.6	4.4
30						7.5	1.5	.2	2.1	3.4	3.6	4.0
31						8.6	-	.2	1.9	-	3.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 14-31	101.6	8.6	3.4	5.64	201
June	141.6	8.2	1.5	4.72	281
July	18.4	1.8	.1	.59	36
August	59.5	5.3	.1	1.92	118
September	60.8	3.4	1.8	2.03	121
October	127.6	5.1	3.6	4.12	253
November	126.7	5.1	3.4	4.22	251
The period					1,260

Rock Creek near Monte Vista, Colo.

Location.- Water-stage recorder, lat. 37°29', long. 106°16', in SE¼ 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 1935 to September 1936 in reports of U. S. Geological Survey; April 1919 to September 1924, May 1935 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during period, 142 second-feet Aug. 6 (gage height, 2.53 feet); minimum daily discharge recorded, 2 second-feet Oct. 31, probably less during period of no record.

1935-36: Maximum discharge, 156 second-feet Aug. 11, 1935 (gage height, 2.65 feet); minimum not determined.

Remarks.- Records good except those estimated for Nov. 25, 26, Apr. 20, May 9-17, which are fair. No records Nov. 4 to Apr. 13. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	3					-	39	24	9.1	10	14
2	5	3					-	46	23	8.4	8.4	13
3	4	3					-	49	22	8.1	27	14
4	4	-					-	50	21	7.2	31	12
5	5	-					-	47	19	5.6	24	9.8
6	4	-					-	34	18	5.3	27	8.7
7	4	-					-	31	16	5.3	30	8.0
8	4	-					-	24	14	5.9	25	8.0
9	4	-					-	23	14	8.7	23	8.4
10	4	-					-	22	14	11	21	8.4
11	4	-					-	24	14	10	22	8.0
12	4	-					-	33	13	7.8	21	7.3
13	4	-					-	48	12	6.5	19	5.8
14	4	-					24	45	11	6.5	21	5.2
15	4	-					22	44	9.8	6.8	21	4.6
16	3	-					24	47	9.4	6.8	15	4.6
17	3	-					26	45	9.1	6.8	15	4.3
18	3	-					27	43	8.7	6.8	14	4.9
19	3	-					22	44	8.7	6.5	12	6.4
20	5	-					25	43	8.4	5.9	20	6.1
21	4	-					36	41	7.5	6.2	25	5.8
22	4	-					36	38	7.5	5.9	21	6.4
23	3	-					40	36	9.1	5.3	19	6.4
24	4	-					38	32	8.7	4.4	18	6.1
25	4	-					40	30	8.7	3.7	18	5.8
26	4	-					41	29	10	3.2	16	6.7
27	4	-					38	28	12	6.8	16	7.0
28	3	-					39	28	11	13	16	7.3
29	3	-					37	28	9.4	13	20	7.7
30	3	-					34	28	9.4	9.1	18	7.7
31	2	-					-	26	-	15	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	118	5	2	3.8	234
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 14-30	549	41	22	32.3	1,090
May	1,125	50	22	36.3	2,230
June	382.4	24	7.5	12.7	758
July	230.6	15	3.2	7.44	457
August	608.4	31	8.4	19.6	1,210
September	228.4	14	4.3	7.61	453
Water year					

Rock Creek near Alamosa, Colo.

Location.- Water-stage recorder, lat. 37°28', long. 115°54', in sec. 7, T. 37 N., R. 10 E., below head gate of Hickory Ditch and 2½ miles west of Alamosa.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, 46 second-feet May 21 (gage height, 1.60 feet); no flow July 6 to Aug. 4.

Remarks.- Records good. Discharge for periods of ice effect, Nov. 3, 4, 23-30, computed on basis of three discharge measurements, temperature records, and comparison with records for other streams. Most of flow diverted above station for irrigation.

Discharge, in second-feet, May to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	-	42	9.5	0	14	27	21
2	-	43	8.7	0	14	25	23
3	-	42	6.4	0	14	24	12
4	-	44	4.8	0	14	23	14
5	-	45	4.5	18	12	22	23
6	-	45	0	34	11	25	21
7	-	40	0	35	11	25	21
8	-	31	0	42	11	23	20
9	-	23	0	40	10	21	19
10	-	21	0	30	10	19	19
11	-	24	0	20	12	19	18
12	-	20	0	16	12	18	18
13	-	17	0	15	11	19	18
14	37	17	0	15	10	19	18
15	35	15	0	16	8.9	19	17
16	35	15	0	15	8.4	19	16
17	38	16	0	13	8.4	19	16
18	39	18	0	14	9.5	18	16
19	42	14	0	14	9.8	18	16
20	44	12	0	15	9.5	19	16
21	44	13	0	24	8.9	20	16
22	44	11	0	23	9.2	21	15
23	42	10	0	22	9.5	21	14
24	41	9.5	0	20	10	20	14
25	41	8.9	0	17	10	20	14
26	40	11	0	17	11	20	14
27	40	9.8	0	16	17	19	14
28	40	9.8	0	14	22	19	14
29	41	9.8	0	13	25	18	14
30	42	9.5	0	14	27	19	14
31	42	-	0	14	-	21	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 14-31	727	44	35	40.4	1,440
June	646.3	45	8.9	21.5	1,280
July	33.9	9.5	0	1.09	67
August	546	42	0	17.6	1,080
September	370.1	27	8.4	12.3	734
October	639	27	18	20.6	1,270
November	505	23	12	16.8	1,000
The period					6,870

Closed basin in San Luis Valley, Colo.

Kerber Creek at Ashley ranch, near Villa Grove, Colo.

Location.- Water-stage recorder, lat. 38°15', long. 106°8', in sec. 7, T. 46 N., R. 8 E., at Ashley ranch, 10 miles west of Villa Grove.

Drainage area.- 38 square miles.

Records available.- May to September 1936 in reports of U. S. Geological Survey; June 1923 to September 1926, May to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during period, by slope-area method, 306 second-feet July 30 (gage height, 2.83 feet); minimum daily discharge, 3.5 second-feet July 25.

Remarks.- Records excellent except those for Aug. 1 to Sept. 30, which are good. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								*30	36	13	20	14
2								30	35	10	23	13
3								33	32	8.2	28	16
4								37	27	8.9	27	16
5								39	25	8.9	36	16
6								39	23	7.8	51	14
7								35	23	6.8	54	15
8								32	24	6.8	47	13
9								30	24	7.8	43	11
10								25	26	7.8	43	12
11								20	25	10	38	11
12								28	23	11	34	10
13								36	21	7.8	32	9.3
14								37	21	6.2	27	8.5
15								42	21	6.5	29	8.2
16								45	20	5.3	23	7.8
17								46	19	6.8	21	7.4
18								48	18	7.1	20	7.4
19								48	17	6.5	23	7.4
20								50	16	6.5	27	7.1
21								48	15	6.8	24	6.8
22								47	18	5.3	22	6.8
23								46	18	4.2	20	6.5
24								43	16	3.7	19	5.9
25								40	16	3.5	16	5.9
26								40	16	4.2	15	6.2
27								39	14	5.6	14	6.2
28								37	13	12	14	7.1
29								36	13	13	16	7.4
30								39	11	23	16	8.2
31								38	-	23	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	1,183	50	20	38.2	2,350
June	626	36	11	20.9	1,240
July	264.0	23	3.5	8.52	524
August	836	54	14	27.0	1,660
September	291.1	16	5.9	9.70	577
The period					6,350

*Estimated.

Saguache Creek near Saguache, Colo.

Location.- Water-stage recorder, lat. 38°9', long. 106°19', in sec. 11, 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 1936 in reports of U. S. Geological Survey; August 1910 to September 1912, June 1914 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 139 second-feet Apr. 23 (gage height, 1.44 feet); minimum daily recorded, 16 second-feet Mar. 26.
1910-12, 1914-36: Maximum discharge, 746 second-feet June 15, 1921 (gage height, 3.45 feet, former datum); minimum daily discharge, 14 second-feet Oct. 1, 2, 1933.

Remarks.- Records good except those estimated for Oct. 31, Mar. 6-12, which are fair. No records Nov. 1, to Feb. 26. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	55				-	33	20	59	112	62	79	62
2	50				-	33	17	68	93	52	87	54
3	49				-	34	22	83	99	44	84	58
4	47				-	36	21	102	84	39	98	65
5	46				-	33	20	112	72	38	98	57
6	44				-	33	19	116	66	37	111	50
7	47				-	32	19	108	66	35	111	46
8	44				-	32	22	104	63	33	94	43
9	41				-	32	25	92	69	43	82	41
10	38				-	31	22	75	68	58	80	41
11	37				-	31	25	68	75	72	76	42
12	36				-	30	41	76	80	76	80	42
13	35				-	30	79	83	70	63	82	40
14	37				-	34	104	89	72	43	75	38
15	36				-	33	98	87	68	37	72	36
16	35				-	32	96	99	70	37	62	33
17	34				-	35	104	111	59	38	56	32
18	35				-	36	105	102	53	38	54	32
19	35				-	33	92	100	49	46	53	34
20	44				-	31	83	105	58	45	68	33
21	45				-	30	96	110	61	41	87	32
22	40				-	28	98	108	63	47	79	33
23	38				-	23	110	110	69	46	66	33
24	42				-	19	99	114	61	38	53	31
25	38				-	19	99	122	61	35	46	30
26	44				-	16	87	117	69	35	43	31
27	43				33	19	76	117	61	37	41	43
28	41				31	21	69	108	65	61	45	58
29	40				32	23	66	104	70	57	54	61
30	39				-	23	61	114	68	76	57	59
31	39				-	26	-	123	-	83	65	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,274	55	34	41.1	2,530
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	901	36	16	29.1	1,790
April	1,895	110	17	63.2	3,760
May	3,086	123	59	99.5	6,120
June	2,094	112	49	69.8	4,150
July	1,492	83	33	48.1	2,960
August	2,238	111	41	72.2	4,440
September	1,290	65	30	43.0	2,560
Water year					

North Crestone Creek near Crestone, Colo.

Location.- Water-stage recorder, lat. 38°1', long. 105°41', in sec. 5, T. 43 N., R. 12 E., 3 miles above junction with South Crestone Creek and 1½ miles above Crestone.

Records available.- May to September 1936.

Extremes.- Maximum discharge during period, 735 second-feet by slope-area determination, Aug. 6 (gage height, 4.33 feet); minimum daily discharge, 8.1 second-feet Sept. 24-26.

Remarks.- Records good except those for July 15-21 (estimated by comparison with other streams), which are fair. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								15	24	15	140	24
2								15	20	14	118	24
3								20	16	13	123	36
4								20	16	12	126	39
5								22	15	11	142	34
6								17	15	10	364	28
7								13	16	9.6	188	25
8								11	17	9.1	140	23
9								13	18	9.6	91	21
10								12	18	12	67	20
11								12	17	55	55	19
12								16	17	65	57	18
13								21	17	35	49	18
14								25	17	27	40	16
15								30	16	24	34	16
16								37	16	24	32	14
17								35	15	24	29	14
18								30	14	24	27	14
19								31	13	23	26	12
20								30	12	23	34	12
21								24	11	21	36	10
22								22	11	20	34	10
23								25	11	19	30	9.7
24								27	11	18	27	8.2
25								28	9.9	16	24	8.2
26								28	9.9	15	22	8.2
27								27	17	18	20	8.8
28								27	20	45	20	9.4
29								29	19	35	22	10
30								27	16	38	24	11
31								25	-	52	24	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	714	37	11	23.0	1,420
June	464.8	24	9.9	15.5	922
July	736.3	65	9.1	23.8	1,460
August	2,165	364	20	69.8	4,290
September	520.5	39	8.2	17.4	1,030
The period					9,120

South Crestone Creek near Crestone, Colo.

Location.- Water-stage recorder, lat. 37°59', long. 105°41', in sec. 32, T. 2 N., R. 1 E. (Baca Grant Survey), at Crestone-Cottonwood mine highway 1½ miles southeast of Crestone.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, 39 second-feet Aug. 6 (gage height, 1.67 feet); minimum daily discharge, 0.5 second-foot Nov. 29, 30.

Remarks.- Records good. Discharge for period of ice effect, Nov. 3, 4, 24-30, computed on basis of three discharge measurements, gage heights, and weather records. No diversions above station.

Discharge, in second-feet, May to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	.7	2.6	1.7	17	11	1.8	1.0
2	.9	1.8	1.6	16	11	1.8	.9
3	1.4	1.2	1.4	15	13	1.8	1.1
4	2.3	1.1	1.5	16	13	1.8	2.3
5	2.3	1.1	1.4	19	9.6	1.7	1.2
6	2.0	1.0	1.2	28	7.6	1.7	1.1
7	1.4	1.0	1.2	25	7.3	1.6	1.1
8	.9	1.5	1.2	17	6.5	1.5	1.1
9	1.2	1.8	1.5	11	5.4	1.5	1.2
10	1.4	2.0	4.3	6.9	5.4	1.4	1.0
11	1.5	1.7	16	7.6	5.0	1.4	1.0
12	1.8	1.7	13	11	5.0	1.2	.9
13	2.8	1.7	7.3	6.9	4.7	1.2	1.0
14	3.8	1.7	5.4	6.9	4.0	1.2	1.0
15	4.7	1.8	4.7	6.9	3.3	1.4	1.0
16	5.8	1.7	3.8	5.8	2.8	1.4	1.1
17	5.4	1.6	4.7	5.4	2.6	1.2	1.1
18	4.3	1.6	4.7	5.0	2.3	1.0	1.2
19	4.0	1.6	4.0	4.7	2.3	.9	1.2
20	4.3	1.6	3.3	6.9	2.0	1.1	1.4
21	3.3	1.5	2.8	7.3	1.8	1.1	1.2
22	2.8	1.5	2.3	6.9	1.8	1.0	1.4
23	2.8	1.5	1.8	6.2	1.6	1.0	1.5
24	3.8	1.2	1.6	5.4	1.5	1.0	1.1
25	4.7	1.1	1.5	4.3	1.5	1.0	.7
26	5.0	1.6	1.4	4.0	1.5	1.2	.7
27	3.8	4.3	2.3	4.0	1.7	1.1	.8
28	3.8	3.6	16	4.0	1.7	1.1	1.0
29	4.0	3.0	11	6.2	1.8	.9	.5
30	4.7	2.0	9.6	10	1.8	1.1	.5
31	3.0	-	10	11	-	1.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	94.6	5.8	0.7	3.05	188
June	53.1	4.3	1.0	1.77	105
July	144.2	16	1.2	4.65	286
August	307.3	28	4.0	9.91	610
September	140.5	13	1.5	4.68	278
October	40.3	1.8	.9	1.30	80
November	32.3	2.3	.5	1.08	64
The period					1,610

Willow Creek near Crestone, Colo.

Location.- Water-stage recorder, lat. 37°59', long. 105°41', in sec. 4, T. 1 N., R. 1 E. (Baca Grant Survey), 3 miles southeast of Crestone.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, by slope-area method, 385 second-feet Aug. 6 (gage height, 3.53 feet); minimum daily discharge, 0.8 second-foot Nov. 21.

Remarks.- Records good. Discharge for period of ice effect, Nov. 3, 4, 24-30, computed on basis of three discharge measurements, weather record, and gage heights. No diversions above station.

Discharge, in second-feet, May to November 1936

Day						May	June	July	Aug.	Sept.	Oct.	Nov.
1						2.5	9.7	7.8	43	19	4.2	3.4
2						2.7	6.8	6.0	33	16	4.5	3.4
3						4.3	4.6	5.4	34	21	4.9	3.1
4						7.1	3.9	4.9	49	21	5.3	3.1
5						8.6	3.0	4.3	95	18	5.6	2.2
6						7.5	2.9	4.1	240	15	5.6	1.8
7						5.4	3.2	4.1	80	13	5.1	1.6
8						3.9	5.1	5.1	28	11	4.9	1.7
9						3.9	8.2	6.8	15	9.4	4.7	2.5
10						3.4	11	14	9.7	10	4.7	2.1
11						3.6	9.7	25	14	11	4.7	2.1
12						3.9	9.7	25	26	12	4.5	2.5
13						5.4	11	19	22	12	4.5	2.6
14						7.1	10	14	18	10	4.5	2.4
15						8.2	10	13	17	8.6	4.5	2.5
16						14	10	11	15	7.3	4.2	2.5
17						13	8.2	10	14	7.0	3.8	2.5
18						9.7	8.2	10	13	7.3	3.6	2.4
19						9.3	8.2	9.3	14	7.6	3.8	1.5
20						9.3	8.2	8.2	24	8.3	4.2	1.1
21						6.8	7.5	7.1	26	8.6	4.0	.8
22						6.0	7.5	6.3	24	8.6	2.6	1.2
23						5.7	6.8	5.1	20	7.3	2.5	1.5
24						9.0	6.5	4.6	17	5.1	2.5	2.2
25						12	5.7	3.9	14	4.6	2.8	4.2
26						10	9.7	3.8	12	4.5	3.4	3.4
27						9.0	26	10	10	4.5	3.6	1.2
28						9.3	16	25	9.0	4.5	3.8	1.2
29						12	12	25	16	4.5	3.2	1.3
30						14	9.3	22	22	4.0	3.8	1.2
31						11	-	30	21	-	3.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	237.6	14	2.5	7.67	471
June	258.6	26	2.9	8.62	513
July	349.8	30	3.8	11.3	694
August	994.7	240	9.0	32.1	1,970
September	300.7	21	4.0	10.0	596
October	127.8	5.6	2.5	4.12	253
November	65.2	4.2	.8	2.17	129
The period					4,630

Spanish Creek near Crestone, Colo.

Location.- Water-stage recorder, lat. 37°57', long. 105°41', in sec. 9, T. 1 N., R. 1 E. (Baca Grant Survey), about 6 miles southeast of Crestone.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, by slope-area method, 493 second-feet Aug. 5 (gage height, 4.13 feet); minimum daily discharge, 1.2 second-feet Nov. 3, 6, 9, 22.

Remarks.- Records good except those for Oct. 7-13, which were estimated on basis of two discharge measurements and comparison with records for other streams and are fair.

Discharge, in second-feet, May to November 1936

Day						May	June	July	Aug.	Sept.	Oct.	Nov.
1						2.2	4.8	3.5	43	11	2.8	1.4
2						2.8	3.3	2.8	42	9	2.8	1.3
3						4.5	2.5	2.5	40	15	2.8	1.2
4						5.9	2.4	2.4	39	12	2.6	1.4
5						6.2	2.4	2.3	71	9.0	2.6	1.3
6						4.5	2.5	2.2	38	7.5	2.6	1.2
7						2.5	3.0	2.0	20	6.7	2.6	1.3
8						2.0	3.8	2.4	14	6.3	2.5	1.3
9						2.2	3.8	3.8	11	5.9	2.7	1.2
10						2.2	3.8	7.7	10	5.7	2.6	1.4
11						2.2	3.1	21	11	5.7	2.5	1.4
12						2.8	3.1	21	11	5.5	2.4	1.4
13						4.5	3.8	11	9.6	4.9	2.3	1.4
14						5.5	3.5	7.0	8.5	4.3	2.6	1.4
15						8.4	4.0	5.9	7.5	3.7	2.6	1.4
16						9.4	3.3	4.0	7.0	3.3	2.4	1.5
17						8.0	3.0	4.0	6.3	3.0	2.3	1.6
18						5.5	2.8	4.8	5.9	2.9	2.2	1.5
19						6.6	2.8	4.3	6.1	2.7	2.2	1.4
20						7.3	2.6	4.0	14	2.6	2.1	1.4
21						5.2	2.6	3.5	13	2.4	2.1	1.4
22						4.0	2.8	3.1	11	2.3	2.0	1.2
23						5.5	3.0	2.6	9.3	2.0	2.0	1.3
24						7.7	2.8	2.5	9.0	1.9	1.9	1.4
25						7.0	2.5	2.3	8.3	1.9	2.0	1.4
26						5.6	4.5	2.2	7.5	2.1	2.0	1.4
27						5.2	30	3.3	7.0	2.2	1.9	1.4
28						5.9	11	42	7.2	2.3	1.9	1.4
29						7.7	6.6	18	8.5	2.5	1.6	1.3
30						7.3	4.3	16	12	2.7	1.6	1.3
31						5.2	-	21	13	-	1.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	161.7	9.4	2.0	5.22	321
June	134.4	30	2.4	4.48	266
July	235.1	42	2.0	7.58	466
August	520.7	71	5.9	16.8	1,030
September	149.0	15	1.9	4.97	296
October	70.8	2.8	1.6	2.28	140
November	40.9	1.6	1.2	1.36	81
The period					2,600

Cottonwood Creek near Crestone, Colo.

Location.- Water-stage recorder, lat. 37°56', long. 105°39', in sec. 28, T. 1 N., R. 1 E. (Baca Grant Survey), at Cottonwood Mining Camp, 6 miles south of Crestone.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, by slope-area method, 257 second-feet Aug. 6 (gage height, 3.13 feet); minimum daily discharge, 2.3 second-feet May 10.

Remarks.- Records good. No diversions above station.

Discharge, in second-feet, May to November 1936

Day						May	June	July	Aug.	Sept.	Oct.	Nov.
1						7.8	11	4.7	17	19	5.9	4.5
2						7.8	8.3	4.0	18	16	6.1	3.9
3						11	6.3	3.6	19	26	6.1	3.1
4						12	6.9	3.6	21	21	5.4	4.0
5						12	7.2	3.6	31	17	5.0	3.9
6						8.6	7.2	3.3	85	15	4.8	3.7
7						4.3	7.8	3.6	34	13	4.7	3.7
8						3.0	9.3	4.0	24	12	4.8	3.6
9						2.9	9.5	6.3	18	11	4.8	3.2
10						2.3	8.8	10	15	11	4.5	3.1
11						2.6	7.8	18	16	11	4.4	3.1
12						5.4	8.1	22	17	12	4.2	2.9
13						8.6	8.1	14	15	11	4.0	3.1
14						11	8.1	11	13	9.6	4.0	3.1
15						13	8.6	9.0	12	8.6	4.0	3.2
16						15	8.3	7.6	11	7.7	4.0	3.4
17						13	7.6	6.5	11	7.4	4.0	3.4
18						11	7.4	6.1	12	7.4	4.0	3.2
19						12	7.2	5.4	15	7.2	4.2	3.2
20						13	6.5	5.2	42	6.8	4.4	3.2
21						11	5.6	4.3	34	6.3	4.0	3.2
22						9.8	6.5	3.6	29	5.9	3.7	3.4
23						11	8.1	3.2	22	5.4	3.9	3.1
24						14	6.9	2.9	19	5.0	3.6	3.2
25						12	6.3	2.8	15	5.0	3.4	3.1
26						11	7.4	2.6	14	5.0	3.4	3.1
27						12	14	5.6	12	5.2	3.1	3.2
28						11	8.1	34	12	5.9	3.1	3.1
29						13	6.5	20	16	6.3	3.4	3.1
30						12	5.2	21	24	6.5	4.0	3.1
31						11	-	19	22	-	4.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	304.1	15	2.3	9.81	603
June	234.6	14	5.2	7.82	465
July	270.5	34	2.6	8.73	537
August	665	85	11	21.5	1,320
September	306.2	26	5.0	10.2	607
October	133.3	6.1	3.1	4.30	264
November	100.1	4.5	2.9	3.34	199
The period					4,000

Deadman Creek near Crestone, Colo.

Location.- Water-stage recorder, lat. 37°54', long. 105°37', in sec. 2, T. 1 S., R. 1 E. (Baca Grant Survey), at mouth of Deadman Canyon, 8 miles southeast of Crestone.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, 46 second-feet July 28 (gage height, 1.53 feet); minimum daily discharge, 2.5 second-feet (combined flow) Nov. 24.

Remarks.- Records good except those for Sept. 2 to Nov. 30, which are fair. Daily discharge for the period Sept. 2 to Nov. 30 is the combined flow past the gage and diversion canal just above. No other diversions above station.

Discharge, in second-feet, May to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	*8.0	11	8.4	25	25	6	6
2	*9.0	8.4	7.0	28	24	8	5
3	*12	6.6	5.5	30	24	7	5
4	*17	6.6	4.7	29	23	8	5
5	*18	6.6	4.3	36	20	7	4.5
6	15	6.6	4.0	37	18	7	5
7	12	6.6	3.6	37	18	6	5
8	10	7.0	4.3	33	18	6	5
9	8.8	7.0	5.9	30	18	6	5
10	7.0	7.5	6.2	26	16	6	5
11	7.0	6.6	15	26	16	6	5
12	10	5.7	26	25	16	6	4.5
13	15	5.7	21	22	15	6	4.5
14	17	5.3	16	21	15	7	4.5
15	19	5.7	12	16	14	7	4.0
16	22	5.7	11	15	14	7	4.0
17	20	4.8	10	15	13	5	4.0
18	16	4.1	11	16	11	5	4.0
19	16	4.1	10	18	9	5	4.0
20	16	3.8	11	35	7	4.5	4.0
21	14	3.1	9.7	33	6	4.5	3.5
22	12	3.1	8.8	28	5	4.0	3.5
23	12	7.0	7.4	24	6	4.0	3.5
24	16	5.9	6.6	22	6	4.5	2.5
25	15	5.1	6.2	20	6	4.5	3.0
26	14	5.1	5.9	18	6	5	3.0
27	13	8.8	10	16	5	6	3.0
28	13	12	40	16	5	6	3.0
29	13	12	29	20	5	5	3.0
30	14	9.2	28	27	5	6	3.0
31	12	-	26	26	-	6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	422.8	22	7.0	13.6	839
June	196.7	12	3.1	6.56	390
July	374.5	40	3.6	12.1	743
August	770	37	15	24.8	1,530
September	389	25	5	13.0	772
October	181.0	8	4.0	5.84	359
November	124.0	6	2.5	4.13	246
The period					4,880

*Estimated by comparison with records for other streams.

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 1936, in reports of U. S. Geological Survey; April 1919 to September 1936 in reports of State engineer.

Extremes.- Maximum stage during year, 2.09 feet (discharge not determined); minimum daily discharge, 1.9 second-feet July 26.
1919-36: Maximum daily discharge, 500 second-feet Apr. 14, 1924; minimum daily discharge, 1 second-foot July 8-10, 13-22, Aug. 1-8, 1934, Sept. 21-24, 1935.

Remarks.- Records good except those for October, estimated on basis of three gage-height readings and one discharge measurement, which are fair. No record Nov. 1 to Apr. 26. Diversions for irrigation above station.

Rating table, July 20 to Sept. 30, 1936 (gage height, in feet, and discharge, in second-feet)

0.1	1.9
.3	6.3
.5	16.5
.7	34
.9	56
1.1	80

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-						-	12	18	8.6	15	30
2	-						-	11	15	7.6	11	25
3	-						-	12	17	5.7	23	23
4	-						-	12	17	4.5	33	22
5	-						-	11	15	3.9	26	18
6	-						-	11	12	4.1	26	16
7	5						-	11	10	3.7	26	15
8	-						-	9.6	9.1	7.2	27	14
9	-						-	9.6	8.6	8.1	26	14
10	5						-	12	8.1	9.1	26	12
11	-						11	15	7.6	6.2	24	14
12	-						-	22	6.6	5.7	21	13
13	-						-	19	8.1	4.7	22	12
14	-						-	19	7.6	3.9	22	11
15	-						-	18	6.7	3.7	26	9.8
16	-						-	20	10	3.5	22	8.9
17	-						-	21	7.6	3.3	16	8.1
18	-						-	20	6.7	3.5	17	8.5
19	-						-	20	5.7	9.1	19	10
20	-						-	19	4.7	9.4	28	8.9
21	-						-	16	4.7	6.3	41	8.1
22	5						-	16	7.6	6.7	58	7.6
23	-						-	15	8.6	5.0	48	7.2
24	-						-	15	10	3.6	45	6.7
25	-						-	18	11	2.8	41	6.3
26	-						-	16	7.2	1.9	35	6.3
27	-						11	16	8.1	2.2	33	8.5
28	-						12	16	9.1	4.4	32	10
29	-						13	16	9.6	5.0	32	10
30	-						12	18	9.1	5.0	38	12
31	5						-	20	-	9.8	38	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	155	-	-	5	307
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January					
February					
March					
April					
May	488.2	22	9.6	15.7	968
June	288.1	18	4.7	9.60	571
July	168.2	9.8	1.9	5.43	334
August	897	58	11	28.9	1,780
September	375.9	30	6.3	12.5	746
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., 4 miles southwest of La Garita. Prior to Nov. 14, 1935, gage was half a mile downstream (erroneous statement in Water-Supply Paper 788) and set to independent datum; records for both sites comparable.

Drainage area.- 61 square miles.

Records available.- October 1933 to September 1936 in reports of U. S. Geological Survey; April 1919 to September 1936 in reports of State engineer.

Extremes.- Maximum stage during year, 2.08 feet July 31 (discharge not determined); minimum daily discharge, 3 second-feet (estimated) Nov. 20-30, probably less during period of no record.

1919-36: Maximum daily discharge, 316 second-feet May 10, 1924; minimum daily discharge, 2 second-feet Oct. 19-21, 1926, Apr. 18, 1927, Oct. 21, 22, 1934.

Remarks.- Records good except those for period of ice effect, Oct. 30 to Nov. 30, computed on basis of gage heights and weather records, and those estimated for Aug. 20-23, which are fair. No record Dec. 1 to Apr. 10. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	5					-	7.2	21	8.8	12	36
2	6	5					-	9.2	18	9.5	12	26
3	7	4					-	11	18	11	12	24
4	7	4					-	14	18	10	32	23
5	6	4					-	16	18	8.1	32	19
6	5	4					-	17	17	6.0	35	17
7	6	4					-	14	16	6.7	44	15
8	6	4					-	12	14	8.1	36	13
9	6	4					-	12	11	8.8	26	13
10	7	4					-	12	10	8.8	23	13
11	6	4					33	16	11	10	19	14
12	6	4					42	25	11	10	17	15
13	6	4					31	21	12	7.4	16	12
14	6	4					27	19	10	5.6	17	12
15	6	4					34	21	9.8	5.2	19	12
16	6	4					39	27	11	5.2	16	12
17	7	4					55	22	11	4.5	12	11
18	6	4					44	21	9.8	4.5	13	11
19	6	4					25	21	9.8	4.9	14	13
20	8	3					21	21	9.8	4.9	24	12
21	7	3					27	20	9.2	4.5	30	9.5
22	6	3					24	19	9.8	7.4	34	8.8
23	8	3					33	19	9.2	6.0	30	9.5
24	7	3					25	21	14	4.5	23	8.8
25	8	3					21	20	12	3.7	23	8.8
26	10	3					18	21	10	3.3	21	9.5
27	9	3					14	22	9.8	4.1	19	13
28	8	3					12	21	10	6.7	21	13
29	7	3					13	19	11	7.4	25	13
30	5	3					7.7	18	9.2	18	30	12
31	5	-					-	24	-	40	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	205	10	5	6.6	407
November	111	5	3	3.7	220
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 11-30	545.7	55	7.7	27.3	1,080
May	562.4	27	7.2	18.1	1,120
June	370.4	21	9.2	12.3	735
July	253.6	40	3.3	8.18	503
August	721	44	12	23.3	1,430
September	428.9	36	8.8	14.3	851
Water year					

North Lateral of Farmers Union Ditch near Hooper, Colo.

Location.- Water-stage recorder, lat. 37°46', long. 105°49', in sec. 31, T. 41 N., R. 11 E., 800 feet above crossing of Gibson Drain and 4½ miles east of Hooper.

Records available.- May to November 1936, (discontinued).

Extremes.- Maximum daily discharge during period, 5.4 second-feet June 1; no flow for several months.

Remarks.- Records good. Records show the part of the water diverted from Rio Grande by Farmers Union Ditch which is waste water turned onto the meadow.

Discharge, in second-feet, May to November 1936

Day						May	June	July	Aug.	Sept.	Oct.	Nov.
1						-	5.4	0				
2						-	4.8	0				
3						-	3.8	0				
4						-	2.6	0				
5						-	1.5	0				
6						-	.8	0				
7						-	2.4	0				
8						-	1.4	0				
9						-	.4	0				
10						-	0	0				
11						-	0	0				
12						-	0	.2				
13						-	0	0				
14						-	0	0				
15						-	0	0				
16						-	0	0				
17						-	0	0				
18						-	0	0				
19						-	0	0				
20						-	0	0				
21						-	0	0				
22						-	0	0				
23						-	4.5	0				
24						-	3.7	0				
25						-	3.0	0				
26						1.2	3.3	0				
27						3.3	2.0	0				
28						5.1	0	0				
29						3.1	0	0				
30						3.6	0	0				
31						4.0	-	0				

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 26-31	20.3	5.1	1.2	3.38	40
June	39.6	5.4	0	1.32	78
July	.2	.2	0	.01	.4
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	0	0	0	0	0
The period					118

Farmers Union Drain near Hooper, Colo.

Location.- Water-stage recorder, lat. 37°42', long. 105°49', in sec. 19, T. 40 N., R. 11 E., at county road crossing 6 miles southeast of Hooper.

Records available.- May to December 1936 (discontinued).

Extremes.- Maximum daily discharge during period, 28 second-feet Aug. 6; minimum daily discharge, 0.1 second-foot July 26.

Remarks.- Records good. Records represent return water from irrigated lands near Hooper flowing into the "closed basin".

Discharge, in second-feet, May to December 1936

Day					May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1					-	5.1	4.7	1.2	4.4	14	16	16
2					-	6.2	4.2	4.7	6.4	14	17	16
3					-	6.7	3.7	1.6	6.2	15	19	14
4					-	12	3.2	11	4.7	14	18	12
5					-	14	3.2	26	4.7	14	16	12
6					-	11	3.5	28	4.7	16	16	-
7					-	11	3.3	27	4.4	14	15	-
8					-	8.0	2.6	21	4.2	15	15	-
9					-	4.4	1.9	18	3.8	14	16	-
10					-	2.5	1.0	14	3.8	15	16	-
11					-	1.6	.8	13	3.7	15	16	-
12					-	1.4	.8	11	3.3	15	16	-
13					-	1.2	.8	10	3.3	15	16	-
14					-	1.2	.8	9.0	3.3	14	15	-
15					-	1.1	.8	6.7	3.0	14	15	-
16					-	2.3	.8	3.7	3.0	14	15	-
17					-	2.3	.6	3.2	2.8	14	15	-
18					-	2.0	.4	5.5	2.8	14	14	-
19					-	1.9	.5	4.9	2.6	14	14	-
20					-	1.5	.5	5.1	2.5	14	14	-
21					-	1.9	.5	5.1	5.5	14	13	-
22					-	2.1	.5	5.3	8.2	14	14	-
23					-	2.8	.4	5.1	8.2	14	16	-
24					-	2.6	.3	4.9	7.7	15	16	-
25					-	2.3	.2	4.2	6.4	15	17	-
26					7.0	2.8	.1	4.0	6.2	15	16	-
27					6.7	4.0	.3	3.8	8.4	17	16	-
28					7.0	4.7	.8	3.7	10	16	16	-
29					2.5	5.5	.8	3.5	12	15	16	-
30					1.0	4.7	1.0	3.8	14	15	15	-
31					1.8	-	1.0	4.2	-	18	-	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May.26-30	26.0	7.0	1.0	4.33	52
June	130.8	14	1.1	4.36	259
July	44.0	4.7	.1	1.42	87
August	272.2	28	1.2	8.78	540
September	164.2	14	2.5	5.47	326
October	456	18	14	14.7	904
November	469	19	13	15.6	930
December 1-5	70	16	12	14.0	139
The period					3,240

Arena Creek near Crestone, Colo.

(Known locally as Sand Creek)

Location.- Water-stage recorder, lat. 37°51', long. 105°33', in sec. 31, T. 25 S., R. 73 W., at edge of sand dunes 14 miles southeast of Crestone.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, determined by slope-area method, 232 second-feet Aug. 6 (gage height, 2.32 feet); minimum daily discharge, 7.0 second-feet Nov. 26-30.

Remarks.- Records good except those for May 1-5, Oct. 8-17, and for period of ice effect, Nov. 24-30, computed on basis of discharge measurements, gage heights, weather records and comparison with other streams, which are fair. No diversions above station. Water sinks into valley floor approximately 1 mile below station except during extremely high stages.

Discharge, in second-feet, May to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	16	39	11	39	49	24	33
2	18	33	10	56	43	23	18
3	30	26	8.5	62	59	20	21
4	45	27	8.1	69	53	12	22
5	52	24	7.6	122	44	12	14
6	48	24	7.3	175	39	18	14
7	39	24	7.2	123	35	12	12
8	31	25	8.9	86	33	11	13
9	26	25	11	76	29	11	12
10	22	25	9.0	57	29	11	11
11	20	24	22	45	28	11	11
12	25	24	30	38	28	12	11
13	36	24	21	32	26	14	11
14	50	22	18	28	24	14	11
15	64	20	18	24	22	12	11
16	73	19	17	25	22	10	12
17	64	17	15	23	20	10	12
18	56	17	15	25	19	10	12
19	60	14	12	38	22	10	12
20	60	14	22	101	17	16	12
21	58	12	15	94	13	16	12
22	50	13	11	82	13	16	12
23	48	15	9.6	60	12	12	14
24	53	13	9.3	48	12	12	9
25	50	11	9.0	40	11	12	8
26	46	9.1	9.0	35	12	21	7
27	44	13	10	32	12	19	7
28	42	18	99	34	12	15	7
29	47	14	44	40	12	15	7
30	47	12	47	56	16	22	7
31	41	-	37	52	-	35	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	1,363	73	16	44.0	2,700
June	597.1	39	9.1	19.9	1,180
July	578.5	99	72	18.7	1,150
August	1,817	175	23	58.6	3,600
September	766	59	11	25.5	1,520
October	468	35	10	15.1	928
November	375	33	7	12.5	744
The period					11,820

Prairie Ditch near Mosca, Colo.

Location.- Water-stage recorder, lat. 37°38', long. 105°48', in sec. 8, T. 39 N., R. 11 E., 3½ miles southeast of Mosca.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum daily discharge during period, 8.9 second-feet June 3; no flow for several months.

Remarks.- Records good. Records show the return water from irrigated lands flowing into the "closed basin".

Discharge, in second-feet, water year May 1936 to November 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	2.1	0	0	0
2								-	1.7	0	0	0
3								-	8.9	0	0	0
4								-	6.4	0	0	0
5								-	2.2	0	*.2	0
6								-	.2	0	*1.0	0
7								-	.2	0	*.1	0
8								-	1.0	0	0	0
9								-	1.1	0	0	0
10								-	1.0	0	0	0
11								-	1.4	0	0	0
12								-	1.1	0	0	0
13								-	.3	0	0	0
14								-	.3	0	0	0
15								-	.2	0	0	0
16								-	.2	0	0	0
17								-	.1	0	0	0
18								-	.1	0	0	0
19								-	.1	0	0	0
20								-	.1	0	0	0
21								-	0	0	0	0
22								-	0	0	0	0
23								-	.3	0	0	0
24								-	.5	0	0	0
25								-	.1	0	0	0
26								.1	.1	0	0	0
27								.1	0	0	0	.5
28								.1	0	0	0	.5
29								.2	0	0	0	0
30								5.4	0	0	0	.1
31								7.9	-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 26-31	13.8	7.9	0.1	2.30	27
June	28.7	8.9	0	0.96	57
July	0	0	0	0	0
August	1.3	1.0	0	.04	2.6
September	1.1	0.5	0	.04	2.2
October	0	0	0	0	0
November	0	0	0	0	0
The period					89

*Estimated on basis of high-water marks.

Note.- No flow Oct. 1 to Nov. 30.

Seepage and waste from the Rio Grande into closed basin in San Luis Valley, Colo.

The discharge measurements shown in the following table were made to furnish a basis for estimating how much of the water diverted from the Rio Grande for irrigation enters the "closed basin" in the northern part of San Luis Valley as waste and seepage. None of this water returns to the Rio Grande. Measurements were made from Alamosa, Colo., northward along the section line 2 miles west of the range line between ranges 10 E. and 11 E. Ditches are numbered from Alamosa.

Measurements of waste and seepage water flowing into closed basin in northern San Luis Valley, Colo., in 1936

Ditch number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Miles north of Alamosa	1.2	3.1	3.45	3.6	4.6	4.85	5.6	5.65	6.6	7.45	8.0	8.3	8.7	9.4	10.85	11.6	11.9	12.1	12.3
Date	Discharge in second-feet																		
June 25	0	0	0	0	0	0	2.0	0	0	0	0	0	0	0	0	4.6	0	0	0
July 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.1	0
11	2.14	0	1.3	0	0	0	.3	0	0	0	0	0	0	0	0	0	.8	.1	0
17	.10	.1	0	0	0	0	0	0	0	18.2	8.5	1.7	1.4	1.4	0	0	1.0	0	0
24	.10	.1	0	0	.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug. 8	0	13.8	25.4	.1	0	0	3.4	0	0	.4	4.1	.1	1.0	.1	0	0	.8	0	0
14	0	18.1	.2	0	0	0	5.9	0	0	0	0	0	.1	.1	0	0	0	0	0
21	0	10.8	.1	0	0	0	4.4	0	0	0	0	0	0	0	0	0	0	0	0
28	0	11.0	.2	0	0	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0
Sept. 4	0	0	12.0	.5	0	0	4.5	0	0	0	0	0	0	0	0	.1	2.4	0	0
11	0	7.6	.1	0	0	0	2.4	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	6.9	.1	0	0	1.9	0	0	0	0	0	0	0	0	.04	3.5	0	.02
Oct. 2	0	2.2	1.7	0	.02	0	1.8	0	0	5.4	4.3	.1	.2	.1	0	.04	.4	.1	.1
10	.10	1.0	0	0	.02	.5	.5	0	0	13.0	8.9	.2	.02	0	0	0	0	0	5.6
16	0	0	.9	0	0	0	1.3	0	0	10.0	6.0	.8	.3	.2	0	0	0	0	0
23		0	0	0	0	0	8.6	0	0	21.4	0	0	.1	.05	0	0	0	0	6.9
30	.10	6.9	9.2	0	0	0	0	4.2	0	2.7	2.6	0	0	0	0	3.4	.9	0	.01
Nov. 6	0	16	0	0	0	0	8.5	0	0	13.8	0	0	.8	1.0	0	0	0	0	0
13	4.49	5.4	0	0	0	0	.1	0	0	8.1	0	0	0	0	0	0	0	0	0
21	7.05	0	0	0	0	0	0	0	0	5.4	.3	0	.5	.2	0	0	0	0	0
28	10.0	0	0	0	0	0	0	0	0	8.5	2.5	0	.2	0	0	0	0	0	0

Ditch number	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Miles north of Alamosa	12.95	13.0	13.1	14.0	14.7	15.2	15.7	16.4	16.65	16.65	16.8	17.1	17.2	17.65	17.7	18.2	18.65	19.0
Date	Discharge in second-feet																	
June 25	0	0	0	0	3.0	1.9	1.4	0	2.4	0	0	0	0	0	0	0	0	0
July 2	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	0
11	4.5	3.3	2.6	0	7.9	1.1	1.3	0	1.6	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug. 8	0	11.8	0	0	0	2.4	0	0	0	0	0	0	0	0	.2	2.0	.4	.7
14	0	0	0	0	0	.6	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	.2	.6	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	.2	.3	0	0	0	0	0	0	0	0	0	0	0	0
Sept. 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	.1	0	0	0	0	0	0	0	0	0	0	0
Oct. 2	0	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	.06	0
10	0	0	0	0	0	0	0	0	0	0	0	0	2.1	1.2	0	0	0	0
16	0	.8	2.6	0	0	0	0	0	0	0	0	0	0	0	0	1.5	.5	0
23	0	0	0	0	0	0	0	0	0	0	0	0	1.9	.3	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	.05	0
Nov. 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Alamosa Creek above Terrace Reservoir, 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 1936 in reports of U. S. Geological Survey; April 1914 to October 1919, October 1923 to September 1927, October 1934 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,050 second-feet May 4 (gage height, 3.24 feet); minimum daily discharge, 20 second-feet (estimated), Nov. 21-30, Apr. 1-3, probably lower during period of no record.

1911-12, 1914-19, 1923-27, 1934-36: Maximum daily discharge, 4,250 second-feet Oct. 5, 1911; minimum not determined.

Remarks.- Records excellent May 14 to Sept. 30, good for Oct. 1 to Nov. 30, Apr. 1 to May 13 except those for Apr. 1-5 and period of ice effect, Nov. 21-30, estimated on basis of weather records, which are fair. No record Dec. 1 to Mar. 31. No regulation or diversions.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	24					20	374	382	61	60	105
2	30	24					20	513	318	72	54	88
3	30	24					20	610	265	65	72	121
4	30	22					21	747	257	62	77	114
5	28	24					24	840	249	57	261	92
6	28	26					26	672	273	57	190	82
7	28	26					24	432	289	55	164	73
8	28	24					28	342	297	60	150	68
9	26	24					33	274	297	63	136	63
10	26	24					40	242	297	72	119	60
11	26	22					68	246	289	109	117	70
12	26	22					114	317	281	86	134	66
13	26	24					166	392	249	65	96	57
14	26	24					178	412	233	57	92	50
15	26	24					191	450	229	50	88	46
16	26	24					232	662	222	48	84	40
17	26	26					270	704	197	50	81	38
18	24	24					274	654	177	44	94	37
19	24	22					232	630	161	49	84	38
20	26	22					263	638	144	49	129	36
21	26						329	598	131	44	153	34
22	26						412	552	126	46	126	40
23	24						477	536	134	38	96	40
24	24						454	530	131	34	81	33
25	26						500	482	117	31	70	33
26	26	20					500	422	107	30	72	33
27	24						500	428	101	40	60	37
28	26						500	450	96	65	66	42
29	26						454	444	96	70	92	38
30	26						329	439	92	70	144	44
31	24	-					-	422	-	55	107	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	822	30	24	26.5	1,630
November	676	26	-	22.5	1,340
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	6,699	500	20	223	13,290
May	15,456	840	242	499	30,660
June	6,237	382	92	208	12,370
July	1,774	109	30	57.2	3,520
August	3,349	261	54	108	6,640
September	1,718	121	33	57.3	3,410
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.

Records available.- April 1909 to June 1912, October 1933 to September 1936 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 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 502 second-feet May 5, maximum gage height, 3.39 feet May 7; minimum daily discharge, 30 second-feet Apr. 1.
1909-12, 1915, 1917-20, 1922-36: Maximum daily discharge, 1,450 second-feet June 16-18, 1917; minimum daily discharge, 4 second-feet July 10, 1934.

Remarks.- Records good. Discharge Nov. 24 to Apr. 6 computed on basis of gate openings at reservoir. No diversions above station. Flow regulated by Terrace Reservoir, capacity, 17,700 acre-feet.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	37	36	34	33	32	31	404	403	162	80	130
2	36	37	36	34	33	32	31	368	392	156	51	109
3	36	36	35	34	33	32	32	368	332	144	88	111
4	36	36	35	34	33	32	32	448	321	78	92	116
5	36	36	35	34	33	32	34	498	253	56	66	130
6	37	36	35	34	33	32	34	494	218	102	61	133
7	37	36	35	34	33	32	36	490	218	102	53	133
8	37	36	35	34	33	31	38	361	249	97	51	133
9	37	36	35	34	33	31	36	267	292	171	51	124
10	37	36	35	34	33	31	35	249	267	171	62	104
11	37	36	35	34	33	31	35	211	285	133	72	101
12	37	36	35	34	33	31	60	208	285	99	104	99
13	37	36	35	34	32	31	125	235	282	171	133	90
14	37	36	35	34	32	31	184	307	218	165	177	90
15	37	36	35	34	32	31	206	339	235	144	191	78
16	37	36	35	34	32	31	224	377	232	124	191	66
17	37	36	35	34	32	31	271	403	225	119	184	66
18	37	36	35	34	32	31	294	442	194	80	181	66
19	37	36	35	34	32	31	294	462	198	51	171	56
20	37	36	35	33	32	31	297	462	211	88	147	46
21	37	36	35	33	32	31	294	426	144	94	90	41
22	37	36	35	33	32	31	294	411	177	102	76	37
23	37	36	35	33	32	31	331	415	181	106	70	37
24	37	36	35	33	32	31	379	422	162	108	70	37
25	37	36	35	33	32	31	393	442	171	108	90	35
26	37	36	35	33	32	31	397	438	174	66	138	33
27	37	36	34	33	32	31	429	346	127	116	147	33
28	37	36	34	33	32	31	467	380	109	97	162	33
29	37	36	34	33	32	31	467	415	156	72	165	33
30	37	36	34	33	-	31	463	442	159	39	159	33
31	37	-	34	33	-	31	-	407	-	90	150	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,142	37	36	36.8	2,270
November	1,082	37	36	36.1	2,150
December	1,082	36	34	34.9	2,150
Calendar year 1935	50,417	1,180	7	138	100,000
January	1,042	34	33	33.6	2,070
February	940	33	32	32.4	1,860
March	968	32	31	31.2	1,920
April	6,243	467	31	208	12,380
May	11,957	498	208	386	23,720
June	6,870	403	109	229	13,630
July	3,411	171	39	110	6,760
August	3,523	191	51	114	6,990
September	2,333	133	33	77.8	4,630
Water year 1935-36	40,593	498	30	111	80,530

Alamosa Creek near Capulin, Colo.

Location.- Water-stage recorder, lat. 37°17', long. 106°5', in sec. 10, T. 35 N., R. 8 E., just above diversion of Union Ditch and 1¼ miles northeast of Capulin.

Drainage area.- 138 square miles.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, 201 second-feet May 21 (gage height, 3.15 feet); no flow July 22-27, Nov. 21-23.

Remarks.- Records good except those for periods of ice effect, Nov. 3, 4, 19-30, computed on the basis of two discharge measurements and weather records, which are fair. Diversions for irrigation and Terrace Reservoir (capacity, 17,700 acre-feet) above station.

Discharge, in second-feet, May to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	-	128	3.6	2.0	5.0	5.5	6.6
2	-	128	3.0	.6	10	5.8	2.4
3	-	106	3.2	.7	5.8	6.6	2.5
4	-	95	1.8	2.8	2.6	6.8	2.5
5	-	49	1.8	28	4.6	6.0	5.3
6	-	38	1.8	38	4.2	8.7	3.0
7	-	33	5.3	58	3.8	7.9	6.0
8	-	39	12	22	2.6	2.8	7.9
9	-	88	18	14	2.2	3.4	6.6
10	-	108	15	8.7	.9	5.3	5.8
11	-	108	27	7.6	.9	7.3	5.8
12	-	108	27	7.1	1.4	6.6	4.8
13	-	101	9.0	6.8	2.8	3.2	5.0
14	-	79	9.0	8.4	4.4	7.9	3.0
15	-	66	11	12	4.8	6.6	2.2
16	-	51	8.7	8.7	1.4	1.4	.9
17	-	36	8.2	7.3	1.6	.7	.8
18	-	17	2.6	3.8	2.2	3.0	1.8
19	-	14	2.2	1.6	3.2	.8	3.0
20	195	28	2.6	7.9	1.2	5.5	1.5
21	182	46	.6	13	1.8	7.9	0
22	162	36	0	8.4	1.2	6.8	0
23	159	14	0	6.8	1.0	9.0	0
24	162	7.9	0	14	5.0	12	2.0
25	162	7.9	0	8.7	5.5	13	6
26	160	6.0	0	13	5.8	2.0	3.0
27	111	4.8	0	8.7	8.4	2.0	3.0
28	138	4.8	1.0	4.4	8.2	3.0	2.5
29	155	3.4	1.0	3.4	8.2	4.0	.5
30	155	3.6	1.0	3.4	7.6	2.8	1.0
31	128	-	2.2	3.2	-	4.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 20-31	1,869	195	111	156	3,710
June	1,554.4	128	3.4	51.8	3,080
July	178.6	27	0	5.76	354
August	333.0	58	0.6	10.8	660
September	118.3	10	0.9	3.94	234
October	169.1	13	.7	5.45	335
November	95.4	7.9	0	3.18	189
The period					8,560

La Jara Creek at Gallegos ranch, near Capulin, Colo.

Location.- Water-stage recorder, lat. 37°13', long. 106°11', in sec. 3, T. 34 N., R. 7 E., 2 miles above old station called "La Jara Creek near Capulin, Colo." (records not comparable) and 12 miles southwest of Capulin.

Drainage area.- 73 square miles.

Records available.- May to September 1936.

Extremes.- Maximum discharge during year, by slope-area method, 327 second-feet Aug. 20 (gage height, 4.30 feet); minimum daily discharge, 6.8 second-feet Sept. 10.

Remarks.- Records excellent. Small diversions for irrigation above station. Flow regulated by La Jara Reservoir (capacity, 14,040 acre-feet).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								30	12	9.4	14	9.1
2								30	11	9.7	11	9.4
3								33	11	9.1	13	9.1
4								31	11	9.1	15	8.8
5								30	11	8.8	22	7.8
6								28	10	16	14	7.4
7								28	9.7	32	11	7.2
8								32	8.8	38	12	7.4
9								35	7.8	37	9.7	7.2
10								33	8.1	40	8.4	6.8
11								31	8.8	41	8.8	7.4
12								32	8.4	39	8.1	7.8
13								28	8.4	37	7.8	7.6
14								24	8.1	37	11	7.4
15								23	7.8	39	9.4	7.4
16								23	7.8	40	8.1	7.2
17								21	7.8	41	11	7.8
18								20	7.6	40	8.8	8.4
19								19	7.6	40	8.4	8.4
20								18	7.6	40	30	7.8
21								16	7.8	40	13	7.6
22								15	7.8	39	9.4	10
23								15	9.4	37	8.4	11
24								13	10	42	8.1	8.4
25								14	10	43	8.1	7.8
26								15	11	42	7.6	9.7
27								14	11	42	8.1	14
28								12	10	42	8.4	14
29								11	9.7	26	9.7	11
30								11	9.7	16	15	13
31								11	-	15	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	696	35	11	22.5	1,380
June	276.7	12	7.6	9.22	549
July	987.1	43	8.8	31.8	1,960
August	348.3	30	7.6	11.2	691
September	263.9	14	6.8	8.80	523
The period					5,100

La Jara Creek below Empire Canal, near Sanford, Colo.

Location.- Water-stage recorder, lat. 37°19', long. 105°54', in sec. 6, T. 35 N., R. 10 E., 120 feet below diversion for Empire Canal 3 miles north of Sanford.

Records available.- May to November 1936, (discontinued).

Extremes.- Maximum discharge during period, 119 second-feet Aug. 8 (gage height, 468 feet); no flow July 22-28.

Remarks.- Records fair. Discharge for period of missing gage-height record, June 20 to July 17, estimated on basis of five discharge measurements.

Discharge, in second-feet, May to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	-	61	5	17	6.6	29	39
2	-	44	5	18	11	29	40
3	-	35	4	17	16	29	38
4	-	34	4	17	13	28	35
5	-	29	3	21	14	28	36
6	-	26	3	34	17	31	42
7	-	25	5	94	21	35	42
8	-	24	6	100	15	37	42
9	-	20	6	67	12	38	40
10	-	22	6	40	13	34	38
11	-	26	5	40	13	36	38
12	-	26	4	24	13	35	38
13	-	26	2	10	15	32	39
14	-	25	2	5.9	15	30	41
15	-	29	2	5.3	16	30	42
16	-	27	2	4.5	15	30	41
17	-	22	2	3.5	14	29	36
18	-	15	9	3.1	13	29	36
19	-	14	15	3.6	14	30	39
20	24	8	11	4.2	16	31	38
21	23	7	5	6.1	14	32	38
22	22	6	0	19	17	35	33
23	22	5	0	23	18	34	30
24	32	5	0	24	17	32	29
25	35	5	0	19	17	33	30
26	38	5	0	16	18	35	28
27	30	5	0	7.5	22	33	31
28	23	5	0	5.1	29	36	32
29	24	6	14	5.7	32	35	31
30	26	6	18	5.7	31	34	31
31	38	-	16	5.7	-	34	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 20-31	337	38	22	28.1	668
June	593	61	5	19.8	1,180
July	154	18	0	5.0	305
August	665.9	100	3.1	21.5	1,320
September	497.6	32	6.6	16.6	987
October	1,003	38	28	32.4	1,990
November	1,093	42	28	36.4	2,170
The period					8,620

La Jara Drain near Sanford, Colo.

Location.- Water-stage recorder, lat. 37°18', long. 105°54', in sec. 8, T. 35 N., R. 10 E., 400 feet above crossing of Empire Canal and 2 miles north of Sanford.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period, 19 second-feet Sept. 4 (gage height, 1.25 feet); minimum daily discharge, 0.2 second-foot July 26.

Remarks.- Records good. Records show return water from lands irrigated by lower end of Empire Canal and by diversions from La Jara Creek.

Discharge, in second-feet, May 1936 to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	-	7.0	3.0	1.1	11	10	11
2	-	6.6	3.8	1.3	11	10	11
3	-	7.6	2.5	1.5	10	10	11
4	-	9.0	2.5	1.6	9.6	10	11
5	-	9.4	3.0	2.6	7.0	10	11
6	-	9.6	3.5	2.9	7.4	10	11
7	-	9.8	5.0	4.4	7.8	12	11
8	-	9.8	5.8	4.0	8.2	11	11
9	-	10	6.4	6.6	8.2	10	11
10	-	10	6.0	8.6	8.4	10	11
11	-	9.6	3.6	8.4	8.6	9.8	10
12	-	12	2.1	7.4	9.2	9.8	9.8
13	-	9.4	2.4	7.2	9.4	9.6	9.6
14	-	12	2.9	7.0	10	9.2	9.2
15	-	13	7.0	7.0	9.4	9.2	9.4
16	-	14	6.6	7.8	9.0	9.6	9.2
17	-	10	6.2	8.2	8.2	9.4	9.2
18	-	8.6	5.0	6.6	7.8	9.6	9.4
19	-	6.8	2.8	2.4	7.8	9.6	9.2
20	9.6	6.4	2.5	6.6	7.8	9.4	9.2
21	9.0	5.5	1.8	9.0	7.6	9.4	9.2
22	9.2	5.5	1.5	8.8	7.4	9.2	9.0
23	10	5.6	1.5	8.6	7.6	9.2	9.0
24	12	5.5	1.1	7.8	7.4	9.2	9.0
25	12	5.8	.6	7.4	7.0	9.6	8.6
26	11	4.3	.2	7.8	8.0	9.4	9.0
27	7.4	3.5	.7	8.2	9.2	9.8	9.0
28	6.8	3.6	1.0	9.8	9.8	10	9.2
29	7.2	4.0	1.2	10	9.8	11	9.4
30	7.4	3.0	1.0	12	10	11	9.4
31	8.0	-	1.3	12	-	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 20-31	109.6	12	6.8	9.13	217
June	236.9	14	3.0	7.90	470
July	94.5	7.0	0.2	3.05	187
August	204.8	12	1.1	6.61	406
September	259.6	11	7.0	8.65	515
October	307.0	12	9.2	9.90	609
November	295.0	11	8.6	9.83	585
The period					2,990

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 1936 in reports of U. S. Geological Survey; April 1923 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 86 second-feet May 16 (gage height, 1.58 feet); minimum daily discharge recorded, 9 second-feet Apr. 10, probably less during period of no record.

1923-36: Maximum discharge, 318 second-feet May 23, 1926 (gage height, 2.54 feet); minimum not determined.

Remarks.- Records fair Oct. 1-31, Apr. 1 to May 3; good May 4 to Sept. 30. Discharge estimated for Oct. 24-31. No record Nov. 1 to Mar. 31. No diversions or regulation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15						13	33	64	21	18	21
2	15						19	33	64	21	18	19
3	15						19	33	64	20	26	20
4	15						13	35	59	18	34	20
5	15						13	36	53	18	52	19
6	15						13	36	48	19	52	18
7	15						11	34	46	20	52	18
8	15						13	22	45	21	49	18
9	15						11	31	44	22	45	17
10	15						9	37	44	18	43	16
11	15						13	42	44	19	41	20
12	15						19	40	42	20	40	18
13	15						24	45	42	18	38	16
14	15						24	56	41	17	36	14
15	15						24	69	39	15	33	15
16	15						24	80	37	17	33	15
17	15						28	81	35	15	31	14
18	15						28	79	33	14	28	16
19	12						24	77	32	15	35	16
20	12						24	76	31	16	34	14
21	12						28	75	29	14	32	14
22	12						28	72	27	14	29	13
23	12						28	74	27	13	27	13
24	12						28	74	26	13	26	12
25	12						33	72	26	12	25	12
26							33	70	24	13	24	14
27							33	68	25	18	23	13
28	11						33	66	24	20	24	15
29							33	65	24	18	26	15
30							33	66	23	17	26	16
31							-	66	-	16	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	420	15	11	13.5	833
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	676	33	9	22.5	1,340
May	1,743	81	22	56.2	3,460
June	1,162	64	23	38.7	2,300
July	532	22	12	17.2	1,060
August	1,022	52	18	33.0	2,030
September	481	21	12	16.0	954
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 1936 in reports of U. S. Geological Survey; May 1923 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 67 second-feet May 18 (gage height, 1.06 feet); minimum daily discharge, 5.1 second-feet Apr. 1, probably less during period of no record.

1923-36: Maximum discharge, 385 second-feet May 24, 1926 (gage height, 1.84 feet); minimum not determined.

Remarks.- Records good. No records Nov. 7 to Mar. 31. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	12					5.1	16	59	14	13	16
2	15	13					5.4	15	56	13	15	16
3	15	12					7.7	13	56	12	16	18
4	14	12					8.9	15	53	12	27	18
5	14	8					8.9	16	50	12	48	16
6	14	8					8.5	16	40	13	46	16
7	14	-					8.5	16	24	16	50	16
8	14	-					10	16	24	16	47	15
9	15	-					11	18	23	16	44	15
10	14	-					10	20	20	17	40	15
11	14	-					11	18	23	18	41	16
12	14	-					16	17	24	20	39	16
13	14	-					18	16	21	16	35	15
14	14	-					20	20	20	16	32	13
15	16	-					20	33	22	16	31	12
16	14	-					21	52	31	16	28	13
17	14	-					21	63	26	15	26	13
18	13	-					22	61	21	15	25	13
19	14	-					21	56	16	14	26	14
20	14	-					20	56	14	13	30	12
21	14	-					23	54	12	10	29	10
22	14	-					24	49	11	10	25	10
23	14	-					26	49	12	8.1	19	12
24	14	-					24	49	13	8.1	17	12
25	13	-					22	48	14	8.1	17	12
26	14	-					21	46	14	6.9	18	12
27	13	-					21	47	14	8.1	18	13
28	12	-					21	57	15	16	18	13
29	12	-					21	62	14	14	19	14
30	14	-					16	63	14	14	20	15
31	12	-					-	63	-	13	16	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	432	16	12	13.9	857
November 1-6	65	13	8	10.8	129
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	493.0	26	5.1	16.4	978
May	1,140	63	13	36.8	2,260
June	756	59	11	25.2	1,500
July	416.3	20	6.9	13.4	826
August	875	50	13	28.2	1,740
September	421	18	10	14.0	835
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 1936 in reports of U. S. Geological Survey; October 1929 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 66 second-feet Sept. 1 (gage height, 1.95 feet); minimum daily discharge, 0.8 second-foot July 20-27, Sept. 24, 25.
1929-36: Maximum discharge, 164 second-feet May 15, 1932 (gage height, 2.90 feet); minimum daily discharge, 0.5 second-foot Jan. 1 to Mar. 20, 1935.

Remarks.- Records good except those for Oct. 24 to Feb. 18, estimated on basis of reservoir losses and temperature records, which are fair. Diversions for irrigation above station. Flow regulated by Smith Reservoir (capacity, 5,335 acre-feet).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1					7.0	13	3.8	1.0	7.8	9.5	61
2	1					8.4	11	2.8	1.0	8.1	9.2	59
3	1					8.9	9.5	2.0	1.0	7.6	10	50
4	1					10	7.6	1.4	1.0	7.3	8.1	42
5	1					10	13	1.3	1.0	6.7	6.7	38
6	1					11	3.8	1.4	1.0	6.5	6.5	30
7	1					13	5.8	2.6	1.8	6.5	5.5	23
8	1					13	5.5	.9	13	6.5	5.5	16
9	1					12	5.8	1.4	16	6.5	4.9	13
10	1				1.8	12	5.8	3.8	14	6.2	5.1	9.5
11	1					11	5.5	7.6	13	7.0	7.6	6.7
12	1					11	5.3	9.5	12	7.0	14	5.5
13	2					10	6.5	9.2	10	6.7	19	3.7
14	2					9.5	9.5	9.5	11	4.2	20	2.5
15	2					8.4	13	11	11	1.1	22	1.6
16	2					7.3	15	18	10	1.1	18	1.3
17	2					6.5	14	29	11	1.0	13	1.1
18	2					5.8	15	36	11	1.0	12	.9
19	2				1.8	5.3	14	33	11	.9	15	1.0
20	2				1.8	4.4	16	30	8.6	.8	13	.8
21	2				1.9	4.0	14	24	8.4	.8	26	.8
22	2				2.5	4.4	14	16	7.8	.8	39	.9
23	2				2.5	5.8	13	14	8.1	.8	38	1.0
24					3.2	6.7	12	10	8.6	.8	31	.8
25					4.0	7.0	12	6.7	8.4	.8	24	.8
26					4.7	8.6	15	3.5	8.4	.8	20	1.0
27	2				4.9	9.2	17	1.8	8.4	.8	13	1.1
28					5.3	11	16	1.1	8.4	1.8	10	1.1
29					6.2	12	11	1.0	8.1	11	6.5	1.3
30					-	14	5.8	1.1	8.1	9.8	7.0	1.5
31					-	13	-	1.0	-	9.8	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	50	2	1	1.6	99
November	60	-	-	2	119
December	62	-	-	2	123
Calendar year 1935	1,894.5	62	.5	5.19	3,760
January	58.9	-	-	1.9	117
February	71.2	6.2	1.8	2.46	141
March	280.2	14	4.0	9.04	556
April	324.4	17	3.8	10.8	643
May	294.4	36	.9	9.50	584
June	242.1	16	1.0	8.07	480
July	138.5	11	.8	4.47	275
August	461.1	39	4.9	14.9	916
September	376.9	61	.8	12.6	748
Water year 1935-36	2,419.7	61	.8	6.66	4,800

Trinchera Creek at mouth, near La Sauses, Colo.

Location.- Water-stage recorder, lat. 39°19', long. 105°44', in sec. 25, T. 31 S., R. 75 W., a third of a mile above mouth and 5 miles north of La Sauses.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge during period (computed), 45 second-feet Nov. 8 (ice affected); minimum daily discharge, 0.1 second-foot June 13-19, July 18-30.

Remarks.- Records fair. Discharge for period of ice effect, Nov. 3, 4, 7-12, 21-30, computed on basis of gage heights, temperature records, and two discharge measurements. Discharge May 1-8 estimated. Most of flow diverted for irrigation above station.

Discharge, in second-feet, May to November 1936

Day	May	June	July	Aug.	Sept.	Oct.	Nov.
1	4.0	0.4	0.2	0.2	13	8.7	36
2	3.0	.3	.2	.2	24	6.6	38
3	2.0	.2	.2	.2	26	5.8	36
4	2.0	.2	.2	.3	25	7.8	35
5	2.0	.2	.2	.4	23	11	35
6	1.4	.2	.2	.3	21	15	37
7	1.4	.2	.2	.7	19	14	38
8	1.4	.2	.2	.4	16	8.3	40
9	1.4	.2	.2	.3	16	5.7	39
10	1.6	.2	.2	.4	13	4.2	38
11	1.7	.2	.2	.3	12	4.6	37
12	2.2	.2	.3	.4	10	5.4	36
13	2.7	.1	.3	.3	8.3	11	38
14	2.7	.1	.2	.3	6.8	13	37
15	2.2	.1	.2	.4	6.6	18	37
16	1.3	.1	.2	.3	4.9	22	37
17	1.3	.1	.2	.6	3.8	14	38
18	3.0	.1	.1	.9	4.5	15	38
19	8.3	.1	.1	1.4	4.2	17	37
20	9.7	.2	.1	12	3.7	20	37
21	8.9	.3	.1	15	3.2	24	34
22	7.0	.4	.1	16	3.4	28	31
23	5.5	.4	.1	20	3.4	31	28
24	2.6	.3	.1	23	3.2	34	25
25	1.9	.3	.1	24	3.2	34	21
26	1.3	.3	.1	21	3.0	37	24
27	1.2	.3	.1	18	.7	35	26
28	1.0	.3	.1	16	3.3	36	25
29	1.0	.3	.1	16	16	37	24
30	.7	.3	.1	12	12	37	24
31	.6	-	.2	10	-	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May	87.0	9.7	0.6	2.81	173
June	6.8	.4	.1	.23	14
July	5.1	.3	.1	.16	10
August	211.3	24	.2	6.82	419
September	312.2	26	.7	10.4	619
October	596.1	37	4.2	19.2	1,180
November	1,006	40	21	33.5	2,000
The period					4,420

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., 1½ miles east of Fort Garland.

Drainage area.- 187 square miles.

Records available.- October 1933 to September 1936 in reports of U. S. Geological Survey; March to October 1916, May 1923 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, by slope-area method, 1,520 second-feet Aug. 31 (gage height, 6.10 feet); no flow July 23-27.
1916, 1923-36: Maximum discharge, that of Aug. 31, 1936; no flow at times during 1934-36.

Remarks.- Records good except those for Oct. 21-31, May 1-3 estimated by comparison with other streams, which are fair. No records Nov. 1 to Apr. 30. Some diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16							9.0	27	2.5	7.2	31
2	14							9.0	23	2.2	9.0	18
3	14							9.0	23	2.0	56	15
4	14							10	21	1.6	30	14
5	12							9.5	19	.9	83	12
6	12							9.5	17	.7	60	9.5
7	11							9.5	15	1.5	61	6.6
8	11							13	13	8.5	48	5.7
9	11							18	11	9.0	37	5.2
10	11							28	12	24	29	4.3
11	10							26	16	11	27	4.8
12	10							35	16	7.7	20	6.6
13	9							41	13	5.9	16	5.2
14	8							44	10	3.9	16	3.2
15	7							54	8.0	2.8	21	2.4
16	9							60	7.1	2.1	15	2.4
17	10							58	6.0	1.7	12	2.2
18	11							56	4.9	1.4	10	6.2
19	11							51	4.1	2.8	14	5.7
20	12							49	3.8	5.0	15	5.7
21	12							48	3.6	2.4	17	3.9
22	12							49	3.3	1.4	14	3.4
23	10							50	3.6	0	11	3.2
24	10							47	4.6	0	9.0	2.4
25	10							44	3.5	0	7.7	2.4
26	10							42	3.2	0	5.9	2.9
27	10							39	3.0	0	4.6	6.2
28	10							35	3.6	53	5.0	9.0
29	10							31	3.8	22	6.4	11
30	10							30	2.8	12	20	13
31	10							32	-	10	139	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	337	16	7	10.9	668
November	-	-	-	-	-
December	-	-	-	-	-
Calendar year					
January					
February					
March					
April					
May	1,045.5	60	9	33.7	2,070
June	304.9	27	2.8	10.2	605
July	193.0	53	0	6.39	393
August	825.8	139	4.6	26.6	1,640
September	223.1	31	2.2	7.44	443
Water year					

Sangre de Cristo Creek above Smith Reservoir, near Blanca, Colo.

Location.- Water-stage recorder, lat. 37°24', long. 105°30', in sec. 35, T. 30 S., R. 73 W., just above Smith Reservoir and 2 miles south of Blanca. Datum lowered 1.06 feet Apr. 1, 1936.

Drainage area.- 231 square miles.

Records available.- October 1933 to September 1934, April to September 1936 (discontinued) in reports of U. S. Geological Survey; April 1929 to September 1934, April to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during period, 301 second-feet Aug. 5 (gage height, 4.75 feet); minimum daily discharge, 2.3 second-feet July 25.
1929-34, 1936: Maximum discharge, that of Aug. 5, 1936; minimum daily discharge, 1 second-foot June 18-20, 25, 26, 30, 1931.

Remarks.- Records poor. Discharge for July 4-9 estimated on basis of range in stage. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							4.2	9.2	14	10	17	81
2							4.8	9.2	11	8.8	10	47
3							3.4	8.8	11	6.8	39	44
4							3.6	8.4	10		40	48
5							3.4	14	9.2		246	43
6							3.2	12	8.4	5.6	237	30
7							3.0	12	7.6		206	24
8							3.0	35	8.0		148	20
9							2.8	63	6.8		114	15
10							3.0	55	6.2	5.4	91	12
11							2.6	55	8.4	7.6	72	18
12							5.4	47	8.0	6.2	57	22
13							14	40	8.0	5.9	44	16
14							17	53	7.3	5.6	37	11
15							15	67	5.9	6.8	33	7.0
16							13	85	5.9	6.8	29	7.8
17							13	113	5.6	6.2	18	7.8
18							15	94	7.0	5.4	15	7.4
19							12	74	6.2	4.6	17	10
20							11	57	7.3	4.0	25	7.0
21							16	46	7.6	3.8	78	6.5
22							14	35	7.3	3.2	56	6.5
23							9.2	27	8.4	3.0	41	6.8
24							10	22	17	2.6	31	7.0
25							12	20	12	2.3	23	7.0
26							28	16	11	2.5	18	7.0
27							20	13	11	3.8	13	15
28							8.6	12	10	132	12	24
29							7.6	11	10	92	17	27
30							7.6	12	10	35	42	33
31							-	29	-	28	159	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	285.6	28	2.6	9.52	566
May	1,154.6	113	8.4	37.2	2,290
June	266.1	17	5.6	8.87	528
July	431.9	132	2.3	13.9	857
August	1,985	246	10	64.0	3,940
September	617.8	81	6.5	20.6	1,230
The period					9,410

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Ute Creek at upper station, near Fort Garland, Colo.

Location.- Water-stage recorder, lat. 37°32', long. 105°23', in sec. 12, T. 29 S., R. 72 W., 150 yards below forks and 9 miles northeast of Fort Garland.

Drainage area. 23.3 square miles.

Records available.- May to July 1936 (discontinued).

Extremes.- Maximum discharge during period, by slope-area method , 554 second-feet July 27 (gage height, 3.04 feet); minimum daily discharge, 13 second-feet July 25, 26.

Remarks.- Records good. Recorder shelter destroyed by flood on July 27. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	57	28		
2								-	51	25		
3								-	44	23		
4								84	42	21		
5								77	40	20		
6								66	42	18		
7								54	43	19		
8								46	44	19		
9								49	45	19		
10								44	45	20		
11								46	46	22		
12								50	46	24		
13								56	45	18		
14								61	42	16		
15								73	42	16		
16								83	47	18		
17								82	39	20		
18								76	35	18		
19								76	33	22		
20								73	32	30		
21								73	30	20		
22								69	30	18		
23								69	46	16		
24								70	48	14		
25								69	37	13		
26								65	34	13		
27								68	32	49		
28								69	38	-		
29								73	38	-		
30								78	33	-		
31								66	-	-		

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 4-31		84	44	66.6	3,700
June		57	30	40.9	2,430
July 1-27		49	13	20.7	1,110
August					
September					
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 1936 in reports of U. S. Geological Survey; March to October 1916, May 1923 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 353 second-feet Aug. 5 (gage height, 3.05 feet); minimum daily discharge, 1.6 second-feet July 6.
1916, 1923-36: Maximum discharge, that of Aug. 5, 1936; minimum daily discharge, that of July 6, 1936.

Remarks.- Records good. No record Nov. 7 to Mar. 31. Some diversion for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	11					7.5	57	50	10	50	68
2	22	12					5.5	58	46	4.5	41	48
3	20	11					8.5	62	42	3.4	48	44
4	19	10					8.5	68	39	2.2	66	39
5	19	9					7.0	68	36	1.8	288	32
6	18	10					6.5	63	36	1.6	208	30
7	15	-					8.0	55	36	5.5	169	27
8	15	-					12	51	37	11	132	25
9	15	-					14	52	37	11	98	24
10	13	-					12	46	39	16	80	24
11	12	-					18	41	38	15	66	24
12	13	-					30	41	38	16	50	26
13	14	-					39	43	37	16	40	23
14	14	-					45	48	36	20	39	20
15	12	-					49	57	33	16	37	18
16	12	-					50	64	38	16	32	19
17	13	-					55	68	35	15	30	17
18	13	-					66	61	32	15	28	15
19	13	-					57	62	29	22	31	16
20	14	-					58	60	26	23	35	14
21	13	-					61	58	25	17	73	11
22	13	-					62	56	23	15	47	10
23	14	-					70	53	33	12	37	11
24	14	-					67	55	38	9.6	32	9.6
25	14	-					74	55	24	7.5	28	9.0
26	15	-					70	53	13	3.2	27	11
27	14	-					63	53	13	24	26	11
28	13	-					61	55	15	236	25	16
29	13	-					64	55	19	249	29	21
30	12	-					61	62	14	94	53	22
31	11	-					-	59	-	71	86	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	453	22	11	14.6	899
November 1-6	63	12	9	10.5	125
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	1,209.5	74	5.5	40.3	2,400
May	1,739	68	41	56.1	3,450
June	957	50	13	31.9	1,900
July	979.3	249	1.6	31.6	1,940
August	2,031	288	25	65.5	4,030
September	684.6	68	9.0	22.8	1,360
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., 5½ 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 1936 in reports of U. S. Geological Survey; September 1899 to March 1900, April 1903 to September 1936 in reports of State engineer.

Average discharge.- 34 years (1902-36), 379 second-feet.

Extremes.- Maximum discharge during year, 2,400 second-feet May 5 (gage height, 4.35 feet); minimum daily discharge, 27 second-feet Dec. 7.
1899-1900, 1903-36: Maximum discharge, 6,000 second-feet (estimated) Oct. 5, 1911; minimum not determined.

Remarks.- Records excellent except those for period of ice effect, Nov. 29 to Mar. 22 (computed on the basis of six discharge measurements, gage heights, and weather records), which are good, and those for Nov. 21-26 (estimated by comparison with other streams), which are fair. No diversion or regulation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	66	37	35	35	40	74	1,130	1,110	202	109	224
2	118	81	30	34	45	37	83	1,330	960	191	114	219
3	112	75	34	34	46	36	85	1,660	758	168	116	215
4	110	72	34	33	34	35	81	1,940	695	154	151	312
5	110	63	47	32	42	36	76	2,120	623	138	473	232
6	104	66	31	32	44	37	74	2,000	713	135	431	202
7	100	75	27	32	40	34	74	1,470	794	129	438	175
8	99	75	37	32	46	35	116	1,060	812	138	438	154
9	97	75	31	32	42	38	172	875	812	151	334	138
10	93	72	39	32	46	48	211	749	830	187	255	127
11	91	70	34	32	46	52	328	695	785	260	236	161
12	86	63	39	34	48	52	520	839	794	322	260	179
13	86	64	39	36	52	56	731	1,140	713	215	198	151
14	82	64	40	38	52	67	803	1,340	650	172	172	129
15	82	55	40	40	50	70	866	1,380	650	151	183	116
16	81	55	45	41	50	70	1,010	1,780	614	138	164	106
17	81	57	44	36	48	70	1,090	1,880	569	138	161	102
18	77	70	45	38	46	69	1,070	1,880	496	124	158	102
19	77	64	45	32	45	72	980	1,840	459	119	168	122
20	99	47	45	32	45	72	1,080	1,740	417	122	250	101
21	100	50	42	33	42	85	1,250	1,740	386	106	275	98
22	95	50	42	34	42	94	1,520	1,580	356	109	228	154
23	93	55	42	35	42	102	1,640	1,540	356	93	187	270
24	90	55	42	35	42	87	1,450	1,500	356	83	158	168
25	91	60	42	34	42	81	1,560	1,480	322	74	135	145
26	86	60	42	35	42	81	1,570	1,240	285	67	124	145
27	93	37	42	34	43	81	1,470	1,200	270	93	114	179
28	93	44	42	34	43	76	1,520	1,280	245	104	111	183
29	93	47	42	35	42	71	1,420	1,330	236	116	129	172
30	86	37	42	32	-	81	1,090	1,380	228	114	206	194
31	75	-	42	30	-	89	-	1,200	-	106	232	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,909	129	75	93.8	5,770
November	1,824	81	37	60.8	3,620
December	1,225	47	27	39.5	2,430
Calendar year 1935	150,967	3,170	23	414	299,470
January	1,058	41	30	34.1	2,100
February	1,282	52	34	44.2	2,540
March	1,954	102	34	63.0	3,870
April	24,014	1,640	74	800	47,630
May	44,318	2,120	695	1,429	87,900
June	17,294	1,110	228	576	34,300
July	4,419	322	67	143	8,760
August	6,708	473	109	216	13,310
September	4,975	312	98	166	9,870
Water year 1935-36	111,980	2,120	27	306	222,100

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 1936 in reports of U. S. Geological Survey; March 1921 to September 1936 in reports of State engineer.

Average discharge.- 15 years, 244 second-feet.

Extremes.- Maximum discharge during year, 2,310 second-feet Apr. 24; minimum daily discharge, 0.5 second-foot July 23, 24.
1921-36: Maximum daily discharge, 3,650 second-feet May 24, 1932; no flow July 21 to Sept. 8, 1934.

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

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	68	65	72	68	87	43	1,100	548	4.7	1.1	44
2	37	66	68	72	70	86	42	1,120	441	5.1	1.5	47
3	35	65	68	70	73	89	40	1,240	343	4.1	4.4	52
4	35	62	68	72	75	87	39	1,530	278	4.1	5.1	56
5	36	62	67	63	77	63	39	1,800	222	4.6	17	62
6	37	62	65	62	73	84	40	1,940	164	4.6	48	58
7	38	61	65	61	67	91	40	1,640	135	3.2	108	49
8	47	61	66	62	67	86	38	1,220	99	1.3	108	36
9	50	60	66	64	62	83	37	1,050	55	3.2	114	28
10	50	60	67	65	70	79	34	809	42	3.7	87	24
11	50	61	69	62	70	75	36	628	34	2.7	74	28
12	51	61	66	62	74	74	95	612	21	2.2	60	30
13	51	61	65	67	77	72	360	711	19	2.2	51	31
14	51	60	64	66	79	71	660	906	18	4.1	40	32
15	49	54	64	62	83	69	859	997	16	4.0	25	33
16	49	49	67	59	84	65	1,150	1,230	8.7	4.4	20	33
17	48	48	63	60	86	61	1,490	1,460	4.2	3.7	19	32
18	50	56	63	60	86	47	1,630	1,520	3.1	3.1	20	35
19	52	67	62	62	88	41	1,510	1,490	3.5	1.6	27	32
20	55	67	62	66	90	37	1,440	1,400	3.1	.6	37	30
21	52	67	62	68	88	36	1,560	1,250	2.5	.6	87	26
22	52	67	62	65	92	36	1,820	1,120	3.7	.6	106	31
23	61	69	60	65	96	37	2,100	942	4.1	.5	68	32
24	63	70	60	63	103	36	2,120	864	4.7	.5	58	36
25	65	69	60	62	94	37	1,860	832	4.7	1.0	51	38
26	71	67	60	64	87	41	1,900	727	3.7	1.9	38	42
27	74	66	64	68	87	41	1,830	591	3.2	1.0	29	46
28	79	65	68	71	85	40	1,660	549	2.3	1.4	29	49
29	79	65	72	73	80	38	1,620	517	2.8	2.4	29	70
30	78	65	76	70	-	40	1,270	488	3.7	1.4	30	83
31	71	-	74	68	-	41	-	582	-	1.0	32	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,660	79	35	53.5	3,290
November	1,881	70	48	62.7	3,730
December	2,028	76	60	65.4	4,020
Calendar year 1935	102,349	2,700	6	280	203,000
January	2,026	73	59	65.4	4,020
February	2,331	103	62	80.4	4,620
March	1,890	91	36	61.0	3,750
April	27,362	2,120	34	912	54,270
May	32,865	1,940	488	1,060	65,190
June	2,493.0	548	2.3	83.1	4,940
July	79.5	5.1	.5	2.56	158
August	1,424.1	114	1.1	45.9	2,820
September	1,225	83	24	40.8	2,430
Water year 1935-36	77,264.6	2,120	.5	211	153,200

San Antonio River at Ortiz, Colo.

Location.- Water-stage recorder, lat. 37°0', 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 1936 in reports of U. S. Geological Survey; January to October 1915, May 1919 to October 1920, October 1924 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, by slope-area method, 1,280 second-feet Aug. 4 (gage height, 4.38 feet); minimum daily discharge, 0.1 second-foot July 4-8.
1915, 1919-20, 1924-36: Maximum discharge, that of Aug. 4, 1936; no flow for periods nearly every year.

Remarks.- Records good except those for Oct. 1 to Nov. 2 and those estimated for Nov. 3-30, which are fair. No records Dec. 1 to Mar. 23. Small diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3	2				-	22	146	16	1.0	8.3	3.8
2	2	3				-	30	125	12	.6	4.1	2.1
3	2	3				-	26	125	11	.3	3.8	1.8
4	1	2				-	19	115	11	.1	135	2.4
5	1	1				-	16	106	9.2	.1	56	1.8
6	1	1				-	13	90	7.8	.1	26	1.7
7	1	1				-	10	83	7.0	.1	20	1.3
8	1	1				-	19	83	6.0	.1	15	1.3
9	1	1				-	82	69	8.8	12	12	1.3
10	1	1				-	137	69	12	14	6.0	1.1
11	2	1				-	247	83	14	23	3.2	1.2
12	2	1				-	300	106	11	11	2.4	3.0
13	1	1				-	332	98	7.0	6.0	2.1	4.1
14	1	1				-	383	83	3.5	6.0	1.6	2.1
15	1	1				-	418	83	2.4	3.0	7.8	1.6
16	2	1				-	491	81	1.8	1.8	4.7	1.1
17	3	1				-	491	69	1.7	1.0	5.6	1.0
18	2	1				-	491	57	1.1	.4	3.0	1.1
19	2	1				-	436	49	.6	.2	2.4	3.0
20	2	1				-	454	42	.6	9.8	90	3.5
21	2	1				-	454	36	.4	8.3	26	2.7
22	3	1				-	491	33	.4	30	9.8	2.7
23	6	1				-	436	28	.3	7.8	3.8	3.2
24	3	1				16	349	26	.2	4.4	2.1	2.1
25	6	1				19	349	24	.2	2.7	1.3	2.4
26	9	1				22	300	21	1.4	1.8	1.0	2.7
27	9	1				30	238	21	1.3	4.7	.7	1.8
28	6	1				22	238	19	1.7	14	.6	12
29	6	1				16	209	16	2.4	20	1.8	9.8
30	3	1				13	170	14	1.4	8.8	12	12
31	6	1				16	-	21	-	5.6	6.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	91	9	1	2.9	180
November	36	3	1	1.2	71
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 24-31	154	30	13	19.2	305
April	7,651	491	10	255	15,180
May	2,021	146	14	65.2	4,010
June	154.2	16	.2	5.14	306
July	198.7	30	.1	6.41	394
August	474.6	135	.6	15.3	941
September	91.7	12	1.0	3.06	182
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. Prior to Apr. 23, 1936, at site 200 feet up stream.

Drainage area.- 348 square miles.

Records available.- October 1933 to September 1936 in reports of U. S. Geological Survey; April 1923 to September 1936 in reports of State engineer.

Average discharge.- 13 years, 92.6 second-feet.

Extremes.- Maximum discharge during year, 1,260 second-feet Apr. 23 (gage height, 5.61 feet); minimum daily discharge, 0.1 second-foot July 25, 26.
1923-36: Maximum discharge, 1,890 second-feet May 5, 1924; no flow for periods nearly every year.

Remarks.- Records excellent except those for period of ice effect, Oct. 29 to Apr. 22, computed on basis of seven discharge measurements and weather records, and those for May 16-21, 28, June 2-4, computed on basis of combined records for San Antonio and Los Pinos Rivers near Ortiz, which are fair. Diversions for irrigation above station.

Rating table, Apr. 23 to Sept. 30, 1936 (gage height, in feet, and discharge in second-feet)

0.4	0.2	2.0	136
.6	3.0	2.5	242
.8	11	3.0	370
1.0	22	3.5	520
1.2	38	4.0	690
1.4	55	4.5	865
1.6	77	5.0	1,040
1.8	102	5.5	1,220

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8							652	162	2.6	0.4	9.4
2	9							613	145	2.6	.3	7.8
3	8						30	728	125	1.5	.4	5.8
4	8							806	110	1.0	.4	5.0
5	7							876	98	.7	13	2.8
6	7							784	90	.6	36	1.2
7	6							596	70	.5	24	1.0
8	6	*6		*3			40	532	51	.6	36	.7
9	6							463	33	.8	31	.7
10	6					10		326	28	.8	19	.5
11	6							295	31	.7	14	.6
12	6							332	29	.8	14	.8
13	6						300	362	31	.7	18	.7
14	5							394	24	.7	11	.6
15	5							385	16	.7	11	.5
16	5			*3				390	13	.7	8.2	.4
17	5		*4					400	9.8	.6	5.8	.4
18	6				*15		750	380	5.0	.5	3.4	.4
19	6							360	2.1	.4	3.0	.5
20	6							330	1.7	.4	9.0	.4
21	6						1,000	300	1.2	.4	93	.4
22	9						1,050	283	.8	.7	33	.6
23	11					20	1,180	256	.8	.4	15	.6
24	15						1,080	229	1.2	.2	10	.5
25	14						1,070	211	1.5	.1	7.8	.4
26	14						1,080	170	3.0	.1	5.0	1.2
27	15	*6					946	150	3.0	.3	3.0	2.3
28	15					30	949	120	2.3	.4	2.6	5.0
29	14						900	102	1.9	.4	3.0	14
30	10						708	113	2.3	.4	3.4	16
31	8						-	189	-	.4	9.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	258	15	5	8.3	512
November	180	-	-	6	357
December	140	-	-	4.5	278
Calendar year 1935	39,691.2	1,110	.2	109	78,730
January	93	-	-	3	184
February	290	-	-	10	575
March	480	-	-	15.5	952
April	15,563	1,180	-	519	30,870
May	12,127	876	102	391	24,050
June	1,092.6	162	.8	36.4	2,170
July	21.7	2.6	.1	.70	43
August	443.5	93	.3	14.3	880
September	81.2	16	.4	2.71	161
Water year 1935-36	30,770.0	1,180	.1	84.1	61,030

*Discharge measurement.

Los Pinos River near Ortiz, Colo.

Location.- Water-stage recorder, lat. 36°58', long. 106°3', in sec. 34, T. 32 N., R. 8 E., 3 miles southwest of Ortiz.

Drainage area.- 167 square miles.

Records available.- October 1933 to September 1936 in reports of U. S. Geological Survey; January 1914 to November 1920, October 1924 to September 1936 in reports of State engineer.

Extremes.- Maximum discharge during year, 1,640 second-feet Apr. 21 (gage height, 4.63 feet); minimum daily discharge recorded, 14 second-feet Nov. 5-7, probably less during period of no record.

1914-20, 1924-36: Maximum discharge, 2,300 second-feet May 21, 1920 (gage height, 6.10 feet); minimum daily discharge, 5 second-feet Aug. 11, Sept. 19, 1934.

Remarks.- Records good except those for period of ice effect Oct. 25 to Nov. 7, which were computed on basis of gage heights and weather records and are fair. No records Nov. 6 to Mar. 23. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	15				-	70	786	272	51	29	42
2	29	15				-	34	863	244	44	31	37
3	26	15				-	35	924	225	38	28	38
4	24	15				-	25	1,020	207	36	60	63
5	24	14				-	30	1,030	193	32	140	45
6	22	14				-	26	814	188	30	73	35
7	23	14				-	25	590	186	28	92	31
8	23	-				-	35	434	176	30	78	28
9	23	-				-	66	365	171	36	57	26
10	22	-				-	94	339	171	71	39	26
11	22	-				-	178	380	171	87	33	34
12	19	-				-	260	472	161	82	48	34
13	19	-				-	376	542	164	51	32	26
14	18	-				-	547	556	155	38	27	25
15	18	-				-	836	538	149	37	34	22
16	18	-				-	1,020	630	149	35	27	22
17	18	-				-	1,060	610	134	37	28	22
18	16	-				-	952	552	122	32	28	26
19	19	-				-	885	538	109	28	34	26
20	26	-				-	1,040	489	103	26	112	24
21	30	-				-	1,230	455	94	28	75	22
22	24	-				-	1,300	418	87	38	52	29
23	24	-				-	1,200	418	83	26	36	46
24	22	-				35	1,070	380	83	22	31	28
25	20	-				34	1,150	355	82	21	27	24
26	20	-				35	1,070	323	75	20	26	25
27	20	-				35	1,010	308	68	24	24	49
28	20	-				26	1,070	302	63	30	24	44
29	20	-				26	885	290	58	28	33	38
30	20	-				25	731	302	55	32	66	52
31	20	-				30	-	326	-	26	55	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	683	32	18	22.0	1,350
November 1-7	102	15	14	14.6	202
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 24-31	246	35	25	30.8	488
April	18,310	1,300	25	610	36,320
May	16,349	1,030	290	527	32,430
June	4,218	272	55	141	8,370
July	1,144	87	20	36.9	2,270
August	1,479	140	24	47.7	2,930
September	989	63	22	33.0	1,960
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 1936 in reports of U. S. Geological Survey; May 1909 to December 1910, April 1927 to September 1936 in reports of State engineer; unpublished records 1911-19 in office of State engineer.

Average discharge.-19 years (1909-19, 1927-36), 65.1 second-feet.

Extremes.- Maximum discharge during year, 236 second-feet June 3 (gage height, 2.73 feet); minimum daily discharge, 6.2 second-feet July 26.
1909-19, 1927-36: Maximum daily discharge, 470 second-feet June 26, 1915; minimum daily discharge, 5 second-feet Sept. 14-16, 1934.

Remarks.- Records good. Diversions for irrigation above station. Flow regulated by Sanchez Reservoir (capacity, 103,100 acre-feet).

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	37	30	30	26	28	26	39	199	171	39	45
2	26	36	30	29	16	27	25	37	219	156	46	45
3	23	32	29	28	25	27	26	15	235	88	55	45
4	25	39	29	28	20	28	23	38	223	8.9	42	34
5	26	36	30	28	28	28	16	40	224	7.6	50	27
6	16	45	30	27	26	28	16	42	219	50	60	14
7	26	50	30	28	25	27	16	62	193	148	79	22
8	31	45	29	28	20	17	16	44	163	147	46	23
9	34	39	29	23	11	26	17	34	201	144	46	37
10	31	38	28	27	10	26	16	23	223	161	50	43
11	32	36	30	26	16	27	16	37	212	150	49	44
12	30	30	30	16	27	27	16	39	200	97	40	34
13	26	33	30	17	26	26	23	43	188	91	54	18
14	27	35	30	26	26	24	29	43	170	115	103	32
15	29	30	27	27	25	18	29	45	212	125	93	23
16	30	30	27	27	14	25	28	47	215	116	26	24
17	26	36	27	26	25	25	28	45	211	101	75	24
18	29	32	28	26	28	27	28	49	196	83	67	25
19	30	31	27	13	28	26	15	57	211	79	74	26
20	32	32	30	20	17	25	25	57	194	115	73	16
21	41	31	28	28	15	26	29	56	178	134	51	24
22	49	32	27	28	16	27	29	63	24	123	18	27
23	44	32	27	28	17	26	29	68	12	118	13	27
24	45	19	25	28	17	25	29	73	195	84	11	36
25	44	30	15	29	17	27	26	86	222	104	21	36
26	42	32	27	17	15	25	15	136	207	6.2	37	36
27	39	32	28	28	13	25	28	172	217	9.7	31	23
28	35	29	30	30	16	28	28	188	190	44	50	33
29	36	29	26	30	24	28	29	194	178	39	56	36
30	35	30	28	28	-	28	40	182	179	46	34	32
31	35	-	29	29	-	28	-	163	-	44	49	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,001	49	16	32.3	1,990
November	1,018	50	19	33.9	2,020
December	870	30	15	28.1	1,730
Calendar year 1935	18,043	222	7	49.4	35,800
January	803	30	13	25.9	1,590
February	589	28	10	20.3	1,170
March	805	28	17	26.0	1,600
April	716	40	15	23.9	1,420
May	2,217	194	15	71.5	4,400
June	5,730	235	12	191	11,370
July	2,905.4	171	6.2	93.7	5,760
August	1,538	103	11	49.6	3,050
September	911	45	14	30.4	1,810
Water year 1935-36	19,103.4	235	6.2	52.2	37,910

Culebra Creek at mouth, near San Acacio, Colo.

Location.- Water-stage recorder, lat. 37°12', long. 105°43', in sec. 36, T. 3 N., R. 75 W. (Beaubien Grant Survey), 600 feet above mouth and 9 miles southwest of San Acacio.

Records available.- May to November 1936 (discontinued).

Extremes.- Maximum discharge, by slope-area method, 188 second-feet Aug. 20 (gage height, 2.26 feet); no flow except 8 days during period.

Remarks.- Records fair. Practically all the flow used for irrigation above station. Daily discharge computed from rating curve based on two slope-area determinations.

Discharge, in second-feet, May to November 1936

Day						May	June	July	Aug.	Sept.	Oct.	Nov.
1								0	0			
2								0	0			
3								0	1.9			
4								0	1.5			
5								0	14			
6								0	4.6			
7								0	0			
8								0	0			
9								0	0			
10								0	0			
11								0	0			
12								0	0			
13								0	0			
14								0	0			
15								0	0			
16								0	0			
17								0	0			
18								0	0			
19								0	0			
20								0	19			
21								0	7.6			
22								0	0			
23								0	0			
24								0	0			
25								0	0			
26								0	0			
27								0	0			
28								2.1	0			
29								0	0			
30								0	0			
31								2.7	0			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
May 12-31	0	0	0	0	0
June	0	0	0	0	0
July	4.8	2.7	0	.16	9.5
August	48.6	19	0	1.57	96
September	0	0	0	0	0
October	0	0	0	0	0
November	0	0	0	0	0
The period					106

Costilla Creek near mouth, near Jaroso, Colo.

Location.- Water-stage recorder, lat. 37°0', long. 105°41', in sec. 32, T. 1 N., R. 74 W. (Beaubien Grant Survey), 2 miles above mouth and 6 miles southwest of Jaroso. 1912-13 staff gage 1 mile downstream, in New Mexico.

Records available.- May to November 1936 (discontinued). April 1912 to September 1913 at site 1 mile downstream in New Mexico.

Extremes.- 1912-13, 1936: Maximum daily discharge, 344 second-feet May 23, 24, June 7, 1912; no flow May 1 to Sept. 30, 1913, May 13 to Nov. 30, 1936.

Remarks.- No flow May 13 to Nov. 30, 1936. Flow controlled by Costilla Reservoir, constructed in 1920 (capacity, 8,000 acre-feet). Also several diversions for irrigation.

Costilla Creek near Costilla, N. Mex.

Location.- Water-stage recorder, lat. 36°58', long. 105°32', in Sangre de Cristo Grant, about half a mile above diversion dam and 2 miles south of Costilla, Taos County.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 234 second-feet between July 6 and 9 during period of no record (gage height, 2.58 feet), from rating curve extended above 140 second-feet; minimum daily discharge, 14 second-feet Mar. 8.

Remarks.- Records excellent except those computed for May 28, 29, June 9-12, 14, 20, 21, 25, July 6, 9, 10, 17-19, 22, 24-26, 30, Sept. 3, which are fair, and those for June 15-19, 22-24, July 7, 8, 11-16, 20, 21, 27-29, which were computed on basis of gate operations at storage reservoir of the Costilla Land & Development Co. about 23 miles upstream and are poor.

Rating table, water year 1935-36 (gage height, in feet, and discharge, in second-feet)

0.9	11.4	1.5	47.3	2.1	123
1.0	15.9	1.6	56	2.2	142
1.1	20.9	1.7	66	2.3	163
1.2	26.5	1.8	76	2.4	186
1.3	32.7	1.9	91	2.5	212
1.4	39.6	2.0	106	2.6	240

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	15	68	59	93	41	28
2						-	16	82	60	93	40	24
3						-	19	66	73	89	61	32
4						-	17	88	76	38	52	40
5						-	17	92	74	37	53	35
6						-	16	90	51	95	50	33
7						18	16	94	53	90	47	30
8						14	25	70	76		49	50
9						17	35	65	90	92	46	63
10						18	29	58	100	90	40	66
11						16	38	59	110	40	38	76
12						18	50	68	100		50	47
13						18	55	77	56		48	35
14						20	54	84	55		61	67
15						23	51	98		70	42	62
16						21	49	114	80		38	56
17						21	54	108		70	64	56
18						21	58	103		40	68	48
19						23	58	96		40	94	32
20						20	56	90	60	80	97	29
21						24	53	84	60		84	41
22						28	56	78		80	41	43
23						24	60	77	90	85	37	43
24						27	60	72		80	73	41
25						31	60	66	110	30	68	39
26						32	59	102	106	30	92	25
27						25	57	118	54		90	27
28						18	54	101	52	75	91	30
29						19	54	91	95		44	30
30						20	67	84	96	95	46	30
31						22	-	71	-	67	39	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 7-31	538	32	14	21.5	1,070
April	1,308	67	15	43.6	2,590
May	2,654	118	58	85.6	5,260
June	2,336	110	51	77.9	4,630
July	2,169	95	30	70.0	4,300
August	1,784	97	37	57.5	3,540
September	1,258	76	24	41.9	2,500
The period					23,690

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., 1¾ 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 1936 in reports of U. S. Geological Survey; October 1912 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge water year 1934-35, 870 second-feet June 14 (gage-height, 3.14 feet); minimum daily discharge, 8.8 second-feet Dec. 3.
Maximum discharge water year 1935-36, 200 second-feet May 17 (gage height, 2.61 feet); minimum daily discharge, 14 second-feet Feb. 16-18.
1930-36: Maximum discharge, 870 second-feet June 14, 1935; minimum daily discharge, 6.3 second-feet Nov. 24, 25, 1931.

Remarks.- Records good except those for Oct. 1-5, 8-10, 1934, Jan. 6-21, Jan. 24 to Feb. 28, Mar. 2-21, Mar. 23 to Apr. 10, Apr. 13-30, 1935 (computed on basis of weather records, and records for Rio Lucero near Arroyo Seco and Rio Hondo near Valdez), 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	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	35
10	24	17	15	18	18	16	24	66	637	89	54	35
11	24	17	15	18	17	16	24	84	655	84	55	33
12	24	17	15	20	17	16	26	88	691	84	55	32
13	23	17	15	19	18	17	30	88	745	82	54	30
14	22	16	16	18	18	17	38	91	570	78	51	30
15	22	15	16	20	17	18	50	88	352	78	46	29
16	20	15	16	19	13	15	60	86	278	70	45	29
17	20	17	16	18	14	17	60	106	278	70	43	28
18	20	17	15	18	17	17	55	122	256	72	42	30
19	19	17	12	15	20	18	50	115	246	68	42	29
20	19	16	14	12	22	16	45	110	246	64	41	29
21	19	17	16	10	21	15	45	104	250	68	41	28
22	19	13	18	16	21	16	45	106	254	67	39	28
23	19	12	17	16	20	16	40	127	238	59	40	28
24	19	15	16	17	18	17	40	157	226	55	39	29
25	19	15	16	18	16	16	35	200	206	52	36	33
26	20	13	15	19	12	16	40	218	189	54	38	46
27	20	13	15	20	15	17	40	222	175	52	43	47
28	19	13	16	20	16	16	45	206	172	52	43	42
29	19	10	16	21	-	18	45	203	163	54	42	40
30	18	10	16	20	-	20	50	214	151	54	43	36
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	76	6.6	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	1,050
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	1,043	47	28	34.6	2,070
Water year 1934-35	22,399.3	745	8.8	61.4	44,429

Note.- Records in the above table supersede those published in Water-Supply Paper 788.

Rio Colorado near Questa, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	24	20	21	18	19	23	130	132	47	34	37
2	35	24	19	21	18	17	18	132	122	46	35	34
3	35	24	18	20	18	16	23	138	117	44	41	35
4	35	22	18	21	16	16	25	141	109	43	73	35
5	33	19	19	20	16	16	24	144	107	42	73	32
6	33	20	19	20	16	16	22	147	102	43	73	31
7	34	21	17	20	17	16	22	138	100	42	61	30
8	34	20	17	21	17	16	26	107	100	46	57	30
9	33	21	17	21	16	16	31	119	100	48	48	29
10	32	21	17	21	16	16	35	112	95	44	43	28
11	31	20	18	21	16	16	54	112	98	47	42	30
12	31	20	18	20	15	16	57	117	102	50	39	31
13	31	18	20	20	15	17	65	135	104	41	37	29
14	31	19	18	20	15	17	76	147	93	38	36	29
15	29	18	16	20	15	17	75	165	84	37	36	25
16	29	18	16	20	14	17	76	179	82	36	35	22
17	29	19	17	20	14	17	78	176	75	35	35	22
18	29	21	17	20	14	17	80	172	71	34	38	24
19	29	19	17	20	15	16	76	176	65	33	37	37
20	39	18	18	20	16	18	78	165	64	33	38	36
21	32	19	18	20	16	19	71	165	61	34	42	33
22	28	18	18	20	16	22	78	176	59	35	37	36
23	28	19	19	20	16	19	98	162	61	33	34	34
24	28	19	20	20	16	16	107	162	62	32	34	33
25	24	20	19	21	18	22	122	156	59	30	32	32
26	26	20	19	20	22	17	127	147	57	30	31	32
27	27	18	19	20	22	17	127	141	56	31	31	36
28	26	16	19	19	23	22	127	138	53	36	31	37
29	26	19	20	19	21	24	132	138	51	35	34	37
30	25	20	21	18	-	24	132	144	50	33	43	38
31	23	-	20	17	-	26	-	138	-	36	41	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	941	36	23	30.4	1,870
November	594	24	16	19.8	1,180
December	568	21	16	18.3	1,130
Calendar year 1935	22,943	745	10	62.9	45,520
January	621	21	17	20.0	1,230
February	487	23	14	16.8	966
March	560	26	16	18.1	1,110
April	2,085	132	18	69.5	4,140
May	4,519	179	107	146	8,960
June	2,491	132	50	83.0	4,940
July	1,194	50	30	38.5	2,370
August	1,301	73	31	42.0	2,580
September	954	38	22	31.8	1,890
Water year 1935-36	16,315	179	14	44.6	32,370

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 available.- August 1934 to September 1936. October 1930 to September 1934 at site half a mile downstream, below two diversion ditches.

Extremes.- Maximum discharge during year, 144 second-feet May 15; maximum gage-height, 3.49 feet Dec. 21 (during ice jam); minimum daily discharge, 9 second-feet (computed) Dec. 18, Jan. 18-20, Feb. 4-6.

1934-36: Maximum discharge, 276 second-feet June 16, 1935; maximum gage-height, 5.18 feet (ice-effect) Jan 4; minimum daily discharge, 3.0 second-feet (estimated) Jan. 21, 1935.

Remarks.- Records good. Discharge for periods of ice effect, Nov. 28, 29, Dec. 10-12, 15-21, Jan. 2, 4, 9, 10, 13, 14, 18-24, 31 Feb. 4-7, computed on basis of records for Arroyo Hondo, Rio Colorado near Questa, and Rio Taos at Los Cordovas. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	17	15	11	11	11	19	87	89	31	23	28
2	23	18	12	11	11	12	22	92	84	31	24	26
3	23	18	14	12	10	12	18	96	79	28	30	27
4	23	17	14	12	9	13	17	108	77	28	53	26
5	22	13	14	12	9	14	17	112	77	27	46	24
6	22	16	14	12	9	14	17	110	75	27	44	23
7	23	16	14	11	10	14	18	108	75	31	39	23
8	23	16	12	12	10	14	19	99	74	32	36	22
9	23	17	11	12	11	16	22	89	74	30	34	22
10	22	17	11	11	11	17	26	89	72	28	34	22
11	22	16	12	11	10	17	33	91	73	36	36	23
12	22	16	13	11	9.8	18	47	95	73	34	37	23
13	22	16	14	10	10	18	56	100	68	30	36	23
14	22	16	13	10	10	19	63	112	65	28	35	23
15	21	16	12	10	10	19	60	126	63	27	33	21
16	21	16	11	10	10	18	57	134	62	27	33	21
17	21	16	10	10	10	19	60	135	59	27	28	21
18	21	16	9	9	10	18	66	132	56	26	31	22
19	21	15	10	9	9.8	18	68	132	54	26	30	24
20	25	13	11	9	9.4	19	66	127	49	26	33	21
21	22	14	10	10	9.4	19	60	126	48	28	32	20
22	21	14	9.8	10	9.8	20	63	121	46	26	28	20
23	21	14	14	10	9.8	18	66	116	42	24	28	20
24	21	14	15	10	9.8	21	68	109	40	23	26	18
25	20	14	14	11	9.8	18	73	112	39	22	24	18
26	20	14	14	11	11	17	77	110	37	21	23	20
27	20	13	14	10	11	25	79	108	36	23	24	20
28	19	11	12	11	12	17	80	105	34	23	24	21
29	19	12	12	11	11	16	80	103	34	21	25	21
30	18	12	11	12	-	18	84	99	33	21	35	21
31	17	-	11	10	-	20	-	93	-	21	30	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	664	25	17	21.4	1,320
November	453	18	11	15.1	899
December	382.8	15	9	12.3	759
Calendar year 1935	13,815.3	201	3.0	37.9	27,400
January	331	12	9	10.7	657
February	293.6	12	9.4	10.1	582
March	529	25	11	17.1	1,050
April	1,501	84	17	50.0	2,980
May	3,376	135	87	109	6,700
June	1,787	89	33	59.6	3,540
July	833	36	21	26.9	1,650
August	994	53	23	32.1	1,970
September	664	28	18	22.1	1,320
Water year 1935-36	11,808.4	135	9	32.3	23,430

Rio Hondo at Arroyo Hondo, N. Mex.

Location.- Water-stage recorder, lat. 36°31'50", long. 105°41'45", in T. 27 N., R. 12 E., on Arroyo Hondo Grant, half a mile above confluence with Rio Grande and 1.5 miles West of Arroyo Hondo, Taos County.

Records available.- January 1932 to September 1936 in reports of U. S. Geological Survey. Comparable records 200 yards above confluence with Rio Grande April 1910 to August 1915 (previously published "near Arroyo Hondo") in reports of U. S. Geological Survey; April 1910 to December 1928 in reports of State engineer.

Extremes.- Maximum discharge water year 1934-35, about 765 second-feet Aug. 23 (gage height, 5.45 feet); minimum daily discharge, 6.2 second-feet Apr. 13.

Maximum discharge during water year 1935-36, about 540 second-feet Aug. 20 (gage height, 4.7 feet); minimum daily discharge, 5.9 second-feet July 5, 6.

1932-36: Maximum discharge recorded, about 1,800 second-feet Sept. 1, 1932, and July 22, 1934; maximum stage, that of Aug. 23, 1935; minimum daily discharge, 4 second-feet July 13-16, 1934.

Remarks.- Records fair. Discharge for periods of ice effect, Nov. 27 to Dec. 9, Dec. 18-20, Dec. 30, 1934 to Jan. 5, Jan. 18-26, Feb. 14-16, 26, 27, 1935, Jan. 19, 20, Feb. 4-6, 1936, computed on basis of records for stations at Valdez, Rio Colorado near Questa, and Rio Taos at Los Cordovas and 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	16	8.6	10	14	18	14	22	9.2	122	80	10	22
2	16	8.4	9	13	18	15	22	9.2	100	70	14	21
3	16	8.4	9	15	18	15	27	10	102	60	13	22
4	16	9.6	9	14	18	14	23	10	104	50	19	24
5	16	10	10	18	18	14	18	11	106	49	22	24
6	14	8.0	13	18	17	14	16	10	122	41	17	22
7	12	8.0	14	18	17	14	10	9.6	152	37	17	22
8	11	8.8	15	17	17	14	11	9.6	145	36	15	23
9	10	9.2	16	16	16	12	11	24	144	43	12	21
10	11	9.6	16	17	15	12	8.0	26	138	28	12	20
11	11	11	18	18	14	12	7.1	34	133	22	12	16
12	12	12	18	18	14	11	6.5	42	131	20	12	16
13	11	13	18	17	14	8.8	6.2	45	133	19	12	16
14	11	12	19	18	14	8.8	8.4	47	148	21	12	16
15	10	11	20	22	13	9.6	16	28	152	19	10	16
16	11	11	20	19	11	13	19	38	175	16	11	16
17	11	12	19	14	14	16	25	49	162	14	11	16
18	11	11	17	14	16	14	28	66	149	12	12	16
19	11	12	15	14	17	16	29	72	152	11	11	16
20	11	12	18	12	17	15	29	89	146	11	12	14
21	11	12	21	10	17	15	24	74	144	24	11	13
22	11	13	22	11	18	16	21	83	152	23	11	12
23	11	12	21	12	18	16	16	121	176	15	54	12
24	10	11	20	14	18	16	14	124	144	11	19	13
25	10	12	19	14	18	15	15	140	114	11	16	15
26	10	12	19	15	12	16	11	146	110	12	16	17
27	9.2	12	19	16	14	16	9.6	141	103	13	21	26
28	9.2	11	21	17	16	16	10	135	93	11	39	21
29	10	10	20	19	-	18	9.6	127	86	10	22	20
30	12	10	19	19	-	22	10	127	86	10	27	19
31	11	-	16	18	-	26	-	153	-	11	22	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	362.4	16	9.2	11.7	719
November	320.8	13	8.0	10.7	636
December	520	22	9	16.8	1,030
Calendar year 1934	4,956.2	390	4	13.6	9,830
January	491	22	10	15.8	974
February	447	18	11	16.0	887
March	454.2	26	8.8	14.7	901
April	482.4	29	6.2	16.1	957
May	2,009.6	153	9.2	64.8	3,990
June	3,924	176	86	131	7,780
July	810	80	10	26.1	1,610
August	524	54	10	16.9	1,040
September	547	26	12	18.2	1,080
Water year 1934-35	10,892.4	176	6.2	29.8	21,600

Rio Hondo at Arroyo Hondo, N. Mex.

(Continued)

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	14	22	17	18	16	19	54	68	6.8	11	12
2	19	14	22	16	17	17	19	52	63	6.8	10	12
3	19	14	22	18	16	18	17	58	55	6.2	18	12
4	19	13	22	18	14	18	13	65	50	6.2	42	11
5	18	12	24	19	13	19	12	71	43	5.9	45	9.6
6	38	14	24	19	15	18	14	83	36	5.9	38	10
7	30	14	22	19	18	16	11	83	32	6.2	35	9.6
8	26	14	22	19	16	16	12	86	26	6.8	34	9.6
9	25	15	20	19	16	16	14	81	22	6.2	27	9.6
10	23	14	20	19	15	18	18	73	19	6.5	24	8.4
11	23	14	21	18	16	17	24	71	19	11	24	8.4
12	20	14	22	18	16	16	39	83	17	18	23	9.2
13	18	12	22	19	15	18	49	88	14	7.1	22	9.2
14	17	13	21	19	16	18	58	96	12	7.4	21	9.6
15	18	14	17	19	15	19	59	109	10	8.0	19	9.6
16	18	14	16	18	16	18	57	114	10	8.0	16	9.6
17	18	14	16	18	16	18	58	119	9.6	7.1	14	9.2
18	18	15	17	18	16	18	59	114	9.2	6.2	15	9.6
19	18	14	18	18	15	17	55	113	7.4	6.8	14	11
20	22	14	20	18	15	17	50	106	7.4	7.1	51	10
21	19	15	22	19	15	18	46	98	7.1	7.7	32	10
22	18	14	20	19	16	20	53	88	7.1	7.1	25	11
23	18	15	20	20	16	20	69	86	6.8	6.8	20	11
24	18	15	20	20	16	20	66	83	8.8	6.8	19	11
25	16	16	20	20	16	22	66	82	9.6	6.8	18	11
26	16	19	20	19	14	21	64	82	6.8	6.8	18	15
27	16	16	20	19	14	20	62	78	6.2	6.8	16	15
28	16	16	20	19	15	20	63	73	6.2	7.1	15	15
29	16	21	19	18	16	20	58	68	6.2	7.4	17	16
30	15	22	19	16	-	20	55	75	6.5	7.4	16	16
31	15	-	18	17	-	19	-	71	-	8.4	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	609	38	15	19.6	1,210
November	445	22	12	14.8	883
December	628	24	16	20.3	1,250
Calendar year 1935	11,371.2	176	6.2	31.2	22,560
January	572	20	16	18.5	1,130
February	452	18	13	15.6	897
March	568	22	16	18.3	1,130
April	1,259	69	11	42.0	2,500
May	2,608	119	52	84.1	5,170
June	600.9	68	6.2	20.0	1,190
July	229.0	18	5.9	7.39	454
August	713	51	10	23.0	1,410
September	330.2	16	8.4	11.0	655
Water year 1935-36	9,014.1	119	5.9	24.6	17,880

Rio Taos at Los Cordovas, N. Mex.

Location.- Water-stage recorder, lat. 36°23', long. 105°39', in N½ sec. 23, T. 25 N., R. 12 E., 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.

Drainage area.- 359 square miles (revised).

Records available.- April 1910 to August 1915, October 1930 to September 1936 in reports of U. S. Geological Survey; April 1910 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 362 second-feet May 9 (gage height, 3.49 feet); minimum daily discharge, 3.0 second-feet June 20, 22, 23.
1930-36: Maximum discharge, 725 second-feet Sept. 24, 1931 (gage height, 4.65 feet, former datum); minimum daily discharge, 1.4 second-feet Aug. 7, 10, 1934.

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

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	24	28	25	32	29	43	107	75	7.2	4.5	19
2	21	25	28	23	36	30	38	109	65	8.0	53	17
3	20	25	28	23	32	30	43	114	54	6.9	41	18
4	20	25	29	20	26	33	42	119	41	6.6	36	18
5	20	22	33	25	25	33	38	122	30	5.8	25	17
6	20	22	33	25	29	34	42	140	27	6.2	26	15
7	21	25	30	26	34	35	39	153	23	5.0	19	14
8	20	26	29	25	34	35	39	200	19	5.2	15	14
9	19	28	27	25	30	35	42	275	9.4	6.9	15	13
10	18	28	26	27	32	37	43	210	8.6	7.6	13	11
11	17	26	27	26	32	36	49	167	9.9	10	13	11
12	16	25	28	26	36	36	68	173	8.3	10	12	11
13	16	26	30	24	34	39	94	173	7.6	8.0	10	12
14	18	27	28	26	32	42	110	173	6.2	7.6	11	13
15	19	26	24	29	32	43	114	200	6.2	9.0	11	11
16	18	25	23	30	32	42	102	212	5.2	8.6	11	11
17	18	26	24	30	33	43	121	230	4.5	8.0	11	10
18	18	27	24	29	31	42	133	225	4.0	7.6	11	11
19	21	26	24	27	30	42	137	215	3.2	5.8	10	15
20	43	24	26	25	32	39	128	196	3.0	5.8	36	12
21	28	24	25	28	30	43	126	177	3.2	7.2	26	12
22	26	27	24	29	30	50	99	159	3.0	8.0	18	12
23	25	31	24	32	28	48	114	142	3.0	5.5	16	12
24	26	31	23	32	31	44	124	129	4.0	5.0	16	12
25	29	34	24	33	27	47	135	112	4.0	4.8	15	12
26	30	38	24	33	26	41	146	102	3.2	4.8	14	14
27	29	33	26	33	27	37	131	93	3.5	5.2	13	22
28	29	26	27	32	29	39	124	76	3.8	5.8	12	26
29	28	26	25	32	30	39	117	68	3.8	5.5	14	23
30	26	26	25	28	-	39	112	76	5.8	5.0	25	21
31	24	-	26	29	-	43	-	88	-	5.0	20	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	703	43	16	22.7	1,390
November	804	38	22	26.8	1,590
December	822	33	23	26.5	1,630
Calendar year 1935	20,537.7	505	4.2	56.3	40,720
January	857	33	20	27.6	1,700
February	892	36	25	30.8	1,770
March	1,205	50	29	38.9	2,390
April	2,693	146	38	89.8	5,340
May	4,735	275	68	153	9,390
June	447.4	75	3.0	14.9	887
July	207.6	10	4.8	6.70	412
August	572.5	53	4.5	18.5	1,140
September	439	26	10	14.6	871
Water year 1935-36	14,377.5	275	3.0	39.3	28,510

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Rio Pueblo de Taos at Taos, N. Mex.

Location.- Water-stage recorder, lat. 36°25', long. 105°34', in NE¼ sec. 8, T. 25 N., R. 13 E., 50 feet below highway bridge, half a mile above confluence with Rio Lucero, and three-quarters of a mile northwest of Taos.

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, 7.4 second-feet June 11 (gage height, 0.91 foot); minimum daily discharge, 0.5 second-foot June 28.
Result of discharge measurement, 72 second-feet May 21 (gage height, 1.64 feet).

Remarks.- Records good. Diversions for irrigation above and below station. The discharge of North Channel of Rio Pueblo de Taos, which divides from Rio Pueblo de Taos about 1 mile above this station, is not included in these records.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	1.5	0.8	1.2
2									-	1.4	.8	1.2
3									-	1.4	1.0	1.1
4									-	1.3	1.6	1.1
5									-	1.3	1.9	1.0
6									-	1.0	2.5	1.1
7									-	1.0	1.8	1.1
8									-	1.2	1.8	1.1
9									-	1.3	1.7	1.0
10									6.4	1.2	1.7	.7
11									6.7	1.4	1.5	.6
12									6.7	1.5	1.3	.8
13									6.4	1.0	1.3	.9
14									5.8	1.7	1.1	.8
15									4.5	1.7	1.1	.8
16									3.9	1.7	1.1	.8
17									2.6	1.6	.8	1.0
18									2.1	1.5	.8	1.2
19									1.8	1.5	.7	1.4
20									1.8	1.5	.9	1.4
21									1.5	1.5	1.8	1.4
22									1.4	1.7	1.4	1.5
23									1.2	1.6	1.3	1.3
24									1.2	1.5	1.2	1.3
25									1.1	1.5	1.1	1.3
26									1.2	1.5	1.1	1.5
27									.6	1.5	.9	1.6
28									.5	1.4	.9	1.7
29									1.4	1.2	1.1	1.7
30									1.5	1.1	1.2	1.7
31									-	1.1	1.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 10-30	60.3	6.7	0.5	2.87	120
July	43.3	1.7	1.0	1.40	86
August	39.4	2.5	.7	1.27	78
September	35.3	1.7	.6	1.18	70
The period					354

North Channel of Rio Pueblo de Taos at Taos, N. Mex.

Location.- Staff gage lat. 36°25', long. 105°34', in SE¼ sec. 5, T. 25 N., R. 13 E., at highway bridge 0.1 mile above confluence with Rio Lucero, 1 mile below division from Rio Pueblo de Taos, and 1 mile northwest of Taos, N. Mex.

Records available.- July to September 1936.

Extremes.- Maximum discharge during period, 1.4 second-feet Aug. 5 (gage height, 0.33 foot); minimum daily discharge, 0.2 second-foot at times.
Result of discharge measurement, 5.6 second-feet May 21 (gage height, 0.58 foot).

Remarks.- Records good. Gage read twice daily. Discharge includes flow from Rio Pueblo de Taos plus seepage inflow less small irrigation diversions.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										-	0.2	0.3
2										*0.4	.3	.3
3										-	.3	.3
4										-	.9	.4
5										-	1.3	.4
6										-	1.5	.4
7										-	1.5	.3
8										-	1.4	.4
9										-	1.3	.4
10									*0.4	-	.4	.3
11										-	.3	.3
12										-	.3	.3
13										-	.3	.3
14										-	.3	.3
15										.3	.3	.3
16										.4	.3	.3
17										.3	.3	.3
18										.3	.3	.3
19										.2	.3	.3
20										.2	.6	.3
21								*5.6		.3	1.0	.2
22										.3	1.0	.3
23										.3	.9	.3
24										.3	.6	.3
25										.3	.3	.3
26										.3	.3	.3
27										.4	.3	.4
28										.3	.3	.4
29										.3	.3	.4
30										.3	.4	.4
31										.2	.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June					
July 15-31	5.0	0.4	0.2	0.29	10
August	18.1	1.5	.2	.58	36
September	9.8	.4	.2	.33	19
Water year					

*Discharge measurement.

Rio Lucero near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, lat. 36°30', long. 105°32', in Antoine Leroux Grant, in sec. 10, 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 7½ miles northeast of Taos.

Records available.- April 1910 to December 1915 (published as Rio Lucero near Taos, N. Mex.), November 1933 to September 1936 in reports of U. S. Geological Survey; January 1911 to December 1915 in reports of State engineer.

Extremes.- Maximum discharge during year, 97 second-feet May 5 (gage height, 1.87 feet); minimum daily discharge not determined.
1933-36: Maximum discharge, 144 second-feet June 16, 1935; maximum gage height, 2.09 feet June 10, 1935; minimum daily discharge not determined.

Remarks.- Records good except those for Oct. 11-18, Oct. 21 to Nov. 4, estimated on basis of records for Rio Colorado near Questa, and those for period of ice effect, Nov. 28 to Mar. 4, estimated on basis of records for Rio Colorado near Questa, temperature records, and results of four discharge measurements, all of which are poor.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15						9.8	61	64	17	12	16
2	14	11	7.5			7.0	11	64	59	16	11	15
3	14						9.1	74	51	15	16	16
4	14						8.3	84	47	15	27	15
5	13	11	*7.0			8.1	7.9	90	44	14	25	14
6	13	8.9				7.6	9.4	87	43	14	27	14
7	14	8.6				7.3	7.9	76	41	18	24	13
8	12	8.3				7.3	9.1	61	41	20	23	13
9	12	8.3				8.9	11	49	40	18	22	13
10	12	8.3		6.0	5.5	11	15	43	40	16	22	13
11		8.1				11	23	44	40	22	20	14
12		8.1				11	38	50	40	21	18	14
13		8.1				12	44	59	38	18	17	13
14		7.8				12	44	67	36	18	16	13
15	11	7.6				12	41	75	36	16	16	12
16		7.8	7.0			11	41	82	34	15	16	13
17		8.1				11	44	84	32	15	15	13
18		7.8				12	49	82	30	15	16	13
19	13	7.6		*6.1		11	51	84	29	15	15	15
20	14	8.1			*4.8	12	45	83	27	14	17	14
21	12	8.1				13	40	81	26	14	16	14
22		8.3				12	45	76	25	14	15	14
23		8.6				12	49	75	24	12	14	13
24		8.1				13	51	70	25	12	13	13
25		8.1		6.0	5.0	8.7	56	67	23	12	13	13
26	11	8.1				8.7	57	63	22	12	12	14
27		7.8	*6.8			7.5	56	62	20	12	14	14
28						6.9	56	63	19	12	13	14
29		8.0	6.5			5.6	57	65	19	12	14	15
30					-	8.7	59	67	18	12	19	14
31		-			-	9.4	-	65	-	12	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	370	15	-	11.9	734
November	257.6	-	-	8.59	511
December	216.8	-	-	6.99	430
Calendar year 1935	8,825.7	135	-	24.2	17,500
January	186.1	-	-	6.00	369
February	154.3	-	-	5.32	306
March	298.7	13	-	9.64	592
April	1,044.5	59	7.9	34.8	2,070
May	2,153	90	43	69.5	4,270
June	1,033	64	18	34.4	2,050
July	468	22	12	15.1	928
August	535	27	11	17.3	1,060
September	414	16	12	13.8	821
Water year 1935-36	7,131.0	90	-	19.5	14,140

*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, 3½ miles south of Arroyo Seco, and 4 miles northeast of Taos.

Records available.- May 1934 to September 1936.

Extremes.- Maximum discharge during year, 37 second-feet May 17 (gage height, 1.54 feet); no flow at times.

1934-36: Maximum discharge, about 89 second-feet May 24, 1935 (gage height, 1.77 feet); no flow at times.

Remarks.- Records good except those for period of ice effect, Nov. 27 to Feb. 19, which were computed on basis of five discharge measurements, gage-height and temperature records and are poor.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	3.8			4.5	0	9.0	5.2	0	0	.1
2	0	0	3.4			5.2	.5	9.6	4.3	0	0	.1
3	0	0	4.0	3.5	4.0	5.8	.3	13	2.6	0	0	.1
4	0	0	4.3			6.0	.1	20	2.7	0	.1	.1
5	0	0	5.9			5.6	.2	25	3.4	0	.1	.1
6	0	0				4.9	.1	23	5.0	0	.1	.1
7	0	0				4.9	0	20	4.7	0	.1	.1
8	0	0			3.5	4.7	0	24	3.5	0	.1	.1
9	0	0				5.4	.1	24	3.7	0	.1	.1
10	0	0	4.0	4.0		7.0	1.3	22	3.3	0	.1	.1
11	0	0				6.5	7.0	23	2.5	0	.1	.1
12	0	0				6.0	16	24	2.4	0	.1	.1
13	0	0			4.0	5.1	19	26	1.5	0	.1	.1
14	0	0				1.4	17	28	.8	0	.1	.1
15	0	0				1.3	18	31	.4	0	.1	.1
16	0	0				1.2	18	32	.3	0	0	.1
17	0	0			3.5	1.2	17	34	.2	0	0	.1
18	0	0	3.5	3.5		1.1	20	33	.2	0	0	.1
19	0	0				1.1	19	32	.6	0	0	.1
20	0	0			2.8	.9	16	32	.9	0	.1	0
21	0	0			3.1	1.2	13	26	0	0	.1	0
22	0	.2			3.4	.5	12	19	0	0	0	.1
23	0	.7		4.0	3.7	0	12	14	0	0	0	0
24	0	1.4			3.3	.1	9.9	11	0	0	0	0
25	0	3.5	4.0		3.7	0	11	7.7	0	0	0	0
26	0	3.7			3.3	0	11	6.2	.3	0	0	0
27	0	3.3			3.5	0	10	6.2	.2	0	0	0
28	0	1.8		4.5	4.0	0	9.6	6.2	0	0	.1	0
29	0	3.3			3.8	0	9.6	6.2	0	0	.1	0
30	0	4.0			-	0	9.0	6.5	0	0	.1	0
31	0	-			-	0	-	5.6	-	0	.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	0	0	0	0	0
November	21.9	4.0	0	.73	43
December	122.9	-	-	3.96	244
Calendar year 1935	1,248.6	59	0	3.42	2,470
January	122.0	-	-	3.94	242
February	106.1	-	-	3.66	210
March	81.8	7.0	0	2.64	162
April	276.7	20	0	9.22	549
May	599.2	34	5.6	19.3	1,190
June	48.9	5.2	0	1.63	97
July	0	0	0	0	0
August	1.8	.1	0	0.06	3.6
September	2.0	.1	0	.07	4.0
Water year 1935-36	1,363.3	34	0	3.78	2,740

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, 4½ miles north of Taos Pueblo, and 7½ miles northeast of Taos.

Records available.- June 1935 to September 1936.

Extremes.- Maximum discharge during year, 17 second-feet May 7 (gage height, 1.68 feet); no flow at times.
1935-36: Maximum discharge, that of May 7, 1936; no flow at times.

Remarks.- Records good except those for period of ice effect, Nov. 28 to Dec. 4, and for period of no gage-height record, Oct. 24 to Nov. 24, Mar. 17, 18, which were estimated on basis of temperature records and knowledge of local conditions and are poor. No records Dec. 5 to Mar. 16 except result of discharge measurement Jan. 19. Flow regulated at head gate of ditch. No diversions above station. Ditch diverts from right bank of Rio Lucero, and the water is used for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9					-	0.7	3.1	3.0	1.0	1.2	4.2
2	1.9	0.4	0.4			-	.6	2.5	3.6	1.2	1.0	2.7
3	1.7					-	0	3.2	3.7	1.7	3.7	.5
4	1.7		.4			-	0	3.9	3.4	1.5	11	.4
5	1.7	.2				-	0	4.5	3.7	.6	9.3	.4
6	1.7					-	0	3.9	3.9	.8	11	.4
7	1.9					-	0	5.0	3.7	1.9	9.6	.4
8	1.7					-	0	5.5	3.7	1.5	9.6	.4
9	1.7					-	0	1.7	3.7	1.6	8.1	.4
10	1.6	.2				-	.1	1.3	3.3	1.0	7.6	.4
11	1.5					-	.1	1.3	3.0	1.3	6.6	.4
12	1.5					-	.1	1.7	3.2	.4	5.2	.3
13	1.5					-	0	2.3	2.9	1.9	4.4	.3
14	1.4					-	0	3.0	1.3	4.3	3.8	.2
15	1.3					-	0	3.3	.9	3.5	3.4	.2
16	1.3					-	0	4.6	1.5	5.5	3.2	.2
17	1.3					0.1	0	5.6	1.7	1.9	3.0	.2
18	1.3					.1	0	5.3	2.7	1.6	3.8	.2
19	1.3			0		.1	0	6.2	2.6	1.9	2.8	.2
20	1.7	.3				.1	0	5.7	2.1	1.9	4.4	.2
21	1.5					.1	0	4.7	2.1	1.6	3.2	.2
22	1.4					.2	0	3.0	2.0	1.5	2.3	.2
23	1.2					.4	0	2.4	1.3	1.5	1.9	1.0
24						.4	0	2.6	.1	1.5	1.6	2.8
25		.3				.1	.2	3.2	.7	1.3	1.3	2.8
26		.3				.1	.2	3.1	1.5	.5	1.4	3.2
27	.9	.3				.1	.2	3.0	1.5	.8	2.6	3.4
28						.1	1.4	3.0	0	1.0	2.5	3.6
29		.3				.1	2.6	3.2	0	.8	3.0	3.9
30						.2	2.8	3.2	.3	1.1	5.9	4.0
31		-				.7	-	3.2	-	1.5	4.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	42.9	1.9	-	1.38	85
November	8.3	-	-	.28	16
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 17-31	2.9	.7	0.1	.19	6
April	9.0	2.8	0	.30	18
May	103.2	6.2	1.3	3.49	215
June	67.1	3.9	0	2.24	133
July	50.1	5.5	.4	1.62	99
August	143.2	11	1.0	4.62	284
September	37.7	4.2	.2	1.26	75
Water year 1935-36					

Indian Ditch at head, 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, 4½ miles north of Taos Pueblo, and 7½ miles northeast of Taos.

Records available.- July 1934 to September 1936.

Extremes. Maximum discharge during year, 18 second-feet July 7 (gage height, 1.65 feet); no flow at times.
1934-36: Maximum discharge, 25 second-feet May 18, 1935 (gage height, 1.82 feet); no flow at times.

Remarks.- Records good except those for period of ice effect, Nov. 4-7, 11-13, 15-30, which were estimated on basis of weather records and knowledge of local conditions and are poor. No record Dec. 1 to Apr. 24 except results of discharge measurements Dec. 4, Jan. 19, Mar. 17. Flow regulated at head gate. No diversions above station. Ditch diverts from left bank of Rio Lucero and the water is used for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.7	2.7					-	0	6.1	5.6	4.6	6.1
2	4.6	2.7					-	0	5.1	5.4	4.6	6.8
3	4.3	2.6					-	0	3.6	4.8	5.6	7.9
4	4.5		0				-	5.4	3.2	4.7	7.1	7.9
5	4.0	2.6					-	12	2.7	4.8	6.8	7.3
6	4.1						-	12	2.4	4.7	7.1	6.9
7	4.4						-	9.2	2.2	6.0	7.3	6.6
8	4.0	2.6					-	6.6	2.2	6.6	7.9	6.4
9	4.0	2.5					-	4.0	7.5	6.1	6.9	6.2
10	3.8	2.6					-	2.5	15	5.7	6.1	5.9
11	3.6						-	2.6	15	8.2	6.1	6.2
12	3.6	2.4					-	4.0	15	7.9	5.9	5.9
13	3.5						-	6.4	14	6.1	5.9	5.7
14	3.5	2.1					-	8.8	13	4.8	5.9	5.7
15	3.5						-	11	13	4.8	5.7	5.1
16	3.4						-	12	13	4.1	5.9	5.0
17	3.4					0	-	13	11	6.2	5.7	4.7
18	3.4						-	12	9.7	6.1	5.9	5.1
19	3.5			0			-	12	9.2	5.7	5.9	6.1
20	4.3						-	11	8.8	6.1	6.2	5.0
21	3.6	2.0					-	10	8.2	5.9	6.1	5.0
22	3.4						-	9.7	7.9	5.3	5.7	5.1
23	3.2						-	9.2	7.7	5.0	5.6	4.3
24	3.2						0	7.9	8.4	4.8	5.4	3.3
25	3.2						0	6.9	7.7	4.6	5.4	3.3
26	3.0						0	6.2	6.9	5.0	5.1	3.6
27	3.0						0	6.1	6.2	5.1	5.0	4.6
28	2.9	0					0	6.1	6.6	4.8	5.3	4.8
29	2.9	0					0	6.8	6.4	4.7	5.4	5.0
30	2.8	0					0	7.1	6.1	4.7	6.6	5.3
31	2.9	-					-	6.4	-	4.7	6.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	112.0	4.7	2.8	3.61	222
November	61.4	-	0	2.05	122
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 24-30	0	0	0	0	-
May	226.9	13	0	7.32	450
June	243.8	15	2.2	8.13	484
July	169.0	8.2	4.1	5.45	335
August	185.1	7.9	4.6	5.97	367
September	166.8	7.9	3.3	5.56	331
Water year					

Seco Ditch at head, near Arroyo Seco, N. Mex.

Location.- Water-stage recorder and Venturi flume, lat. 36°31', long. 105°32', in sec. 10, T. 26 N., R. 13 E., 2 miles southeast of Arroyo Seco, 4½ miles north of Taos Pueblo, and 7½ miles northeast of Taos.

Records available.- July 1934 to September 1936.

Extremes.- Maximum discharge during year, 18 second-feet May 29 (gage height, 1.52 feet); no flow at times.
1934-36: Maximum discharge, 34 second-feet July 3, 1935 (gage height, 2.10 feet); no flow at times.

Remarks.- Records good except those for period of ice effect, Nov. 5, 28-30, Dec. 1-4, computed on basis of gage heights, weather records, and two discharge measurements, and those above 8 second-feet, which are fair. No record Dec. 5 to Mar. 16 except result of discharge measurement Jan. 19. Flow regulated at head gate of ditch. No diversions above station. Ditch diverts from right bank of Rio Lucero, and the water is used for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	0.8	0.1			-	1.4	2.5	16	4.7	2.6	2.2
2	2.4	.8	.1			-	1.5	2.6	15	4.5	2.6	2.4
3	2.4	.8	.1			-	1.6	3.3	15	4.0	3.3	3.2
4	2.4	.7	.1			-	1.7	3.0	15	3.0	4.2	2.7
5	2.2	.5	-			-	1.6	2.4	14	3.0	3.7	2.5
6	2.3	.4	-			-	.9	2.3	13	3.1	3.9	2.3
7	2.6	.6	-			-	1.6	3.5	12	4.3	3.4	2.3
8	2.3	.8	-			-	1.2	4.0	13	4.7	2.9	2.2
9	2.3	.8	-			-	.2	3.6	9.9	4.2	2.5	2.1
10	2.2	.8	-			-	.3	3.4	8.6	4.1	2.3	2.2
11	2.1	.8	-			-	.3	3.4	9.1	5.9	2.2	2.3
12	2.1	.9	-			-	.2	3.4	9.1	6.3	2.4	2.2
13	1.9	.9	-			-	.2	3.6	8.4	5.0	2.5	2.1
14	1.7	.9	-			-	.1	3.7	7.8	4.0	2.5	2.1
15	1.7	.7	-			-	.1	3.9	7.5	3.9	2.4	1.9
16	1.4	.4	-			-	.1	3.9	6.9	2.8	2.3	1.8
17	1.0	.6	-			2.5	.1	3.8	5.9	2.6	2.3	1.8
18	1.0	.9	-			2.4	.1	3.6	5.2	2.6	2.3	1.9
19	1.0	.7	-	0		2.6	.1	3.6	4.8	2.8	2.2	2.2
20	1.2	.4	-			2.6	.1	3.5	5.8	2.6	2.3	1.9
21	1.1	.6	-			2.6	.1	3.3	6.3	2.6	2.2	1.9
22	1.0	.7	-			2.5	0	7.5	6.2	2.6	2.2	1.9
23	1.0	1.0	-			1.1	1.9	11	6.2	2.6	2.2	1.7
24	1.0	2.2	-			1.0	3.3	10	6.6	2.6	2.1	1.4
25	1.0	1.5	-			1.3	3.4	14	6.2	2.5	2.0	1.4
26	1.0	1.6	-			1.3	3.4	16	5.4	2.6	1.9	1.5
27	1.0	.7	-			1.7	3.2	16	3.8	2.9	1.9	1.6
28	1.0	.2	-			1.6	3.0	16	4.7	2.8	1.9	1.6
29	1.0	.2	-			1.7	2.9	16	4.9	2.5	1.9	1.7
30	.9	.2	-			1.9	3.1	17	5.0	2.6	2.3	1.9
31	.8	-	-			1.9	-	16	-	2.6	2.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	49.5	2.6	0.8	1.60	98
November	23.1	2.2	.2	.77	46
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March.....17-31	28.7	2.6	1.0	1.91	57
April	37.7	3.4	0	1.26	75
May	209.8	17	2.3	6.77	416
June	257.3	16	3.8	8.58	510
July	107.2	6.3	2.5	3.46	213
August	77.6	4.2	1.9	2.50	154
September	60.9	3.2	1.4	2.03	121
Water year					

Juan Manuel Ditch near Arroyo Seco, N. Mex.

Location.- Water-stage recorder and Venturi flume, lat. 36°29', long. 105°34', in Antoine Leroux Grant, 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 1935 to September 1936.

Extremes.- Maximum discharge during year, 16 second-feet May 4 (gage height, 1.35 feet); no flow at times.
1935-36: Maximum discharge, that of May 4, 1936; no flow at times.

Remarks.- Records fair. Discharge for Oct. 6 to Nov. 4, July 9-16 computed on basis of knowledge of local conditions; for period of ice effect, Nov. 5-7, 16, 17, 20-30, computed on basis of weather records and two discharge measurements. No record Dec. 1 to Apr. 23 except results of discharge measurements Dec. 4, Jan. 20, Mar. 17. Flow regulated at head gate of ditch. No diversions above station. Ditch diverts from right bank of Rio Lucero, and the water is used for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0						-	12	11			
2	0	0.1					-	12	10			
3	0						-	14	9.0			
4	0		0.5				-	15	8.8			
5	0	.1					-	14	8.1			
6	0	.1					-	14	7.9			
7	0	.1					-	13	5.3			
8	0	0					-	11	3.8			
9	0	0					-	9.8	2.2			
10	0	.1					-	9.1	0			
11	0	.1					-	9.1	0			
12	0	.1					-	9.8	0			
13	0	.1					-	10	0			
14	0	0					-	11	0			
15	0	.1					-	12	0			
16		.1					-	12	0			
17		.1				0.1	-	12	0			
18		.1					-	12	0			
19		.1					-	12	0			
20				0			-	12	0			
21							-	12	0			
22							-	11	0			
23	.1						-	11	0			
24							11	10	0			
25		.1					11	9.3	0			
26							11	8.8	0			
27							11	8.5	0			
28							11	10	0			
29							12	11	0			
30							12	11	0			
31		-					-	11	-			

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1.6	-	0	0.05	3
November	2.7	-	0	.09	5
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 24-30	79	12	11	11.3	157
May	349.4	15	8.5	11.3	693
June	66.1	11	0	2.20	131
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
Water year					

Prado Ditch near Arroyo Seco, N. Mex.

Location.- Water-stage recorder, and Parshall flume, lat. 36°28', long. 105°34', in sec. 21, T. 26 N., R. 13 E., 2 miles northwest of Taos Pueblo, 3½ miles south of Arroyo Seco, and 4 miles northeast of Taos.

Records available.- May 1934 to September 1936 (except winters).

Extremes.- Maximum discharge during year, 25 second-feet May 2, 3 (gage height, 2.07 feet); no flow at times.
1934-36: Maximum discharge, that of May 2, 3, 1936; no flow at times.

Remarks.- Recorde good except those for period of ice effect, Nov. 28-30, computed on basis of weather records, and those interpolated for Aug. 4, 23, 24, Sept. 2-7, which are fair. No record Dec. 1 to Mar. 16 except results of discharge measurements Dec. 5, Jan. 19. Discharge determined from rating curve for standard 2-foot Parshall flume. Flow regulated at head of ditch. No diversions above station. Ditch diverts from right bank of Rio Lucero a short distance upstream, and water is used for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.4	2.4				-	4.0	22	13	4.5	1.9	4.0
2	3.4	2.3				-	.8	22	12	4.2	1.7	4.0
3	3.3	2.2				-	.3	24	9.4	3.5	2.6	4.0
4	3.3	1.9				-	1.3	23	8.6	3.6	3.0	3.9
5	3.0	2.6	*0.2			-	3.5	21	7.0	4.2	3.3	3.9
6	3.1	3.2				-	4.2	20	6.1	3.9	3.7	3.8
7	3.3	2.6				-	1.4	17	6.9	4.2	3.2	3.8
8	2.7	2.2				-	1.9	9.5	11	5.1	2.6	3.8
9	2.6	2.2				-	3.2	3.7	8.2	4.3	3.0	3.8
10	2.6	1.9				-	2.6	1.9	7.4	4.3	4.2	3.8
11	2.5	1.9				-	2.2	1.0	9.4	6.3	4.1	3.8
12	1.4	2.0				-	.7	.9	11	6.1	3.7	3.5
13	.5	1.9				-	5.0	1.5	11	5.0	3.8	3.4
14	1.6	1.0				-	4.4	1.7	10	3.9	3.7	3.4
15	.5	1.6				-	3.4	1.6	11	3.7	3.4	3.0
16	1.9	2.4				-	3.2	1.4	12	2.9	3.4	2.7
17	3.7	2.5				4.1	3.2	1.0	11	3.8	3.4	2.7
18	3.1	1.0				4.1	3.3	2.2	9.0	3.5	3.4	3.1
19	3.8	1.9		*0		4.1	7.0	4.2	8.5	3.4	3.6	3.7
20	5.0	2.5				2.8	9.3	4.0	6.7	2.9	4.6	2.2
21	3.9	3.3				.8	8.8	15	5.9	2.6	3.9	3.0
22	3.4	2.9				.2	8.8	19	5.9	2.7	3.2	3.4
23	3.2	2.2				0	11	18	5.7	2.2	3.1	2.8
24	3.3	.7				.1	13	17	6.6	1.9	3.1	1.9
25	3.2	0				0	14	17	6.3	1.7	3.0	1.9
26	3.1	0				0	15	17	4.8	1.9	3.0	2.2
27	3.0	0				0	15	16	5.1	2.2	3.0	2.6
28	2.9	0				0	17	14	5.8	2.1	3.3	2.5
29	2.7	0				0	17	14	5.4	1.8	3.4	2.4
30	2.6	0				0	20	14	5.1	1.9	4.2	2.5
31	2.4	-				1.2	-	13	-	1.7	4.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	89.0	5.0	0.5	2.87	177
November	52.9	3.3	0	1.76	105
December	-	-	-	-	-
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 17-31	17.4	4.1	0	1.16	35
April	204.5	20	.3	6.82	406
May	357.6	24	.9	11.5	709
June	249.4	13	4.8	8.31	495
July	106.0	6.3	1.7	3.42	210
August	103.5	4.6	1.7	3.34	205
September	95.5	4.0	1.9	3.16	189
Water year					

*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 1936 in reports of U. S. Geological Survey; October 1923 to December 1931 in reports of State engineer.

Extremes.- Maximum stage during year, 6.95 feet July 8 (discharge not determined); minimum daily discharge, 7 second-feet July 28 and 29.
1930-36: Maximum stage, that of July 8, 1936; minimum daily discharge, 1 second-foot July 23, 24, 1932.

Remarks.- Records poor. Discharge May 30 to June 4, June 9, 10, 12-20, 22, July 8-13, Aug. 20-23, Sept. 22-30 computed on basis of records for station on Rio Chama at Park View, Rio Colorado near Questa, Rio Taos at Los Cordovas, a study of the trace, weather records, and a knowledge of local conditions. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	71	41	28	39	31	24	84	305	220	22	14	27
2	71	41	28	33	28	25	82	294	200	18	16	27
3	71	42	28	36	22	27	84	277	180	15	71	25
4	69	43	28	25	19	28	88	284	160	14	120	27
5	69	35	30	39	20	31	90	288	140	12	71	22
6	67	34	31	33	24	33	92	302	135	12	53	19
7	67	39	32	33	26	35	99	316	138	91	50	14
8	67	39	32	34	22	36	103	352	115	440	54	16
9	66	40	32	28	21	38	108	352	110	300	50	14
10	64	38	32	38	22	41	112	352	100	150	49	14
11	62	35	33	30	20	43	122	340	108	100	43	18
12	62	31	34	35	21	43	140	340	130	80	31	32
13	60	30	34	25	21	44	184	366	130	60	23	28
14	60	33	35	34	21	47	270	364	120	53	17	26
15	62	27	35	36	21	47	305	364	110	49	15	22
16	60	24	32	33	21	49	305	368	100	43	16	17
17	64	27	28	30	21	51	312	372	80	42	22	14
18	69	33	26	26	21	54	316	376	60	38	21	16
19	98	25	28	21	22	59	319	372	50	30	17	35
20	112	25	36	22	22	62	319	368	35	25	100	32
21	71	26	38	25	22	67	312	364	25	17	120	33
22	67	28	32	28	22	69	298	360	20	14	50	60
23	67	28	32	28	23	72	322	340	11	12	40	20
24	66	28	32	28	23	74	333	322	12	10	35	20
25	64	28	33	28	24	76	336	312	12	10	29	20
26	64	34	33	28	22	74	340	322	11	9	20	140
27	54	38	35	27	22	72	333	312	12	9	15	85
28	46	33	41	24	22	72	322	277	15	7	12	70
29	41	30	35	28	22	72	319	243	28	7	21	65
30	42	28	38	21	-	76	312	280	36	8	46	65
31	42	-	41	22	-	80	-	250	-	12	33	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,015	112	41	65.0	4,000
November	983	43	24	32.8	1,950
December	1,012	41	26	32.6	2,010
Calendar year 1935	51,863	692	18	142	102,900
January	917	39	21	29.6	1,820
February	648	31	19	22.3	1,290
March	1,621	80	24	52.3	3,220
April	6,761	340	82	225	13,410
May	10,124	376	243	327	20,080
June	2,603	220	11	86.8	5,160
July	1,709	440	7	55.1	3,390
August	1,274	120	12	41.1	2,530
September	1,023	140	14	34.1	2,030
Water year 1935-36	30,690	440	7	83.9	60,890

Pueblo Creek near Penasco, N. Mex.

Location.- Water-stage recorder, lat. 36°11', long. 105°40', in SW¼ sec. 28, T. 22 N., R. 12 E., 300 feet below head gate of Picuris Ditch, 1½ miles east of Picuris Pueblo, 2 miles northeast of Penasco, and 3½ miles above confluence with Rio Santa Barbara.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, about 717 second-feet Aug. 20 (gage height, 2.52 feet) from rating curve extended above 200 second-feet; minimum daily discharge, 1.0 second-foot July 27 and 28.

Remarks.- Records good except those for Mar. 29 to May 4, computed on basis of records for stations on Rio Taos at Los Cordovas and Embudo Creek at Dixon, and those for July 12, 13, Aug. 21-23, estimated on basis of a study of the recorder trace, all of which are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	30	100	76	5.4	6.5	5.7
2						-	30	105	69	4.3	8.8	5.4
3						-	30	115	67	3.5	24	4.5
4						-	30	135	64	2.9	23	5.4
5						-	30	158	51	2.7	18	5.4
6						-	30	164	46	4.0	16	5.1
7						-	30	148	42	29	18	5.1
8						-	30	151	37	17	13	5.9
9						-	31	139	30	15	13	4.8
10						-	33	134	27	16	13	4.5
11						-	40	139	34	24	11	5.1
12						-	53	151	27	13	8.4	6.5
13						-	62	158	24	12	7.6	6.5
14						-	90	161	23	12	6.2	6.5
15						-	95	173	20	12	5.9	5.7
16						-	90	176	17	14	6.9	5.4
17						-	100	180	12	13	8.2	7.6
18						-	100	173	9.9	11	6.5	8.0
19						-	100	158	9.5	10	5.9	11
20						-	100	151	8.4	6.5	50	9.9
21						46	95	148	7.3	5.1	17	11
22						46	90	137	6.9	6.5	9.2	12
23						40	100	126	4.8	5.4	8.8	11
24						35	105	115	4.5	3.1	8.4	9.5
25						36	110	110	4.5	1.4	7.6	9.5
26						29	115	113	3.7	1.2	7.6	12
27						35	115	106	9.2	1.0	5.1	12
28						27	110	94	10	1.0	4.5	13
29						30	105	88	9.2	2.3	6.5	13
30						30	100	84	8.0	2.1	8.4	20
31						30	-	88	-	3.5	7.3	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 21-31	384	46	27	34.9	762
April	2,179	115	30	72.6	4,320
May	4,178	180	84	135	8,290
June	761.9	76	3.7	25.4	1,510
July	259.9	29	1.0	8.38	516
August	360.3	50	4.5	11.6	715
September	247.0	20	4.5	8.23	490
The period					16,600

Picuris Ditch near Penasco, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 36°11', long 105°40", in SW¼ sec. 28, T. 23 N., R. 12 E., 500 feet below head gage, 1½ miles east of Picuris Pueblo, and 2 miles northeast of Penasco.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, about 26 second-feet July 7; maximum gage height, 2.32 feet Aug. 20; no flow at times.

Remarks.- Records good except those for July 11-13, which were estimated on basis of knowledge of local conditions and are poor. Picuris Ditch diverts from right bank of Pueblo Creek, and water is used for irrigation. No diversions above station. About 150 acre-feet during the period (estimated on basis of 9 discharge measurements and study of recorder chart on Picuris Ditch) wasted above Ditch station into Pueblo Creek below Creek station and not included in either record.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	0	2.2	1.1	5.8	4.0	1.9
2						-	0	2.7	.7	7.7	3.0	1.7
3						-	0	2.0	.5	7.6	3.0	1.6
4						-	0	3.5	.4	7.1	1.6	1.4
5						-	0	3.5	4.6	7.1	1.9	1.3
6						-	0	3.6	6.0	7.6	2.0	1.2
7						-	0	4.0	5.8	5.6	2.1	1.2
8						-	0	6.1	5.7	.5	2.1	1.4
9						-	0	1.0	5.4	1.0	.8	1.2
10						-	0	.4	5.2	1.1	.3	1.2
11						-	1.1	.3	5.2	2	.3	1.2
12						-	2.1	.3	2.7	2	3.5	1.6
13						-	.9	.4	2.4	2	3.4	1.0
14						-	.3	.4	2.3	3.2	3.4	.6
15						-	.4	.5	2.6	2.7	4.5	.6
16						-	0	.6	5.4	1.5	5.2	.6
17						-	.3	.5	5.8	.4	5.3	.6
18						-	1.0	.4	4.8	.2	5.2	.7
19						-	.6	.3	4.0	.1	5.2	.7
20						-	.3	.3	4.3	3.9	3.6	.7
21						-	.3	.2	5.1	6.0	0	.7
22						-	.9	.7	3.3	5.8	0	.7
23						-	1.3	1.4	5.6	4.5	0	.7
24						-	1.0	1.1	8.4	3.4	0	.8
25						-	.8	.8	8.9	4.4	0	.6
26						0	.6	1.0	7.9	5.1	0	.3
27						0	.3	.7	1.2	5.7	.3	.3
28						0	1.2	.3	4.3	5.6	2.2	.3
29						0	1.9	.8	7.1	6.1	2.3	.3
30						0	1.6	1.4	6.0	6.0	2.2	.3
31						0	-	1.8	-	7.3	2.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 26-31	0	0	0	0	0
April	16.9	2.1	0	.56	34
May	45.6	6.1	.2	1.47	90
June	132.7	8.9	.4	4.42	263
July	129.0	7.7	.1	4.16	256
August	59.4	5.3	0	2.24	138
September	27.4	1.9	.3	.91	54
The period					835

Alcalde Ditch at Alcalde, N. Mex.

Location.- Water-stage recorder and Venturi flume, lat. 36°4', long. 106°4', in SW¼ SE¼ sec. 2, T. 21 N., R. 8 E., 1 mile south of Alcalde and about 5 miles below head gage.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 47 second-feet Aug. 29 (gage height, 2.08 feet); no flow at times.

Remarks.- Records good. Discharge estimated Mar. 1, 3-6 on basis of knowledge of local conditions. Ditch diverts from left bank of Rio Grande, and the water is used for irrigation on San Juan Grant. Diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	10	11	9.5	4.5	5.6	3.1
2						0	9.8	6.2	9.0	1.8	9.1	16
3						0	9.4	8.6	8.7	2.8	7.9	3.5
4						0	4.8	6.8	11	5.8	14	9.8
5						0	8.4	6.0	9.6	7.6	12	8.3
6						0	6.2	6.1	7.4	5.8	3.1	8.1
7						0	7.8	17	5.2	2.6	.3	4.3
8						0	6.4	23	6.6	2.1	3.1	2.0
9						0	9.6	19	11	4.5	6.0	2.3
10						0	11	15	4.0	.6	3.6	6.5
11						0	9.8	8.9	4.0	3.4	4.5	8.1
12						0	9.6	6.5	0	5.2	2.4	8.9
13						0	12	2.2	9.3	8.6	2.3	13
14						0	13	5.6	8.8	16	2.0	12
15						0	14	12	6.5	15	1.8	8.4
16						0	11	13	15	9.9	2.0	6.8
17						0	14	20	16	4.6	2.2	8.1
18						0	13	17	15	1.7	1.1	2.8
19						5.3	8.8	11	4.7	4.1	1.9	2.9
20						14	13	9.0	2.1	6.5	8.8	2.7
21						9.8	6.9	9.4	2.9	5.4	2.3	5.6
22						12	4.3	7.4	.9	11	5.0	9.9
23						14	8.8	5.5	3.7	10	6.1	11
24						11	15	6.3	11	7.9	6.7	12
25						6.9	16	4.2	11	4.9	2.9	11
26						7.2	11	2.9	10	6.1	2.5	7.2
27						7.2	11	5.2	10	3.6	.9	3.0
28						5.7	5.1	6.9	11	2.3	1.0	0
29						5.5	8.7	4.8	12	7.0	3.4	3.8
30						2.5	10	6.4	16	6.3	0	7.9
31						5.3	-	13	-	10	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	108.4	14	0	3.50	215
April	300.6	16	4.3	10.0	596
May	295.9	23	2.2	9.55	587
June	251.9	16	0	8.40	500
July	187.6	16	.6	6.05	372
August	124.5	14	0	4.02	247
September	209.0	16	0	6.97	415
The period					2,930

San Rafael Ditch at Alcalde, N. Mex.

Location.- Water-stage recorder and Venturi flume, lat. 36°5', long. 106°5', in SE¼ SE¼ sec. 34, T. 22 N., R. 8 E., 200 feet south of north boundary of San Juan Pueblo Grant, 1 mile west of Alcalde, 1½ miles below head gate, and 2½ miles north of Chamita.

Records available.- February to September 1936.

Extremes.- Maximum discharge during period, 33 second-feet Aug. 3 (gage height, 1.37 feet); no flow Feb. 1 to Mar. 19.

Remarks.- Records good. Discharge estimated Feb. 1-11 on basis of knowledge of local conditions. Ditch diverts from right bank of Rio Grande and the water is used for irrigation on San Juan Grant. Diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	18	17	17	0.8	13	16
2						0	17	15	18	8.2	14	16
3						0	17	15	20	16	22	14
4						0	17	13	21	18	6.1	16
5						0	17	18	19	21	1.1	13
6						0	16	20	16	19	.4	12
7						0	16	23	16	18	3.9	10
8						0	15	18	9.6	24	7.1	10
9						0	15	14	8.2	20	7.7	11
10						0	13	14	10	16	6.2	9.8
11						0	11	16	13	18	14	9.4
12						0	11	17	11	14	16	10
13						0	9.8	16	7.3	13	16	11
14						0	19	18	5.8	18	16	9.6
15						0	21	21	2.6	8.2	16	8.4
16						0	22	20	8.1	13	16	8.4
17						0	18	22	15	18	10	8.2
18						0	19	18	2.1	17	8.0	8.4
19						0	22	20	10	20	7.1	6.7
20						9.1	19	20	12	19	7.3	9.4
21						18	21	22	13	18	5.5	9.1
22						18	22	21	9.6	18	14	9.8
23						19	21	19	12	17	13	8.7
24						18	21	18	19	14	8.4	4.0
25						18	20	16	17	13	5.8	3.4
26						16	21	19	24	15	7.1	4.1
27						17	17	22	24	12	9.6	3.1
28						16	19	18	27	11	12	2.2
29						19	16	14	25	12	14	1.9
30						18	17	15	13	12	17	4.6
31						18	-	16	-	15	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	0	0	0	0	0
March	204.1	19	0	6.58	405
April	527.8	22	9.8	17.6	1,050
May	555.0	23	13	17.9	1,100
June	425.3	27	2.1	14.2	844
July	478.2	24	.8	15.4	948
August	331.3	22	.4	10.7	657
September	268.2	16	1.9	8.94	532
The period					5,540

Acequia Madre at Alcalde, N. Mex.
(also known as Indian Ditch)

Location.- Water-stage recorder and Venturi flume, lat. 36°4', long. 106°4'; in SE¼SW¼ sec. 2, T. 21 N., R. 8 E., three-quarters of a mile below head gage and 1 mile south of Alcalde.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 28 second-feet Aug. 4; maximum gage height, 1.52 feet July 10; no flow Mar. 1-4.

Remarks.- Records good Mar. 7 to May 27, others fair. Discharge Mar. 1-16 computed on basis of information from Acequia officials. Some diversions above station. Acequia diverts from left bank of Rio Grande and water is used for irrigation, practically all on Indian land.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	15	12	13	20	18	12
2						0	14	12	13	19	21	12
3						0	14	12	12	16	22	13
4						0	13	11	12	16	25	13
5						6.4	14	11	10	15	24	14
6						18	14	8.9	9.3	14	19	14
7						17	14	6.7	9.3	13	17	14
8						17	12	4.0	9.1	18	18	14
9						17	14	1.8	14	17	16	14
10						16	14	1.6	13	21	16	13
11						16	14	5.2	13	20	16	14
12						16	15	6.7	12	11	19	13
13						16	17	6.0	9.1	12	17	13
14						16	13	5.9	6.0	17	15	13
15						16	19	13	3.2	17	4.3	13
16						17	15	20	4.5	17	4.1	13
17						16	13	17	4.8	18	8.9	12
18						16	9.0	15	5.8	18	11	13
19						15	9.0	14	3.7	17	11	12
20						14	12	13	2.4	16	13	11
21						14	15	13	1.6	16	19	11
22						14	13	18	8.3	17	16	13
23						14	11	19	17	16	14	9.9
24						14	11	16	17	14	14	9.2
25						6.4	11	15	17	13	15	7.1
26						5.1	12	15	17	13	13	6.9
27						12	11	15	17	13	12	7.4
28						12	11	13	14	14	12	7.1
29						13	13	13	9.5	14	13	6.6
30						14	13	13	20	15	15	7.1
31						14	-	13	-	17	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	381.9	18	0	12.3	757
April	395.0	19	9.0	13.2	783
May	359.8	20	1.6	11.6	714
June	317.6	20	1.6	10.6	630
July	494.0	21	11	15.9	980
August	472.3	25	4.1	15.2	937
September	345.3	14	6.6	11.5	685
The period					5,490

Rio Chama at Park View, N. Mex.

Location.- Water-stage recorder, lat. 36°43', long. 106°34', in Tierra Amarilla Grant, 150 feet above highway bridge, 650 feet below mouth of Rio Brazos, and half a mile northwest of Park View, Rio Arriba County.

Drainage area.- 405 square miles.

Records available.- November 1912 to September 1916, October 1930 to September 1936 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, 5,840 second-feet Apr. 22 (gage height, 7.10 feet), from rating curve extended above 2,800 second-feet; minimum daily discharge, 30 second-feet July 26 and 27.

1930-36: Maximum discharge and stage, those of Apr. 22, 1936; minimum daily discharge, 3 second-feet July 6, 7, 1934.

Remarks.- Records good except those for period of ice effect, Dec. 16 to Mar. 1, which were computed on basis of one discharge measurement, records for Rio Taos at Los Cordovas, Rio Colorado near Questa, and weather records and are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	154	55	59	45	40	70	174	2,320	690	54	45	136
2	127	69	51	40	50	78	164	2,510	600	51	66	120
3	112	60	52	45	45	78	195	2,690	513	50	125	150
4	104	55	52	35	35	81	178	2,790	489	45	194	194
5	102	41	57	45	36	94	181	2,750	447	42	768	133
6	89	46	55	45	40	104	188	2,270	430	38	477	108
7	87	59	51	55	45	109	181	1,730	413	37	501	92
8	83	60	48	45	45	122	274	1,420	402	38	303	82
9	79	63	42	35	40	154	330	1,170	391	41	245	78
10	78	57	48	45	40	178	459	925	391	86	205	74
11	74	51	54	40	40	164	724	1,140	402	153	198	128
12	70	49	60	45	50	174	1,130	1,260	350	159	191	130
13	69	49	55	35	45	192	1,510	1,320	298	96	150	101
14	65	54	48	40	50	220	1,770	1,380	277	78	125	88
15	65	45	46	45	50	226	2,160	1,310	257	67	120	74
16	69	42	40	50	45	216	2,570	1,580	234	60	120	69
17	65	45	35	50	50	212	2,900	1,520	212	69	108	66
18	60	59	35	45	45	230	2,830	1,360	194	59	106	69
19	62	43	40	40	45	238	2,630	1,360	174	52	115	90
20	107	43	45	35	50	234	3,030	1,260	156	52	316	101
21	104	46	40	35	55	238	3,650	1,150	144	46	261	80
22	83	54	40	40	60	220	4,290	995	141	48	144	192
23	78	52	40	40	65	167	4,030	923	125	41	110	159
24	74	43	40	40	70	151	3,530	833	156	36	92	108
25	78	59	40	45	65	139	3,780	786	120	32	86	96
26	76	62	40	45	50	125	3,050	725	92	30	84	106
27	81	42	45	45	60	114	2,880	746	76	30	72	174
28	87	38	50	50	65	139	3,030	714	69	33	74	156
29	85	49	40	60	70	170	2,550	690	64	33	92	144
30	76	57	40	40	-	212	2,160	722	62	48	162	174
31	63	-	45	35	-	230	-	870	-	45	215	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,606	154	60	84.1	5,170
November	1,547	69	38	51.6	3,070
December	1,433	60	35	46.2	2,840
Calendar year 1935	171,435	3,650	-	470	340,100
January	1,335	60	35	43.1	2,650
February	1,445	70	35	49.8	2,870
March	5,079	238	70	164	10,070
April	56,578	4,290	164	1,886	112,200
May	43,219	2,790	690	1,394	85,720
June	8,369	690	62	279	16,600
July	1,749	159	30	56.4	3,470
August	5,870	768	45	189	11,640
September	3,472	194	66	116	6,890
Water year 1935-36	132,702	4,290	30	363	263,200

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El Vado Reservoir near Tierra Amarilla, N. Mex.

Location.- Staff gage, lat. 36°36', long. 106°44', in NE¼ sec. 33, T. 26 N., R. 2 E., 2 miles below old town of El Vado and 13 miles southwest of Tierra Amarilla. Zero of gage is 9,565 feet above mean sea level.

Records available.- January 1935 to September 1936.

Extremes.- Maximum daily contents during year, 167,800 acre-feet June 3-5 (gage height, 6,892.3 feet); minimum daily contents, 54,200 acre-feet Sept. 24.
1935-36: Maximum daily contents, 171,200 acre-feet July 16, 17, 1935 (gage height, 6,893.5 feet); minimum daily contents, 56 acre-feet Jan. 1, 1935.

Remarks.- Capacity of reservoir is 226,000 acre-feet at an elevation of 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, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	137,200	127,600	117,100	119,500	122,000	125,000	134,500	159,900	167,000	134,800	97,400	71,590
2	137,100	125,200	117,200	119,600	122,100	125,200	135,000	159,900	167,600	132,000	96,040	70,510
3	136,900	124,100	117,300	119,600	122,100	125,500	135,600	160,500	167,800	130,200	94,700	69,890
4	136,700	124,300	117,400	119,700	122,100	125,900	135,800	159,700	167,800	129,200	93,750	69,260
5	136,800	123,800	117,500	119,700	122,200	126,400	136,300	158,800	167,800	127,800	94,320	68,640
6	136,700	121,900	117,700	119,800	122,300	127,100	136,800	158,000	167,700	125,900	95,650	68,180
7	136,700	119,800	117,800	119,900	122,400	127,600	137,400	156,700	167,700	124,000	96,430	66,650
8	136,600	117,200	117,900	120,000	122,400	128,800	137,400	155,100	167,600	122,100	96,430	65,870
9	136,600	115,400	117,900	120,100	122,600	130,000	138,400	153,700	167,600	120,900	95,650	64,820
10	136,500	115,300	118,000	120,200	122,600	131,500	138,900	152,400	167,600	119,300	94,700	64,080
11	136,500	115,500	118,000	120,200	122,800	132,700	140,000	150,700	165,400	118,800	93,380	63,490
12	136,400	115,700	118,100	120,300	122,600	134,000	141,500	150,200	163,700	118,600	91,890	62,600
13	136,400	116,000	118,200	120,300	122,800	135,300	143,700	149,700	162,900	118,100	90,460	62,160
14	136,500	116,100	118,300	120,400	123,100	135,600	145,800	149,400	162,400	117,900	89,020	61,430
15	136,600	116,100	118,400	120,400	123,200	136,100	148,000	151,000	161,600	117,200	87,220	60,250
16	136,600	116,100	118,400	120,400	123,300	136,100	150,700	152,700	161,300	116,400	85,660	59,100
17	136,700	116,100	118,400	120,500	123,500	136,100	153,500	153,700	160,200	115,700	83,960	58,250
18	136,800	116,100	118,500	120,700	123,600	135,800	156,200	155,100	158,800	115,500	82,630	57,150
19	136,800	116,100	118,500	120,800	123,800	135,800	157,500	156,200	157,200	115,300	81,909	56,330
20	137,100	116,200	118,600	120,900	123,900	135,600	158,300	157,800	155,600	114,500	79,750	55,370
21	137,500	116,200	118,600	121,000	124,100	135,300	159,400	158,400	154,000	113,600	79,100	54,980
22	137,600	116,300	118,700	121,100	124,100	135,000	160,500	160,500	152,700	113,200	79,260	54,980
23	137,700	116,400	118,800	121,200	124,200	134,800	161,300	161,600	150,700	112,400	79,260	54,720
24	137,900	116,500	118,800	121,200	124,200	134,600	161,600	162,400	148,600	111,200	79,260	54,200
25	137,600	116,600	118,900	121,300	124,500	134,500	161,600	163,200	146,700	109,600	78,120	54,590
26	137,200	116,800	118,900	121,400	124,800	134,800	161,600	163,700	144,500	108,000	76,820	54,720
27	136,000	117,000	119,000	121,600	124,800	134,800	161,300	164,200	142,600	106,600	75,840	55,370
28	135,300	117,000	119,000	121,800	125,000	134,500	160,500	164,800	140,500	105,000	74,850	55,500
29	134,000	117,100	119,200	121,900	125,000	132,700	159,900	165,400	138,600	102,800	73,730	56,050
30	132,100	117,100	119,300	121,900	-	133,300	160,200	165,900	136,600	100,800	72,500	56,470
31	129,900	-	119,400	122,000	-	133,800	-	166,400	-	99,400	72,040	-

Rio Chama near Tierra Amarilla, N. Mex.

Location.- Water-stage recorder, lat. 36°35', long. 106°44', in Tierra Amarilla Grant, 1,800 feet below El Vado Dam and 13 miles southwest of Tierra Amarilla.

Records available.- October 1935 to September 1936; comparable records at site 1,900 feet upstream (published as Rio Chama near El Vado) October 1913 to November 1915, April to September 1916.

Extremes.- Maximum discharge during period, 3,470 second-feet Apr. 23 (gage height, 9.19 feet); minimum daily discharge, 10 second-feet Jan. 17 and Sept. 25.
1913-15, 1916-17, 1935-36: Maximum discharge, 4,860 second-feet May 10, 1916; minimum not determined.

Remarks.- Records good. Discharge Nov. 10, Nov. 27 to Dec. 2, Aug. 20, 21 computed on basis of gate operation at El Vado Dam. Flow controlled by El Vado Reservoir (capacity, 226,000 acre-feet at an elevation of 6,910.0 feet). Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	-	1,380	13	11	11	11	40	2,290	454	1,020	1,060	686
2	-	1,100	13	11	11	12	52	2,290	449	1,060	960	686
3	-	21	13	11	12	12	70	2,760	449	1,060	930	686
4	-	124	11	11	12	13	92	2,960	449	1,020	397	680
5	-	812	11	11	12	13	107	2,660	428	992	56	660
6	-	1,090	11	11	12	13	128	2,760	376	960	56	680
7	-	1,260	11	11	11	15	152	2,570	368	900	308	675
8	-	1,160	11	11	11	16	174	2,380	364	812	840	675
9	-	441	12	11	13	16	231	2,160	498	741	840	675
10	-	13	12	11	13	17	304	1,940	1,060	595	900	675
11	-	39	12	11	13	17	416	1,760	1,120	345	1,090	675
12	-	13	12	11	12	26	600	1,680	1,090	339	995	670
13	-	13	12	11	12	276	870	1,600	702	346	1,090	670
14	-	13	12	11	13	432	1,120	695	420	384	1,090	665
15	-	13	12	11	12	503	1,360	512	485	490	1,090	665
16	-	14	12	11	12	521	1,760	665	665	472	1,060	660
17	-	13	13	10	13	516	2,160	665	1,020	384	1,060	660
18	-	13	12	11	12	512	2,480	660	992	388	1,060	675
19	-	13	12	11	11	516	2,660	451	992	392	1,060	605
20	-	13	12	11	12	498	2,860	249	930	396	1,060	702
21	-	13	12	11	13	490	3,060	360	900	388	510	670
22	-	13	12	11	13	467	3,260	424	1,020	384	152	476
23	-	13	12	11	14	454	3,470	424	1,120	775	146	454
24	-	13	13	11	14	428	3,360	412	1,090	1,020	472	196
25	-	13	12	11	14	420	3,360	408	1,160	1,120	812	10
26	-	13	11	11	13	420	3,260	420	1,020	1,120	812	19
27	-	13	11	11	13	420	3,060	454	1,060	1,120	812	127
28	-	13	11	11	12	424	3,060	462	930	1,200	812	140
29	-	13	11	11	11	191	2,570	458	992	1,300	870	16
30	1,340	13	11	11	-	16	2,290	458	930	1,260	763	14
31	1,340	-	11	12	-	26	-	449	-	1,300	686	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October 30-31					5,320
November	7,688	1,380	13	256	15,250
December	366	13	11	11.8	726
Calendar year					
January	341	12	10	11.0	676
February	357	14	11	12.3	708
March	7,711	521	11	249	15,290
April	48,406	3,470	40	1,614	96,010
May	38,636	2,960	249	1,246	76,630
June	23,533	1,160	364	784	46,680
July	24,083	1,300	339	777	47,770
August	23,849	1,090	56	769	47,300
September	15,567	702	10	519	30,880
The period					383,200

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, 3¾ miles northwest of Chamita, and 4 miles above confluence with Rio Grande.

Records available.- October 1912 to June 1915, October 1930 to September 1936 in reports of U. S. Geological Survey; October 1912 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 5,510 second-feet Apr. 24 and July 11; maximum gage height, 5.77 feet Apr. 24; minimum daily discharge, 18 second-feet Dec. 30, Jan. 2, 28.

1930-36: Maximum discharge, 7,700 second-feet May 20, 1932; maximum stage, 6.74 feet May 16, 1935, at present site and datum; no flow at times.

Remarks.- Records fair. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	407	1,380	55	25	34	97	258	2,770	738	820	1,180	562
2	421	1,420	39	18	49	163	241	2,690	588	900	1,020	538
3	428	980	46	49	30	286	224	2,770	492	890	970	630
4	407	258	53	129	34	263	263	3,710	506	900	2,030	684
5	442	142	69	171	41	400	311	3,440	428	850	880	570
6	394	870	81	176	28	348	342	3,180	407	850	280	554
7	329	1,130	78	150	90	280	394	2,770	442	880	158	530
8	348	1,310	72	115	53	280	435	2,770	407	820	310	545
9	354	1,120	66	122	44	286	492	2,390	387	747	622	522
10	374	588	56	185	61	263	588	2,030	492	765	596	530
11	414	236	41	100	97	185	850	1,960	1,040	1,530	765	554
12	435	133	46	61	118	150	1,280	1,830	1,140	950	890	478
13	421	107	37	75	133	122	1,760	1,760	1,100	693	765	348
14	400	90	44	35	219	268	2,390	1,640	792	648	900	298
15	329	72	39	72	200	554	3,010	890	515	604	640	268
16	368	63	28	93	185	478	3,530	910	554	711	880	274
17	361	58	105	34	129	545	4,180	1,020	675	729	810	292
18	317	53	280	53	93	666	4,780	990	950	639	783	296
19	298	53	596	75	84	613	5,090	940	890	940	820	380
20	304	44	702	97	125	613	4,780	765	830	675	1,130	311
21	348	41	880	125	87	613	4,780	463	850	596	1,190	200
22	354	56	515	118	81	675	4,780	588	763	774	492	688
23	354	66	304	97	69	684	4,880	613	930	596	219	368
24	360	75	150	44	230	613	4,680	588	1,040	792	154	219
25	335	107	125	20	428	562	4,480	522	990	1,180	209	171
26	545	142	137	25	181	530	4,380	515	1,080	1,210	554	148
27	1,140	129	133	49	97	538	4,180	554	920	1,310	630	1,640
28	1,340	90	125	18	100	545	4,090	579	990	1,460	792	478
29	1,010	84	66	32	100	570	3,900	562	890	1,210	810	394
30	1,350	81	18	46	-	485	2,930	538	950	1,220	1,060	236
31	1,360	-	37	32	-	241	-	774	-	1,220	720	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	16,067	1,360	298	518	31,870
November	10,978	1,420	41	366	21,770
December	5,016	880	18	162	9,950
Calendar year 1935	207,565	3,800	4	569	411,700
January	2,441	185	18	78.7	4,840
February	3,220	428	28	111	6,390
March	12,916	684	97	417	25,620
April	78,278	5,090	224	2,609	155,300
May	47,521	3,710	463	1,533	94,260
June	22,798	1,140	387	760	45,220
July	28,109	1,530	596	907	55,750
August	23,459	2,030	154	757	46,530
September	13,708	1,640	148	457	27,190
Water year 1935-36	264,511	5,090	18	723	524,700

Willow Creek near Park View, N. Mex.

Location.- Water-stage recorder, lat. 36°40', long. 106°41', in Tierra Amarilla Grant, 500 feet above Willow Creek reservoir site, 0.3 mile below mouth of Horse Lake Creek, and 7 miles southwest of Park View, Rio Arriba County.

Records available.- May to September 1936.

Extremes.- Maximum discharge during period, 400 second-feet Aug. 3 (gage height, 3.73 feet), from rating curve extended above 70 second-feet; minimum daily discharge, 0.5 second-foot June 27.

Remarks.- Records good except those for May 1, 5-8, 18-22, which were computed on basis of records for Rio Chama at Park View and are poor. Diversions for irrigation above station

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								10	4.4	1.9	26	5.7
2								10	3.3	1.4	21	3.8
3								9.5	3.5	1.6	54	11
4								12	2.5	2.3	46	70
5								25	1.7	1.7	101	9.1
6								27	1.1	2.1	17	4.9
7								27	.9	2.1	36	4.1
8								26	3.0	1.9	27	3.5
9								25	3.3	1.4	8.4	3.5
10								14	1.7	30	3.0	3.3
11								12	2.3	13	2.1	4.4
12								9.1	2.5	7.2	1.7	12
13								e.0	2.5	6.1	1.6	4.9
14								7.2	2.1	5.7	24	3.5
15								7.6	2.5	5.7	14	3.3
16								8.0	3.3	4.6	5.7	3.0
17								e.0	2.1	4.6	4.4	2.5
18								7	1.0	4.6	3.8	2.3
19								6	1.0	4.6	6.1	2.3
20								5	1.1	4.1	56	2.3
21								4	.9	4.4	50	2.6
22								4	1.1	4.1	8.7	56
23								2.6	1.1	2.e	4.9	12
24								3.0	2.6	2.3	3.e	4.6
25								2.6	2.1	1.4	3.3	3.0
26								3.5	1.0	1.0	3.0	32
27								4.1	.5	14	2.8	52
28								4.1	1.2	8.7	2.8	19
29								3.8	1.7	5.4	2.6	9.5
30								3.3	1.9	4.1	15	5.4
31								5.7	-	e.0	18	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May	304.1	27	2.6	9.81	603
June	59.9	4.4	.5	2.00	119
July	162.8	30	1.0	5.25	323
August	573.7	101	1.6	18.5	1,140
September	357.5	70	2.3	11.9	709
Water year					2,890

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 1936 in reports of U. S. Geological Survey; May to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 328 second-feet Apr. 24; maximum gage height, 3.31 feet Apr. 17; minimum recorded daily discharge, 0.9 second-foot Nov. 5, 6, 19.

1931-36: Maximum discharge, 398 second-feet May 19, 1932 (gage height, 4.16 feet, former site and datum); minimum daily discharge, 0.3 second-foot June 21-23, 1934.

Remarks.- Records fair except those for periods of ice effect, Nov. 2, 7, 8, 14, 15, 18, 22, 23, 25, Nov. 28 to Feb. 25, and those for Oct. 11 to Nov. 1, Mar. 23-30, Sept. 15-23, which were computed on basis of records for stations on Rio Chama at Park View, Rio Ojo Caliente at La Madera, and Rio Colorado near Questa and weather records and are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	1.5				7.5	6.8	109	22	2.6	1.0	1.8
2	1.4					3.7	8.5	106	16	3.7	1.3	1.4
3	1.2	1.4				4.4	7.8	106	14	3.2	3.3	1.5
4	1.2	1.3				3.9	7.2	107	13	2.4	16	1.8
5	1.2	.9				4.4	7.2	95	12	2.2	20	1.3
6	1.1	.9			1	3.9	8.2	75	10	2.2	8.1	1.2
7	1.2	1.1				3.7	8.5	65	9.2	1.9	9.2	1.1
8	1.1	1.2				4.6	17	62	8.2	2.4	5.1	1.1
9	1.1	1.8				5.6	31	59	7.5	5.4	4.4	1.1
10	1.1	1.5				6.6	45	74	7.5	3.2	2.7	1.1
11		1.5				8.8	77	104	8.2	7.2	2.4	2.4
12		1.4				9.6	111	87	7.8	7.8	1.9	3.4
13		1.3				13	141	64	6.9	4.2	1.5	1.9
14	1.2	1.3				8.5	161	60	6.2	4.1	1.6	1.6
15		1.2				8.6	176	57	5.6	4.9	1.9	1.5
16		1.0			1.5	9.2	211	58	5.6	2.7	1.9	1.4
17		1.3				10	223	51	4.9	2.1	1.5	1.3
18		1.1				9.2	240	44	4.4	2.1	1.6	1.2
19	2.0	.9				10	221	41	4.2	2.1	1.5	1.2
20		1.4				11	200	38	4.2	1.9	4.8	1.2
21		1.5				14	191	32	3.7	3.2	4.9	1.5
22		1.5				14	209	28	3.0	4.2	2.2	5
23	2.5	1.7			2.5	10	207	26	3.4	2.1	1.5	2
24		1.2				7	202	24	3.7	1.5	1.3	1.6
25		1.8				7	200	24	3.4	1.4	1.2	1.5
26		2.4			4.9	6	157	25	3.9	1.3	1.0	11
27		1.6			3.7	6	147	24	3.2	1.4	1.0	10
28		1.0			5.9	7	155	20	4.4	6.2	1.2	7.2
29	2.0	1.0			7.5	8	134	17	3.4	1.8	1.8	6.9
30		1.0			-	10	118	18	3.0	1.0	5.6	8.6
31		-			-	13	-	41	-	1.0	3.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	51.3	-	-	1.65	102
November	48.2	2.4	.9	1.34	80
December	31	-	-	1	61
Calendar year 1935	7,113.1	221	-	19.5	14,110
January	31	-	-	1	61
February	59.0	7.5	-	2.03	117
March	248.4	14	3.7	8.01	493
April	3,630.2	240	7.2	121	7,200
May	1,741	109	17	56.2	3,450
June	212.5	22	3.0	7.08	421
July	93.4	7.8	1.0	3.01	185
August	116.3	20	1.0	3.75	231
September	86.0	11	1.1	2.87	171
Water year 1935-36	6,340.3	240	.9	17.3	12,570

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. Gage datum lowered 1.26 feet June 22, 1936.

Records available.- April 1932 to September 1936.

Extremes.- Maximum discharge during year, about 1,450 second-feet Apr. 21; maximum stage, 4.86 feet (new datum) Apr. 14; minimum daily discharge, 4 second-feet Oct. 10 and 11.

1932-36: 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. Discharge for periods of ice effect, Nov. 30 to Dec. 3, Dec. 5-8, 11, 14-17, Dec. 29 to Jan. 3, Jan. 5, 7-9, 18-24, 30, Feb. 4-6, and those for June 4-21, were computed on basis of records for Rio Chama at Park View, El Rito Creek near El Rito, and Embudo Creek at Dixon and weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	13	18	16	15	16	100	394	90	5	8	29
2	7	14	18	12	18	27	70	372	59	5	13	20
3	7	14	14	13	14	29	92	372	49	5	36	19
4	6	12	16	16	11	34	89	368	35	5	116	20
5	6	12	18	15	9	39	89	340	30	5	99	18
6	5	11	14	14	10	32	126	289	25	5	49	16
7	5	12	10	14	12	34	186	258	20	5	46	15
8	6	14	12	13	12	36	308	258	15	6	42	14
9	5	15	13	13	11	45	428	270	15	6	29	13
10	4	16	13	18	12	52	478	273	15	7	25	13
11	4	16	15	18	12	43	650	336	15	37	21	13
12	5	15	16	18	16	43	864	306	15	32	17	17
13	5	14	16	15	14	52	1,030	248	10	18	14	19
14	5	14	12	16	14	59	1,060	224	10	16	13	17
15	6	15	11	18	14	64	1,050	214	10	17	14	16
16	6	13	9	21	12	62	1,070	204	10	12	13	14
17	6	13	9	18	14	67	1,100	185	9	10	14	12
18	7	18	13	15	12	70	1,050	160	8	8	13	12
19	11	15	15	11	12	72	1,100	146	7	10	18	23
20	16	12	16	9	15	77	987	134	7	9	21	20
21	19	12	14	10	12	97	1,030	113	6	7	32	18
22	21	13	14	11	13	109	1,110	96	6	8	30	33
23	24	19	13	12	18	92	1,010	81	6	6	20	25
24	24	18	13	13	21	62	915	75	6	5	17	20
25	18	24	14	15	19	72	885	75	6	5	14	17
26	22	32	15	14	10	54	713	75	5	5	12	69
27	21	22	16	14	11	52	596	77	5	5	10	134
28	21	12	18	14	12	64	581	67	6	15	10	81
29	19	14	13	16	15	67	510	55	6	20	18	73
30	16	16	14	12	-	80	438	57	5	12	37	85
31	14	-	16	13	-	106	-	137	-	10	36	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	351	24	4	11.3	696
November	460	32	11	15.3	912
December	438	18	9	14.1	869
Calendar year 1935	26,369	595	1	72.2	52,300
January	447	21	9	14.4	887
February	390	21	9	13.4	774
March	1,808	109	16	58.3	3,590
April	19,717	1,110	70	657	39,110
May	6,261	394	55	202	12,420
June	511	90	5	17.0	1,010
July	321	37	5	10.4	637
August	857	116	8	27.6	1,700
September	895	134	12	29.8	1,780
Water year 1935-36	32,456	1,110	4	88.7	64,380

Chamita Ditch near Chamita, N. Mex.

Location.- Water-stage recorder, lat. 36°5', long. 106°7', in NW¼ sec. 5, T. 21 N., R. 8 E., 2,000 feet below head gate and 3½ miles northwest of Chamita.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 70 second-feet July 19 (gage height, 2.34 feet); no flow at times.

Remarks.- Records good except those computed on basis of partially estimated gage-height record, which are fair. Discharge estimated Mar. 1-10 on basis of knowledge of local conditions. Ditch diverts from the left bank of Rio Chama and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	27	14	13	21	14	13
2						0	23	11	30	26	19	14
3						0	16	5.1	37	19	15	4.3
4						0	5.6	16	32	19	0	9.4
5						0	*0	10	29	10	2.2	14
6						0	13	15	29	17	1.4	*5.5
7						0	22	14	10	26	12	11
8						0	17	5.8	19	20	18	17
9						0	18	15	26	12	18	12
10						0	29	0	30	15	27	*6.1
11						0	18	6.6	0	7.0	21	*2.9
12						0	3.8	6.3	1.6	*0	13	15
13						0	*5.0	9.5	7.4	0	19	17
14						0	*17	20	5.4	0	21	16
15						0	24	12	18	9.6	19	17
16						15	24	31	17	17	*11	13
17						34	17	16	24	18	27	16
18						22	*9.1	23	24	19	25	14
19						16	.2	23	21	11	*9.7	10
20						18	16	20	23	13	17	4.7
21						22	13	27	16	17	*12	*0
22						*.3	9.7	29	25	13	*10	4.0
23						*4.5	16	28	23	11	*0	*4.6
24						*2.0	15	*7.1	22	22	*12	4.8
25						*14	*7.1	25	23	24	20	7.1
26						16	*0	26	25	22	17	*5.7
27						9.8	13	22	25	21	12	*.2
28						21	18	26	22	16	16	*0
29						22	17	30	12	*12	9.3	*0
30						9.9	11	18	20	*12	*0	*0
31						21	-	0	-	*17	7.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	247.5	34	0	7.98	491
April	424.5	29	0	14.2	842
May	511.4	31	0	16.5	1,010
June	609.4	37	0	20.3	1,210
July	466.6	26	0	15.1	925
August	425.2	27	0	13.7	843
September	258.3	17	0	8.61	512
Water year					5,830

*Computed on basis of partially estimated gage-height record.

Santa Clara Creek near Espanola, N. Mex.

Location.- Water-stage recorder lat. 35°58', long. 106°11', in SW¼SW¼ sec. 11, T. 20 N., R. 7 E., 5½ miles above mouth and 5½ miles southwest of Espanola.

Records available.- February to September 1936.

Extremes.- Maximum discharge during period, 68 second-feet July 28 (gage height, 2.32 feet) (slope-area determination); minimum daily discharge, 1.2 second-feet June 23.

Remarks.- Records good except those for periods of ice effect, Feb. 8-11, 26, 28, Mar. 26, computed on basis of recorder trace and weather records, and those for July 29 to Aug. 2, computed on basis of recorder trace and knowledge of local conditions, which are fair; and the maximum, which is poor. Small diversion about a quarter of a mile above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	3.4	3.9	3.6	3.6	2.3	3.6	1.7
2					-	3.4	3.9	3.6	3.1	2.6	3.4	1.6
3					-	3.4	4.2	3.9	3.4	2.6	3.4	1.9
4					-	3.4	3.6	3.9	3.4	1.9	3.4	2.1
5					-	3.6	3.9	3.6	3.4	1.9	2.1	2.1
6					-	3.4	3.9	3.9	3.1	2.1	2.8	1.7
7					-	3.4	3.9	4.5	2.8	1.8	2.3	2.1
8					3.1	3.4	3.9	5.2	2.8	2.8	2.1	2.3
9					3.1	3.6	3.9	4.8	2.8	3.4	2.3	2.3
10					3.1	3.9	3.6	4.5	2.6	4.5	1.7	2.3
11					3.1	3.6	3.6	4.2	2.8	4.5	1.6	2.3
12					3.1	3.6	3.9	3.6	2.8	3.6	1.9	2.6
13					3.1	3.9	3.9	3.9	2.8	3.1	1.6	2.6
14					3.1	3.9	3.6	4.2	2.6	2.2	1.7	2.1
15					3.1	3.9	3.6	4.2	3.9	2.6	2.1	1.9
16					3.1	3.9	3.6	4.2	2.1	2.6	1.7	2.1
17					3.1	4.2	3.6	4.2	2.1	2.6	1.4	2.6
18					3.1	3.9	3.9	4.5	1.9	2.1	1.7	2.6
19					3.1	3.9	4.5	4.5	1.7	1.9	2.3	3.1
20					3.1	3.9	4.2	4.5	1.7	2.1	2.8	2.3
21					3.1	3.6	3.4	4.2	1.7	2.1	3.4	1.9
22					3.4	3.9	4.2	4.2	1.7	2.6	1.9	5.0
23					3.4	4.2	4.2	4.5	1.2	2.1	1.7	2.6
24					3.4	3.4	3.9	4.5	2.1	1.9	1.4	2.1
25					3.4	3.9	3.4	4.2	2.1	1.9	1.4	2.1
26					3.3	3.6	3.6	3.6	1.9	1.9	1.3	7.1
27					3.4	3.6	3.6	4.5	2.1	2.3	1.7	7.4
28					3.4	3.9	3.6	4.2	2.6	4.4	1.9	5.5
29					3.4	3.6	3.6	3.9	2.6	3.6	2.1	4.8
30					-	3.4	3.9	4.2	1.9	3.5	3.1	4.8
31					-	3.6	-	4.8	-	3.5	1.9	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February 8-29	70.5	3.4	3.1	3.20	140
March	114.3	4.2	3.4	3.69	227
April	114.5	4.5	3.4	3.82	227
May	130.3	5.2	3.6	4.20	258
June	75.3	3.9	1.2	2.51	149
July	83.0	4.5	1.8	2.68	165
August	67.7	3.6	1.3	2.18	134
September	87.6	7.4	1.6	2.92	174
Water year					1,470

Santa Clara Ditch near Espanola, N. Mex.

Location.- Water-stage recorder, and Venturi flume, lat. 35°58', long. 106°5', in NW¼ sec. 15, T. 20 N., R. 8 E., 300 feet above siphon under Santa Clara Creek, three-quarters of a mile east of Santa Clara, about 2 miles below head gate, and 2 miles south of Espanola.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 18 second-feet Aug. 26 (gage height, 1.00 foot); no flow at times.

Remarks.- Records excellent. Discharge Mar. 1-6 computed on basis of knowledge of local conditions. Ditch diverts from right bank of Rio Grande at Espanola, and water is used for irrigation on Santa Clara Pueblo Grant. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	0.4	3.8	5.2	6.8	5.8	5.3
2						0	.3	3.0	5.0	7.0	5.3	5.2
3						0	.3	2.6	5.5	7.8	5.3	5.2
4						0	.3	3.6	5.5	7.6	10	5.7
5						0	.3	9.6	5.2	8.2	3.4	5.5
6						0	.4	11	4.6	7.2	.7	5.3
7						0	.4	12	5.0	7.0	1.2	5.3
8						0	.3	10	4.3	7.8	5.0	5.3
9						0	.3	9.3	4.3	8.5	8.2	5.2
10						0	.4	6.2	5.3	6.8	9.1	5.2
11						0	1.4	6.4	3.5	8.4	11	5.3
12						0	4.0	6.4	11	1.2	13	5.3
13						0	1.9	6.4	8.4	.1	7.0	3.8
14						0	4.0	6.6	5.0	0	5.5	2.4
15						0	5.9	6.4	2.9	.3	4.4	2.1
16						0	12	6.2	5.5	2.1	5.2	2.1
17						0	9.8	6.2	7.8	1.4	4.3	1.8
18						0	7.7	6.6	12	.6	3.8	1.6
19						0	3.0	6.2	12	1.9	4.0	2.0
20						0	6.1	6.2	12	.8	4.4	2.0
21						0	12	6.0	12	2.2	6.9	1.7
22						0	11	6.0	10	7.4	2.4	2.9
23						.7	11	6.0	12	7.8	2.8	2.6
24						.7	9.6	5.8	14	6.8	2.4	1.6
25						.5	9.3	5.8	10	8.7	4.2	1.3
26						.4	9.1	5.7	11	9.1	9.0	.3
27						.4	8.7	5.7	9.1	9.6	2.8	5.2
28						.4	8.2	5.5	9.3	10	4.4	2.8
29						.2	6.6	5.2	6.8	10	4.8	2.1
30						.2	4.4	5.0	7.4	9.8	5.8	.9
31						.2	-	5.0	-	7.8	4.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March	3.7	0.7	0	0.12	7.3
April	149.1	12	.3	4.97	296
May	196.4	12	2.6	6.34	390
June	231.6	14	2.9	7.72	459
July	181.1	10	0	5.84	359
August	166.5	13	.7	5.37	330
September	103.0	5.7	.3	3.43	204
The period					2,050

Guachupangue Ditch near Espanola, N. Mex.

Location.- Water-stage recorder lat. 35°58', long. 106°7', in SE¼ sec. 8, T. 20 N., R. 8 E., a quarter of a mile below head gate, 1½ miles west of Santa Clara Pueblo, and 2½ miles southwest of Espanola.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, by slope-area method, 28 second-feet Sept. 22 (gage height, 2.41 feet); no flow at times.

Remarks.- Records fair. Rating curve based mainly on theoretical discharges computed by slope-area method. Discharge for Mar. 8 based on knowledge of local conditions. Ditch diverts from left bank of Santa Clara Creek, and the water used for irrigation on Spanish-American lands near Guachupangue. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	0	0	3.0	0	0.2	1.3
2						-	0	2.1	1.6	0	.3	0
3						-	.5	3.2	0	0	.4	0
4						-	1.7	3.2	0	.6	.4	0
5						-	0	.9	0	.7	0	.9
6						-	.9	0	1.7	.9	0	.9
7						-	.8	0	1.9	.2	0	1.4
8						0.5	.4	0	1.9	0	.1	1.4
9						.2	0	1.0	.4	0	.2	.6
10						.4	0	2.1	0	0	.1	0
11						.2	0	3.6	0	2.0	0	0
12						.1	.6	1.9	0	2.0	0	.7
13						.7	1.3	0	1.2	.9	0	1.3
14						2.2	1.3	0	1.4	.5	0	.9
15						1.9	1.0	0	1.1	0	.1	.5
16						1.9	1.0	2.0	.9	0	.2	.1
17						1.9	1.3	3.4	0	0	.1	.1
18						1.9	1.3	3.2	0	.6	.1	0
19						1.9	1.3	1.6	0	.7	.1	2.2
20						1.8	1.0	0	.9	.7	.1	1.6
21						1.5	1.2	0	1.3	.4	.9	1.3
22						.7	1.5	0	1.0	.6	.8	3.1
23						0	.6	2.4	.3	0	.8	0
24						0	0	3.6	0	0	.6	0
25						.5	2.0	3.4	0	.4	.4	0
26						0	3.0	1.1	0	.4	0	1.9
27						.3	2.9	0	1.1	.5	0	2.1
28						.8	.8	0	1.8	.3	.5	0
29						1.3	0	0	1.6	0	2.3	0
30						.5	0	2.6	.3	0	3.5	0
31						0	-	4.1	-	0	2.2	0

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 8-31	21.2	2.2	0	0.88	42
April	26.4	3.0	0	.88	52
May	45.6	4.1	0	1.47	90
June	23.4	3.0	0	.78	46
July	12.4	2.0	0	.40	25
August	14.4	3.5	0	.46	29
September	22.3	3.1	0	.74	44
The period					328

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, which form Rio Santa Cruz, and a quarter of a mile northwest of Cundiyo.

Records available.- September 1931 to September 1936 in reports of U. S. Geological Survey; June 1928 to June 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 805 second-feet Aug. 20 (gage height, 4.22 feet); minimum recorded daily discharge, 9.0 second-feet Feb. 26-28.
1931-36: Maximum discharge, about 2,610 second-feet Sept. 24, 1931 (gage height, 8.20 feet, former datum); minimum daily discharge, 3 second-feet Feb. 3, 1932, and Jan. 21, 1935.

Remarks.- Records good except those for periods of ice effect, Nov. 18, Nov. 29 to Dec. 1, Dec. 10-12, Dec. 15 to Feb. 23, and those for Nov. 5-7, Mar. 24 to Apr. 17, June 3-9, which were computed on basis of records for Embudo Creek at Dixon and Nambe Creek near Nambe and weather records and are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	14	16			11	20	82	62	17	25	14
2	22	15	16			11	15	84	61	17	23	16
3	21	14	18			13	20	88	60	16	44	15
4	22	11	18			14	20	93	55	14	62	15
5	20	10	16			15	20	97	55	14	37	13
6	20	12	15			12	20	102	55	14	28	12
7	20	15	14			12	20	97	50	15	24	12
8	19	18	14			12	20	97	50	15	23	17
9	18	16	13			14	25	89	50	16	23	12
10	18	16	13			18	25	84	46	22	20	12
11	18	15	14			16	35	64	50	44	18	14
12	16	12	15		10	17	45	86	39	32	17	16
13	16	13	15			18	55	82	38	23	15	14
14	16	14	14			19	55	88	35	21	15	13
15	16	10	12			19	55	88	31	20	24	11
16	16	9.4	12			20	60	91	33	21	19	10
17	18	15	12			19	65	93	28	20	17	11
18	17	12	13			18	74	94	24	18	18	11
19	17	10	15			19	75	91	23	16	18	19
20	23	10	14			19	75	90	23	16	56	13
21	19	14	13			20	70	89	21	15	24	14
22	18	17	12			20	70	88	20	24	18	25
23	17	20	12			20	76	86	23	14	16	16
24	17	17			9.4	15	80	84	23	11	13	13
25	14	19			9.4	15	85	80	23	11	12	12
26	17	18			9.0	15	85	80	23	10	9.8	20
27	16	14	12		9.0	15	81	75	20	13	12	23
28	16	9.4			9.0	15	82	71	20	21	24	20
29	16	12			10	20	82	68	19	19	16	19
30	15	16			-	20	84	69	18	19	19	22
31	13	-			-	20	-	68	-	30	17	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	554	23	13	17.9	1,100
November	417.8	20	9.4	13.9	829
December	422	18	-	13.6	837
Calendar year 1935	16,341.6	295	3	44.8	32,430
January	310	-	-	10.0	615
February	285.8	-	-	9.86	567
March	511	20	11	16.5	1,010
April	1,594	85	15	53.1	3,160
May	2,658	102	68	85.7	5,270
June	1,078	62	18	35.9	2,140
July	578	44	10	18.6	1,150
August	706.8	62	9.8	22.8	1,400
September	454	25	10	15.1	900
Water year 1935-36	9,569.4	102	-	26.1	18,980

Nambe Creek near Nambe, N. Mex.

Location.- Water-stage recorder, lat. 35°52', long. 105°57', in sec. 24, T. 19 N., R. 9 E., in Nambe Pueblo Grant, about 1,000 feet below diversions dam for Nambe Canal, 2½ miles southeast of Nambe, and 6½ miles above confluence with Rio Tesuque.

Records available.- October 1932 to September 1936.

Extremes.- Maximum discharge during year, about 450 second-feet Sept. 22 (gage height, 5.12 feet); minimum daily discharge recorded, 3.1 second-feet Feb. 3, 21, 22, 26, July 25.

1932-36: Maximum discharge, about 878 second-feet Aug. 23, 1935 (gage height, 6.43 feet); no flow at times.

Remarks.- Records fair except those for periods of missing gage-height record and ice effect, Oct. 31, Dec. 15-19, Dec. 21 to Jan. 26, Jan. 31, Feb. 4-7, 9-11, Feb. 27 to Mar. 3, June 13-30, July 2-5, which were computed on basis of records for Rio Santa Cruz at Cundiyo and weather records and are poor. One diversion for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		7.2	5.5		3.8		5.5	25	24	6.3	12	9.0
2		6.6	5.3		3.8	4.5	5.2	25	22	6	10	8.1
3		6.3	5.5		3.1		6.3	28	20	6	18	7.4
4		5.8	5.8			4.7	5.5	28	19	6	22	7.3
5	10	4.5	6.1		3.2	5.0	5.5	28	18	6	16	6.8
6		5.5	5.8			4.5	6.0	27	17	6.5	13	6.3
7		6.6	5.5			4.5	5.6	25	17	5.0	12	7.8
8		6.9	5.3		3.3	4.0	6.3	24	16	5.9	11	10
9		6.6	4.8			4.7	7.1	23	13	6.1	12	7.4
10		6.3	4.1		3.5	5.2	7.4	24	14	5.8	7.4	6.8
11		6.3	4.8			4.5	9.7	24	17	11	8.1	9.9
12		6.6	5.0		3.8	4.5	13	24	15	9.7	8.1	10
13		6.3	5.0		3.8	4.7	16	24		8.1	9.0	8.4
14		6.1	5.0	4.0	3.8	5.2	16	24		6.0	8.7	8.1
15	8	5.5			3.8	5.2	17	26		5.8	9.0	7.4
16		5.0			3.8	5.2	17	28	10	7.1	8.4	7.4
17		5.8	5.0		3.6	5.2	20	29		6.8	8.4	7.4
18		6.1			3.3	5.5	21	29		6.3	9.7	10
19	12	5.5			3.3	5.5	22	29		5.5	10	12
20		5.0	5.3		3.3	5.5	22	31		5.5	20	11
21		5.3			3.1	5.8	22	28		5.5	17	11
22		5.5	5.0		3.1	6.0	22	27		6.3	10	22
23		6.3			3.6	4.7	24	26		5.0	9.7	12
24	8	6.1			3.3	4.8	26	26	7	3.8	9.0	12
25		6.6			3.3	5.2	26	26		3.1	8.4	11
26		6.6			3.1	4.6	26	27		4.0	7.8	13
27		5.8	4.5	3.6		4.9	24	26		5.1	8.4	14
28		3.6		3.6	3.5	5.0	24	24		14	11	14
29	6	5.5		3.6		5.5	25	24		8.7	11	13
30		5.3		3.6	-	5.8	26	26		5.5	13	13
31		-		3.7	-	6.8	-	28	-	6.3	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	266	-	-	8.6	528
November	177.1	7.2	3.6	5.90	351
December	154.8	-	-	4.99	307
Calendar year 1935	5,982.7	88	.8	16.4	11,870
January	122.1	-	-	3.94	242
February	99.8	-	3.1	3.44	198
March	156.2	6.8	4.0	5.04	310
April	479.1	26	5.2	16.0	950
May	813	31	23	26.2	1,610
June	356	24	-	11.9	706
July	199.7	14	3.1	6.44	396
August	348.1	22	7.4	11.2	690
September	304.0	22	6.3	10.1	603
Water year 1935-36	3,475.9	31	3.1	9.50	6,890

Nambe Creek at Pojoaque Bridge, near Nambe, N. Mex.

Location.- Water-stage recorder, lat. 35°54', long. 106°1', in NW¼ sec. 8, T. 19 N., R. 9 E., 300 feet below head of Barranco Alto Ditch, a quarter of a mile above highway bridge at Pojoaque, 1 mile above confluence with Rio Tesuque, and 3 miles west of Nambe.

Records available.- February to September 1936.

Extremes.- Maximum discharge during period, about 2,400 second-feet Aug. 20 (gage height, 5.18 feet) (slope area determination); no flow at times.

Remarks.- Records fair except those for Apr. 14-16, 18, May 4, 11-16, 18-20, July 18, computed on basis of partial gage-height record, and those after Aug. 2, and the maximum, which are poor. Discharge for Aug. 2, 22, Sept. 4, 8, 9, 23, 27-29 based on partial gage-height record, and Aug. 21, Aug. 29 to Sept. 3 based on comparison with record for other station on Nambe Creek near Nambe minus diversions. Numerous diversions above and below station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	4.8	1.0	9.1	4.0	0	14	1.6
2					"	5.1	1.3	9.6	1.6	0	14	1.6
3					"	5.1	.5	12	1.9	0	13	1.8
4					-	5.8	.4	12	1.9	0	16	1.0
5					"	5.8	1.6	6.9	1.1	.5	16	.8
6					"	5.5	8.7	7.0	1.6	.2	4.5	1.2
7					-	5.8	7.7	9.1	3.2	.1	2.3	1.0
8					"	5.5	8.7	15	.5	.1	2.0	.8
9					-	4.5	8.2	18	.1	.1	6.7	.2
10					-	4.1	8.7	21	.1	.1	2.8	.1
11					"	3.9	9.6	12	.1	.7	1.1	2.3
12					6.4	4.3	11	12	.1	1.5	.2	5.8
13					6.7	3.9	13	11	.6	.2	.1	5.5
14					7.1	4.1	8.2	10	5.1	0	.1	4.5
15					6.4	3.9	7.1	10	1.0	2.2	.3	.4
16					6.4	3.0	7.7	11	0	2.3	.8	.4
17					6.1	2.8	12	17	0	1.1	.1	.2
18					5.8	2.1	6.2	11	0	.2	.1	3.9
19					5.8	1.2	8.7	9.1	0	.7	.5	4.5
20					5.5	1.2	5.6	8.7	.1	.5	245	3.7
21					5.5	.6	5.1	11	1.0	.2	20	3.9
22					5.5	.2	3.6	8.7	.1	.2	9.6	19
23					5.5	.2	4.2	6.0	0	.2	11	16
24					5.8	.2	4.3	10	0	.2	4.8	13
25					6.1	.2	5.7	3.8	0	.3	1.0	8.7
26					5.1	.2	6.4	3.9	0	.6	.9	28
27					6.4	.2	6.2	3.7	.2	.7	1.6	26
28					6.7	.2	5.2	2.9	1.2	2.9	22	18
29					5.1	.5	6.2	1.4	.2	4.3	2.2	16
30					-	1.4	6.7	2.6	0	1.8	8.1	16
31					"	1.0	-	9.6	"	1.7	5.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February.. 12-29	107.9	7.1	5.1	5.99	214
March	87.3	5.8	.2	2.82	173
April	191.5	13	.4	6.38	380
May	295.1	21	1.4	9.52	585
June	25.7	5.1	0	.86	51
July	23.6	4.3	0	.76	47
August	425.9	245	.1	13.7	845
September	205.9	28	.1	6.86	408
The period					2,700

Nambe Canal near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°52', long. 105°57', in sec. 24, T. 19 N., R. 9 E., in Nambe Pueblo Grant, about 300 feet below head gate, and 2½ miles southeast of Nambe.

Records available.- May 1932 to September 1936.

Extremes.- Maximum discharge during year, 5.6 second-feet June 25 (gage height, 1.27 feet); no flow at times.
1932-36: Maximum discharge, 6.5 second-feet Sept. 23, 1934 (gage height, 1.38 feet); no flow at times.

Remarks.- Records good except those for Apr. 27 to May 17, July 17, 18, which were computed on basis of knowledge of local conditions and partial gage-height record, and are fair. Discharge Dec. 19 to Feb. 26 based on knowledge of local conditions. Discharge determined from rating curve for standard 1-foot Parshall flume. Canal diverts from right bank of Nambe Creek, and the water is used for irrigation on Indian land. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.1					0		1.0	1.6	0.3	0.1
2	.7	1.2					0		1.4	1.6	.1	.2
3	.6	1.2					0		1.3	1.3	1.0	.3
4	.8	.9					0		.5	.7	1.3	.3
5	.7	.7					0		.6	0	1.4	.3
6	.8	.1					0		1.2	.6	2.0	.2
7	.8	1.0					0		0	2.3	1.3	.3
8	.8	.6					0		1.0	2.4	2.0	.4
9	.8	.7					0	1.0	1.8	2.1	.4	.3
10	.8	.6					0		2.0	3.2	.7	.3
11	.8	.7					0		1.6	2.1	.9	.4
12	.8	.3					0		1.3	.6	.8	.3
13	.9	.5					0		.1	.7	1.4	.3
14	.9	.7					0		0	1.7	1.9	.3
15	.9	.5					0		1.3	1.4	2.0	.2
16	1.0	.5					0		1.6	.7	1.7	.2
17	1.1	.6					0		1.1	1.2	1.8	.2
18	1.1	.5					0	.6	1.6	1.3	2.3	0
19	1.2	0					0	.3	1.0	1.4	2.9	0
20	1.5	0					0	.1	.6	1.5	2.6	0
21	1.4	0					.6	1.1	.6	1.5	.1	1.0
22	.4	0					1.8	1.9	2.2	1.5	.5	.2
23	0	0					.5	2.1	1.6	1.1	.3	0
24	0	0					.1	2.2	2.1	1.1	.2	0
25	0	0					.6	1.2	3.5	1.5	.1	0
26	0	0					1.6	.2	3.5	.5	.3	0
27	.4	0						.5	2.1	.9	.3	0
28	.6	0					1.0	.9	.8	1.0	.3	0
29	.7	0						1.1	2.1	.7	.3	0
30	.9	0						1.3	1.9	1.0	.3	0
31	.9	-					-	.1	-	.7	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	23.2	1.5	0	0.75	46
November	12.2	1.2	0	.41	24
December	0	0	0	0	0
Calendar year 1935	261.1	3.8	0	.72	517
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	9.2	1.6	0	.31	18
May	30.6	2.2	0	.99	61
June	41.4	3.5	0	1.38	82
July	39.9	3.2	0	1.29	79
August	31.7	2.9	.1	1.02	63
September	5.8	1.0	0	.19	12
Water year 1935-36	194.0	3.5	0	.53	385

Llano Frio Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°52', long. 105°57', in SW¼ sec. 14, T. 19 N., R. 9 E., 1,100 feet below head gate, and 1¼ miles southeast of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 14 second-feet Aug. 20 (gage height, 1.47 feet); no flow at times.

Remarks.- Records good. Discharge determined from rating curve for a standard 2-foot Parshall flume. Llano Frio Ditch diverts from right bank of Nambe Creek, and water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	2.0	4.3	3.4	0.7	0	0
2						-	1.6	4.3	3.5	2.0	0	0
3						-	2.3	4.4	3.1	2.1	0	0
4						-	2.1	4.3	3.7	1.7	0	0
5						-	1.9	3.8	3.9	0	0	0
6						-	1.1	3.6	3.1	.7	0	0
7						-	.6	3.0	1.2	1.1	0	0
8						-	.6	2.4	1.8	.7	0	0
9						-	.8	3.4	2.0	0	0	.2
10						-	.9	3.3	2.1	0	.4	.5
11						-	1.1	3.3	2.5	.3	0	.5
12						-	.8	3.7	2.5	.2	.3	.4
13						-	1.9	3.8	2.6	0	.7	.5
14						-	4.4	3.9	0	0	.4	1.7
15						-	5.6	4.0	1.7	0	.2	2.1
16						-	4.9	4.4	2.9	0	.7	1.8
17						-	4.5	4.3	2.5	0	.8	1.7
18						-	4.4	4.3	1.2	0	.8	1.2
19						-	3.8	4.3	.9	0	.6	1.3
20						-	3.3	4.3	.2	0	.6	1.6
21						-	3.4	4.2	.7	.1	0	1.8
22						-	4.0	4.1	1.2	.7	0	.4
23						-	4.4	4.1	1.7	.6	0	.8
24						-	4.7	4.1	1.4	.4	.9	2.3
25						-	5.0	4.1	.7	.6	1.1	2.1
26						-	4.9	4.1	1.3	0	.3	1.8
27						-	4.6	4.0	1.6	0	.5	0
28						1.9	4.5	4.0	.7	0	1.2	0
29						1.7	4.3	3.9	1.1	0	1.1	0
30						1.8	4.4	3.8	1.3	1.3	.8	0
31						2.2	-	2.5	-	1.1	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	92.8	5.6	0.6	3.09	184
May	120.0	4.4	2.4	3.87	238
June	56.5	3.9	0	1.88	112
July	14.3	2.1	0	.46	28
August	11.4	1.2	0	.37	23
September	22.7	2.3	0	.76	45
The period					630

Llano Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°52', long. 105°57', in SW¼ sec. 14, T. 19 N., R. 9 E., a quarter of a mile below head gate and 1.1 miles southeast of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 13 second-feet July 15 (gage height, 1.38 feet); no flow at times.

Remarks.- Records good except those interpolated for Apr. 23 to May 3, which are poor. Discharge determined from rating curve for standard 2-foot Parshall flume. Llano Ditch diverts from right bank of Nambe Creek, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	1.7	3.6	3.3	2.5	1.2	2.7
2						-	2.8	3.8	4.0	2.4	0	2.1
3						-	1.9	4.0	3.7	2.0	1.4	1.7
4						-	2.1	4.2	3.3	.5	2.1	1.6
5						-	3.0	4.6	2.8	0	1.1	1.3
6						-	1.5	4.3	2.7	1.8	1.1	1.3
7						-	.1	4.3	1.1	1.2	2.0	1.3
8						-	0	2.9	2.7	1.1	2.7	2.5
9						-	0	.9	2.8	1.4	2.3	1.9
10						-	0	.8	2.3	1.6	1.6	1.7
11						-	0	.7	2.2	2.1	1.5	2.6
12						-	.2	.6	2.8	.9	1.7	2.9
13						-	.3	1.1	4.2	1.2	1.4	2.3
14						-	.1	1.3	.5	1.1	1.2	2.1
15						-	0	.5	1.4	1.5	1.2	2.3
16						-	.4	1.2	2.0	.3	.7	1.9
17						-	.3	3.1	2.9	1.1	2.4	1.6
18						-	.4	4.6	3.6	1.0	1.7	1.8
19						-	.3	4.3	3.7	0	.7	1.2
20						-	2.0	1.5	2.0	1.4	1.1	1.1
21						-	1.8	3.0	.2	1.5	0	1.1
22						-	1.7	1.1	2.1	1.8	0	.3
23						-	1.9	1.7	2.7	1.8	0	0
24						-	2.1	2.0	3.1	1.7	.9	0
25						-	2.3	4.1	3.6	1.2	2.4	.1
26						-	2.5	3.2	2.8	1.0	2.7	1.4
27						-	2.8	3.2	2.0	2.1	2.4	.6
28						0.3	3.0	5.1	.2	1.8	3.1	.7
29						.3	3.2	3.3	1.1	1.6	3.1	.7
30						1.6	3.4	2.9	1.9	1.7	3.2	.8
31						1.6	-	1.5	-	2.3	3.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	41.8	3.4	0	1.39	83
May	83.4	5.1	.5	2.69	165
June	73.7	4.2	.2	2.46	146
July	43.6	2.5	0	1.41	86
August	50.3	3.4	0	1.62	100
September	43.6	2.9	0	1.45	86
The period					666

Moises Pena Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°52', long. 105°57', in SW¼ sec. 14, T. 19 N., R. 9 E., 200 feet below head gate and 1¼ miles southeast of Nambe.
Records available.- July to September 1936.
Extremes.- Maximum discharge during period, 3.9 second-feet July 11 (gage height, 0.98 foot); no flow most of time.
Remarks.- Records good. Discharge from rating curve for 1-foot Parshall flume. No flow during period except daily discharge of 0.1 second-foot July 11 and Aug. 20, which were results of freshets on Nambe Creek. Ditch diverts from left bank of Nambe Creek. Water ordinarily used for irrigation but the ditch was not in use during period. No diversions above station.

Mocha Ditch at Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 105°57', near center of sec. 14, T. 19 N., R. 9 E., 800 feet below head gate and 1 mile southeast of Nambe.
Records available.- May to September 1936.
Extremes.- Maximum discharge during period, 4.5 second-feet July 15 (gage height, 1.05 feet); no flow at times.
Remarks.- Records good. Discharge determined from rating curve for standard 1-foot Parshall flume, checked by discharge measurements. Mocha Ditch diverts from right bank of Nambe Creek, and the water used for irrigation on Indian land. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	0	0.5	0.2	0
2								-	0	.4	.2	0
3								-	.8	.2	0	0
4								-	1.0	.7	0	0
5								-	.7	.7	0	0
6								-	.5	.6	0	0
7								-	.6	0	0	.2
8								-	.5	1.1	0	.2
9								-	.3	1.4	0	.1
10								-	.6	1.2	.1	.3
11								-	.4	1.8	.1	.6
12								-	.5	1.3	.1	.5
13								-	.2	.9	.1	.3
14								-	.4	.7	0	.3
15								-	.5	.3	0	.4
16								-	.5	0	.5	.4
17								-	.3	0	.6	.3
18								-	.9	.3	.2	.5
19								-	.9	.4	.1	.7
20								-	.6	0	.1	.7
21								-	1.0	0	.1	.1
22								-	1.2	0	0	.1
23								-	.7	0	0	0
24								-	.7	0	0	0
25								-	0	.4	0	0
26								0.5	.4	.1	0	.1
27								.1	0	.2	0	.1
28								0	.2	.7	0	0
29								.5	.4	.2	0	0
30								.8	.5	0	0	0
31								.4	-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 26-31	2.3	0.8	0	0.38	4.6
June	15.3	1.2	0	.51	30
July	14.1	1.8	0	.45	28
August	2.4	.6	0	.08	4.8
September	5.9	.7	0	.20	12
The period					79

Comunidad Ditch at Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 105°58', in NW¼ sec. 14, T. 19 N., R. 9 E., 400 feet below head gate and half a mile south of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 14 second-feet Aug. 20 (gage height, 1.43 feet); no flow at times.

Remarks.- Records good except those for Sept. 9-12, computed on basis of gage-height record, knowledge of local conditions, and discharge measurement on Sept. 15, which are fair. Discharge determined from rating curve for standard 2-foot Parshall flume. Comunidad Ditch diverts from right bank of Nambe Creek, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	0.5	2.6	1.7	0.7	0.7	2.4
2						-	.5	3.9	4.0	1.0	.3	2.4
3						-	1.3	2.8	3.4	.9	1.7	1.7
4						-	1.2	2.3	2.8	.2	1.6	1.0
5						-	0	.7	3.7	0	2.2	1.8
6						-	0	1.5	4.8	1.1	2.0	2.0
7						-	.4	.7	3.1	1.1	1.6	1.1
8						-	.6	.3	2.8	.4	1.5	1.6
9						-	.7	.4	2.4	1.4	.1	.6
10						-	.6	.3	1.7	1.1	1.6	.7
11						-	.6	.4	3.5	2.5	2.0	0
12						-	.2	.3	2.6	0	2.7	.4
13						-	1.1	.4	2.8	0	2.6	1.3
14						-	1.3	.3	0	.9	2.2	1.0
15						-	1.5	2.0	1.9	1.8	.8	.6
16						-	1.2	2.6	2.0	1.9	0	.8
17						-	2.3	2.6	1.5	1.4	1.0	.3
18						-	2.1	4.7	1.3	.4	1.0	.6
19						-	1.6	3.0	1.2	0	1.9	.4
20						-	2.5	3.6	.6	1.6	1.4	.6
21						-	1.9	1.7	.5	1.2	0	1.8
22						-	3.2	3.3	1.2	1.6	1.1	.3
23						-	3.6	3.3	.8	1.3	1.7	0
24						-	2.2	.4	2.5	.9	2.1	0
25						-	2.0	3.7	2.0	.4	1.4	0
26						-	2.4	3.6	1.6	.1	1.3	0
27						-	2.4	3.4	1.2	.9	1.3	0
28						0.2	2.7	3.3	.6	1.8	2.4	0
29						1.0	3.2	4.5	1.3	1.2	1.5	0
30						.8	3.2	5.1	1.1	1.3	0	0
31						.8	-	2.6	-	1.4	1.1	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April	47.0	3.6	0	1.57	93
May	70.3	5.1	.3	2.27	139
June	60.6	4.8	0	2.02	120
July	30.5	2.5	0	0.98	60
August	42.8	2.7	0	1.38	85
September	23.4	2.4	0	.78	46
The period					543

Ortiz Ditch at Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 105°58', in SE¼ sec. 10, T. 19 N., R. 9 E., 400 feet below head gate and half a mile northwest of Nambe.

Records available.- February to September 1936.

Extremes.- Maximum discharge during period, 9.7 second-feet Aug. 20 (gage height, 1.14 feet); no flow at times.

Remarks.- Records good. Discharge interpolated Mar. 23-27, July 5, 6. Discharge determined from rating curve for standard 2-foot Parshall flume. Ortiz Ditch diverts from right bank of Nambe Creek, and the water is used for irrigation. About 5 acres irrigated above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	0	0.8	2.0	2.1	0.7	0.6	1.4
2					-	.1	.6	1.5	2.4	2.0	0	.9
3					-	.3	.4	1.3	1.8	1.2	.2	.7
4					-	.3	.1	2.0	1.7	.8	.3	1.4
5					-	.2	.1	2.5	1.7	.8	.5	1.0
6					-	.2	.7	2.4	1.7	.8	.7	1.0
7					-	.2	.4	1.6	1.2	.8	1.0	.7
8					-	.1	.7	2.1	2.3	.8	.5	2.7
9					-	0	.8	1.9	2.0	1.5	.5	1.7
10					-	0	.3	1.9	2.2	1.1	.8	1.3
11					-	.2	.5	1.6	1.9	2.2	1.4	.8
12					-	.4	1.7	1.5	1.2	.7	.9	.5
13					-	.3	1.6	1.4	.8	1.0	.5	.5
14					-	.3	1.5	1.4	.7	1.0	.8	.4
15					-	.2	1.5	1.8	1.3	.9	.8	.6
16					-	.3	1.1	2.1	.9	1.1	.9	.3
17					-	.3	1.4	2.1	1.0	2.2	.9	.2
18					-	.4	1.3	2.2	1.2	1.0	.7	.1
19					-	.4	1.2	2.7	1.0	.5	.6	.3
20					-	.5	1.8	3.2	.7	1.0	.8	.3
21					-	.4	1.7	2.9	.9	1.0	.2	.2
22					-	.2	1.7	2.7	1.0	.7	0	.1
23					-	.2	1.2	2.6	.6	.5	0	0
24					-	.2	1.4	1.2	.6	.7	.6	.1
25					-	.2	1.8	1.9	.5	.7	2.0	.1
26					-	.2	1.0	1.6	.7	.4	1.1	.2
27					0	.2	2.1	.7	1.1	.5	1.4	0
28					0	.2	2.5	1.6	.8	.7	.6	.1
29					0	.1	2.6	1.5	1.3	.3	1.5	0
30					-	.5	1.7	1.8	.8	.5	.9	.1
31					-	.3	-	.5	-	.8	1.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	7.4	0.5	0	0.24	15
April	36.2	2.6	.1	1.21	72
May	58.2	3.2	.5	1.88	115
June	38.1	2.4	.5	1.27	76
July	29.0	2.2	.3	.94	58
August	22.9	2.0	0	.74	45
September	17.7	2.7	0	.59	35
The period					416

Canyon Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°54', long. 105°59', in NW¼ sec. 10, T. 19 N., R. 9 E., 600 feet below head gate and 1½ miles west of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 14 second-feet Aug. 20 (gage height, 1.43 feet); no flow at times.

Remarks.- Records good. Discharge determined from rating curve for standard 2-foot Parshall flume. Ditch diverts from right bank of Nambe Creek, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	1.7	1.8	2.6	0.6	1.4	0
2						-	.9	1.4	2.5	.4	.1	.8
3						-	1.4	1.2	2.1	.4	.9	1.6
4						-	1.7	2.8	2.6	1.0	2.6	1.5
5						0.5	1.6	3.8	2.0	0	2.7	1.3
6						.3	1.6	2.9	1.1	.4	2.4	.2
7						0	1.7	2.7	.1	.3	2.5	2.0
8						0	1.8	1.3	1.0	.5	2.0	1.7
9						.6	2.1	1.4	1.4	.8	1.2	1.1
10						1.5	2.1	1.4	1.4	.7	1.2	1.0
11						1.4	2.2	2.2	2.8	1.6	2.4	1.1
12						1.5	2.5	2.5	2.3	.6	2.3	1.9
13						1.8	1.3	2.3	1.7	1.4	1.9	2.3
14						1.7	.8	2.3	.1	.6	.8	1.0
15						1.6	.6	2.0	.3	.9	.8	.1
16						1.5	.9	1.1	1.8	1.4	.2	.4
17						1.6	.7	2.3	1.3	1.6	.5	1.5
18						1.3	.9	1.0	1.0	1.0	1.5	1.3
19						1.0	.5	1.4	.7	.1	1.7	.1
20						.4	.4	2.6	1.1	.4	1.7	.1
21						.4	.4	2.6	.7	.8	.1	.3
22						1.2	1.0	1.5	.6	.8	0	.2
23						1.2	1.0	2.5	1.0	.6	.1	.1
24						.8	2.0	3.4	1.3	.4	.1	.1
25						.6	2.6	2.7	1.1	.6	.5	.1
26						.4	.8	2.2	.9	.4	.8	.2
27						.5	2.2	1.3	.5	.9	1.4	.2
28						1.2	3.3	1.0	0	1.5	1.5	.2
29						2.1	3.8	3.0	.6	1.5	0	.2
30						1.3	2.4	1.4	1.3	1.0	0	.2
31						1.9	-	.9	-	1.0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 5-31	28.3	2.1	0	1.05	56
April	46.9	3.8	.4	1.56	93
May	62.9	3.8	.9	2.03	125
June	37.9	2.8	0	1.26	75
July	24.2	1.6	0	.78	48
August	35.3	2.7	0	1.14	70
September	22.8	2.3	0	.76	45
The period					512

Acequia Rincon near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 105°59', in SE¼ sec. 9, T. 19 N., R. 9 E., 400 feet below head gate and 1¾ miles west of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 9.0 second-feet Apr. 17 (gage height, 0.79 feet); no flow at times.

Remarks.- Records good. Record for Sept. 25-30 computed on basis of partial gage-height record and knowledge of local conditions. Discharge determined from rating curve for a standard 3-foot Parshall flume. Acequia Rincon diverts from left bank of Nambe Creek, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	2.2	1.2	1.8	0.7	0.9	1.9
2						-	1.6	.7	2.6	.5	0	1.3
3						-	.7	2.3	1.8	.7	1.1	1.4
4						-	1.5	2.7	1.9	.6	.1	1.7
5						-	1.3	2.1	3.2	0	0	1.5
6						-	0	1.7	2.6	.4	.8	.1
7						-	0	1.9	.1	.4	1.6	1.1
8						-	0	1.6	1.6	.6	1.5	2.2
9						-	0	.6	2.4	1.0	.1	2.2
10						-	0	.8	2.1	.9	1.3	2.1
11						-	0	3.0	1.7	1.4	1.1	1.2
12						-	0	2.3	1.9	.1	1.5	0
13						-	.8	1.5	1.7	1.1	1.5	0
14						-	5.1	3.1	.6	.7	1.2	.6
15						-	4.8	.5	.4	1.2	1.1	2.0
16						-	3.0	2.2	1.2	1.2	.1	2.0
17						-	3.7	2.3	.9	1.9	.2	2.2
18						-	2.6	2.9	.8	.8	.6	.8
19						-	3.8	4.2	1.0	0	.4	0
20						-	2.4	3.9	1.2	.6	.4	0
21						-	2.5	3.4	0	1.6	0	.6
22						-	2.9	3.0	.3	1.2	0	.2
23						-	1.7	3.6	1.4	.7	0	0
24						-	1.7	1.4	1.9	.2	.2	0
25						-	1.6	3.0	.9	.4	1.0	0
26						-	2.7	3.4	.8	0	1.4	0
27						3.2	2.0	3.4	.6	.9	1.2	0
28						1.6	2.6	1.8	0	1.9	.5	0
29						1.3	2.7	4.1	1.0	2.6	0	0
30						.7	1.9	4.3	.8	1.4	0	0
31						2.1	-	.5	-	1.0	1.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	8.9	3.2	0.7	1.78	18
April	55.8	5.1	0	1.86	111
May	73.4	4.3	.5	2.37	146
June	39.2	3.2	0	1.31	78
July	26.7	2.6	0	.86	53
August	21.0	1.6	0	.68	42
September	25.1	2.2	0	.84	50
The period					498

Las Joyas Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 106°0', in NW¼ sec. 9, T. 19 N., R. 9 E., 1,000 feet below head gate and 2¼ miles west of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 13 second-feet Apr. 23, maximum gage height, 1.13 feet June 11; no flow at times.

Remarks.- Records fair except those for June 27 to July 6, Aug. 9-12, 27, Aug. 29 to Sept. 14, which were estimated on basis of study of loss and gain in Nambe Creek and are poor. Ditch diverts from right bank of Nambe Creek, and the water is used for irrigation of Spanish-American lands. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	0.3	2.4	2.4	0.8	1.2	2.0
2						-	1.6	3.0	2.4	.8	0	2.0
3						-	2.2	.7	1.7	.8	1.3	1.5
4						-	.2	1.7	2.3	.8	5.0	2.6
5						-	2.5	4.8	1.5	.5	3.2	1.8
6						-	0	4.3	1.1	.6	1.8	0
7						-	0	5.6	1.0	.6	2.0	2.0
8						-	0	3.7	1.6	.8	2.4	.7
9						-	0	2.4	2.9	1.1	.7	1.2
10						-	0	0	3.0	1.0	1.5	1.0
11						-	0	4.3	4.0	2.2	2.0	2.0
12						-	0	5.5	4.1	.7	2.0	.2
13						-	.2	4.8	2.4	2.0	2.0	0
14						-	1.1	5.2	.6	2.5	1.7	.5
15						-	1.3	6.1	1.2	1.0	1.7	1.3
16						-	1.6	6.1	1.6	0	.5	1.2
17						-	1.4	3.6	1.1	.8	1.7	.8
18						-	1.8	3.4	.7	2.0	2.3	.7
19						-	0	3.3	.8	2.8	1.2	.4
20						-	1.9	6.7	.8	1.4	2.3	1.6
21						-	2.2	3.3	.3	1.4	0	.9
22						-	2.8	3.4	.4	1.6	0	1.0
23						-	6.3	2.0	1.7	1.4	0	.1
24						-	3.0	1.3	1.9	.9	1.1	0
25						-	.2	1.1	1.5	.8	1.6	0
26						-	1.0	1.0	1.1	.6	1.2	.1
27						0	.7	1.6	.8	.9	1.3	.7
28						0	.6	.8	.5	3.0	1.4	0
29						0	.9	.7	1.0	2.3	1.0	0
30						.2	2.3	.5	.8	1.6	0	0
31						.2	-	1.2	-	1.6	1.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 27-31	0.4	0.2	0	0.08	0.8
April	36.1	6.3	0	1.20	72
May	94.5	6.7	0	3.05	187
June	47.2	4.1	.3	1.57	94
July	39.3	3.0	0	1.27	78
August	45.1	5.0	0	1.45	89
September	26.3	2.6	0	.88	52
The period					573

Barranco Alto Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 106°1', in NW¼ sec. 8, T. 19 N., R. 9 E., 400 feet below the head gate, a quarter of a mile above highway bridge at Pojoaque, and 3 miles west of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 6.1 second-feet Aug. 28 (gage height, 1.31 feet); no flow at times.

Remarks.- Records good. Discharge determined from rating curve for standard 1-foot Parshall flume. Ditch diverts from left bank of Nambe Creek 300 feet above station on Nambe Creek at Pojoaque Bridge. Water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							1.0	0	0.8	0.7	0.4	0
2							.7	.4	.9	.6	0	0
3							.8	0	.9	.5	0	0
4							.5	.6	.8	.5	0	0
5							0	.7	1.0	0	.2	0
6							0	.7	.9	.4	.6	0
7							0	.6	.6	.5	.5	.1
8							0	1.1	.8	.5	.5	.6
9							0	0	.7	.7	.1	1.0
10							0	0	.5	.5	1.1	.5
11							0	0	.5	.9	1.2	.5
12							0	0	.6	0	.9	.3
13							0	.1	.3	.9	.7	.4
14							.2	.2	0	.8	.6	.5
15							.1	.2	.6	.6	.3	.9
16							.4	.6	.6	0	.2	.8
17							.4	0	.6	.8	.6	.9
18							.4	.2	.2	.9	.8	.8
19							0	.2	.4	0	1.0	0
20							.5	.1	.4	.4	.8	0
21							.3	0	0	.8	0	.4
22							.5	0	.6	.7	0	.2
23							.5	.7	.8	.7	0	0
24							.6	.6	.8	.8	0	0
25							.4	.8	.5	.6	.3	.6
26							.2	1.4	.5	0	.5	.4
27							.9	.9	.4	.6	.7	0
28							.9	1.2	0	.6	.4	0
29							.5	.9	.6	.4	0	0
30							.8	.8	.5	.8	0	.5
31						0.1	-	0	-	.5	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	10.6	1.0	0	0.35	21
May	13.0	1.4	0	.42	26
June	16.8	1.0	0	.56	33
July	16.7	.9	0	.54	33
August	12.4	1.2	0	.40	25
September	9.4	1.0	0	.31	19
The period					157

Trujillo Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 106°1', in NW¼ sec. 8, T. 19 N., R. 9 E., 600 feet below head gate and 3½ miles west of Nambe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 7.3 second-feet Aug. 20 (gage height, 0.94 foot); no flow at times.

Remarks.- Records good. Discharge determined from rating curve for standard 2-foot Parshall flume. Ditch diverts from right bank of Nambe Creek, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	0.4	0.5	0.2	0.5	0.4	0
2						-	.2	1.1	.5	.5	0	0
3						-	0	.8	.3	.6	0	0
4						-	.4	.7	.6	.5	0	0
5						-	.6	1.6	1.3	0	0	.3
6						-	1.7	.6	1.4	.5	0	0
7						-	1.3	1.1	.6	.6	0	.7
8						-	1.3	0	.9	.6	.3	0
9						-	1.5	0	.8	.6	0	.2
10						-	1.4	0	.8	.6	.1	.6
11						-	1.2	1.0	.9	.7	.2	.5
12						-	1.6	.6	.8	.2	0	.1
13						-	2.2	1.1	.6	.3	.2	.2
14						-	1.2	1.9	.1	.3	.3	.1
15						-	.9	2.1	1.0	.3	.5	.1
16						-	1.2	1.6	1.1	0	.2	.5
17						-	1.1	.3	1.6	0	.6	.6
18						-	1.2	.4	1.0	0	.6	.5
19						-	1.3	.9	.9	0	.4	0
20						-	1.1	1.0	1.0	.2	.2	0
21						-	.9	.9	.7	.4	0	0
22						-	.9	.6	.6	.4	.2	0
23						-	1.2	.9	.7	.4	.3	0
24						-	1.3	0	.7	.5	.9	0
25						-	1.4	1.1	.8	.3	.5	0
26						-	1.5	2.2	.7	0	.6	0
27						0.5	1.5	1.4	.6	.4	.6	0
28						1.1	1.7	1.4	.1	.5	.2	0
29						1.4	1.9	.1	.6	.5	0	0
30						.4	1.6	.4	.7	.6	0	0
31						.2	-	.3	-	.4	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	3.6	1.4	0.2	0.72	7.1
April	35.7	2.2	0	1.19	71
May	26.6	2.2	0	.86	53
June	22.6	1.6	.1	.75	45
July	11.4	.7	0	.37	23
August	7.3	.9	0	.24	14
September	4.4	.7	0	.15	8.7
The period					222

Jacona Ditch near Nambe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°54', long. 106°2', in NW¼ sec. 7, T. 19 N., R. 9 E., 600 feet above Rio Tesuque crossing, half a mile below head gate, and 4 miles west of Nambe.

Records available.- April to September 1936.

Extremes.- Maximum discharge during year, 7.3 second-feet Aug. 20; maximum gage height, 1.02 feet July 15; minimum daily discharge, 0.3 second-foot at times.

Remarks.- Records good except those interpolated Apr. 14-19, those for Aug. 23 to Sept. 15, Sept. 17, 18, 26-28, estimated on basis of knowledge of local conditions, and those for May 23 to Aug. 13, which are poor. Ditch diverts from left bank of Nambe Creek and water is used for irrigation. Records include some seepage water. Jacona Ditch receives some seepage water and some flow from Rio Tesuque below station. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	2.2	1.7	0.5	0.7	0.4
2							-	1.6	1.7	.4	.3	.4
3							-	2.0	1.9	.4	.4	.4
4							-	1.1	1.7	.6	.4	.4
5							-	1.4	.7	1.3	.4	.4
6							-	2.1	.6	.7	1.4	.4
7							-	1.5	.9	.4	2.1	.4
8							-	.7	.6	.4	1.8	.4
9							-	.3	.5	.4	1.5	.4
10							-	.6	.6	.4	1.7	.4
11							2.1	1.9	.6	.8	1.6	.4
12							2.4	1.3	.7	.3	.7	.4
13							2.5	1.4	.5	.3	.5	.4
14							2.5	1.5	.6	.4	.6	.4
15							2.5	1.1	1.1	1.0	.9	.4
16							2.5	.4	.5	.4	2.6	.4
17							2.6	1.5	.6	.3	.8	.4
18							2.6	1.5	.5	.3	.6	.4
19							2.6	1.6	.6	.3	2.0	.4
20							2.6	.6	.6	.5	.9	.4
21							2.5	2.4	1.7	.5	.4	.5
22							1.6	2.7	.6	.5	1.4	.5
23							1.4	2.6	.4	.4	.4	.5
24							1.6	3.1	.5	.4	.4	.4
25							2.5	2.4	.6	.3	.4	.4
26							3.0	3.4	.5	.4	.4	.4
27							1.9	3.6	.4	.8	.4	.4
28							1.3	1.7	.4	1.3	1.0	.5
29							1.8	1.5	.7	.7	.4	.5
30							1.6	2.6	.6	.6	.4	.5
31							-	1.0	-	.7	.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 11-30	44.1	3.0	1.3	2.20	87
May	53.3	3.6	.3	1.72	106
June	23.6	1.9	.4	.79	47
July	16.7	1.3	.3	.54	33
August	27.9	2.6	.3	.90	55
September	12.6	.5	.4	.42	25
The period					353

Rio Tesuque above diversions, near Santa Fe, N. Mex.

Location.- Water-stage recorder, lat. 35°44', long. 105°54', in SE¼ sec. 32, T. 18 N., R. 10 E., 1 mile above mouth of Rito Tesuque and 4 miles northeast of Santa Fe.

Records available.- March to September 1936 in reports of U. S. Geological Survey; May to October 1919 in reports of State engineer (at site 175 feet downstream).

Extremes.- Maximum discharge during period, by slope-area method, about 370 second-feet Sept. 7 (gage height, 4.0 feet, from floodmarks); minimum daily discharge, 0.8 second-foot Sept. 10.

Remarks.- Records fair except those for July 19-23, Sept. 7, 8, computed on basis of partly estimated gage heights and knowledge of local conditions, and the maximum, which are poor. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	2.3	6.1	6.6	2.3	1.2	1.8
2						-	1.8	6.1	6.1	2.5	1.6	1.6
3						-	2.5	6.6	6.1	2.3	4.0	1.6
4						-	2.5	6.6	5.7	2.0	4.0	1.4
5						-	2.3	7.0	5.7	1.8	2.9	1.2
6						-	2.0	7.4	5.3	1.8	2.7	1.2
7						-	1.8	7.4	4.8	1.4	2.9	14
8						-	2.3	7.4	4.8	1.2	3.6	1.6
9						-	2.5	7.0	4.4	1.8	3.2	1.4
10						-	2.7	7.0	4.0	2.3	3.2	.8
11						-	3.2	7.0	4.0	2.7	4.0	1.6
12						-	4.8	6.6	3.2	1.8	4.0	1.6
13						-	6.1	6.1	3.2	1.4	3.6	1.6
14						-	7.0	6.1	3.2	1.4	3.2	1.6
15						-	8.1	6.1	3.2	1.6	3.6	1.6
16						-	7.4	6.1	3.2	2.0	3.2	1.6
17						-	7.4	6.6	2.9	2.0	2.9	1.6
18						-	6.6	7.0	2.7	1.4	2.7	1.8
19						-	6.6	7.0	2.5	1.4	2.7	2.3
20						2.7	6.1	7.4	2.7	1.4	4.4	2.3
21						2.7	6.1	7.4	2.3	1.2	2.7	2.5
22						2.9	6.1	8.7	2.5	1.0	2.5	3.2
23						2.3	6.6	8.7	2.5	.9	2.5	2.0
24						2.3	7.0	8.7	2.7	1.0	2.0	1.6
25						2.7	7.0	8.7	2.7	.9	2.0	2.0
26						2.5	7.0	9.4	2.5	.9	2.0	2.0
27						3.2	6.6	7.4	2.3	1.2	2.0	2.7
28						2.7	6.1	7.0	2.3	1.8	2.5	2.5
29						2.5	6.1	6.6	2.3	1.2	2.0	2.7
30						2.3	6.6	6.6	2.0	1.4	2.0	2.3
31						2.5	-	6.6	-	1.6	1.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March 20-31	31.3	3.2	2.3	2.61	62
April	151.2	8.1	1.8	5.04	300
May	220.4	9.4	6.1	7.11	437
June	108.4	6.6	2.0	3.61	215
July	49.6	2.7	.9	1.60	98
August	87.6	4.4	1.2	2.83	174
September	67.7	14	.8	2.26	134
The period					1,420

Rio Tesuque at Tesuque Bridge, near Santa Fe, N. Mex.

Location.- Water-stage recorder, lat. 35°45', long. 105°56', in SE¼ sec. 25, T. 18 N., R. 9 E., at bridge on U. S. Highways 64 and 285 at Tesuque, 800 feet below head gate of Acequia Medio, 1½ miles below mouth of Rito Tesuque, and 5 miles north of Santa Fe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, by slope-area method, about 660 second-feet Sept. 7 (gage height, 1.62 feet); no flow at times.

Remarks.- Records fair May to July, Sept. 16-30; others poor. Records June 4-11 based on study of gage-height record and knowledge of local conditions. Diversions for irrigation above and below station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	1.0	1.8	1.2	0.3	1.6	0
2						-	1.0	2.1	1.0	.2	1.4	0
3						-	.7	1.8	.6	.2	1.2	0
4						-	.3	2.0	.1	.1	5.9	0
5						-	.5	2.0	.1	.2	1.4	0
6						-	.3	1.8	.1	.3	.4	0
7						-	.2	2.0	.1	.3	.3	12
8						-	.2	2.7	.1	.3	.3	1.8
9						-	.3	2.9	.1	.3	.3	.6
10						-	.3	3.3	.1	.3	.2	.3
11						-	.3	4.6	.1	.4	.1	1.2
12						-	.3	3.3	.1	.1	.1	.6
13						-	.3	2.1	.1	.1	.1	.4
14						-	1.0	2.0	.1	.1	.1	.3
15						-	1.8	2.0	.1	.1	.1	.2
16						-	2.9	2.3	.1	.1	0	.1
17						-	3.8	2.3	.1	.1	0	.1
18						-	3.8	2.3	.1	.1	0	.1
19						-	12	2.5	.1	.1	0	.1
20						-	5.0	2.3	.1	.1	.1	.1
21						-	2.3	2.3	.1	.1	.1	.1
22						-	2.5	2.3	.1	.1	0	12
23						-	2.9	2.3	.1	.1	.1	6.8
24						-	2.5	2.3	.2	.1	0	4.6
25						-	2.0	2.5	.4	.1	0	4.6
26						-	1.6	2.7	.3	.1	0	12
27						-	1.6	2.5	.3	.1	0	5.5
28						0.8	1.6	2.5	.1	.1	0	3.8
29						.6	1.8	2.0	.2	.1	0	3.8
30						.7	1.8	1.6	.3	1.4	0	3.8
31						.7	-	1.2	-	2.3	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	56.6	12	0.2	1.89	112
May	72.3	4.6	1.2	2.33	143
June	6.6	1.2	.1	.22	13
July	8.4	2.3	.1	.27	17
August	13.8	5.9	0	.45	27
September	74.9	12	0	2.50	149
The period					461

Rito Tesuque near Santa Fe, N. Mex.

Location.- Water-stage recorder, lat. 35°44', long. 105°53', in sec. 4, T. 17 N., R. 10 E., 0.9 mile below Santa Fe National Forest boundary, 2½ miles above mouth, and 5 miles northeast of Santa Fe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, by slope-area method, about 45 second-feet Sept. 7 (gage height, 2.58 feet, backwater from rock slide); no flow at times.

Remarks.- Records good except those for July 31, Aug. 1-13, 16-28, which were computed on basis of records for Rio Tesuque above diversions near Santa Fe, those for Sept. 7-17, and the maximum, which are poor. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0.9	2.2	0.6	0	0.2	0.4
2							1.0	2.0	.6	0	.2	.3
3							.9	2.0	.6	0	.6	.3
4							.9	1.8	.5	0	.6	.3
5							1.0	1.8	.5	0	.4	.2
6							.8	1.6	.5	0	.4	.2
7							.8	2.0	.4	0	.4	1.7
8							.8	2.2	.3	0	.5	.3
9							1.0	2.0	.3	.1	.5	.4
10							1.0	1.8	.3	.1	.5	.4
11							1.0	1.6	.4	.2	.7	2.4
12							1.3	1.5	.3	.1	.7	.8
13							1.6	1.3	.3	.1	.6	.6
14							2.0	1.3	.3	.1	.6	.4
15							2.4	1.3	.3	.2	.7	.5
16							2.6	1.3	.3	.2	.6	.5
17							2.9	1.3	.3	.2	.6	.4
18							3.1	1.3	.2	.2	.6	.4
19							3.4	1.3	.2	.3	.6	.4
20							3.4	1.5	.2	.2	.8	.4
21							3.4	1.3	.2	.2	.6	.5
22							3.4	1.2	.2	.2	.6	1.0
23							3.4	1.2	.1	.1	.6	.6
24							3.4	1.0	.1	.1	.5	.5
25							3.1	1.0	.1	.1	.5	.5
26							3.4	1.2	0	.1	.5	1.4
27							2.9	.9	0	.1	.5	1.5
28							2.6	.8	0	0	.7	1.3
29							2.6	.6	0	0	.6	1.5
30							2.4	.7	0	.2	.5	1.6
31						0.9	-	.8	-	.2	.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year 1935					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	63.4	3.4	0.8	2.11	126
May	43.8	2.2	.6	1.41	87
June	8.1	.6	0	.27	16
July	3.3	.3	0	.11	6.5
August	16.9	.8	.2	.55	34
September	21.7	2.4	.2	.72	43
The period					312

Cajon Grande Ditch near Santa Fe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°44', long. 105°54' in SE¼ sec. 32, T. 18 N., R. 10 E., 450 feet below head gate and 4 miles northeast of Santa Fe.

Records available.- March to September 1936.

Extremes.- Maximum discharge during period, 6.2 second-feet Sept. 7 (gage height, 1.33 feet); no flow Sept. 8-17.

Remarks.- Records good except those for May 14-28, which are fair. Discharge interpolated May 25-27. Discharge determined from rating curve for standard 1-foot Parshall flume. Ditch diverts from right bank of Rio Tesuque 500 feet below station above diversions near Santa Fe, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	0.2	1.0	0.6	1.0	0.8	0.9
2						-	.3	1.1	.6	.8	.9	.8
3						-	.2	1.1	.6	.1	1.2	.8
4						-	.2	1.2	.6	.7	1.2	.7
5						-	.2	1.1	.6	.8	1.0	.7
6						-	.2	1.1	.6	1.0	.9	.7
7						-	.4	1.1	.8	.9	.9	.6
8						-	.5	1.4	.8	.7	1.0	0
9						-	.5	1.3	.7	.3	.9	0
10						-	.6	1.2	.7	.1	.9	0
11						-	.8	1.0	.7	.1	.9	0
12						-	1.1	.8	.6	.1	.8	0
13						-	1.3	.7	.8	.2	.8	0
14						-	1.2	.8	.9	.9	.8	0
15						-	1.4	.9	.9	1.0	.8	0
16						-	1.5	.8	.8	1.2	.7	0
17						-	1.1	.8	.7	1.2	.7	0
18						-	1.2	1.0	.6	1.0	.7	.3
19						-	1.2	1.1	.6	1.0	.7	.8
20						-	1.2	1.2	.6	1.0	.8	.7
21						-	1.1	1.2	.5	1.0	.5	.8
22						-	1.0	.9	.9	1.1	.4	.7
23						-	1.1	.6	1.0	.9	.3	.3
24						-	1.1	.8	.9	.8	.3	.8
25						-	1.1	.8	.9	.8	.2	.7
26						-	1.1	.8	.9	.8	.6	.8
27						-	1.0	.8	.8	.8	.8	.3
28						0.2	1.0	.8	.8	1.0	1.1	.2
29						.2	1.0	.8	.9	.9	1.0	.2
30						.2	1.0	.7	1.0	.9	1.0	.2
31						.3	-	.7	-	.9	1.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	25.8	1.5	0.2	0.86	51
May	29.6	1.4	.6	.95	59
June	22.4	1.0	.5	.75	44
July	24.0	1.2	.1	.77	48
August	24.6	1.2	.2	.79	49
September	12.0	.9	0	.40	24
The period					275

De La Cruz Ditch near Santa Fe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°44', long. 105°55', in SW¼ sec. 32, T. 18 N., R. 10 E., 150 feet below head gate and 4 miles northeast of Santa Fe.

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, 2.1 second-feet Aug. 2 (gage height, 0.71 foot); no flow at times.

Remarks.- Records good. Discharge determined from standard rating for 1-foot Parshall flume. Record for June 11 interpolated. Ditch diverts from left bank of Rio Tesuque, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	0	0.4	0.2
2									-	0	.9	.2
3									-	0	.5	.2
4									-	.5	.2	.2
5									-	.5	0	.1
6									-	.2	0	.2
7									-	0	.3	.2
8									1.0	0	.6	.1
9									1.0	.3	.6	.1
10									1.0	.4	.6	.1
11									1.2	.2	.6	.2
12									1.3	.4	.6	0
13									1.4	.2	.6	0
14									1.5	0	.5	0
15									1.1	0	.9	0
16									1.0	.1	1.3	0
17									.9	.1	1.2	.1
18									.9	.6	1.1	.3
19									.9	.8	.7	.3
20									.8	.2	.6	.2
21									.6	0	.4	.1
22									.6	0	.3	.1
23									.5	0	.3	0
24									.4	0	.5	0
25									.5	.4	.4	0
26									.5	.7	.3	.1
27									.5	.2	.2	0
28									.4	0	.5	0
29									.1	0	.4	0
30									0	0	.3	0
31									-	0	.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 8-30	18.1	1.5	0	0.79	36
July	5.8	.8	0	.19	12
August	16.0	1.3	0	.52	32
September	3.0	.3	0	.01	6.0
The period					86.0

Acequia Madre at head, near Santa Fe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°44', long. 105°55', in SE¼ sec. 31, T. 18 N., R. 10 E., 350 feet below head gate and 4 miles northeast of Santa Fe.

Records available.- April to September 1936.

Extremes.- Maximum discharge during period, 6.2 second-feet Sept. 7 (gage height, 0.83 foot); no flow at times.

Remarks.- Records good. Discharge Apr. 1-10 estimated on basis of knowledge of local conditions. Acequia diverts from right bank of Rio Tesuque, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	1.7	3.4	0.6	0.3	0.5
2							0	1.8	3.5	.8	.2	.5
3							0	1.9	3.6	1.4	2.0	.6
4							0	2.0	3.4	.3	1.3	.5
5							0	2.2	3.4	0	.9	.5
6							0	2.6	3.2	.2	.9	.4
7							0	2.7	2.7	.2	1.6	.4
8							0	2.3	2.4	.4	1.7	0
9							0	1.9	2.3	1.2	1.5	0
10							0	.3	2.4	1.5	1.5	0
11							.4	.4	2.3	1.2	1.7	.3
12							1.6	.9	1.9	.8	1.6	.6
13							1.4	1.7	1.7	1.1	1.3	.6
14							1.4	1.7	1.4	.7	1.2	.7
15							1.3	1.7	1.8	.7	1.1	.5
16							1.0	1.5	1.8	1.0	.8	.6
17							.7	1.6	1.6	1.0	.7	.9
18							.7	1.7	1.4	.2	.6	.6
19							.7	2.0	1.3	0	.8	.7
20							.7	2.2	1.3	.6	1.6	.8
21							1.0	2.8	1.1	.7	1.5	.9
22							1.1	3.2	1.0	.9	1.4	.7
23							1.0	2.9	1.0	.6	1.3	0
24							.5	2.9	1.0	.6	1.0	0
25							.9	3.0	.9	.1	1.0	0
26							1.3	3.2	.8	0	.8	0
27							1.5	3.1	.7	.5	.7	0
28							1.6	2.9	.7	1.0	.6	0
29							1.6	3.3	.6	.7	.4	0
30							1.7	3.8	.6	.9	.6	0
31							-	3.7	-	.9	.6	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	22.1	1.7	0	0.74	44
May	69.6	3.8	.3	2.25	138
June	55.2	3.6	.6	1.84	109
July	20.8	1.5	0	.67	41
August	33.2	2.0	.2	1.07	66
September	11.3	.9	0	.38	22
The period					420

Acequia Madre at waste, near Santa Fe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°46', long. 105°56', in NE¼ sec. 25, T. 18 N., R. 9 E., at end of Acequia Madre and 5½ miles north of Santa Fe.
Records available.- July to September 1936.
Extremes.- Maximum discharge during period, 1.9 second-feet Aug. 10 (gage height, 0.62 foot); no flow at times.
Remarks.- Records fair. Discharge determined from rating curve for 1-foot Parshall flume. No flow during period except mean daily discharges of 0.2, 0.5, 0.1, and 0.5 second-foot July 21, 22, Aug. 3, 10 respectively. Records represent unused water returned to Rio Tesuque from end of Acequia Madre.

Acequia Medio at head, near Santa Fe, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°46', long. 105°56', near east line of sec. 25, T. 18 N., R. 9 E., 350 feet below head gate and 5 miles north of Santa Fe.
Records available.- March to September 1936.
Extremes.- Maximum discharge during period, 4.4 second-feet Sept. 22 (gage height, 1.05 feet); no flow Apr. 1-3, Sept. 8.
Remarks.- Records good except those for Apr. 18, Aug. 25, Sept. 11, 12, 23, 24, computed on basis of partial gage-height record, those for May 10-28, estimated on basis of study of loss and gain on Rio Tesuque, and those interpolated Aug. 21-24, Sept. 27-29, all of which are poor. Discharge determined from rating curve for standard 1-foot Parshall flume. Acequia diverts from right bank of Rio Tesuque about 800 feet above station on Rio Tesuque at Tesuque Bridge, and water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						-	0	2.8	2.0	0.9	1.0	1.1
2						-	0	2.9	1.7	.9	1.1	1.0
3						-	0	2.9	1.5	.9	1.3	1.1
4						-	0.8	3.0	1.6	.9	.8	1.0
5						-	.5	3.1	1.6	.9	.6	1.0
6						-	.9	2.9	1.3	.9	1.0	.9
7						-	1.1	3.1	1.3	.8	.9	.7
8						-	1.2	3.4	1.3	.9	1.1	0
9						-	1.3	3.0	1.2	1.2	.9	.3
10						-	1.4	3.6	1.2	1.4	1.3	.8
11						-	1.5	2.2	1.4	2.0	1.3	.8
12						-	1.3	2.7	1.4	1.4	1.1	.7
13						-	2.2	2.5	1.4	.9	1.2	.7
14						-	1.5	2.5	1.2	.9	1.1	.7
15						-	1.3	2.4	1.2	.9	1.2	.7
16						-	1.2	2.4	1.2	.9	1.3	.8
17						-	1.5	2.8	1.1	.9	1.2	.8
18						-	1.4	2.9	1.0	.9	1.0	.8
19						-	2.1	2.3	1.0	.9	1.1	.8
20						-	2.0	2.8	1.0	.9	1.1	.8
21						-	1.5	2.0	1.0	.9	1.1	.8
22						-	1.8	3.1	1.0	1.0	1.0	.6
23						-	2.6	4.1	1.1	.9	1.0	.1
24						-	1.3	3.3	1.0	.9	.9	.2
25						-	1.8	3.0	1.0	.9	.9	.1
26						-	3.0	3.5	1.0	.9	.9	.5
27						-	2.8	1.5	1.0	.9	.9	.5
28						0.3	1.5	1.3	1.0	.9	1.1	.5
29						.6	1.9	1.1	.9	.9	1.0	.5
30						.4	1.9	1.5	.9	.8	1.0	.5
31						.7	-	2.2	-	.7	1.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April	43.3	3.0	0	1.44	86
May	82.8	4.1	1.1	2.67	164
June	36.5	2.0	.9	1.22	72
July	30.0	2.0	.7	.97	60
August	32.4	1.3	.6	1.05	64
September	19.8	1.1	0	.66	39
The period					485

15873 O—37——14

Acequia Medio at waste near Santa Fe, N. Mex.

Location.- Water-stage recorder, lat. 35°46', long. 105°56', near center of sec. 24, T. 18 N., R. 9 E., at end of Acequia Medio, 6 miles north of Santa Fe.
Records available.- July to September 1936.
Remarks.- No flow during period. Station is below all lateral head gates on Acequia Medio, and flow represents unused water returned to Rio Tesuque.

Mitchell Ditch near Santa Fe, N. Mex.

Location.- Staff gage, lat. 35°46', long. 105°56', near N¼ cor. sec. 25, T. 18 N., R. 9 E., at pipe-line outlet 5½ miles north of Santa Fe.
Records available.- June to September 1936.
Extremes.- Maximum discharge recorded, 0.8 second-foot June 9, 11, 12, Sept. 8; maximum gage height recorded, 0.46 foot Sept. 8; minimum daily discharge recorded, 0.2 second-foot Sept. 23-25.
Remarks.- Records good. Discharge computed by formula for rectangular weir. Records based on once-daily readings. No record for days for which no discharge is shown. Ditch supplied with underground flow from pipe line laid up bed of Rio Tesuque. Water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	0.4	-	-
2									-	-	0.7	-
3									-	-	-	-
4									-	-	.6	-
5									-	-	.7	-
6									-	.4	-	-
7									-	-	-	-
8									-	.4	-	0.8
9									0.8	.4	-	-
10									-	-	.7	-
11									.8	.5	-	-
12									.8	-	-	-
13									-	-	.6	-
14									-	-	-	-
15									-	.4	.5	-
16									-	.4	-	.7
17									-	-	-	-
18									-	.3	-	-
19									-	-	-	-
20									-	.3	-	-
21									-	-	-	-
22									-	-	.5	-
23									-	-	-	.2
24									-	.4	.6	.2
25									-	-	-	.2
26									-	-	-	-
27									-	.3	-	-
28									-	.3	.6	-
29									-	.6	-	-
30									-	.6	-	.3
31									-	.6	-	-

Post Ditch near Tesuque Pueblo, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°47', long. 105°57', in SE¼ sec. 14, T. 18 N., R. 9 E., a quarter of a mile below head gate and 2 miles southeast of Tesuque Pueblo.
Records available.- July to September 1936.
Extremes.- Maximum discharge during period, 6.0 second-feet Sept. 18 (gage height, 1.32 feet); no flow at times.
Remarks.- Records fair. Discharge determined from rating curve for standard 1-foot Parshall flume, used indirectly. Ditch diverts from right bank of Rio Tesuque, and the water is used for irrigation on Tesuque Pueblo land. Small diversion above station.

Daily discharge, in second-feet, 1936

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	-	0	0.1	16	-	0	0
2	-	0	.7	17	-	0	.2
3	-	0	.1	18	-	0	.7
4	-	0	.1	19	-	1.3	0
5	-	0	.1	20	-	1.3	0
6	-	0	.1	21	-	0	0
7	-	0	.2	22	-	.5	.1
8	-	0	0	23	-	.8	0
9	-	.2	0	24	-	.1	0
10	-	0	0	25	-	.1	0
11	-	0	0	26	-	.1	0
12	-	0	0	27	-	.1	0
13	-	0	0	28	-	.1	0
14	-	0	0	29	-	.1	0
15	-	0	0	30	0	.1	0
				31	0	.1	-

Monthly discharge, 1936

Month	Mean (Second-feet)	Run-off (acre-feet)
July	-	-
August	0.16	9.7
September	.08	4.8

Qwiyo Ditch near Tesuque Pueblo, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°47', long. 105°58', in SW¼ sec. 14, T. 18 N., R. 9 E., 400 feet below head gate and 1½ miles southeast of Tesuque Pueblo.
Records available.- July to September 1936.
Extremes.- Maximum discharge during period, about 7.4 second-feet (gage height, 1.95 feet, backwater from trash in flume); no flow at times.
Remarks.- Records fair except those for Aug. 9-18, Sept. 2, 4-7, and the maximum, which are poor. Ditch diverts from right bank of Rio Tesuque, and the water is used for irrigation on Tesuque Pueblo land. No diversions above station.

Daily discharge, in second-feet, 1936

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	-	0.6	0.2	16	-	.9	0
2	-	0	0	17	-	0	0
3	-	0	.1	18	-	0	0
4	-	0	1.1	19	-	0	0
5	-	0	.8	20	-	0	0
6	-	0	.9	21	-	.1	0
7	-	0	.8	22	-	0	0
8	-	0	0	23	-	0	0
9	-	0	0	24	-	0	0
10	-	0	0	25	0.3	.4	0
11	-	0	0	26	.3	.9	0
12	-	0	0	27	1.5	.1	0
13	-	0	0	28	1.0	.3	0
14	-	0	0	29	1.7	.5	0
15	-	.6	0	30	1.9	.5	0
				31	.8	.5	-

Monthly discharge, 1936

Month	Mean (second-feet)	Run-off (acre-feet)
July 25-31	1.07	15
August	.17	11
September	.13	7.7

Corral Ditch at Tesuque Pueblo, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°48', long. 105°58', in NE¼ sec. 15, T. 18 N., R. 9 E., 1,700 feet below head gate and half a mile southeast of Tesuque Pueblo.
Records available.- July to September 1936.
Extremes.- Maximum discharge during period, 3.9 second-feet July 30 (gage height, 0.99 foot); no flow most of time.
Remarks.- Records fair. Discharge determined from rating curve for 1-foot Parshall flume. No flow during period except mean daily discharges of 0.3, 0.3, 0.4, and 0.1 second-foot July 30, 31, Aug. 5, and Sept. 22 respectively. Ditch diverts from left bank of Rio Tesuque. Water is used for irrigation on Tesuque Pueblo Grant. No diversions above station.

Del Barranco Ditch near San Ildefonso, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 106°3', in SW¼ sec. 12, T. 19 N., R. 8 E., 1,800 feet below head gate and 3¾ miles east of San Ildefonso.
Records available.- May to September 1936.
Extremes.- Maximum discharge during period, 8.8 second-feet Aug. 3; maximum gage height, 1.47 feet May 27; no flow July 9, 10.
Remarks.- Records good except those interpolated July 31, Aug. 1, which are fair. Discharge determined from rating curve for standard 1.5-foot Parshall flume. Ditch diverts from left bank of Rio Pojoaque, and the water is used for irrigation. Records include seepage water from drain ditch, mouth of which is 100 feet above station. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	1.4	0.3	0.7	0.5
2								-	.8	.3	.7	.4
3								-	1.2	.3	1.4	.4
4								-	1.0	.4	1.0	.4
5								-	.9	.7	2.1	.5
6								-	1.2	.6	.9	.4
7								-	1.8	.3	1.3	.6
8								-	1.0	.1	.8	.2
9								-	.7	0	.4	.4
10								-	.6	0	.8	.5
11								-	.9	.2	.5	.5
12								-	.9	.4	.5	.5
13								-	.6	.5	.4	.5
14								-	.4	.5	.4	.5
15								-	1.1	1.0	.5	.5
16								-	.7	.6	.5	.6
17								-	.8	.6	.4	.5
18								-	.6	.7	.5	.6
19								-	.3	1.2	1.4	.5
20								-	.6	1.0	1.4	.5
21								-	1.4	.6	.7	.5
22								-	.5	.8	1.3	.5
23								-	.4	.6	.9	.5
24								-	.4	.5	1.2	.5
25								-	.4	.5	1.0	.5
26								3.1	.3	.5	.8	.6
27								2.6	.3	.7	.9	.8
28								2.9	.3	.5	1.0	.6
29								1.8	.4	.5	.4	.5
30								1.4	.4	.6	.5	.5
31								.6	-	.6	.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 26-31	12.4	3.1	0.6	2.07	25
June	22.3	1.8	.3	.74	44
July	16.1	1.2	0	.52	32
August	25.8	2.1	.4	.83	51
September	15.0	.8	.2	.50	30
The period					182

De La Otra Banda Ditch near San Ildefonso, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°54', long. 106°4', near center of sec. 11, T. 19 N., R. 8 E., 2,000 feet below head gate, and 3 miles east of San Ildefonso.

Records available.- May to September 1936.

Extremes.- Maximum discharge during period, 14 second-feet July 27 (gage height, 1.43 feet); no flow at times.

Remarks.- Records good. Discharge determined from rating curve for standard 2-foot Parshall flume. Ditch diverts from right bank of Rio Pojoaque, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	1.5	0	0.1	0
2								-	1.5	0	1.7	0
3								-	1.1	0	1.7	0
4								-	0	0	1.6	0
5								-	.3	.4	1.0	0
6								-	0	.4	.9	0
7								-	2.6	0	.4	0
8								-	.9	0	.1	0
9								-	0	0	0	.1
10								-	0	0	0	0
11								-	0	1.0	0	.3
12								-	0	0	0	1.7
13								-	0	.3	0	1.2
14								-	.6	1.0	0	1.7
15								-	0	.1	0	.1
16								-	0	.1	1.1	.2
17								-	0	.6	.4	.1
18								-	0	.4	.1	.1
19								-	0	1.2	1.0	0
20								-	0	.7	.8	0
21								-	1.0	.1	.7	0
22								-	.2	0	1.9	0
23								-	0	0	1.2	0
24								-	0	0	1.0	0
25								-	0	0	.1	0
26								0.6	0	0	0	0
27								1.5	0	.1	.2	0
28								1.1	.4	.5	1.4	0
29								1.1	.1	1.0	.7	0
30								1.0	0	.3	.1	0
31								2.7	-	.3	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 26-31	8.0	2.7	0.6	1.33	16
June	10.2	2.6	0	.34	20
July	8.5	1.2	0	.27	17
August	18.2	1.9	0	.59	36
September	5.5	1.7	0	.18	11
The period					100

Rancho Ditch near San Ildefonso, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°53', long. 106°4' near line between SE¼ sec. 10 and SW¼ sec. 11, T. 19 N., R. 8 E., 350 feet below head gate and 2½ miles east of San Ildefonso.

Records available.- April to September 1936.

Extremes.- Maximum discharge during period, 6.0 second-feet July 11; maximum gage height, 1.39 feet Aug. 28; no flow at times.

Remarks.- Records fair prior to Aug. 24; poor thereafter. Ditch diverts from left bank of Rio Pojoaque, and the water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	0.7	1.0	0.3	0.4	0
2							-	1.5	1.2	.3	.5	0
3							-	.1	.7	.3	1.2	0
4							-	.8	.4	.3	.4	0
5							-	.9	.7	.3	.6	.1
6							-	1.8	.6	.4	.7	.9
7							-	1.5	3.2	.3	.8	.5
8							-	.3	1.0	.3	.2	.6
9							-	0	.5	.5	.2	.9
10							-	.1	.5	.4	.2	.6
11							0	.3	.6	1.4	.2	.5
12							0	1.2	.4	.7	.2	.4
13							.9	0	.4	.4	.2	.2
14							1.3	.8	.8	.3	.2	.2
15							1.2	.1	.6	.3	.2	.4
16							.9	.7	.5	1.5	1.9	.3
17							1.2	.2	.5	1.6	.8	.3
18							2.2	1.1	.6	.4	.4	.4
19							.4	.7	.4	.9	.6	0
20							1.0	1.7	.3	.6	1.0	0
21							.8	.8	.6	.4	.3	0
22							.9	.7	.4	.3	.9	0
23							1.0	.4	.3	.3	.4	0
24							.9	.9	.3	.3	.1	0
25							.6	1.0	.3	.2	.4	0
26							1.3	1.1	.3	.3	.6	0
27							.7	1.1	.3	.3	.7	0
28							.6	1.2	.4	.7	1.5	0
29							.6	.2	.4	.6	.3	0
30							.7	.6	.4	.6	0	0
31							-	0	-	.6	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 11-30	17.2	2.2	0	0.86	34
May	22.5	1.8	0	.73	45
June	18.6	3.2	.3	.62	37
July	16.1	1.6	.2	.52	32
August	16.1	1.9	0	.52	32
September	6.3	.9	0	.21	12
The period					192

De Los Indios Ditch near San Ildefonso, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°54', long. 106°5' in NE¼SW¼ sec. 10, T. 19 N., R. 8 E., 1,000 feet below head gate and 2 miles east of San Ildefonso.

Records available.- May to September 1936.

Extremes.- Maximum discharge during period, 9.3 second-feet Aug. 27 (gage height, 1.10 feet); no flow at times.

Remarks.- Records good except those for May 26, Aug. 7, 8, 10-14, which were computed on basis of partial gage-height record, knowledge of local conditions, and discharge measurements and are fair. Discharge determined from rating curve for standard 2-foot Parshall flume. Ditch diverts from left bank of Rio Pojoaque, and water is used for irrigation. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								-	1.0	0	0	0.2
2								-	.1	0	.9	.6
3								-	.1	0	1.9	1.4
4								-	0	0	2.4	1.2
5								-	.1	0	1.2	.7
6								-	0	0	1.5	3.2
7								-	.1	0	.2	1.2
8								-	0	0	.1	.1
9								-	0	.2	3.6	0
10								-	0	0	1.4	0
11								-	0	.3	0	0
12								-	0	4.4	0	.3
13								-	0	1.3	0	.7
14								-	1.8	0	0	.3
15								-	.8	.1	0	0
16								-	0	0	0	0
17								-	0	.6	0	0
18								-	0	0	0	0
19								-	0	0	0	0
20								-	0	0	.3	0
21								-	0	0	2.6	0
22								-	0	0	3.2	0
23								-	0	0	4.2	0
24								-	0	0	2.1	0
25								-	0	0	0	0
26								2.0	0	.2	0	0
27								2.0	0	.7	.2	0
28								1.4	1.5	.2	.4	0
29								.6	.9	.7	0	0
30								.4	0	.4	.1	0
31								2.7	-	.1	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May 26-31	9.1	2.7	0.4	1.52	18
June	6.4	1.8	0	.21	13
July	9.2	4.4	0	.30	18
August	26.3	4.2	0	.85	52
September	9.9	3.2	0	.33	20
The period					121

Ortiz Ditch at San Ildefonso, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°54', long. 106°6', in NW¼ sec. 9, T. 19 N., R. 8 E., 1,000 feet below head gate and three-quarters of a mile northeast of San Ildefonso.

Records available.- April to September 1936.

Extremes.- Maximum discharge during period, 7.6 second-feet June 1 (gage height, 1.17 feet); no flow at times.

Remarks.- Records good except those interpolated Apr. 19-22, which are fair. Discharge determined from rating curve for standard 1.5-foot Parshall flume. Ditch diverts from left bank of Rio Pojoaque, and the water is used for irrigation. At times after June 11 ditch received water from Well Ditch both above and below station. Records include diversion from Well Ditch above station. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	0.6	1.0	0	0	0.4
2							-	.3	.2	0	.4	0
3							-	.7	.1	0	1.2	.1
4							-	0	.4	0	4.2	0
5							-	.1	.4	0	2.5	0
6							-	.6	.4	0	.3	0
7							-	1.3	.2	0	0	.3
8							-	.5	0	0	0	0
9							-	.1	0	0	2.2	0
10							-	1.2	0	0	1.3	0
11							-	.7	0	0	0	0
12							-	.9	.5	.2	0	0
13							-	.6	.7	0	0	0
14							0	.2	.4	0	0	0
15							0	0	.2	.2	0	0
16							0	.2	.3	0	0	0
17							0	.6	1.1	.1	0	0
18							.6	.4	1.1	0	0	0
19							.5	.7	1.1	0	.4	0
20							.4	.6	.5	0	.4	0
21							.4	.5	0	0	.2	0
22							.3	.3	0	0	0	0
23							.2	.3	0	0	.3	0
24							1.2	.2	0	0	.3	0
25							1.2	0	.3	0	0	0
26							.4	0	.6	0	0	0
27							.8	.1	.5	0	.2	.1
28							.3	.2	.6	0	.1	0
29							.4	.7	.5	0	.1	0
30							.6	.6	.3	0	.3	0
31							-	2.4	-	0	.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 14-30	7.3	-	-	0.43	14
May	15.6	-	-	.50	31
June	11.4	-	-	.38	23
July	.5	-	-	.02	1.0
August	15.1	-	-	.49	30
September	.9	.4	0	.03	1.8
The period					101

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.- May to June 1910 at a site 3 miles downstream, April 1913 to December 1914 at a site 2 miles downstream, October 1930 to September 1936 in reports of U. S. Geological Survey; January 1913 to November 1930 at a site 2 miles downstream, November 1930 to December 1931, in reports of State engineer.

Extremes.- Maximum discharge during year, 112 second-feet Aug. 4 (gage height, 1.86 feet); minimum daily discharge, 1.4 second-feet Feb. 18.
1930-36: Maximum discharge, 139 second-feet Sept. 19, 1931 (gage height, 2.35 feet); minimum daily discharge, 0.6 second-foot Nov. 13, 1933.

Remarks.- Records good. Discharge Nov. 24-26, Feb. 23-29, Mar. 1-4, 14-18 computed on basis of knowledge of reservoir gate operation. Flow regulated at dam immediately above station. No diversions above gage.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.7	6.8	2.4	2.2	1.9	1.8	9.0	27	16	5.9	9.8	7.7
2	7.7	6.8	2.4	2.0	1.8	1.9	7.7	28	14	5.9	10	7.7
3	7.7	6.8	2.3	2.2	1.8	2.0	8.6	31	13	5.9	11	7.4
4	8.1	6.8	2.3	2.2	1.8	2.0	7.4	35	10	5.9	84	7.4
5	8.1	6.8	2.4	2.2	1.8	2.0	7.1	39	9.8	5.9	47	7.7
6	7.7	6.8	2.3	2.2	1.7	2.0	6.5	40	9.0	5.9	31	6.5
7	7.4	6.8	2.3	2.2	1.8	2.0	6.2	38	9.0	5.9	26	5.3
8	7.4	6.5	2.2	2.2	1.7	2.0	6.8	31	8.6	7.4	24	5.0
9	7.1	6.5	2.2	2.2	1.7	1.9	6.8	26	9.8	9.4	22	5.0
10	7.1	6.8	2.2	2.2	1.7	1.9	6.8	22	16	12	19	4.7
11	7.1	6.5	2.2	2.2	1.5	1.9	8.1	20	14	14	12	4.7
12	7.4	6.5	2.2	2.2	1.5	1.9	12	19	11	8.6	12	4.7
13	7.4	6.5	2.2	2.2	1.7	1.9	15	17	10	5.6	12	5.0
14	7.4	6.5	2.3	2.2	1.5	1.9	18	19	10	3.7	11	5.0
15	7.4	6.5	2.3	2.2	1.5	1.9	22	20	9.8	5.6	10	4.5
16	7.1	3.9	2.2	2.2	1.5	1.9	22	22	9.8	9.4	9.4	4.5
17	7.1	2.4	2.2	2.0	1.5	1.9	26	23	9.8	9.4	8.6	4.1
18	7.1	2.4	2.0	2.2	1.4	1.9	27	25	9.4	9.4	8.1	2.2
19	7.1	2.4	2.2	2.0	1.5	3.7	29	23	9.4	9.4	8.1	2.2
20	7.1	2.3	2.2	2.0	1.5	3.7	29	24	9.8	9.8	14	2.2
21	7.1	2.3	2.2	2.0	1.5	3.7	27	26	9.8	9.8	14	2.3
22	7.1	2.4	2.2	2.0	1.5	6.8	26	26	9.8	9.8	11	2.4
23	7.1	2.4	2.3	1.9	1.5	7.7	26	24	9.4	9.8	9.8	2.4
24	7.1	2.4	2.3	2.0	1.5	7.4	26	22	9.4	9.8	9.0	2.4
25	7.1	2.4	2.2	1.9	1.6	7.4	26	21	9.4	9.8	8.6	2.4
26	7.1	2.4	2.3	1.9	1.6	6.8	28	20	9.0	9.4	8.6	2.7
27	7.4	2.4	2.2	1.9	1.7	6.8	27	18	7.4	9.8	8.1	8.1
28	7.1	2.4	2.2	1.9	1.8	7.1	26	17	5.6	9.8	8.1	9.8
29	7.1	2.3	2.2	1.9	1.8	7.4	26	17	5.9	9.4	7.7	10
30	7.1	2.4	2.2	1.8	-	7.7	26	17	5.9	9.8	7.7	11
31	6.8	-	2.0	1.8	-	9.4	-	17	-	9.8	7.7	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	226.3	8.1	6.8	7.30	449
November	137.1	6.8	2.3	4.57	272
December	69.3	2.4	2.0	2.24	137
Calendar year 1935	3,227.7	62	.8	8.84	6,400
January	64.2	2.2	1.8	2.07	127
February	47.3	1.9	1.4	1.63	94
March	120.3	9.4	1.8	3.88	239
April	545.0	29	6.2	18.2	1,080
May	754	40	17	24.3	1,500
June	299.8	16	5.6	9.99	595
July	262.0	14	3.7	8.45	520
August	489.3	84	7.7	15.8	971
September	157.0	11	2.2	5.23	311
Water year 1935-36	3,171.6	84	1.4	8.67	6,300

Jemez Creek near Jemes, N. Mex.

Location.- Water-stage recorder, lat. 35°39', long. 106°44', in SE¼NE¼ sec. 32, T. 17 N., R. 2 E., about 1 mile below mouth of Rio Guadalupe and 4 miles north of Jemes.

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, by slope-area method, about 3,000 second-feet Sept. 26 (gage height, 9.35 feet); minimum daily discharge, 19 second-feet Aug. 14.

Remarks.- Records good except those based on partial gage-height record June 22, 30, July 10, Sept. 12-14, 17, those estimated on basis of weather records July 1-9, those interpolated Sept. 15, 16, all of which are fair; that for Sept. 26, including the maximum, and those computed on basis of study of recorder trace and one measurement, Sept. 27-30, which are poor.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-		36	33
2									-		58	28
3									-		48	28
4									-		111	24
5									-		73	23
										25		
6									-		55	22
7									-		40	21
8									-		38	21
9									-		39	21
10									-	50	32	25
11									-	132	27	29
12									-	104	25	35
13									-	60	21	32
14									-	40	19	32
15									-	39	33	32
16									-	40	36	31
17									-	32	27	31
18									-	29	27	39
19									-	27	37	48
20									-	27	112	45
21									-	27	180	42
22									24	25	84	116
23									23	24	55	65
24									26	24	44	40
25									26	23	35	34
26									23	22	28	620
27									21	21	25	300
28									23	20	27	180
29									22	27	56	160
30									22	25	42	140
31									-	29	42	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 22-30	210	26	21	23.3	417
July	1,072	132	20	34.6	2,130
August	1,512	180	19	48.7	3,000
September	2,297	620	21	76.6	4,560
The period					10,100

Jemez West Side Ditch near Jemes, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°39', long. 106°44', in NW¼ NW¼ sec. 4, T. 16 N., R. 2 E., 3,000 feet below head gate and 3½ miles north of Jemes.

Records available.- April to September 1936.

Extremes.- Maximum discharge during period, 52 second-feet July 11 (gage height, 2.10 feet); no flow July 12, 13.

Remarks.- Records good except those interpolated June 20-22, July 27 to Aug. 5, which are fair. No diversions above station. Ditch diverts from right bank of Jemez Creek, and the water is used for irrigation of Indian lands in the Jemez Pueblo Grant.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	16	21	16	12	7.3
2							-	12	20	14	12	15
3							-	13	20	18	12	15
4							-	19	20	16	13	17
5							-	17	19	16	13	9.5
6							-	17	19	14	14	6.6
7							-	18	17	14	13	7.6
8							-	17	16	13	14	8.5
9							-	17	15	9.7	14	13
10							-	15	17	10	13	18
11							-	13	15	6.8	13	13
12							-	13	15	0	14	10
13							-	13	15	0	12	9.8
14							-	13	17	2.4	13	9.3
15							-	13	20	8.2	22	9.3
16							-	15	18	9.6	22	8.1
17							-	17	16	9.4	21	8.0
18							-	16	17	10	20	8.1
19							-	17	17	11	20	6.6
20							-	18	17	12	19	6.5
21							-	18	16	9.9	12	6.4
22							-	18	16	7.2	11	.4
23							-	17	15	9.4	14	.1
24							4.0	6.8	15	9.9	20	.2
25							10	16	17	9.8	19	7.8
26							10	26	18	9.7	18	11
27							19	14	16	10	15	.2
28							25	3.0	18	10	18	.1
29							24	8.4	20	11	18	.1
30							27	17	19	11	20	.1
31							-	23	-	11	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 24-30	119.0	27	4.0	17.0	236
May	476.2	26	3.0	15.4	945
June	521.0	21	15	17.4	1,030
July	319.0	18	0	10.3	633
August	483.0	22	11	15.6	958
September	232.6	18	.1	7.75	461
The period					4,260

Jemez East Side Ditch near Jemez, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°39', long. 106°44', in NE¼NW¼ sec. 4, T. 16 N., R. 2 E., about 4,500 feet below head gate and 3 miles north of Jemez.

Records available.- April to September 1936.

Extremes.- Maximum discharge during period, 48 second-feet Sept. 26 (gage height, 2.00 feet); no flow at times.

Remarks.- Records excellent. Ditch diverts from left bank of Jemez Creek, and the water is used for irrigation of Jemez Indian lands. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							-	4.6	7.9	4.5	4.8	7.0
2							-	8.9	6.6	7.2	1.3	5.7
3							-	8.3	5.9	7.5	3.9	5.2
4							-	7.5	6.2	6.8	7.2	5.0
5							-	6.6	5.7	6.4	6.2	6.8
6							-	6.2	5.9	5.5	5.5	8.1
7							-	5.5	6.1	4.9	5.4	8.1
8							-	5.4	7.0	5.9	6.2	7.2
9							-	5.5	5.7	8.7	6.6	4.9
10							-	5.0	6.4	9.3	6.0	4.2
11							-	6.0	7.9	4.3	5.2	5.9
12							-	5.9	7.9	0	5.5	5.4
13							-	5.2	7.3	0	4.4	1.8
14							-	4.9	6.6	0	2.0	3.9
15							2.8	4.9	6.0	0	3.9	7.3
16							4.8	4.9	7.2	0	5.0	7.2
17							7.7	4.7	7.7	.5	4.4	7.5
18							7.5	5.4	7.2	0	5.2	6.2
19							7.2	7.7	5.9	2.1	7.0	3.9
20							6.6	8.1	4.7	5.9	5.4	7.2
21							5.7	7.2	4.2	5.5	3.0	7.0
22							5.9	6.2	4.1	5.5	5.4	6.2
23							4.6	5.2	4.1	5.5	5.9	4.9
24							4.7	5.2	5.0	5.4	6.0	4.7
25							7.3	7.7	6.2	5.4	5.2	4.2
26							5.4	9.7	5.4	5.4	5.0	4.0
27							4.7	10	5.5	5.2	4.4	0
28							5.0	10	5.9	3.9	5.2	0
29							4.4	8.5	4.4	0	4.7	0
30							4.2	5.9	3.6	2.1	6.4	0
31							-	6.0	-	4.2	7.5	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February	-	-	-	-	-
March	-	-	-	-	-
April 15-30	88.5	7.7	2.8	5.53	176
May	202.8	10	4.6	6.54	402
June	180.2	7.9	3.6	6.01	357
July	127.6	9.3	0	4.12	253
August	159.8	7.5	1.3	5.15	317
September	149.5	8.1	0	4.98	297
The period					1,800

Antonio Pecos Ditch at Jemes, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°37', long. 106°44', in SE¼ SW¼ sec. 16, T. 16 N., R. 2 E., about 2,500 feet below head gate and a third of a mile west of Jemes.

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, 16 second-feet July 11 (gage height, 1.21 feet) no flow July 10, 12, 13, Sept. 27.

Remarks.- Records good. Discharge determined from rating curve for standard 3-foot Parshall flume. No record June 24 to July 9, July 14-20. Ditch diverts from left bank of Jemez Creek, and the water is used for irrigation of Jemez Indian lands. No diversions above station.

Daily discharge, in second-feet, 1936

Day	June	July	Aug.	Sept.	Day	June	July	Aug.	Sept.
1	-	-	1.0	1.2	16	-	-	1.5	1.4
2	-	-	.8	.1	17	-	-	1.4	.7
3	-	-	.1	.3	18	-	-	1.2	1.2
4	-	-	.5	1.7	19	-	-	.9	1.6
5	-	-	.5	3.1	20	-	-	3.1	2.6
6	-	-	1.3	.4	21	-	4.1	1.4	3.3
7	-	-	2.4	.8	22	2.5	3.9	2.1	2.8
8	-	-	1.5	.9	23	2.3	2.7	2.1	2.2
9	-	-	1.2	.4	24	-	2.0	.7	1.5
10	-	0	1.2	1.0	25	-	1.1	1.6	.6
11	-	1.0	.3	.9	26	-	.6	1.3	.2
12	-	0	.4	1.8	27	-	1.1	1.6	0
13	-	0	1.5	2.6	28	-	2.4	2.4	1.1
14	-	-	3.6	1.9	29	-	3.2	1.9	.6
15	-	-	2.5	.6	30	-	1.1	1.6	1.2
					31	-	.8	1.8	-

Monthly discharge, 1936

Month	Mean (second-feet)	Run-off (acre-feet)
July 21-31	2.09	46
August	1.46	90
September	1.29	77

San Ysidro Ditch near San Ysidro, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°35', long. 106°46', in SE¼SE¼ sec. 30, T. 16 N., R. 2 E., 6,000 feet below head gate and 1½ miles north of San Ysidro.

Records available.- July to September 1936.

Extremes.- Maximum discharge during period, 16 second-feet Sept. 26 (gage height, 1.22 feet); no flow at times.

Remarks.- Records good. Ditch diverts from right bank of Jemez Creek, and the water is used for irrigation of Spanish-American lands. One or two small diversions above station.

Daily discharge, in second-feet, 1936

Day	July	Aug.	Sept.	Day	July	Aug.	Sept.
1	-	2.8	5.1	16	0	3.8	4.4
2	-	6.4	2.9	17	0	3.1	4.9
3	-	4.2	2.8	18	0	3.5	5.5
4	-	7.0	2.3	19	0	4.3	5.2
5	-	4.8	1.6	20	0	7.1	4.0
6	-	2.8	2.4	21	0	9.9	4.9
7	-	1.7	2.6	22	0	5.3	3.6
8	-	1.2	3.4	23	.2	3.5	0
9	-	1.4	3.2	24	.5	1.7	0
10	2.7	1.3	2.2	25	.5	.7	0
11	5.3	1.3	4.8	26	.4	2.6	3.8
12	0	1.4	5.9	27	2.0	4.8	1.3
13	0	1.2	5.2	28	3.2	5.6	0
14	0	2.3	5.6	29	6.1	7.4	0
15	0	6.1	4.9	30	5.3	6.8	0
				31	5.4	6.2	-

Monthly discharge, 1936

Month	Mean (second-feet)	Run-off (acre-feet)
July 10-31	1.44	63
August	3.94	242
September	3.08	183

Zia Ditch at San Ysidro, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°33', long. 106°45', in SE¼SE¼ sec. 1, T. 15 N., R. 1 E., 1 mile south of San Ysidro and about 6,500 feet below the head gate.

Records available.- June to September 1936.

Extremes.- Maximum discharge for period, 21 second-feet July 11 (gage height, 1.21 feet); no flow at times.

Remarks.- Records good. No record for periods June 27 to July 9, and July 13-20, when recorder failed to make trace. Discharges Aug. 19-31 partly estimated. Ditch diverts from left bank of Jemez Creek, and the water is used for irrigation of Indian lands. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day									June	July	Aug.	Sept.
1									-	-	3.8	10
2									-	-	3.0	3.6
3									-	-	0	4.0
4									-	-	0	3.7
5									-	-	0	3.0
6									-	-	2.4	6.6
7									-	-	6.0	6.4
8									-	-	5.1	7.0
9									-	-	7.4	7.1
10									-	4.4	5.8	5.6
11									-	3.0	3.8	5.2
12									-	0	4.0	6.6
13									-	-	6.1	7.2
14									-	-	6.5	4.9
15									-	-	3.7	1.8
16									-	-	0	.6
17									-	-	.2	.9
18									-	-	2.0	2.1
19									-	-	5.0	1.6
20									-	-	8.0	0
21									-	6.9	10	.2
22									1.9	6.3	7.7	.4
23									1.6	5.4	6.2	0
24									.8	3.0	4.3	0
25									1.3	2.8	1.9	0
26									.9	1.9	1.1	0
27									-	.9	2.8	.3
28									-	0	7.0	.1
29									-	1.5	12	0
30									-	2.2	8.8	0
31									-	6.5	11	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June					
July 21-31	37.4	6.9	0	3.40	74
August	145.6	12	0	4.70	289
September	88.9	10	0	2.96	176
Water year	-				

Rio Puerco at Rio Puerco, N. Mex.

Location.- Water-stage recorder, lat. 34°47', long. 107°0', 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 1936 in reports of U. S. Geological Survey (gage heights only prior to March 1913); January 1913 to December 1925, September 1926 to December 1927 in reports of State engineer.

Extremes.- Maximum discharge during year, about 24,000 second-feet Aug. 4 (gage height, 6.47 feet); no flow at times.
1934-36: Maximum discharge, about 28,300 second-feet Aug. 21, 1935 (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; poor above and below. Records for Mar. 17 to Apr. 2, Apr. 8 to May 20, May 23-30, July 17-28 were computed on basis of weather records and a study of the trace. Stage-discharge relation not affected by ice. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	119	0	1	5	33	64	0		0	0	0	70
2	37	0	0	1	33	106	0		46	0	3	12
3	19	0	0	1	37	414	0	0	19	0	333	93
4	11	0	0	0	24	567	0		3	0	5,750	362
5	6	0	0	1	24	260	0		1	0	3,380	119
6	7	0	0	1	19	270	2		1	0	1,310	19
7	3	0	1	1	37	240	1		0	0	1,370	7
8	1	0	0	1	37	186			0	0	789	3
9	2	0	0	2	37	179			0	0	260	3
10	3	0	0	2	41	138		20	0	16	100	15
11	1	0	0	1	41	30			2	556	37	29
12	0	0	0	19	50	3			27	1,170	12	7
13	0	0	0	27	54	2	1		11	204	5	798
14	0	0	0	17	689	0			1	27	1	59
15	0	0	0	11	260	0			0	9	0	50
16	0	0	0	22	240	0		3	0	3	1	17
17	0	0	0	15	290	0			0		11	9
18	0	0	0	9	204	0			0	2	22	3
19	0	0	0	6	240	0			0		9	1
20	4	0	0	5	145	0			0		6	1
21	0	0	0	5	119	0		1	0	10	3,110	1,230
22	7	0	0	5	70	0		3	0		874	1,150
23	2	0	2	7	41	0			0		132	580
24	1	0	1	22	184	0			0	1	33	154
25	0	0	1	22	426	0	0		0		15	37
26	0	11	1	22	280	0		2	0		6	148
27	0	59	1	27	145	0			0	0	2	4,680
28	0	37	3	22	100	0			0		1	1,460
29	0	9	1	33	75	0			0	0	0	473
30	0	3	3	41	-	0			0	0	10	70
31	0	-	1	41	-	0	-	0	-	0	565	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	223	119	0	7.2	440
November	119	59	0	4.0	236
December	16	3	0	.5	32
Calendar year 1935	55,994	8,200	0	153	111,100
January	394	41	0	12.7	781
February	3,975	689	19	137	7,880
March	2,461	567	0	79.4	4,880
April	14	-	0	.5	28
May	164	-	0	5.3	325
June	111	46	0	3.7	220
July	2,024	1,170	0	65.3	4,010
August	18,147	5,750	0	585	35,990
September	11,659	4,680	1	389	23,130
Water year 1935-36	39,307	5,750	0	107	77,950

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., 2½ 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 1936 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 1,010 eecond-feet Sept. 1 (gage height, 6.15 feet); minimum daily discharge, 0.7 second-foot Feb. 5.
1930-36: Maximum discharge and stage, those of Sept. 1, 1936; no flow Mar. 9, 1931, and Feb. 3, 1935.

Remarks.- Records fair except those for periods of ice effect, Nov. 28 to Dec. 1, Dec. 9-28, Jan. 2, 4, 13, 27, Feb. 4-7, 9-11, and those for Oct. 1-4, Sept. 1-4, which were computed on basis of weather records and a knowledge of local conditions and are poor. Flow regulated by storage in Bluewater-Toltec Reservoir for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		3.6	2.9	1.9	1.0	2.5	4.2	49	44	49	32	50
2	5.0	3.6	3.0	1.7	.8	2.3	4.1	51	44	49	36	25
3		3.4	3.0	2.3	.8	2.3	4.2	52	39	35	28	25
4		3.4	3.2	2.3	.8	2.5	4.4	51	28	30	15	25
5	4.8	3.6	3.0	2.3	.7	2.6	4.4	67	28	29	8.8	24
6	4.8	3.7	3.0	2.6	1.0	2.6	4.4	64	28	38	3.9	22
7	4.6	3.6	3.4	2.5	1.2	2.7	4.4	60	29	38	3.6	22
8	4.6	3.7	2.3	2.9	1.5	2.7	4.4	45	43	49	3.2	22
9	4.6	3.7	1.6	2.7	1.4	2.7	4.4	35	44	36	3.7	26
10	4.4	3.6	1.5	2.7	1.4	2.9	4.4	35	44	36	3.9	26
11	4.4	3.4	1.7	3.0	1.3	2.7	8.5	35	44	22	3.9	27
12	4.2	3.2	1.6	3.0	1.4	2.7	5.1	56	35	20	4.1	29
13	4.4	3.2	1.6	2.5	1.4	2.7	5.3	60	31	20	4.1	32
14	4.4	3.2	1.2	3.9	1.4	2.9	5.5	60	24	26	4.1	32
15	4.6	3.2		4.6	1.5	2.9	10	60	26	26	4.1	32
16	3.9	3.0		4.6	1.5	2.9	13	60	26	26	4.2	32
17	3.7	3.0		4.4	1.6	3.0	13	60	33	26	4.4	30
18	3.9	3.0		4.4	1.6	3.4	15	60	35	26	4.4	21
19	4.1	3.2		3.7	1.6	3.4	15	59	28	26	4.8	19
20	3.9	3.2		2.7	1.7	3.4	15	58	26	26	5.1	13
21	4.1	3.2	1.5	2.5	1.7	3.4	24	58	26	27	8.8	4.2
22	4.1	3.0		2.2	1.9	3.7	30	69	26	27	16	2.9
23	4.2	2.9		1.9	1.9	3.9	30	64	26	26	17	2.2
24	3.9	2.9		1.5	2.0	3.9	30	63	39	26	22	2.1
25	3.9	3.0		1.4	2.1	4.1	30	63	41	27	32	2.0
26	3.9	3.2		1.2	2.2	4.4	30	72	40	26	33	2.1
27	4.1	3.0		1.2	2.1	4.2	30	72	46	26	33	2.2
28	4.1	2.8	1.9	1.2	2.2	3.9	45	56	46	27	32	2.2
29	3.9	2.8	2.0	1.2	2.3	3.9	51	46	46	26	33	2.2
30	3.9	2.9	1.9	1.1	-	3.9	41	44	46	26	35	2.1
31	3.7	-	1.9	1.2	-	4.1	-	45	-	26	28	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	133.1	-	3.7	4.29	264
November	97.2	3.7	2.8	3.24	193
December	60.2	3.4	-	1.94	119
Calendar year 1935	4,942.3	92	0	13.5	9,800
January	77.3	4.6	1.1	2.49	153
February	44.0	2.3	.7	1.52	87
March	99.2	4.4	2.3	3.20	197
April	489.7	51	4.1	16.3	971
May	1,729	72	35	55.8	3,430
June	1,061	46	24	35.4	2,100
July	923	49	20	29.8	1,830
August	471.1	36	3.2	15.2	934
September	558.2	50	2.0	18.6	1,110
Water year 1935-36	5,743.0	72	.7	15.7	11,390

San Jose River near Grants, N. Mex.

Location.- Water-stage recorder, lat. 35°4', long. 107°44', in SE¼SE¼ sec. 23, T. 10 N., R. 9 W., at west boundary of Acoma Indian Reservation 8½ miles east of Grants.

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, 99 second-feet Aug. 5 (gage height, 1.82 feet); minimum daily discharge, 4.5 second-feet July 31 to Aug. 3, Aug. 30.

Remarks.- Records good. Diversions above and below station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										4.7	4.5	8.3
2										4.7	4.5	20
3										4.7	4.5	12
4										4.7	9.5	11
5										4.7	70	6.7
6										5.0	26	5.3
7										5.0	33	5.0
8										5.0	39	4.7
9										5.0	48	4.7
10										5.3	18	4.7
11										24	7.9	4.7
12										19	6.1	4.7
13										7.5	5.3	5.0
14										5.5	5.0	5.0
15										5.0	5.3	5.0
16										4.7	5.0	5.0
17										5.0	5.0	5.0
18										5.0	5.5	5.0
19										5.0	6.4	5.0
20										5.0	5.8	5.0
21										5.0	9.4	6.1
22										5.0	31	5.5
23										5.0	9.4	5.3
24										5.0	6.1	5.0
25										4.7	5.3	5.0
26										4.7	5.0	5.3
27										4.7	4.7	5.3
28										4.7	4.7	5.3
29										4.7	4.7	5.3
30									4.7	4.7	4.5	5.3
31									-	4.5	5.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June					
July	187.2	24	4.5	6.04	371
August	404.1	70	4.5	13.0	802
September	185.2	20	4.7	6.17	367
The period					1,540

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San Jose River near San Fidel, N. Mex.

Location.- Water-stage recorder, lat. 35°4', long. 107°40', in SE¼ sec. 28, T. 10 N., R. 8 W., at McCartys, 500 feet below railroad bridge and 4½ miles west of San Fidel.

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, 100 second-feet Aug. 5 (gage height, 2.78 feet), from rating table extended logarithmically above 40 second-feet; minimum daily discharge, 0.8 second-foot July 4.

Remarks.- Records good. Diversions above and below station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	2.0	2.0	6.6
2									-	2.3	3.2	12
3									-	1.1	2.8	15
4									-	.8	2.0	9.6
5									-	2.8	44	7.2
6									-	2.3	37	5.8
7									-	2.5	30	4.5
8									-	1.9	28	4.5
9									-	3.8	54	3.5
10									-	4.8	24	4.4
11									-	9.0	12	5.7
12									-	19	7.8	5.5
13									-	9.1	6.6	5.9
14									-	6.4	6.8	4.8
15									-	5.3	4.0	5.2
16									-	4.1	4.6	4.9
17									-	3.9	5.4	5.2
18									-	2.8	4.0	4.6
19									-	1.6	6.2	4.8
20									-	1.8	17	5.7
21									-	2.4	9.4	6.5
22									-	2.2	24	6.1
23									-	1.8	12	6.2
24									-	2.6	7.6	5.6
25									-	2.8	6.3	5.7
26									1.6	1.8	5.4	5.9
27									4.4	1.7	5.4	7.4
28									1.7	1.4	5.3	7.4
29									2.4	1.5	4.8	7.1
30									1.2	1.6	5.5	7.1
31									-	1.4	5.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 26-30	11.3	4.4	1.2	2.26	22
July	108.5	19	.8	3.50	215
August	392.3	54	2.0	12.7	778
September	190.4	15	3.5	6.35	378
The period					1,390

San Jose River near Casa Blanca, N. Mex.

Location.- Water-stage recorder, lat. 35°2', long. 107°27', in NW¼NE¼ sec. 3, T. 9 N., R. 6 W., 400 feet below head gate of Laguna Ditch, 1 mile above mouth of Encinal Creek, and 1½ miles east of Casa Blanca. Zero of gage is 5,586.1 feet above mean sea level (Atchinson, Topeka & Santa Fe Railway benchmark).

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, by slope-area method, about 1,130 second-feet July 10 (gage height, 5.09 feet); no flow at times.

Remarks.- Records fair except those for Aug. 12-17, 22, 24-31, Sept. 27-30, computed on basis of recorder trace and knowledge of local conditions, and those above 20 second-feet, which are poor. Diversions for irrigation above and below station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	0	0	2.9
2									-	0	.9	17
3									-	0	.8	9.5
4									-	0	0	1.3
5									-	0	4.7	.1
6									-	0	20	0
7									-	0	15	0
8									-	0	8.6	0
9									-	6.7	18	0
10									-	82	10	0
11									-	4.7	4.6	0
12									-	0	2.0	0
13									-	0	0	0
14									-	0	0	0
15									-	0	0	0
16									-	0	0	0
17									-	0	0	0
18									-	0	0	0
19									-	0	0	0
20									-	0	23	6.1
21									-	0	8.5	5.3
22									-	0	1.5	7.1
23									-	0	6.8	0
24									-	0	2.8	0
25									0	0	.9	0
26									0	0	.1	43
27									0	0	0	34
28									0	0	0	3.0
29									0	0	0	.4
30									0	0	0	.1
31									-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 25-30	0	0	0	0	0
July	93.4	82	0	3.01	185
August	128.2	23	0	4.14	254
September	129.8	43	0	4.33	257
The period					696

Mesita Ditch near Laguna, N. Mex.

Location.- Water-stage recorder and Parshall flume, lat. 35°1', long. 107°19', in SE¼ sec. 12, T. 9 N., R. 5 W., in the Mesita Indian village, 4300 feet below head gate and 4½ miles east of Laguna.

Records available.- June to September 1936.

Extremes.- Maximum discharge during period, 17 second-feet Aug. 21 (gage height, 1.25 feet); no flow at times.

Remarks.- Records fair. Discharge determined from rating curve for standard 3-foot Parshall flume. Ditch diverts from right bank of San Jose River, and the water is used for irrigation of Indian lands. No diversions above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									-	0	0	0.8
2									-	0	0	2.8
3									-	0	0	2.4
4									-	0	.4	5.4
5									-	0	2.2	1.8
6									-	0	4.0	.2
7									-	0	3.2	0
8									-	0	3.0	0
9									-	3.2	5.8	0
10									-	6.6	7.6	0
11									-	.1	4.8	.9
12									-	.9	2.4	.9
13									-	.5	0	2.5
14									-	0	0	.4
15									-	0	0	0
16									-	0	0	0
17									-	0	0	0
18									-	0	0	0
19									-	0	0	.6
20									-	.6	1.1	.7
21									-	3.5	3.3	.8
22									7.9	1.2	2.9	.3
23									8.6	1.0	2.9	.4
24									10	0	2.7	.6
25									7.3	0	.1	.6
26									3.9	0	0	1.4
27									.2	0	.3	1.5
28									0	0	.3	.1
29									0	0	0	0
30									0	0	.3	0
31									-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January					
February					
March					
April					
May					
June 22-30	37.9	10	0	4.21	75
July	17.6	6.6	0	.57	35
August	47.3	7.6	0	1.53	94
September	25.1	5.4	0	.84	50
The period					254

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 Ojo Caliente and 15 miles northwest of Monticello.

Drainage area.- 470 square miles.

Records available.- May 1931 to September 1936 in reports of U. S. Geological Survey; October to December 1929, May to December 1931 in reports of State engineer.

Extremes.- Maximum stage during year, 13.6 feet (discharge not determined); minimum daily discharge, 6 second-feet July 30 (estimated).
1931-36: Maximum stage, that of Aug. 21, 1936; minimum daily discharge, 5.6 second-feet Jan. 9, 1932.

Remarks.- Records good below 10 second-feet, others poor. Discharge July 29-31, Aug. 21-27, Aug. 29 to Sept. 12 computed on basis of weather records, study of the gage-height records and knowledge of local conditions. No diversions above station; entire normal flow diverted below station for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	7.6	7.4	6.9	7.6	6.7	6.4	7.1	6.9	6.7	7.8	
2	7.2	7.8	7.4	6.9	7.6	6.7	6.4	7.1	6.7	6.9	15	
3	7.2	7.6	7.4	6.9	7.6	6.6	6.4	7.1	6.7	6.9	6.7	
4	7.2	7.6	7.6	6.9	7.6	6.6	6.6	7.1	6.7	6.9	6.1	
5	7.6	7.6	7.6	6.9	7.6	6.6	6.6	7.1	6.7	6.9	6.1	
6	7.2	7.6	7.4	6.9	7.6	6.6	6.6	7.1	6.9	6.9	6.1	8
7	7.4	7.6	7.1	7.1	7.6	6.6	6.6	7.1	6.9	11	6.2	
8	7.4	7.6	7.2	7.1	7.4	6.7	6.6	7.1	6.7	7.1	6.4	
9	7.2	7.6	7.4	7.1	7.4	6.7	6.6	7.1	6.7	6.9	6.6	
10	7.2	7.8	7.4	7.1	7.4	6.7	6.6	7.1	6.7	6.9	6.6	
11	7.2	7.8	7.4	7.1	7.4	6.7	6.6	7.1	6.7	6.9	6.7	
12	7.2	7.8	7.2	7.1	7.4	6.7	6.7	7.1	6.7	6.7	6.7	
13	7.2	7.8	7.2	7.1	7.4	6.7	6.9	7.2	6.9	6.6	6.7	7.2
14	7.2	7.8	7.2	7.1	7.2	6.6	6.9	7.2	6.9	6.6	6.9	7.1
15	7.4	7.8	7.2	7.1	7.2	6.6	6.7	7.1	7.1	6.6	6.9	7.1
16	7.4	7.8	7.2	7.2	7.2	6.6	6.7	7.1	7.1	6.6	6.9	6.9
17	7.4	7.8	7.1	7.2	7.4	6.6	6.9	7.1	7.1	6.7	6.9	7.1
18	7.4	7.6	7.1	7.2	7.4	6.6	6.9	7.1	6.9	6.7	6.9	7.1
19	7.4	7.6	7.2	7.2	7.2	6.6	6.9	7.1	6.9	6.7	17	9.0
20	7.4	7.6	7.2	7.2	7.2	6.6	6.9	7.1	6.9	6.7	22	7.1
21	7.4	7.6	7.2	7.2	7.1	6.6	6.9	7.1	6.9	6.6	1,200	8.1
22	7.4	7.8	7.1	7.2	7.1	6.6	6.9	7.1	6.9	6.6		7.4
23	7.4	7.8	7.1	7.2	7.1	6.6	7.1	7.1	6.9	6.6		7.2
24	7.6	7.8	6.9	7.4	7.1	6.6	7.1	7.1	6.9	6.6	15	7.1
25	7.6	8.0	6.9	7.4	7.1	6.4	7.1	6.9	7.1	6.6		7.1
26	7.6	7.6	7.1	7.4	6.9	6.4	7.1	7.1	7.1	6.7		24
27	7.6	7.6	6.9	7.4	6.9	6.4	7.2	6.9	6.9	6.2		22
28	7.6	7.6	6.9	7.4	6.9	6.2	7.2	7.1	6.9	6.2	7.6	7.2
29	7.6	7.6	7.1	7.6	6.7	6.4	7.2	7.1	6.9	8		7.2
30	7.6	7.6	7.1	7.6	-	6.4	7.1	6.9	6.7	6	10	7.2
31	7.6	-	7.1	7.4	-	6.4	-	6.9	-	10		-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	229.0	7.6	7.2	7.39	454
November	230.8	8.0	7.6	7.69	458
December	223.3	7.6	6.9	7.20	443
Calendar year 1935	3,100.5	193	5.8	8.49	6,150
January	222.5	7.6	6.9	7.18	441
February	211.3	7.6	6.7	7.29	419
March	203.8	6.7	6.2	6.57	404
April	204.4	7.2	6.4	6.81	405
May	219.5	7.2	6.9	7.08	435
June	206.0	7.1	6.7	6.87	409
July	216.0	11	6	6.97	428
August	1,494.8	1,200	6.1	48.2	2,960
September	259.1	24	6.9	8.64	514
Water year 1935-36	3,920.5	1,200	6	10.7	7,770

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 0.5 mile below Alamo Alto.

Records available.- October 1931 to September 1936 in reports of U. S. Geological Survey; January 1930 to December 1931 in report of New Mexico State engineer.

Remarks.- Records represent return flow to Rio Grande from about 11,000 acres of the Tornillo district and from about 14,000 acres on San Elisario Island. Records furnished by U. S. Bureau of Reclamation.

Discharge measurements, in second-feet, water year October 1935 to September 1936

Date	Discharge	Date	Discharge	Date	Discharge
1935		1936		1936	
Oct. 8	87.2	Feb. 6	45.6	June 2	79.0
14	79.1	11	47	9	68.7
15	65.3	15	46.2	18	73.9
22	76.5	18	59.2	25	70.4
29	61.3	25	49.1	30	70.4
Nov. 5	59.6	28	44.7	July 6	68.4
12	54.3	Mar. 3	47.4	18	92.1
15	58.3	10	60.4	21	80.6
19	62.5	17	54.4	29	83.1
22	55.5	24	55.7	Aug. 4	82.5
26	59.2	Apr. 3	65.2	11	76.8
30	54.7	7	57.7	18	75.9
Dec. 10	55.9	14	61.9	25	83.0
18	50.0	21	80.5	Sep. 4	82.0
24	42.0	25	70.4	8	76.8
28	48.9	30	72.8	15	78.7
1936		May 5	80.5	21	78.8
Jan. 13	49.9	12	73.3	29	91.1
27	47.4	19	69.8		
27	45.9	26	78.3		

Tornillo Canal at waste, near Alamo Alto, Tex.

Location.- Water-stage recorder, lat. 31°23'25", long. 105°59'40", in SW¼ sec. 12, 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 1936 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, 116 second-feet Nov. 22 (gage height, 1.74 feet); no flow at times.
1930-36: Maximum daily discharge, 327 second-feet Sept. 2, 1935 (gage height not determined); no flow at times.

Remarks.- Flow represents unused irrigation water at end of canal returned to Rio Grande. Hudspeth Canal diverts from Tornillo Canal just above station. Records furnished by U. S. Bureau of Reclamation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	15	80		0	9.6	32	2.5	44	2.2	15	15
2	49	3.3	9.7		0	30	19	1.1	60	1.9	31	50
3	73	2.1	0		0	19	2.2	8.1	53	1.6	21	82
4	69	0	0		0	22	9.3	12	27	1.4	10	57
5	70	.7	0		0	33	40	21	29	1.1	3.6	56
6	68	.8	0		0	44	42	25	49	.9	3.3	71
7	56	.6	0		0	28	35	44	34	.7	3.3	54
8	43	.4	0		0	7.2	20	40	14	.7	3.1	57
9	34	1.5	0		0	2.6	43	14	6.9	.7	3.3	24
10	36	16	0		0	3.2	45	25	6.2	15	7.5	13
11	1.9	14	0		0	1.4	25	10	1.9	26	6.0	57
12	1.9	1.1	0		0	1.4	2.5	1.6	1.9	29	4.9	56
13	1.6	12	0		0	2.0	2.8	2.7	7.3	29	4.5	33
14	4.0	47	0		0	2.8	1.4	2.5	4.3	16	7.0	48
15	4.2	43	0		0	21	1.4	3.8	9.6	26	29	24
16	1.6	45	13		0	30	1.1	4.7	12	15	12	23
17	.9	36	19		0	19	.9	.9	27	35	9.2	45
18	.9	45	10		.6	22	.9	.9	22	27	16	24
19	.8	82	27		0	25	.9	2.5	45	40	29	2.5
20	.8	57	50		0	9.1	.9	27	55	30	36	60
21	18	88	42		0	21	3.1	1.4	40	7.5	23	36
22	42	116	38		19	14	.7	1.1	13	.6	23	53
23	63	102	27		32	16	.6	20	13	15	64	39
24	59	0	0		28	5.5	.4	53	9.7	11	39	36
25	38	0	0		14	13	.6	52	7.5	3.6	32	15
26	16	0	0		2.2	28	0.4	3.1	6.2	3.7	21	94
27	11	0	0		2.2	15	5.3	41	2.5	7.6	7.6	86
28	26	0	0		4.7	1.1	3.2	25	7.5	2.5	53	65
29	29	15	0		8.5	16	1.6	21	8.3	3.3	75	44
30	28	95	0		-	5.2	3.3	52	3.1	2.2	46	32
31	9.3	-	.9		-	6.3	-	67	-	6.7	48	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	914.9	73	0.8	29.5	1,810
November	838.5	116	0	28.0	1,660
December	316.6	80	0	10.2	628
Calendar year 1935	5,863.2	327	0	16.1	11,630
January	0	0	0	0	0
February	111.2	32	0	3.83	221
March	473.4	44	1.1	15.3	939
April	352.5	45	.4	11.8	699
May	585.9	67	.9	18.9	1,160
June	619.9	60	1.9	20.7	1,230
July	362.9	40	.6	11.7	720
August	686.3	75	3.1	22.1	1,360
September	1,401.5	94	2.5	46.7	2,780
Water year 1935-36	6,663.6	116	0	18.2	13,210

Hudspeth Canal at head, near Alamo Alto, Tex.

Location.- Water-stage recorder, lat. 31°23'25", long. 105°59'40", in SW¼ sec. 12, 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 1936 in reports of U. S. Geological Survey; March 1930 to December 1931 in report of New Mexico State engineer.

Extremes.- Maximum daily discharge during year, 208 second-feet May 6; maximum daily gage height, 3.09 feet July 13, Aug. 1; no flow at times.
1930-36: Maximum daily discharge, 249 second-feet June 9, 1935; maximum daily stage, 4.53 feet Aug. 14, 1934; no flow at times.

Remarks.- Records good. Hudspeth Canal diverts from Tornillo Canal just above waste. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	0	77		0	66	168	128	157	129	204	183
2	98	0	42		0	75	165	42	164	71	194	179
3	91	0	0		0	79	163	141	160	86	201	158
4	91	0	0		0	73	122	152	161	80	172	167
5	80	0	0		0	91	154	204	163	104	113	168
6	60	0	0		0	86	171	208	159	117	63	157
7	80	0	0		0	90	171	200	157	97	95	179
8	81	0	0		0	91	171	204	154	63	82	178
9	96	9.9	0		0	83	172	201	119	64	149	163
10	70	8.7	0		0	92	177	178	126	164	157	160
11	91	48	0		0	67	190	172	51	181	69	163
12	74	54	0		0	59	138	172	77	194	176	164
13	70	113	0		0	66	155	174	147	198	194	164
14	70	116	0		0	71	46	160	171	203	169	169
15	14	116	0		0	67	54	159	167	197	166	159
16	0	115	33		0	83	76	133	170	188	166	163
17	0	114	77		0	88	75	127	193	194	163	150
18	0	115	91		0	109	61	90	193	194	143	136
19	0	29	88		0	117	66	118	196	190	167	113
20	0	0	78		0	86	93	123	192	187	177	73
21	53	0	77		0	93	141	108	182	186	191	106
22	79	0	77		0	95	136	101	169	200	190	126
23	52	0	73		0	111	133	158	186	204	177	124
24	37	0	48		28	117	114	155	154	191	185	96
25	72	0	0		58	125	112	160	175	145	194	22
26	84	0	0		48	143	109	159	160	154	164	66
27	86	0	0		45	137	130	173	76	192	187	91
28	85	0	0		25	114	103	160	118	101	177	91
29	82	.8	0		49	137	76	160	156	161	169	92
30	81	71	0		-	148	113	147	157	157	154	92
31	79	-	0		-	161	-	147	-	197	170	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,974	98	0	63.7	3,920
November	910.4	116	0	30.3	1,810
December	761	91	0	24.5	1,510
Calendar year 1935	27,105.7	249	0	74.3	53,770
January	0	0	0	0	0
February	253	58	0	8.72	502
March	3,021	161	59	97.5	5,990
April	3,755	190	46	125	7,450
May	4,714	208	42	152	9,350
June	4,610	196	51	154	9,140
July	4,809	204	63	155	9,540
August	4,978	204	63	161	9,870
September	4,052	183	22	135	8,040
Water year 1935-36	33,837.4	208	0	92.5	67,120

Pecos River at Irvin ranch, near Pecos, N. Mex.

Location.- Water-stage recorder, lat. 35°42'25", long. 105°41'0", 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 1936 in reports of U. S. Geological Survey; August 1919 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 420 second-feet May 5 and 6 (gage height, 2.77 feet); minimum daily discharge, 20 second-feet Feb. 4-6.
1930-36: Maximum discharge, 1,390 second-feet Sept. 24, 1931 (gage height, 3.70 feet); minimum daily discharge, 6.1 second-feet Jan. 16, 1934.

Remarks.- Records good except those for periods of ice effect, Dec. 12, 15-19, 22, Jan. 4, 8, 9, 13, 14, 18-28, 30, 31, Feb. 4-11, 14, 18, 27, 28, which were computed on basis of three discharge measurements, gage heights, weather records, and records for stations near Anton Chico and at Santa Rosa and are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	45	40	28	25	32	55	307	279	65	74	51
2	84	47	42	29	25	36	47	315	255	65	95	46
3	81	47	40	27	25	36	56	335	237	65	121	49
4	86	40	40	25	20	39	51	366	223	59	196	49
5	81	33	43	27	20	39	47	376	196	56	140	43
6	76	46	40	30	20	36	47	398	183	55	125	40
7	74	46	40	29	25	35	43	376	169	65	112	49
8	71	45	37	30	25	36	55	348	157	79	117	59
9	70	45	42	30	25	42	64	311	147	74	102	47
10	66	43	43	28	30	50	70	287	144	74	89	44
11	65	44	37	27	30	50	95	295	177	108	86	46
12	62	40	35	27	25	49	137	315	142	86	79	51
13	59	40	35	25	25	52	196	323	132	68	71	47
14	58	45	34	25	25	59	233	327	123	60	68	43
15	56	36	30	27	25	60	248	340	117	64	70	39
16	55	36	25	27	25	62	233	362	117	60	66	42
17	55	39	25	26	25	62	248	376	102	56	64	46
18	54	44	30	25	25	60	248	371	95	51	62	50
19	55	35	30	25	25	65	223	353	89	49	66	91
20	72	33	30	25	25	64	233	353	84	50	81	62
21	60	37	30	25	25	70	230	340	81	50	74	77
22	56	34	30	25	27	70	216	327	79	56	59	76
23	54	42	32	25	29	58	237	315	91	46	56	66
24	54	39	30	25	27	51	271	299	95	42	52	58
25	50	44	32	25	26	50	295	291	95	39	49	54
26	55	45	30	30	26	45	295	299	84	38	46	55
27	54	36	32	30	25	44	279	283	82	43	46	66
28	52	36	28	25	25	45	295	263	81	68	51	65
29	52	39	31	25	30	49	299	259	71	77	54	66
30	49	40	29	25	-	55	299	311	70	60	70	72
31	45	-	30	25	-	65	-	303	-	102	66	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,950	89	45	62.9	3,870
November	1,221	47	33	40.7	2,420
December	1,052	43	25	33.9	2,090
Calendar year 1935	47,825	624	16	131	94,870
January	827	30	25	26.7	1,640
February	735	30	20	25.3	1,460
March	1,566	70	32	50.5	3,110
April	5,345	299	43	178	10,600
May	10,124	398	259	327	20,080
June	3,997	279	70	133	7,930
July	1,930	106	38	62.3	3,830
August	2,507	196	46	80.9	4,970
September	1,649	91	39	55.0	3,270
Water year 1935-36	32,903	398	20	89.9	65,270

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 1936 in reports of U. S. Geological Survey; April 1910 to December 1931 in reports of State engineer. Prior to Jan. 11, 1929, station was at four sites ranging from 3½ miles above to 1 1/3 miles below present location. Records believed to be comparable.

Extremes.- Maximum discharge during year, about 4,590 second-feet July 11 (gage height, 5.18 feet); minimum daily discharge, 4.0 second-feet June 24, July 26.
1930-36: Maximum discharge, about 12,900 second-feet July 16, 1933 (gage height, 8.0 feet); no flow at times.

Remarks.- Records good except those for periods of ice effect, Jan. 9, 10, Feb. 3-6, 17-19, and those for Nov. 1-15, Dec. 1 to Jan. 8, Jan. 14-20, Apr. 28, 29, computed on basis of two discharge measurements, gage heights, weather records, and records for stations at Irvin ranch and at Santa Rosa, which are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	29			30	27	54	263	279	133	89	23
2	88	30			33	31	42	274	244	37	167	9.9
3	77	30		20	25	32	46	239	201	9.9	755	9.9
4	62	25			20	37	44	294	220	6.0	370	96
5	60	20			20	43	44	305	167	6.0	294	17
6	66	25			15	50	31	305	148	4.6	210	12
7	62	25		25	16	52	32	332	130	46	188	9.1
8	56	25	25		32	49	26	332	117	252	148	7.2
9	52	25		32	32	49	29	310	80	377	117	24
10	49	25		29	32	43	48	279	80	589	98	18
11	43	24		27	38	49	48	248	117	650	60	15
12	36	24		30	36	64	101	244	206	364	42	20
13	33	23		33	36	62	193	268	120	197	27	22
14	30	23			33	58	239	284	95	114	16	14
15	30	22			31	68	239	279	85	80	12	11
16	30	22		30	30	70	263	321	82	54	13	9.9
17	30	21			28	66	258	343	66	48	13	9.9
18	30	15			27	70	268	370	52	48	5.4	9.9
19	30	14		20	26	70	248	338	42	33	4.6	12
20	42	19		15	30	70	234	300	37	23	8.8	56
21	58	14		27	27	66	229	294	19	6.5	42	58
22	62	9.9		27	25	77	210	294	14	15	54	88
23	50	11	20	30	22	90	244	387	5.7	14	29	98
24	52	14		36	22	77	268	248	4.0	13	14	58
25	50	30		31	25	58	305	248	7.4	13	6.8	37
26	49	46		24	27	52	294	300	23	4.0	4.8	30
27	38	48		31	27	49	253	279	18	4.6	8.8	93
28	33	40		29	26	49	260	332	11	5.7	6.2	120
29	31	30		37	25	50	270	508	16	28	8.8	80
30	29	25		30	-	44	268	224	10	14	9.1	70
31	29	-		25	-	46	-	294	-	52	8.4	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	1,485	98	29	47.9	2,950
November	733.9	48	9.9	24.5	1,460
December	695	-	-	22.4	1,380
Calendar year 1935	57,728.6	1,880	2.6	158	114,500
January	818	-	15	26.4	1,620
February	796	38	15	27.4	1,580
March	1,718	90	27	55.4	3,410
April	5,088	305	26	170	10,090
May	9,386	508	224	303	18,620
June	2,696.1	279	4.0	89.9	5,350
July	3,241.3	650	4.0	105	6,430
August	2,829.7	755	4.6	91.3	5,610
September	1,137.8	120	7.2	37.9	2,260
Water year 1935-36	30,624.8	755	4.0	83.7	60,760

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 1936 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 15,000 second-feet probably on July 12, during period of no record (gage height, 9.5 feet, from high-water marks), from rating curve extended above 2,000 second-feet; minimum daily discharge, 8.3 second-feet Mar. 26.

1930-36: Maximum discharge and stage, those of July 12, 1936; minimum daily discharge, 6 second-feet Aug. 1, 1935.

Remarks.- Records fair except those for Oct. 1-7, Nov. 17-19, 21-23, Feb. 21, 23-26, Feb. 28 to Mar. 6, Mar. 8-25, 28, May 29, 30, June 16-19, 21-25, July 9-16, 18, 22-26, Aug. 11-13, Sept. 21-24, which were computed on basis of records for stations at Irvin ranch, Anton Chico, and near Guadalupe, gage heights, and weather records and are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		12	13	13	17	12	9.0	158	277	9.8	13	13
2		12	13	13	15	12	9.0	146	213	9.8	88	12
3	15	12	13	14	14	12	9.0	166	166	9.7	326	13
4		12	14	14	15	12	9.0	162	116	9.7	742	33
5		12	16	14	15	12	8.8	186	105	9.8	281	14
6	60	13	15	14	16	11	8.8	180	70	10	186	14
7	20	13	14	13	16	11	9.0	180	46	10	121	13
8	16	13	13	14	14	11	9.0	206	30	170	324	12
9	15	13	13	15	16	11	9.0	202	22	35	100	12
10	14	13	13	16	16	10	9.0	217	367	400	64	12
11	14	13	13	13	15	10	9.2	198	206	1,000	40	13
12	13	13	13	12	14	9	9.2	180	116	3,000	30	14
13	12	13	13	12	14	9	9.5	155	95	800	20	12
14	12	13	13	12	14	9	9.7	155	86	300	13	12
15	12	13	14	12	14	9	9.8	186	57	200	13	12
16	12	13	14	12	14	9	28	186	50	70	12	12
17	12	13	14	11	14	9	110	198	40	40	12	12
18	12	13	14	12	16	9	149	217	30	32	12	12
19	12	14	14	12	14	9	169	268	20	17	12	12
20	12	14	14	12	18	9	169	246	11	16	12	15
21	12	14	14	14	14	9	149	210	10	15	13	290
22	12	14	13	15	13	9	146	186	10	20	12	150
23	12	14	14	16	13	9	140	190	10	15	12	90
24	13	14	14	15	13	9	136	277	10	14	12	60
25	13	15	14	14	13	9	130	206	10	13	12	38
26	12	20	14	14	13	8.3	136	186	9.8	13	12	30
27	12	17	15	14	13	10	149	242	10	13	12	34
28	12	15	14	14	12	9	172	350	10	13	15	40
29	12	14	13	14	12	8.8	146	1,500	11	13	29	100
30	12	13	13	15	-	8.8	143	500	10	13	19	66
31	12	-	13	17	-	8.8	-	296	-	13	14	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	457	60	12	14.7	906
November	407	20	12	13.6	807
December	424	16	13	13.7	841
Calendar year 1935	49,905.0	6,370	6	137	98,990
January	422	17	11	13.6	837
February	417	18	12	14.4	827
March	303.7	12	8.3	9.80	602
April	2,209.0	172	8.8	73.6	4,380
May	7,935	1,500	146	256	15,740
June	2,223.8	367	9.8	74.1	4,410
July	6,303.8	3,000	9.7	203	12,500
August	2,583	742	12	83.3	5,120
September	1,172	290	12	39.1	2,320
Water year 1935-36	24,857.3	3,000	8.3	67.9	49,290

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 1903 to September 1925, October 1931 to February 1936 (discontinued owing to poor hydraulic conditions) 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 daily discharge during period, 358 second-feet Feb. 4 (gage height, 12.40 feet); minimum daily discharge, 170 second-feet Feb. 20.
1905-36: Maximum 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 Carlsbad project.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	164	88	247	256	278							
2	178	102	247	249	292							
3	214	117	234	237	298							
4	164	123	208	229	358							
5	156	125	208	230	352							
6	155	112	215	245	302							
7	146	104	223	247	294							
8	137	108	223	240	282							
9	136	121	222	249	266							
10	126	121	215	244	256							
11	114	127	203	242	245							
12	122	131	200	244	247							
13	131	133	195	251	235							
14	127	134	196	245	232							
15	112	138	196	244	242							
16	104	139	196	240	230							
17	98	140	195	238	216							
18	83	158	194	235	199							
19	81	163	190	234	184							
20	83	163	180	230	170							
21	82	163	186	218	-							
22	82	158	190	217	-							
23	76	149	197	229	-							
24	76	163	197	262	-							
25	80	181	182	276	-							
26	87	184	178	274	-							
27	89	201	181	266	-							
28	89	262	181	260	-							
29	89	302	178	270	-							
30	94	274	178	276	-							
31	98	-	173	278	-							

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3,573	214	76	115	7,090
November	4,584	302	88	153	9,090
December	6,208	247	173	200	12,310
Calendar year 1935	96,023	6,900	10	263	190,500
January	7,655	278	217	247	15,180
February 1-20	5,178	358	170	258	10,270
March					
April					
May					
June					
July					
August					
September					
The period					53,940

Pecos River near Artesia, N. Mex.

Location.- Water-stage recorder, lat. 32°50', long. 104°18', in NW¼ sec. 18, T. 17 S., R. 27 E., at Artesia-Lovington highway bridge 4.5 miles east of Artesia, 6.5 miles north of mouth of Penasco River, and about 16 miles above McMillan Dam.

Records available.- February to September 1936. Comparable records at site 6 miles below (published as Pecos River near Dayton, N. Mex.) March 1905 to September 1925, October 1931 to February 1936 in reports of U. S. Geological Survey; March 1905 to December 1931 in reports of State engineer.

Extremes.- Maximum daily discharge during period ending Sept. 30, 1936, 5,280 second-feet July 14 (gage height, 9.92 feet); minimum, 20 second-feet Apr. 17, 18, Aug. 22, 23, 27, 28.

1905-36: Maximum daily discharge, 50,300 second-feet during July 1905; no flow Aug. 17-24, 1934.

Remarks.- Records furnished by U. S. Bureau of Reclamation. Large diversion for irrigation above station. Discharge represents inflow into McMillan Reservoir for irrigation of about 25,000 acres of Carlsbad project.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					-	169	87	133	2,500	50	94	680
2					-	169	65	135	1,280	30	106	388
3					-	161	77	135	883	30	63	221
4					-	155	65	206	716	30	66	188
5					-	159	61	209	537	29	52	215
6					-	155	73	232	444	42	35	257
7					-	179	87	225	396	41	31	158
8					-	183	71	198	391	25	27	128
9					-	201	63	177	324	28	27	140
10					-	197	53	174	232	230	68	130
11					-	185	47	174	276	424	130	114
12					-	165	43	155	827	233	66	97
13					-	165	71	168	618	1,280	56	91
14					-	165	63	188	802	5,280	71	96
15					-	165	23	249	526	3,040	83	94
16					-	165	23	245	391	1,380	67	55
17					-	165	20	242	329	915	57	45
18					-	145	20	216	268	635	46	49
19					-	145	29	160	242	456	28	46
20					-	145	47	123	206	364	23	646
21					158	145	47	105	203	288	23	974
22					143	145	47	111	181	230	20	1,560
23					152	145	45	107	164	221	20	3,000
24					147	145	33	232	129	178	28	2,020
25					164	145	29	542	118	156	35	846
26					170	118	45	753	94	130	23	658
27					162	111	25	1,210	91	114	20	602
28					147	105	145	1,160	85	96	20	471
29					137	109	145	890	94	76	300	487
30					-	109	123	686	99	75	1,320	568
31					-	103	-	1,120	-	80	755	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October					
November					
December					
Calendar year					
January	-	-	-	-	-
February 21-29	1,380	170	137	153	2,740
March	4,718	201	103	152	9,360
April	1,792	145	20	59.7	3,550
May	10,860	1,210	105	350	21,540
June	13,446	2,500	85	448	26,670
July	16,186	5,280	25	522	32,100
August	3,780	1,320	20	122	7,500
September	15,024	3,000	45	501	29,800
The period					133,260

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 1936 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.- 24 years (1903-4, 1905-6, 1914-36), 294 second-feet.

Extremes.- Maximum daily discharge during year, 480 second-feet Jan. 29 (gage height, 1.32 feet); minimum daily discharge, 47 second-feet Nov. 10.
1903-8, 1914-36: Maximum discharge, about 85,700 second-feet Aug. 7, 1918 (gage height, about 21.0 feet); no flow May 9, 1904.

Remarks.- Records furnished by U. S. Bureau of Reclamation. Discharge estimated Jan. 1-27, July 26, 27, Sept. 16-18. Large diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	120	151	247	91	71	257	63	76	74	76	74	79
2	97	151	247	91	405	257	63	74	71	76	66	76
3	139	151	247	91	214	196	66	71	71	71	69	74
4	114	151	247	91	141	191	66	74	69	74	69	71
5	85	151	247	91	233	233	66	74	88	79	71	71
6	129	151	247	91	103	166	63	74	71	79	69	71
7	110	151	247	91	115	166	60	69	60	76	69	74
8	105	151	247	91	186	145	63	63	69	76	76	69
9	89	160	247	91	176	106	66	63	71	76	71	71
10	99	47	247	91	91	88	63	85	76	79	74	71
11	122	106	247	91	88	74	66	63	71	79	69	74
12	100	106	247	91	85	76	69	69	74	76	71	74
13	100	197	247	91	85	76	71	71	79	79	69	71
14	100	156	247	91	66	76	69	74	88	79	71	74
15	100	142	247	91	58	60	69	74	71	76	74	74
16	50	149	247	91	58	60	69	76	76	79	79	74
17	50	140	247	91	58	60	69	60	76	79	82	74
18	50	140	247	91	58	60	66	74	79	82	82	74
19	50	140	247	91	60	60	69	74	76	85	79	76
20	50	140	247	91	60	60	66	69	79	76	79	76
21	59	140	247	91	60	60	66	71	76	79	79	88
22	49	140	247	91	60	63	63	71	74	79	79	82
23	56	140	247	91	60	63	66	115	74	79	76	74
24	71	140	247	91	171	63	66	69	74	79	82	71
25	61	140	247	91	220	63	71	74	76	79	79	76
26	66	140	247	91	226	63	69	79	76	66	79	76
27	90	140	247	91	181	60	69	79	76	66	74	71
28	100	140	247	181	176	63	74	76	79	66	76	76
29	100	140	247	480	247	63	74	145	76	66	60	71
30	100	140	247	220	-	63	66	88	76	66	76	74
31	100	-	247	85	-	63	-	74	-	71	79	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	2,711	139	49	87.5	5,380
November	4,311	197	47	144	8,550
December	7,657	247	247	247	15,190
Calendar year 1935	40,516	4,460	45	111	80,370
January	3,423	480	85	110	6,790
February	3,812	405	58	131	7,560
March	3,154	257	60	102	6,260
April	2,006	74	60	66.9	3,980
May	2,368	145	60	76.4	4,700
June	2,246	88	60	74.9	4,450
July	2,348	85	66	75.7	4,660
August	2,502	82	60	74.3	4,570
September	2,227	88	69	74.2	4,420
Water year 1935-36	38,565	480	47	105	76,510

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 4¼ miles below mouth of Black River.

Records available.- May 1920 to September 1925, October 1931 to September 1936 in reports of U. S. Geological Survey; January 1921 to December 1931 in reports of State engineer.

Average discharge.- 16 years (1920-36), 272 second-feet.

Extremes.- Maximum daily discharge during year, 519 second-feet Nov. 7 (gage height, 3.45 feet); minimum daily discharge, 2 second-feet June 23.

1920-36: Maximum 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	179	227	227	288	162	249	51	32	87	38	44	42
2	231	237	269	288	194	244	44	32	65	40	29	38
3	232	232	220	252	275	224	41	32	73	36	32	57
4	202	232	214	267	204	211	34	59	68	35	44	51
5	187	227	217	265	214	214	54	51	68	36	47	41
6	206	364	234	249	224	168	52	45	78	47	73	51
7	227	519	249	267	236	152	65	60	50	48	73	43
8	180	501	244	227	267	194	48	55	39	54	78	52
9	183	288	249	247	288	180	36	38	39	44	80	39
10	147	178	246	262	252	118	31	36	27	45	62	39
11	143	111	250	252	204	110	34	31	36	45	45	60
12	128	157	228	231	207	116	47	24	34	48	25	52
13	146	241	232	227	204	103	63	18	36	51	21	39
14	155	240	244	214	204	127	35	36	39	36	12	51
15	169	200	234	254	146	90	45	63	48	78	10	41
16	145	212	234	247	152	99	39	55	42	83	9	51
17	134	199	236	211	152	104	42	65	42	90	23	50
18	177	256	234	219	152	92	55	76	29	78	24	65
19	221	214	244	293	152	90	47	54	13	83	20	138
20	200	205	247	270	148	76	55	62	7	79	18	354
21	210	163	244	202	172	63	65	75	15	73	18	280
22	171	208	239	165	184	65	67	70	23	57	18	172
23	162	244	244	273	184	59	60	475	2	27	20	116
24	163	259	239	241	184	80	63	146	3	27	19	144
25	227	256	247	216	216	57	60	202	5	11	19	161
26	232	260	235	214	222	51	63	202	3	3	19	144
27	139	252	247	236	247	70	57	97	11	16	7	138
28	168	244	250	231	249	57	55	398	7	14	15	125
29	178	241	229	320	244	52	55	110	32	13	34	97
30	216	226	247	326	-	44	70	129	10	13	35	97
31	216	-	244	239	-	48	-	68	-	14	48	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,674	232	128	183	11,250
November	7,393	519	111	246	14,660
December	7,417	269	214	239	14,710
Calendar year 1935	57,205	5,120	13	157	113,500
January	7,693	326	165	248	15,260
February	5,939	288	146	205	11,780
March	3,607	249	44	116	7,150
April	1,533	70	31	51.1	3,040
May	2,896	475	18	93.4	5,740
June	1,031	87	2	34.4	2,040
July	1,362	90	3	43.9	2,700
August	1,021	80	7	32.9	2,030
September	2,828	354	38	94.3	5,610
Water year 1935-36	48,394	519	2	132	95,970

Pecos River near Angeles, Tex.

Location.- Water-stage recorder, lat. 32°2', long. 104°0', 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 1936.

Average discharge.- 21 years (1914-15, 1916-36), 353 second-feet.

Extremes.- Maximum discharge during year, 6,680 second-feet Sept. 20 (gage height, 7.78 feet); minimum, 24 second-feet Aug. 16.
1914-36: Maximum gage height, 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 and those estimated on basis of known range in stage, knowledge of local conditions, and by comparison with records for station at Malaga, N. Mex., which are fair. 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	229	247	251	*268	225	256	54		176		68	94
2	256	260	220	*268	176	260	66				86	107
3	256	242	225	*268	260	251	63				70	130
4	208	234	*261	*268	278	225	54			*80	75	124
5	208	251	*261	*268	212	225	58	*72			60	102
6	184	242	*261	*268	229	200	73		*130		83	169
7	208	518	*261	283	229	158	73				105	116
8	220	560	*262	251	260	176	83				111	88
9	225	474	*262	288	306	200	66			201	121	108
10	188	234	*262	269	306	162	54			398	124	73
11	176	147	*262	288	229	121	52	86		154	94	73
12	172	105	*263	234	208	114	63	111		124	63	111
13	154	208	*263	247	184	121	78	127		105	45	94
14	200	251	*263	260	225	111	80	118		91	51	63
15	184	247	*263	242	220	130	52	121		74	36	86
16	196	225	*264	316	137	91	51	118		118	28	78
17	162	220	*264	234	97	100	52	114		121	26	88
18	180	204	*264	242	137	102	61	156		134	54	105
19	265	242	*264	247	147	88	86	127		127	45	160
20	260	220	*265	321	147	91	86	114	*80	140	52	2,030
21	265	212	*265	288	144	86	78	124		124	49	
22	220	204	*265	212	147	80	83	246		124	51	
23	200	229	*265	200	124	86	83	1,020		100	51	
24	200	269	*266	311	118	80		528		63	63	
25	225	278	*266	269	154	97		535		56	54	*430
26	269	297	*266	216	234	80	*74	424		38	51	
27	212	283	*266	247	234	75		635		45	47	
28	180	278	*267	260	260	78		528		47	49	
29	238	251	*267	288	256	73		372		43	101	
30	238	260	*267	423	-	66		256		63	243	
31	251	-	*267	311	-	56	-	238	-	192	105	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	6,629	269	154	214	13,150
November	7,892	560	105	263	15,650
December	8,088	*267	220	261	16,040
Calendar year 1935	74,367	7,890	29	204	147,500
January	8,355	423	200	270	16,570
February	5,883	306	97	203	11,670
March	4,039	260	56	130	8,010
April	2,067	-	-	68.9	4,100
May	6,818	1,020	-	220	13,520
June	2,946	-	-	98.2	5,840
July	3,322	398	38	107	6,590
August	2,283	243	28	73.6	4,530
September	8,321	2,030	73	277	16,500
Water year 1935-36	66,643	2,030	28	182	132,200

*Estimated.

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 1936 in reports of U. S. Geological Survey; March 1915 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, about 1,140 second-feet June 11 (gage height, 4.43 feet) from rating curve extended above 400 second-feet; minimum daily discharge, 1.8 second feet Aug. 25, 26, 28.

1930-36: Maximum discharge, about 1,420 second-feet Aug. 5, 1935 (gage height, 4.98 feet); minimum daily discharge, 0.8 second-foot Aug. 15-18, 21, 25, 26, 30, 1934.

Remarks.- Records good except those for periods of ice effect, Dec. 8, 9, 15-19, 22-27, 29, 31, Jan. 1, 2, 4, 6-10, 18-31, Feb. 4-7, and those for Mar. 20-23, June 28, July 20, which were computed on basis of records for station at Montezuma and weather records and are fair. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.1	5.5	6.4	5.0	2.6	3.4	7.1	19	12	2.8	4.5	7.9
2	5.2	6.8	6.1	4.8	2.4	3.4	6.1	20	9.2	2.6	7.4	6.1
3	4.8	6.4	5.8	4.8	2.2	3.8	6.4	25	10	2.8	23	6.1
4	4.5	6.4	5.5	4.8	2.1	4.5	5.2	26	10	2.2	12	5.8
5	4.5	5.5	5.2	4.8	2.2	4.2	5.2	25	9.2	2.2	9.7	5.5
6	4.5	4.0	4.2	3.0	3.5	4.0	4.5	22	7.1	2.2	7.4	4.2
7	4.5	4.5	5.2	3.0	4.5	4.0	4.5	23	5.8	2.4	6.8	4.8
8	4.5	4.5	5.5	3.0	5.2	4.5	5.5	23	5.5	2.4	5.8	4.5
9	3.6	5.8	5.5	3.5	4.0	4.5	4.0	22	4.5	2.2	5.2	4.8
10	3.0	5.2	6.1	4.0	3.8	4.8	5.2	20	4.5	4.5	4.2	4.5
11	3.4	5.8	6.1	4.0	3.8	4.8	6.4	18	47	4.5	4.0	4.2
12	3.8	6.1	5.5	3.0	3.6	4.2	8.3	16	10	4.0	4.0	4.5
13	4.5	5.2	5.5	3.0	3.4	4.8	13	16	7.1	4.0	3.6	4.2
14	4.2	6.4	4.5	3.2	3.4	4.5	16	17	6.1	3.4	3.4	3.8
15	4.2	5.8	4.0	3.4	3.4	4.5	16	17	5.5	2.8	3.2	3.8
16	4.5	5.5	4.2	3.4	3.4	4.5	16	14	3.8	3.0	3.4	3.8
17	4.2	5.2	4.4	2.6	3.4	4.8	18	16	3.6	6.4	3.2	10
18	4.8	6.4	4.6	2.0	2.4	4.5	19	16	3.6	5.5	3.0	8.3
19	4.5	5.2	5.0	2.0	2.8	4.2	18	16	2.8	4.2	3.2	43
20	5.8	4.8	5.2	2.0	3.2		18	16	4.0	5.2	2.2	24
21	6.4	4.5	4.0	3.0	3.0	5	20	14	3.6	6.1	2.2	32
22	6.8	5.2	4.5	3.0	3.4		19	14	2.8	7.9	2.1	36
23	6.8	5.8	4.0	3.0	3.8		18	14	2.4	6.1	2.1	26
24	6.1	6.1	4.0	3.0	4.0	6.1	19	12	2.2	3.8	1.9	19
25	4.8	7.1	3.0	3.0	4.0	6.8	19	12	2.2	3.4	1.8	16
26	7.1	6.1	4.0	2.0	3.4	5.8	21	13	1.9	3.6	1.8	14
27	6.4	5.5	5.0	2.5	3.4	6.4	19	15	1.9	3.8	2.1	18
28	7.1	5.2	5.5	3.0	3.6	6.8	18	14	2.0	4.0	1.8	19
29	6.1	5.2	5.2	2.0	3.6	6.4	20	16	2.2	4.5	37	21
30	6.8	6.1	5.2	2.5	-	6.8	21	19	2.6	4.5	19	36
31	6.4	-	5.2	3.0	-	7.1	-	16	-	3.8	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	159.9	7.1	3.0	5.16	317
November	167.8	7.1	4.0	5.59	333
December	154.1	6.4	3.0	4.97	306
Calendar year 1935	7,193.6	435	1.6	19.7	14,270
January	99.3	5.0	2.0	3.20	197
February	97.5	5.2	2.1	3.36	193
March	154.1	7.1	3.4	4.97	306
April	396.4	21	4.0	13.2	786
May	546	26	12	17.6	1,080
June	195.1	47	1.9	6.50	387
July	120.8	7.9	2.2	3.90	240
August	203.0	37	1.8	6.55	403
September	400.8	43	3.8	13.4	795
Water year 1935-36	2,694.8	47	1.8	7.36	5,340

15873 O—37——16

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 (gage heights only prior to October 1904), October 1930 to September 1936 in reports of U. S. Geological Survey; October 1904 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 90 second-feet Aug. 29 (gage height, 3.17 feet); minimum daily discharge, 0.5 second-foot Mar. 5-7.
1930-36: Maximum discharge, about 720 second-feet Oct. 1, 1930 (gage height, 4.81 feet); no flow Oct. 4-7, 1934.

Remarks.- Records good. Discharge Feb. 26-28 interpolated. Flow regulated by reservoirs owned by Agua Pura Co. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	3.7	2.0	1.7	1.6	0.6	2.4	18	22	0.8	0.8	6.8
2	5.3	3.5	1.8	1.6	1.5	.6	2.4	13	26	.9	.8	2.6
3	2.8	3.9	1.7	1.6	1.2	.6	2.2	25	5.7	.9	3.9	1.8
4	.8	3.5	1.7	1.5	1.1	.6	2.8	28	6.4	.7	8.0	1.8
5	.8	3.5	2.4	1.7	1.0	.5	1.6	24	6.4	.7	5.7	2.0
6	.6	2.6	1.7	1.6	1.2	.5	1.8	20	5.0	.7	2.0	2.2
7	.8	2.6	1.6	1.7	1.2	.5	1.8	22	3.9	.6	2.0	4.2
8	.9	2.4	1.6	1.5	1.4	.6	1.7	24	3.7	.7	1.4	3.7
9	.9	2.4	1.6	1.6	1.4	.6	2.0	21	2.8	.7	1.4	2.6
10	1.7	3.5	1.6	1.8	1.4	.6	1.8	17	3.3	.8	1.4	2.0
11	1.1	2.6	2.0	1.5	1.4	.7	.6	15	3.5	.7	1.4	2.0
12	1.2	3.3	1.8	1.6	1.5	.8	.6	14	10	.6	1.4	2.0
13	1.2	2.0	1.6	1.5	1.2	.8	.6	16	4.3	.6	1.4	2.0
14	1.6	2.6	1.4	1.6	1.4	.7	3.7	15	1.7	.7	1.4	1.8
15	2.0	2.6	1.2	1.8	1.2	.6	9.5	15	1.5	.7	1.5	1.7
16	1.4	2.2	1.0	1.7	1.1	.6	12	12	1.4	.7	1.5	2.0
17	1.2	2.0	1.0	1.4	1.1	.6	12	12	1.4	.7	1.5	5.0
18	1.4	2.6	1.0	1.1	1.0	.6	13	15	1.4	.6	1.5	9.5
19	1.4	1.7	1.1	1.4	1.0	1.0	16	16	1.2	.7	1.6	47
20	1.6	1.2	1.4	1.4	1.1	1.5	12	12	.9	.8	1.6	21
21	1.6	1.2	1.5	1.6	1.0	.8	9.5	11	.9	.8	1.7	24
22	2.2	1.2	1.1	1.6	.9	.8	12	10	.9	.6	1.8	40
23	3.5	1.1	1.2	1.7	1.0	1.4	13	10	.9	.8	1.5	25
24	3.7	1.4	1.2	1.8	1.0	.9	13	8.5	.8	.9	1.1	13
25	3.1	2.0	1.5	1.8	1.0	.8	16	9.5	.7	1.0	1.1	10
26	3.5	3.3	1.4	1.8	.9	.9	20	12	.7	1.0	1.1	10
27	4.6	2.0	1.7	1.7	.8	.9	18	12	.8	1.0	2.5	15
28	3.9	1.5	2.0	1.6	.7	1.1	15	12	.8	.9	1.4	20
29	4.6	1.7	1.6	1.6	.6	1.6	18	18	.6	.6	15	20
30	3.5	1.8	1.6	1.1	-	2.0	18	24	.8	.7	23	40
31	4.3	-	1.6	1.1	-	1.2	-	23	-	.7	12	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	72.0	5.3	0.8	2.32	143
November	71.6	3.9	1.1	2.39	142
December	47.6	2.4	1.0	1.54	94
Calendar year 1935	6,986.2	455	.1	19.1	13,860
January	48.7	1.8	1.1	1.57	97
February	32.9	1.6	.6	1.13	65
March	26.0	2.0	.5	.84	52
April	253.2	20	.6	8.44	502
May	504.0	28	8.5	16.3	1,000
June	120.6	26	.7	4.02	239
July	23.5	1.0	.6	.76	47
August	104.4	23	.8	3.37	207
September	340.7	47	1.7	11.4	676
Water year 1935-36	1,645.2	47	.5	4.50	3,260

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 1936 in reports of U. S. Geological Survey; August 1930 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 127 second-feet Sept. 27 (gage height, 2.08 feet); minimum daily discharge, 0.7 second-foot July 26.
1930-36: Maximum discharge, about 1,140 second-feet July 23, 1933; no flow Aug. 15, 16, 1935.

Remarks.- Records fair. Discharge Jan. 14-16, Feb. 27 interpolated. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	5.2	5.7	6.8	8.9	0.9	4.6	22	24	3.5	29	17
2	8.9	5.2	5.7	6.8	9.4	.9	3.8	20	23	1.3	15	15
3	9.4	4.6	5.2	6.8	8.9	.9	3.3	20	14	1.1	9.8	20
4	9.8	4.4	5.7	6.0	8.9	.9	6.0	21	12	1.2	6.4	17
5	9.4	4.9	6.0	5.5	8.1	.9	4.9	20	6.6	1.1	3.2	15
6	8.5	4.6	5.5	5.5	8.5	.9	4.6	19	5.5	1.0	1.9	13
7	7.3	4.4	5.7	5.5	8.5	1.2	4.4	19	6.8	1.6	1.2	10
8	6.4	4.1	6.4	5.2	8.5	1.7	3.3	17	3.8	1.1	.9	7.3
9	5.5	4.4	6.0	5.2	8.9	2.3	3.6	17	2.9	1.7	.9	6.8
10	5.7	4.9	5.5	5.2	9.4	2.6	5.2	21	2.9	1.4	1.2	3.3
11	5.7	5.2	5.2	5.5	9.8	1.9	4.4	18	3.0	7.1	1.1	4.1
12	4.6	5.2	5.7	5.7	9.6	1.6	4.6	13	3.0	3.2	1.1	4.1
13	4.9	4.6	6.0	7.7	9.8	1.5	8.9	13	2.6	2.0	1.0	6.5
14	4.6	3.0	6.0	7.8	9.8	1.6	9.4	11	2.7	1.6	1.1	11
15	4.1	3.2	5.7	7.9	9.4	2.2	8.5	6.8	2.3	1.6	1.0	9.4
16	3.3	3.6	5.7	8.0	8.5	4.4	11	6.4	2.3	3.2	1.1	9.4
17	3.3	3.9	5.5	6.1	8.5	5.5	9.4	7.3	2.0	2.0	1.0	6.5
18	3.6	5.5	4.9	8.1	3.8	8.5	14	6.8	1.9	1.7	1.0	8.9
19	4.1	6.0	4.9	8.1	1.1	4.9	30	6.0	1.6	1.5	1.0	6.5
20	4.4	7.3	5.5	8.5	1.0	6.0	30	5.7	1.7	1.3	.9	8.5
21	4.1	6.4	5.5	8.9	.9	9.8	35	5.5	1.5	1.0	1.0	7.7
22	3.8	5.5	5.5	8.5	.8	13	39	4.1	1.4	.9	1.0	8.1
23	3.8	6.0	5.7	8.5	.9	14	30	3.0	1.2	.8	1.0	7.7
24	4.6	6.0	5.7	8.9	.9	11	27	3.2	1.6	.8	1.0	8.5
25	5.5	5.5	5.7	8.5	.8	9.8	26	3.6	1.0	.8	1.0	10
26	5.7	5.2	5.7	8.5	.8	7.7	31	14	.9	.7	1.0	14
27	6.4	5.2	6.0	8.5	.8	6.0	31	23	.9	2.3	1.0	74
28	5.7	4.9	6.8	7.7	.9	5.5	21	29	.9	1.5	7.5	79
29	5.5	4.6	6.4	8.9	.9	4.9	23	28	1.5	1.3	29	92
30	5.2	5.7	6.8	8.1	-	4.6	25	28	1.4	1.1	46	98
31	5.7	-	6.8	8.9	-	4.6	-	29	-	7.8	23	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	179.5	10	3.3	5.79	356
November	149.1	7.3	3.0	4.97	296
December	179.1	6.8	4.9	5.78	355
Calendar year 1935	3,157.8	191	0	8.65	6,260
January	227.8	8.9	5.2	7.35	452
February	167.2	9.8	.8	5.77	332
March	142.2	14	.9	4.59	282
April	461.9	39	3.3	15.4	916
May	460.4	29	3.0	14.9	913
June	137.3	24	.9	4.58	272
July	59.2	7.8	.7	1.91	117
August	192.3	46	.9	6.20	381
September	604.3	98	3.3	20.1	1,200
Water year 1935-36	2,960.3	98	.7	8.09	5,870

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 1936 in reports of U. S. Geological Survey; August 1930 to December 1931 in reports of State engineer.

Extremes.- Maximum stage during year, 14.15 feet July 7 (discharge not determined); no flow several months.
1930-36: Maximum stage, that of July 7, 1936; no flow at times.

Remarks.- Records poor. Records for Dec. 16-19, Jan. 30, Feb. 18-20, Mar. 1-5, 10-12, 17-19, 24-26, Mar. 31 to Apr. 2, Apr. 7, 8, 14-16, 21, 22, 28-30, May 5-7, 9-13, 26-29, May 31 to June 12, June 17-19, 25, 26, July 7-17, July 28 to Aug. 2, Aug. 28-30, Sept. 21, 22, 27, 28, 30, based on gage heights, weather records, and records for Rio Ruidoso at Hondo. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.9	0	0.7					0	0	0	190	0
2	6.2	0	.3					0	0	0	60	0
3	5.5	0	0					0	0	0	15	0
4	4.4	0	0					0	0	0	7.4	0
5	4.4	0	0					0	0	.4	4.1	0
6	4.4	0	0					0	0	.6	1.9	0
7	4.1	.3	0					0	0	347	1.3	0
8	3.8	.8	0					0	0	338	.8	0
9	3.8	.7	0					0	0	50	.9	0
10	3.8	.6	0					0	0.3	30	1.3	0
11	4.8	.8	0					0	.6	30	.4	0
12	5.2	1.9	0					0	.9	15	0	0
13	2.8	2.6	0					0	0	2	0	1.7
14	.2	1.5	0					0	0	0	0	0
15	0	1.0	0					0	0	0	0	0
16	0	1.1	0					0	19	2	0	0
17	.1	1.2	0					0	.1	1	0	0
18	0	.4	0					0	0	0	0	0
19	0	.4	0					0	0	0	.1	0
20	0	3.2	0					0	0	0	0	0
21	0	3.2	0					0	0	0	0	260
22	0	3.2	0					0	0	.1	0	40
23	0	2.8	0					8.2	0	.3	0	5.8
24	0	1.7	0					8.9	5.1	0	0	5.8
25	.1	1.3	0					.8	.2	0	0	11
26	.2	2.8	0					.3	0	0	0	8.4
27	.2	2.6	0					.1	0	2.7	0	430
28	.2	2.6	0					200	0	60	25	55
29	.2	1.9	0					10	0	20	6	53
30	.2	.8	0					0	0	10	.3	10
31	.3	-	0					-	-	70	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	62.8	7.9	0	2.03	125
November	39.4	3.2	0	1.31	78
December	1.0	.7	0	.03	2.0
Calendar year 1935	1,538.7	170	0	4.22	3,050
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	228.3	200	0	7.36	453
June	26.2	19	0	.87	52
July	979.1	347	0	31.6	1,940
August	314.5	190	0	10.1	624
September	880.7	430	0	29.4	1,750
Water year 1935-36	2,532.0	430	0	6.92	5,020

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 1936.

Extremes.- Maximum discharge during year, about 182 second-feet Sept. 7 (gage height, 3.42 feet); minimum daily discharge, 6.2 second-feet Sept. 6.
1932-36: Maximum discharge, about 20,000 second-feet Sept. 24, 1932 (gage height, 19.5 feet); minimum daily discharge, 5.4 second-feet Aug. 12-14, 1935.

Remarks.- Records fair except those for Dec. 6-12, Aug. 30 to Sept. 1, Sept. 27-30, which were computed on basis of records for Cottonwood Creek near Lake Arthur and weather records and are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	13	35	18	30	15	12	21	16	7.6	9.3	10
2	17	14	29	16	28	14	12	22	10	7.2	9.3	9.3
3	17	16	20	16	23	15	12	21	9.0	7.0	9.6	7.8
4	17	22	18	17	22	15	11	35	9.0	7.0	9.6	7.2
5	16	21	17	16	30	15	11	26	9.0	7.0	9.8	6.6
6	16	20	16	14	23	14	10	23	9.0	7.2	9.6	6.2
7	15	20	15	13	24	14	11	22	9.3	7.4	9.8	44
8	15	25	14	12	25	19	11	18	9.3	7.6	9.8	13
9	15	24	14	12	22	19	11	16	9.3	7.8	9.6	11
10	15	28	13	12	23	18	11	14	11	7.8	9.6	9.8
11	14	28	12	12	26	17	11	14	13	8.0	9.6	8.8
12	14	25	11	12	25	17	11	13	14	8.5	9.8	9.0
13	14	32	10	12	23	16	11	12	13	9.0	9.8	9.6
14	14	32	10	12	22	16	11	12	12	9.3	9.8	9.3
15	13	96	10	12	27	16	11	11	11	9.6	9.6	9.8
16	14	81	10	12	30	15	11	10	11	9.6	9.3	9.8
17	13	62	10	13	24	15	11	9.8	10	10	9.6	10
18	13	50	10	12	30	15	12	9.6	9.6	11	9.6	9.8
19	13	46	10	12	27	14	12	9.0	8.8	11	9.8	11
20	13	42	11	12	25	14	13	8.8	8.0	11	9.3	11
21	13	28	27	12	25	14	13	8.5	8.0	10	9.3	10
22	13	22	40	12	25	13	19	8.5	7.8	10	9.0	9.6
23	12	32	35	13	20	13	25	7.8	7.6	10	9.0	10
24	12	33	30	13	18	13	24	7.8	7.4	11	9.0	10
25	12	30	28	13	18	12	24	8.0	7.0	11	9.0	10
26	11	31	25	14	17	12	23	12	7.0	11	9.3	9.8
27	11	35	25	14	16	12	22	30	6.8	11	9.6	10
28	11	28	25	14	16	12	22	31	6.8	10	9.3	10
29	12	52	22	18	16	12	21	24	7.0	10	9.3	10
30	13	37	22	32	-	12	21	12	7.4	9.6	30	10
31	13	-	20	29	-	11	-	14	-	8.8	15	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	428	17	11	13.8	849
November	1,025	96	13	34.2	2,030
December	594	40	10	19.2	1,180
Calendar year 1935	8,988.3	2,320	5.4	24.6	17,830
January	451	32	12	14.5	895
February	660	30	16	23.4	1,350
March	449	19	11	14.5	891
April	440	25	10	14.7	873
May	490.8	35	7.8	15.8	973
June	284.1	16	6.8	9.47	564
July	283.0	11	7.0	9.13	561
August	320.0	30	9.0	10.3	635
September	322.4	44	6.2	10.7	639
Water year 1935-36	5,767.3	96	6.2	15.8	11,440

Cottonwood Creek near Lake Arthur, N. Mex.

Location.- Water-stage recorder, lat. 32°57', long. 104°22', in NE¼NW¼NE¼ sec. 22, T. 16 S., R. 26 E., 1 5/6 miles above mouth and 3½ miles south of Lake Arthur.

Records available.- March 1932 to September 1936.

Extremes.- Maximum discharge during year, 64 second-feet Aug. 30 (gage height, 3.49 feet); no flow May 19-22, 24.

1932-36: Maximum discharge, about 1,100 second-feet June 13, 1935 (gage height, 9.86 feet); no flow May 19-22, 24, 1936.

Remarks.- Records poor. Discharge for Nov. 13, 16-20, Nov. 28 to Dec. 13, May 23, 25, June 9-11, July 1-9, 11-15, Aug. 4, 5, 13-31, Sept. 8-10 computed on basis of records for Rio Felix near Hagerman and weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.8	8.3		11	13	6.6	7.1	9.1	24	3	5.2	4.8
2	9.9	9.6		11	13	8.1	6.6	9.0	23	2	5.0	4.5
3	9.8	8.2	14	10	11	8.2	6.6	9.9	22	2	4.9	4.0
4	9.7	8.0		11	9.0	7.2	7.0	11	21	2	3	4.0
5	9.5	8.7		12	9.1	7.1	6.0	9.7	19	2	1	3.6
6	9.2	9.6		12	9.2	6.5	6.5	7.7	18	2	.4	3.6
7	9.3	9.9		11	9.2	6.7	8.4	6.3	17	2	.4	3.3
8	9.3	10		10	8.6	6.3	8.6	5.7	16	2	.4	1.4
9	9.5	10		11	8.4	6.2	8.4	6.4	10	2	1.3	2.5
10	9.1	9.8	13	12	8.4	5.9	8.2	6.3	2	2.3	2.0	2.5
11	8.9	9.3		11	8.4	6.7	8.3	6.2	5.6	2	.8	2.9
12	8.9	9.6		12	8.0	7.7	8.5	6.2	2.3	2	2.4	2.9
13	9.0	9.6		12	7.2	6.6	9.2	6.0	3.0	2	3	2.3
14	8.5	9.5	13	12	8.9	7.1	9.8	6.2	8.1	8	3	3.2
15	8.7	9.5	13	12	9.8	6.7	9.9	5.9	10	2	3	3.3
16	8.7		14	11	10	6.6	9.8	5.4	11	3.5	3	3.1
17	8.4		13	12	9.9	7.1	11	5.3	11	2.9	3	2.9
18	8.3	11	13	13	9.7	8.0	11	3.1	9.0	2.9	3	3.2
19	8.5		13	15	9.7	7.5	11	0	6.8	2.9	3	3.3
20	9.0		13	14	9.2	8.0	13	0	7.0	3.0	3	3.9
21	9.6	12	15	14	8.9	8.2	12	0	8.9	3.2	3	3.3
22	9.7	12	13	14	9.1	7.5	12	0	7.4	3.7	3	1.7
23	9.3	12	13	14	9.1	6.1	13	.6	7.2	4.1	3	1.2
24	9.3	13	12	14	7.0	5.8	13	0	7.2	4.0	3	1.3
25	9.2	14	12	8.6	7.2	6.7	12	14	6.8	3.8	3	5.5
26	9.3	15	12	11	7.5	6.3	13	32	6.5	3.6	3	5.7
27	9.1	14	12	11	7.5	6.6	13	34	5.9	3.5	3	6.5
28	9.0		12	11	6.3	7.0	12	30	5.5	3.6	3	6.7
29	9.0	14	12	12	6.1	6.8	11	26	5.4	3.7	3	5.0
30	8.9		11	13	-	6.7	9.6	26	4.9	3.9	20	3.3
31	8.3	-	11	13	-	6.6	-	25	-	5.1	10	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	282.7	9.9	8.3	9.12	561
November	328.6	-	8.0	11.0	652
December	399	-	11	12.9	791
Calendar year 1935	4,550.4	743	1.2	12.5	9,020
January	370.6	15	8.6	12.0	735
February	258.4	13	6.1	8.91	513
March	215.1	8.2	5.8	6.94	427
April	295.5	13	6.0	9.85	586
May	313.0	34	0	10.1	621
June	311.5	24	2	10.4	618
July	94.7	8	2	3.05	188
August	107.8	20	.4	3.48	214
September	105.6	6.7	1.2	3.52	209
Water year 1935-36	3,082.5	34	0	8.42	6,120

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 1936.

Extremes.- Maximum discharge during year, 870 second-feet Sept. 22 (gage height, 3.78 feet), from rating curve extended above 200 second-feet; no flow several months.
1932-36: Maximum stage, 8.00 feet Sept. 29, 1932, from floodmarks (discharge not determined); no flow at times.

Remarks.- Records poor. No diversions.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.1						0	15	0	0	0
2	.4	0						0	11	0	0	0
3	.3	0						0	9.1	0	0	0
4	.2	0						16	7.2	0	0	.1
5	.2	0						17	6.0	0	0	2.8
6	.2	0						1.1	5.0	0	0	19
7	.2	0						0	3.9	0	0	16
8	.1	0						0	3.5	0	0	6.0
9	.1	0						0	3.0	1.1	0	3.2
10	.1	0						0	2.3	.2	0	2.0
11	.1	0						0	2.0	.2	0	1.3
12	0	0						0	1.6	.1	0	27
13	0	0						0	1.3	.1	0	15
14	0	0						0	1.1	.1	0	6.0
15	0	0						0	2.0	0	0	3.5
16	0	0						0	3.2	0	0	2.6
17	0	0						0	1.6	0	0	81
18	0	0						0	.9	0	0	63
19	0	0						0	.7	0	2.0	35
20	0	0						0	.5	0	0	65
21	0	0						0	.4	0	0	216
22	0	0						0	.3	0	0	202
23	.2	0						6.9	.1	0	0	126
24	.4	0						6.4	.1	0	0	114
25	.2	0						8.6	.5	0	0	119
26	.2	0						157	.2	0	0	121
27	.1	0						112	0	0	0	92
28	.1	0						89	0	0	0	75
29	.1	0						46	0	0	0	58
30	.1	0						30	0	0	0	44
31	.1	-						21	-	0	0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	3.8	0.4	0	0.12	7.5
November	.1	.1	0	.003	.2
December	0	0	0	0	0
Calendar year 1935	325.1	32	0	.89	645
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	511.0	157	0	16.5	1,010
June	82.5	15	0	2.75	164
July	1.8	1.1	0	.06	3.6
August	2.0	2.0	0	.07	4.0
September	1,515.5	216	0	50.5	3,010
Water year 1935-36	2,116.7	216	0	5.78	4,200

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 1936.

Average discharge.- 10 years (1925-31, 1932-36), 214 second-feet.

Extremes.- Maximum discharge during year, about 38,300 second-feet Sept. 17 (gage height, 14.88 feet); minimum, 112 second-feet Apr. 22-24 and May 11-13.
1925-36: Maximum discharge, by slope-area method, 370,000 second-feet Sept. 1, 1932 (gage height, 31.3 feet, from floodmarks); 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 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	187	160	146	143	136	124	119	116	133	126	124	121
2	185	160	146	143	136	131	117	116	131	131	122	121
3	183	160	146	143	136	128	116	116	131	128	122	121
4	183	158	148	143	134	126	117	116	131	126	128	124
5	179	157	148	143	134	129	117	116	131	126	128	121
6	179	157	148	143	134	126	116	116	129	3,000	128	119
7	179	157	148	144	134	126	116	116	128	9,910	128	119
8	177	157	148	144	134	126	117	116	128	852	128	117
9	175	155	148	144	134	124	117	114	128	250	128	117
10	177	153	148	144	134	124	117	114	126	187	126	117
11	175	153	148	144	134	124	116	112	126	166	126	117
12	173	153	146	144	134	122	116	112	124	157	126	117
13	171	150	146	143	133	124	116	114	124	150	126	117
14	171	150	146	141	131	122	114	114	124	150	126	117
15	169	150	146	141	131	122	114	114	124	143	124	275
16	167	148	146	141	131	122	116	116	124	143	124	10,800
17	167	148	146	141	131	122	114	116	124	138	124	20,900
18	167	148	146	141	129	122	114	116	124	134	124	14,200
19	164	148	146	139	129	122	114	121	124	133	122	1,640
20	164	148	146	139	129	122	114	116	124	133	122	507
21	164	148	146	139	129	121	114	116	124	133	122	258
22	164	148	146	139	129	124	112	116	122	133	122	191
23	166	148	146	139	129	122	112	120	128	129	122	169
24	160	148	146	139	129	119	112	126	126	129	121	158
25	160	148	146	139	129	119	114	144	126	129	121	153
26	162	150	146	138	126	119	116	136	124	129	121	3,740
27	164	148	146	139	124	119	124	134	122	128	121	15,900
28	162	148	144	139	124	119	122	134	122	126	121	2,170
29	160	148	144	138	124	119	117	134	133	126	121	792
30	160	146	144	136	-	119	116	134	128	126	122	362
31	160	-	144	136	-	119	-	133	-	124	121	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	5,274	187	160	170	10,460
November	4,550	160	146	152	9,020
December	4,534	148	144	146	8,990
Calendar year 1935	210,822	23,900	66	578	418,200
January	4,369	144	136	141	8,670
February	3,801	136	124	131	7,540
March	3,807	131	119	123	7,550
April	3,476	124	112	116	6,890
May	3,734	144	112	120	7,410
June	3,793	133	122	126	7,520
July	17,695	9,910	124	571	35,100
August	3,841	128	121	124	7,620
September	73,880	20,900	117	2,463	146,500
Water year 1935-36	132,754	20,900	112	363	263,300

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 1936 in reports of U. S. Geological Survey; May 1921 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 132 second-feet July 25 (gage height, 2.47 feet); minimum daily discharge, 2.1 second-feet Aug. 16, 17.
1930-36: Maximum discharge, about 2,060 second-feet July 17, 1933 (gage height, 4.51 feet); minimum daily discharge, 1.4 second-feet July 11, 12, 1933.

Remarks.- Records good except those for Nov. 9, 10, Apr. 2-4, Aug. 24-28, which were computed on basis of records for stations near Faywood and Gila River near Gila and weather records and are poor. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	5.0	6.2	5.3	11	14	5.9	5.3	7.0	5.0	8.1	15
2	6.5	5.0	5.9	5.3	11	14	6.0	5.9	6.5	5.6	7.5	12
3	6.2	5.3	5.9	5.3	30	14	6.2	6.5	7.0	5.9	5.9	11
4	5.6	5.3	6.2	5.3	18	13	6.4	5.9	7.0	6.2	4.1	7.5
5	5.3	5.3	5.9	5.3	11	13	6.5	5.6	6.2	6.5	3.5	6.5
6	5.9	5.3	5.6	5.3	8.1	13	6.5	5.3	5.6	6.2	3.1	6.2
7	5.6	5.3	5.9	5.6	7.0	13	6.2	5.0	5.0	6.2	2.8	16
8	5.9	5.0	5.9	5.6	5.6	12	7.0	5.6	4.1	5.6	2.6	7.0
9	5.9	5.9	5.9	5.0	5.3	12	7.5	5.9	3.8	5.6	2.8	5.3
10	5.9	7.5	5.9	5.0	5.3	11	6.5	7.5	3.1	6.2	5.6	5.0
11	5.3	7.0	5.9	5.0	5.0	11	5.0	6.2	4.4	7.5	3.1	8.6
12	5.0	6.5	5.9	5.0	5.0	11	4.1	6.5	5.6	6.5	3.3	5.6
13	5.0	6.2	5.9	5.0	5.9	9.1	4.4	7.5	6.2	6.2	3.1	4.7
14	5.3	5.9	5.9	5.0	5.6	7.5	4.7	8.6	7.5	5.9	3.0	4.7
15	5.3	6.2	5.9	4.7	6.2	6.5	4.7	8.1	7.0	5.9	2.4	4.4
16	4.4	6.2	5.9	4.7	7.5	6.5	4.4	6.2	6.2	5.3	2.1	4.7
17	3.8	5.9	5.9	5.0	14	7.0	3.8	6.2	5.0	4.4	2.1	3.8
18	3.5	5.9	5.9	4.7	16	6.5	3.8	5.9	4.1	4.4	2.2	3.5
19	4.4	5.9	5.9	4.7	16	6.5	3.3	5.9	5.3	3.5	3.0	4.4
20	4.7	5.9	6.2	4.7	13	6.2	3.5	6.2	5.0	3.3	4.7	5.0
21	4.7	5.6	6.2	4.7	12	5.9	3.5	5.9	5.0	3.0	3.8	4.7
22	4.7	5.9	5.9	4.7	13	6.5	3.8	5.6	4.4	3.1	4.1	4.4
23	4.7	5.9	5.9	4.7	18	6.2	4.1	6.2	4.7	6.2	3.5	4.1
24	5.0	5.9	5.9	4.7	26	6.2	4.1	6.5	4.7	4.7	3.0	3.8
25	4.7	7.5	5.9	4.7	27	6.2	5.0	7.5	5.9	11	3.0	3.8
26	4.7	6.5	5.9	4.7	20	6.2	5.3	6.5	7.0	12	3.5	3.8
27	4.4	6.2	5.6	4.7	17	5.9	5.3	7.0	6.5	8.1	15	11
28	4.7	5.9	5.6	4.4	14	5.9	5.3	6.2	6.5	7.0	11	12
29	4.7	6.2	5.6	5.3	13	5.6	5.3	6.2	5.6	5.6	9.1	8.1
30	5.0	6.2	5.6	11	-	5.6	5.3	6.5	5.0	6.2	7.0	6.2
31	5.0	-	5.6	12	-	5.9	-	7.0	-	7.0	6.2	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	158.3	6.5	3.5	5.11	314
November	178.3	7.5	5.0	5.94	354
December	182.3	6.2	5.6	5.88	362
Calendar year 1935	3,251.3	242	2.2	8.91	6,450
January	167.1	12	4.4	5.39	331
February	366.5	30	5.0	12.6	727
March	272.9	14	5.6	8.80	541
April	153.4	7.5	3.3	5.11	304
May	196.9	8.6	5.0	6.35	391
June	166.9	7.5	3.1	5.56	331
July	185.8	12	3.0	5.99	369
August	144.2	15	2.1	4.65	286
September	202.8	16	3.5	6.76	402
Water year 1935-36	2,375.4	30	2.1	6.49	4,710

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 1936 in reports of U. S. Geological Survey; April 1908 to December 1931 in reports of State engineer.

Extremes.- Maximum discharge during year, 259 second-feet July 25 (gage height, 1.97 feet); no flow at times.
1930-36: Maximum discharge, about 6,900 second-feet Aug. 10, 1931 (gage height, 6.62 feet); no flow at times.

Remarks.- Records poor. Discharge Oct. 26, Nov. 28-30, Jan. 16-31, May 25-30, July 10, 11, Sept. 16-19 computed on basis of records near Mimbres and weather records. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	2	10	10	11	34	4	4	2	1	2	
2	13	4	10	9	10	32	4	5	2	2	2	
3	11	4	11	10	16	30	4	4	2	3	2	
4	10	5	12	10	30	28	4	4	2	2	2	
5	8	6	13	10	23	22	4	4	2	2	2	
6	7	7	11	10	18	14	4	3	2	1	2	
7	7	7	11	10	16	14	4	4	2	1	1	
8	6	10	11	9	15	15	4	4	2	1	1	
9	4	12	10	9	15	12	4	3	2	1	1	
10	4	10	10	9	16	13	5	3	2	1	1	
11	3	9	10	9	14	13	5	3	2	1	0	
12	1	9	9	9	13	11	5	3	1	1	0	
13	1	8	9	9	13	8	4	3	2	1	0	
14	1	8	9	9	14	7	4	3	2	1	0	
15	1	8	9	10	16	10	4	3	2	1	0	
16	1	9	10	9	17	9	4	3	2	1	0	
17	1	9	10	9	17	9	4	3	2	1	0	
18	1	9	8	9	26	7	4	3	2	1	0	
19	1	9	8	9	32	7	5	3	2	1	0	
20	2	10	11	9	37	7	4	3	2	1	0	
21	2	9	13	8	34	6	4	3	1	1	0	
22	2	9	12	8	34	6	4	3	2	1	0	
23	2	10	12	8	37	6	4	3	2	0	0	
24	3	10	11	8	42	4	4	3	2	0	0	
25	3	14	12	8	49	4	4	3	1	25	2	
26	4	13	12	8	48	4	4	3	1	5	2	
27	5	13	13	8	44	4	4	3	1	2	8	
28	4	12	12	8	38	4	4	2	1	2	5	
29	4	12	12	8	33	4	4	2	2	2	5	
30	4	11	12	9	-	4	4	2	2	3	0	
31	4	-	10	9	-	4	-	2	-	2	-	

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	136	16	1	4.4	270
November	268	14	2	8.9	532
December	333	13	8	10.7	660
Calendar year 1935	3,820	450	0	10.5	7,590
January	277	10	8	8.9	549
February	728	49	10	25.1	1,440
March	352	34	4	11.4	698
April	124	5	4	4.1	246
May	97	5	2	3.1	192
June	54	2	1	1.8	107
July	68	25	0	2.2	135
August	38	8	0	1.2	75
September	0	0	0	0	0
Water year 1935-36	2,475	49	0	6.8	4,900

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 3 miles northeast of Tularosa.

Records available.- December 1912 to December 1914, October 1931 to September 1936 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, 238 second-feet July 9; maximum recorded gage height, 3.16 feet Sept. 20; minimum daily discharge, 4 second-feet July 13-16, 23-26. 1931-36: Maximum discharge, about 2,480 second-feet Aug. 27, 1935 (gage height, 7.54 feet); minimum daily discharge, 1 second-foot July 31, Aug. 1, 1934.

Remarks.- Records fair October to April, others poor. Discharge for Oct. 13, 21, 22, 24-28, Nov. 6-9, Dec. 3, 4, June 10, 24-27, July 11-15, 24-29, July 31 to Aug. 6, Aug. 8-13, 15-20, 22-27, Aug. 29 to Sept. 1, Sept. 21-30 computed on basis of records for Rio Ruidoso at Hondo, weather records, and staff-gage readings. Diversions for irrigation above station.

Discharge, in second-feet, water year October 1935 to September 1936

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

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	410	-	10	13.2	813
November	423	17	13	14.1	839
December	465	16	13	15.0	922
Calendar year 1935	4,445	104	2	12.2	8,820
January	496	18	14	16.0	984
February	451	17	15	15.6	895
March	443	16	12	14.3	879
April	384	14	10	12.8	762
May	362	16	9	11.7	718
June	339	20	6	11.3	672
July	232	20	4	7.5	460
August	407	40	8	13.1	807
September	353	30	5	11.8	700
Water year 1935-36	4,765	40	4	13.0	9,450

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 gate.

Records available.- October 1934 to September 1936.

Extremes.- Maximum discharge during year, 26 second-feet Aug. 27 (gage height, 1.58 feet); no flow Jan. 21-24, Feb. 8, 9, Sept. 27-29.
1934-36: Maximum discharge, that of Aug. 27, 1936; no flow Jan. 21-24, Feb. 8, 9, Sept. 27-29, 1936.

Remarks.- Records fair. Discharge Dec. 4, 5 computed on basis of trace. No diversions above station. Ditch diverts from Rio La Luz, and the water is used for irrigation.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.0	6.0	6.9	1.3	1.1	8.0	6.6	5.0	4.3	1.4	5.5	3.2
2	7.8	5.8	2.8	1.6	2.0	6.4	5.5	4.8	3.7	1.9	3.8	3.2
3	7.3	6.4	1.4	1.7	2.1	6.1	5.1	5.1	3.7	1.8	3.7	4.3
4	7.2	6.6	2.0	1.8	1.9	6.3	5.1	7.0	2.9	1.8	3.2	3.2
5	6.6	5.8	2.5	6.4	1.3	6.7	6.3	5.7	2.4	1.8	3.4	2.6
6	7.2	5.5	2.5	7.5	1.9	7.6	5.7	5.5	2.6	1.7	2.3	2.6
7	6.6	5.7	2.1	9.5	.8	8.3	5.4	4.8	2.4	1.9	2.2	2.9
8	6.9	6.4	2.0	9.8	0	7.8	5.8	5.0	2.5	2.0	2.4	2.6
9	6.4	6.1	1.9	10	0	7.6	6.3	5.0	2.3	3.2	2.8	2.9
10	6.3	6.1	2.0	9.1	5.4	7.5	6.7	4.8	3.3	4.8	2.6	3.1
11	5.4	6.6	1.9	8.1	8.6	6.4	6.4	3.9	2.4	4.0	4.0	4.2
12	5.2	6.4	1.9	7.5	7.6	5.7	6.6	3.4	2.5	3.3	2.2	3.6
13	5.5	5.7	2.0	7.8	8.5	5.8	5.5	4.3	2.5	2.5	2.1	3.7
14	5.2	2.5	2.2	8.0	9.1	6.7	5.1	4.5	2.9	3.3	2.8	3.4
15	6.1	3.4	2.1	7.8	10	7.8	5.5	4.2	2.4	3.0	2.6	3.2
16	5.7	3.3	2.1	7.6	11	7.3	5.0	3.6	2.6	2.2	2.6	3.3
17	6.1	3.3	2.4	7.6	11	6.9	5.2	4.4	1.9	2.4	2.5	3.2
18	6.1	3.3	2.4	7.5	11	6.3	5.4	4.4	2.0	2.6	4.6	3.1
19	6.6	3.3	3.8	7.5	11	5.8	5.4	3.9	2.1	2.3	4.6	3.1
20	5.8	3.2	4.0	2.7	11	5.7	5.2	3.7	2.0	2.8	5.7	4.3
21	6.3	3.1	4.3	0	11	5.1	5.2	3.6	2.1	2.4	3.8	4.3
22	5.2	3.2	4.2	0	11	6.1	5.1	4.2	2.5	2.3	3.7	3.7
23	6.4	5.4	3.0	0	10	7.5	4.7	4.6	2.1	2.2	4.4	3.6
24	7.5	5.8	2.1	0	10	7.3	4.3	3.9	2.3	2.0	3.1	5.1
25	7.3	8.0	1.8	.5	10	6.1	4.3	4.6	3.4	2.3	3.2	8.0
26	7.3	5.0	1.6	1.6	10	5.8	5.5	3.7	3.2	2.8	3.7	5.1
27	7.3	6.7	1.6	1.4	10	7.3	4.8	5.2	2.9	2.5	6.1	0
28	7.3	6.7	1.7	1.0	11	7.2	5.0	3.7	2.5	3.7	5.2	0
29	7.3	6.4	1.6	.4	11	6.9	5.2	3.4	2.6	5.0	5.0	0
30	7.3	7.5	1.5	.8	-	6.3	5.0	3.8	2.0	4.8	4.8	.5
31	7.3	-	1.5	.2	-	6.1	-	5.5	-	4.6	4.0	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	204.5	8.0	5.2	6.60	406
November	159.2	8.0	2.5	5.31	316
December	75.8	6.9	1.4	2.45	150
Calendar year 1935	1,994.9	11	.6	5.47	3,960
January	136.7	10	0	4.41	271
February	209.3	11	0	7.22	415
March	208.4	8.3	5.1	6.72	413
April	162.9	6.7	4.3	5.43	323
May	139.2	7.0	3.4	4.49	276
June	79.0	4.3	1.9	2.63	157
July	85.3	5.0	1.4	2.75	169
August	112.6	6.1	2.1	3.63	223
September	96.0	8.0	0	3.20	190
Water year 1935-36	1,668.9	11	0	4.56	3,310

Alamo Creek at Wood ranch, near Alamogordo, N. Mex.

Location.- Water-stage recorder, lat. 32°51'25", long. 105°50'0", 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 1936.

Extremes.- Maximum discharge during year, 5.0 second-feet Aug. 5 (gage height, 0.57 foot); minimum daily discharge, 0.8 second-foot several times.
1931-36: Maximum discharge, 7.7 second-feet July 17, 1933 (gage height, 1.55 feet, former datum); minimum daily discharge, 0.6 second-foot Apr. 30, 1935.

Remarks.- Records good except those for Dec. 1 to Jan. 6, Jan. 8-17, 24, Mar. 13, which were computed on basis of observers' and engineers' notes and knowledge of local conditions and are fair.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.0	1.0	0.9	1.1	1.0	1.0	1.0	0.9	1.0	0.9	0.8
2	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	1.0	.8	.8
3	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	1.0	.8	.8
4	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	1.0	.9	.8
5	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	1.0	.8	.8
6	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	1.0	.8	.8
7	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	1.0	.8	.8
8	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	1.0	1.0	.8	.8
9	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	1.0	1.0	.8	.8
10	1.0	1.0	1.0	.9	1.1	1.0	1.0	1.0	1.0	1.2	.8	.8
11	1.0	1.0	1.0	.9	1.1	1.0	1.0	.9	1.0	1.1	.8	.8
12	1.0	1.0	1.0	.9	1.0	1.0	1.0	.9	1.0	1.1	.8	.8
13	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	1.1	.8	.8
14	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	1.0	.8	.8
15	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	1.0	.8	.8
16	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	1.0	.8	.8
17	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	1.0	.8	.8
18	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	1.1	.8	.8
19	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.8	1.0	1.1	.8	.8
20	1.0	1.0	.9	1.0	1.0	1.0	1.0	.8	1.0	1.0	.9	.8
21	1.0	1.0	.9	1.0	1.0	1.0	1.0	.8	1.0	1.0	.8	.8
22	1.0	1.0	.9	1.0	1.0	1.0	1.0	.9	1.0	1.0	.8	.8
23	1.0	1.0	.9	1.0	1.0	1.0	1.0	.9	1.0	1.0	.8	.8
24	1.0	1.0	.9	1.0	1.0	1.0	1.0	.9	1.0	1.0	.8	.8
25	1.0	1.0	.9	1.0	1.0	1.0	1.0	.9	1.0	1.0	.8	1.0
26	1.0	1.0	.9	1.0	1.0	1.0	1.0	.9	1.0	1.0	.8	1.0
27	1.0	1.0	.9	1.0	1.0	1.0	1.0	.9	1.0	1.0	.8	1.0
28	1.0	1.0	.9	1.0	1.0	1.0	1.0	.9	1.0	.9	.8	.9
29	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	1.0	.9	.8	.9
30	1.0	1.0	.9	1.1	-	1.0	1.0	.9	1.0	.9	.8	.9
31	1.0	-	.9	1.1	-	1.0	-	.9	-	.9	.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	31.0	1.0	1.0	1.00	61
November	30.0	1.0	1.0	1.00	60
December	29.8	1.0	.9	.96	59
Calendar year 1935	464.0	1.9	.6	1.27	921
January	30.1	1.1	.9	.97	60
February	30.1	1.1	1.0	1.04	60
March	31.0	1.0	1.0	1.00	61
April	30.0	1.0	1.0	1.00	60
May	28.0	1.0	.8	.90	56
June	29.3	1.0	.9	.98	58
July	31.3	1.2	.9	1.01	62
August	25.1	.9	.8	.81	50
September	24.9	1.0	.8	.83	49
Water year 1935-36	350.6	1.2	.8	.96	696

Alamogordo water supply at intake, near Alamogordo, N. Mex.

Location.- Water-stage recorder, lat. 32°50'50", long. 105°50'45", 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 1936.

Extremes.- Maximum discharge during year, 6.2 second-feet July 8 (gage height, 0.89 foot); minimum daily discharge, 0.3 second-foot Sept. 27.
1932-36: Maximum discharge, that of July 8, 1936; no flow July 7, 1933.

Remarks.- Records good. Discharges Nov. 17, 18 interpolated. Water is diverted from Alamo Creek for use of town of Alamogordo.

Discharge, in second-feet, water year October 1935 to September 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.9	1.1	1.4	1.5	1.4	1.3	1.2	1.0	0.9	1.0	0.8
2	1.0	.9	1.1	1.4	1.5	1.4	1.3	1.2	1.0	.9	.9	.8
3	1.0	.9	1.1	1.4	1.5	1.4	1.3	1.2	1.0	.9	.9	.8
4	1.0	.9	1.1	1.5	1.5	1.4	1.3	1.2	1.0	.8	.9	.8
5	1.0	.9	1.1	1.5	1.5	1.4	1.3	1.2	1.0	.8	1.0	.8
6	1.0	1.0	1.1	1.5	1.5	1.4	1.3	1.1	1.0	.8	.9	.8
7	1.0	1.0	1.1	1.5	1.5	1.4	1.3	1.1	1.0	.9	.9	.8
8	1.0	1.0	1.1	1.5	1.5	1.4	1.3	1.1	1.0	.9	.9	.8
9	1.0	1.0	1.1	1.4	1.5	1.3	1.3	1.1	1.0	.9	.9	.8
10	1.0	1.0	1.1	1.5	1.5	1.3	1.3	1.1	1.0	.9	.9	.8
11	1.0	1.0	1.2	1.5	1.5	1.3	1.3	1.1	1.0	.9	.9	.8
12	1.0	1.0	1.2	1.5	1.4	1.3	1.3	1.1	.9	.9	.9	.8
13	1.0	1.0	1.2	1.5	1.4	1.3	1.3	1.1	.9	.9	.9	.8
14	1.0	1.0	1.2	1.5	1.4	1.3	1.3	1.1	.9	.9	.9	.8
15	1.0	1.0	1.2	1.5	1.4	1.3	1.3	1.1	.9	.8	.9	.8
16	1.0	1.0	1.2	1.5	1.4	1.3	1.3	1.1	.9	.8	.9	.8
17	1.0	1.0	1.3	1.5	1.4	1.3	1.2	1.1	.9	.8	.9	.8
18	1.0	1.0	1.3	1.5	1.4	1.3	1.2	1.1	.9	.8	1.0	.8
19	1.0	1.0	1.1	1.5	1.4	1.3	1.2	1.1	.9	.8	.8	.8
20	1.0	1.0	1.0	1.5	1.4	1.3	1.2	1.1	.9	.8	.9	.8
21	1.0	1.0	1.1	1.5	1.4	1.3	1.2	1.1	.9	.8	.8	.7
22	1.0	1.0	1.1	1.5	1.4	1.3	1.2	1.1	.9	.8	.8	.7
23	1.0	1.0	1.2	1.5	1.4	1.3	1.2	1.1	.9	.8	.8	.7
24	1.0	1.0	1.3	1.5	1.4	1.3	1.2	1.1	.9	.8	.8	.8
25	1.0	1.1	1.3	1.5	1.4	1.3	1.2	1.1	.9	.8	.8	.8
26	1.0	1.1	1.3	1.5	1.4	1.3	1.2	1.1	.9	.8	.8	.7
27	1.0	1.0	1.3	1.5	1.4	1.3	1.2	1.1	.9	.8	.9	.3
28	1.0	1.0	1.3	1.5	1.4	1.3	1.2	1.1	.9	.9	.8	.8
29	1.0	1.1	1.4	1.8	1.4	1.3	1.2	1.1	.9	1.0	.8	.8
30	.9	1.1	1.4	1.6	-	1.3	1.2	1.1	.9	1.0	.8	.8
31	.9	-	1.4	1.5	-	1.3	-	1.0	-	1.0	.8	-

Month	Second-foot-days	Maximum	Minimum	Mean	Run-off in acre-feet
October	30.8	1.0	0.9	0.99	61
November	29.9	1.1	.9	1.00	59
December	37.0	1.4	1.0	1.19	73
Calendar year 1935	461.0	1.5	.9	1.26	913
January	46.5	1.8	1.4	1.50	92
February	41.7	1.5	1.4	1.44	83
March	41.1	1.4	1.3	1.33	82
April	37.6	1.3	1.2	1.25	75
May	34.5	1.2	1.0	1.11	68
June	28.1	1.0	.9	.94	56
July	26.6	1.0	.8	.86	53
August	27.1	1.0	.8	.87	54
September	23.1	.8	.3	.77	46
Water year 1935-36	404.0	1.8	.3	1.10	802

In addition to the records of stream flow obtained at gaging stations and reported in the preceding pages, measurements of flow were made at a number of other points, as shown in the following table:

Miscellaneous discharge measurements in western Gulf of Mexico basins during water year October 1935 to September 1936

(Flood measurements of West Nueces River and Seco Creek in 1935 given at end of this table)

Date	Stream	Tributary to-	Locality	Drainage area	Gage height	Discharge
				Square miles	Feet	Sec.-ft.
Sept.29	Cedar Creek..	Trinity River	4½ miles above Saint Louis Southwestern railroad bridge near Trinidad, Tex.	910	-	*35,400
Apr. 8	Choates Creek	Long King Creek	50 feet above Houston, East & West Texas (Southern Pacific) railroad bridge near Livingston, Tex.	-	-	3.30
Sept.21	Double Mountain Fork of Brazos River	Brazos River.	5 miles northeast of Slaton, Tex.	-	-	*1,070
28	Brazos River.	Gulf of Mexico	Just below Iron Creek, near Whitney, Tex.	16,940	-	*63,000
21	White River (Blanco Canyon)	Salt Fork of Brazos River	7 miles south of Floydada, Tex.	-	-	*875
26 or 27	Childress Creek	Brazos River	Lat.31°43', long.97°20', at McLennan-Bosque Co. line 4½ miles north of China Springs, Tex.	79	-	*47,000
27	Aquilla Creek	Brazos River	4½ miles above mouth and 2 miles northeast of Gholson, Tex.	372	-	*84,500
27	Bosque River	....do.....	Lat.31°34', long.97°12', at Lake Waco Dam, near Waco, Tex.	1,660	-	†96,000
26	Sevenmile Draw	Leon River..	Lat.31°31', long.97°47', at Ames, Tex.	2.4	-	*5,140
27	Sulphur Creek	Lampasas River	Lat.31°4', long.98°8', 2½ miles below Lampasas, Tex.	112	-	*30,400
18	Colorado River	Gulf of Mexico	Lat.31°30'35", long.99°40'15", 5 miles northwest of Stacy, Tex.	-	-	*356,000
21	....do.....	....do.....	Former gaging station near Tow, Tex.	a/31,120	27.90	111,000
21	....do.....	....do.....	....do.....	....do...	30.55	‡164,000
21	....do.....	....do.....	....do.....	....do...	32.1	**202,000
22	....do.....	....do.....	....do.....	....do...	31.3	‡‡182,000
Oct. 18	Irrigation canal	South Concho River	Head of canal, Christoval, Tex.	-	-	15.6
Nov. 19	....do.....	....do.....	....do.....	-	-	16.4
Dec. 31	....do.....	....do.....	....do.....	-	-	11.8
Feb. 14	....do.....	....do.....	....do.....	-	-	10.8
Apr. 21	....do.....	....do.....	....do.....	-	-	9.62
May 22	....do.....	....do.....	....do.....	-	-	16.1
June 25	....do.....	....do.....	....do.....	-	-	12.7
July 28	....do.....	....do.....	....do.....	-	-	13.4
Aug. 26	....do.....	....do.....	....do.....	-	-	13.7
Sept.15	Pecan Creek.	....do.....	2.3 miles above mouth and 10 miles south of San Angelo, Tex.	81	-	*30,500
17	North Concho River	Concho River	Former gage site at San Angelo, Tex.	b/1,798	39.9	*184,000
26	....do.....	....do.....	....do.....	b/1,798	29.42	‡91,400
17	Grape Creek.	North Concho River	1 mile below junction of East and West Forks, and 15 miles northwest of San Angelo, Tex.	53	-	*31,800
17	....do.....	....do.....	At Gulf, Colorado & Santa Fe Railroad bridge, 4 miles southeast of Carlsbad, Tex.	79	-	††45,600
17	East Fork of Grape Creek	Grape Creek.	1¼ miles above mouth and 16 miles northwest of San Angelo, Tex.	32	-	*23,500
17	West Fork of Grape Creek	....do.....	2¼ miles above mouth and 18 miles northwest of San Angelo, Tex.	17	-	*14,200
17	Dry Creek...	North Concho River	9½ miles above Gulf, Colorado & Santa Fe railroad bridge and 13 miles north of San Angelo, Tex.	14	-	*24,600
17	....do.....	....do.....	At Gulf, Colorado & Santa Fe railroad bridge 8 miles northwest of San Angelo, Tex.	48	-	††19,200
17	Red Bank Creek	Concho River	½ mile below Coke-Tom Green County line and 16 miles north of San Angelo, Tex.	.76	-	*2,490

*Slope-area measurement.
†Computation of flow over dam.
‡Float measurement.
**Determined from extension of rating curve to peak stage from float measurement at a stage 0.8 foot lower.
††Contracted-opening method.
‡‡Total flow of springs.
a/11,800 square miles probably noncontributing.
b/Revised; 123 square miles probably noncontributing.

Miscellaneous discharge measurements in western Gulf of Mexico basins during water year October 1935 to September 1936--Continued.

(Flood measurements of West Nueces River and Seco Creek in 1935 given at end of this table)

Date	Stream	Tributary to-	Locality	Drainage area	Gage height	Discharge
				Square miles	Feet	Sec.-ft.
Oct. 7	La Luz Ditch..	Diverts from Alamogordo-La Luz Ditch	SW¼ sec. 25, T. 15 S., R. 10 E., at head, a quarter of a mile above La Luz, N. Mex.	-	.24	.85
Nov. 19	....do.....	....do.....	....do.....	-	.31	1.13
Dec. 12	....do.....	....do.....	....do.....	-	.37	2.02
Jan. 8	....do.....	....do.....	....do.....	-	.25	.99
Feb. 4	....do.....	....do.....	....do.....	-	.32	1.32
27	....do.....	....do.....	....do.....	-	.25	.74
Apr. 8	....do.....	....do.....	....do.....	-	.24	.76
May 15	....do.....	....do.....	....do.....	-	.24	.66
June 9	....do.....	....do.....	....do.....	-	.24	1.05
July 17	....do.....	....do.....	....do.....	-	.24	.83
Aug. 7	....do.....	....do.....	....do.....	-	.24	.81
Sept. 2	....do.....	....do.....	....do.....	-	.24	.69
21	....do.....	....do.....	....do.....	-	.24	.68

Floods on West Nueces River and Seco Creek in 1935****

June 14	West Nueces River	Nueces River.	In Edwards County, 2½ miles below Kickapoo Springs and 28 miles north of Brackettville, Kinney County, Tex.	402	-	*580,000
14	....do.....	....do.....	8 miles north of Cline, Uvalde County, Tex.	808	-	*536,000
May 31	Seco Creek...	Frio River...	11 miles above D'Hanis, Medina County, Tex.	153	-	*230,000

*Slope-area measurement.
****Results of these measurements were not published in Water-Supply Paper 788.

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